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WHO-prequalified equipment
for the Expanded Programme
on Immunization (WHO EPI)

DATE OF LAST REVISION CATEGORY INFORMATION: 09/2024
DATE OF LAST REVISION PRODUCT DATA SHEETS: Date of download

WHO Immunization Devices Performance, Quality & Safety (IMD-PQS)

CATALOGUE OF PREQUALIFIED DEVICES

"PQS Catalogue"

World Health Organization

Vaccines & Immunization Devices Assessment Team (VAX)
Prequalification Unit (PQT)
Regulation and Prequalification Department (RPQ)
Access to Medicines and Health Products Division (MHP)

Preface

The WHO PQS Catalogue includes details of all immunization-related products and devices currently prequalified by WHO for procurement by United Nations agencies. The catalogue is produced and maintained by the World Health Organization (WHO) Performance, Quality, and Safety (PQS) Secretariat in the Access to Medicines and Health Products (MPH) Division of WHO in Geneva, Switzerland. The PQS Catalogue replaces the old WHO/UNICEF Product Information Sheets (PIS), of which the last edition was published in 2000.

Only products that are included in the IMD-PQS Catalogue are recommended for purchase by UN agencies.

Products that successfully meet WHO standards for immunization products and devices are "prequalified" for use in any national Expanded Programme on Immunization (EPI) to which they are relevant. Prequalified products are listed in the IMD-PQS Catalogue and accompanied by information sheets to help buyers select the most appropriate products for their specific needs.

The IMD-PQS Catalogue and individual product data sheets are available and accessible as an online version on the IMD-PQS website under Key resources/Prequalified products[1]. Each edition of the catalogue is date-stamped and updated regularly to ensure that the information it contains remains current.

Navigation

The PQS Catalogue is organized into the following sections:

E001: Cold rooms, freezer rooms and related equipment
E002: Refrigerated vehicles
E003: Refrigerators and freezers
E004: Cold boxes and vaccine carriers
E005: Coolant-packs
E006: Temperature monitoring devices
E007: Cold chain accessories
E008: Single-use injection devices
E010: Waste management equipment
E013: Injection devices for therapeutic purposes

Categories E009 and E012 are currently not in use.

[1] PQS Catalogue, PQS website *Key resources/Prequalified products*: https://extranet.who.int/prequal/immunization-devices/online-catalogue

Coding

Each catalogue section includes a brief presentation of the equipment category, details of currently prequalified products and links to relevant supporting documents, including equipment selection.

Every product has a unique reference: the IMD-PQS product code. The code comprises the category reference (e.g. E003) followed by a number that is exclusive to the product. A unique reference is never reassigned to another product, therefore breaks in the numerical sequence will appear when an item is dropped from the catalogue.

Feedback

User feedback is an essential component of the regulatory value chain for cold chain equipment. Information on how equipment performs in the field operating context informs WHO IMD-PQS equipment standards. It also provides valuable information for product manufacturers and EPI programmes to take actions that result in improved CCE performance.

IMD-PQS actively encourages product users to provide feedback on:

- product performance or any defects encountered, and
- your evolving operational needs.

The IMD-PQS Feedback Form[2] can be used to share information on equipment performance issues, or an email can be sent to gobinai@who.int and mallinsp@who.int for general comments and queries.

Conditions of use

Information presented in the WHO IMD-PQS Devices Catalogue does not reflect the views or policies of the World Health Organization (WHO) and the mention of specific companies and products does not imply any endorsement or recommendation by the WHO.

The IMD-PQS Catalogue may be reproduced and translated in whole or in part for educational or non-profit purposes without special permission. However, no use may be made for resale or for any other commercial purpose whatsoever.

Web-accessible links to sites external to the WHO are provided as additional resources in the catalogue. However, no endorsement is implied and WHO is not responsible for the accuracy of information provided by external sites.

[2] PQS Product Feedback Form: https://extranet.who.int/prequal/form/imd-feedback-form

Abbreviations

The following symbols and abbreviations may occur in the section guidelines and in the product data sheets:

--	information not applicable or not available
<	less than or equal to
>	greater than or equal to
°C	degrees celsius (centigrade)
A	ampere
AC	alternating current
BCG	bacille Calmette-Guérin vaccine (for tuberculosis)
cc	cubic centimetre
CFC	chloro-fluoro-carbon
cm	centimetre
DC	direct current
DT	diphtheria and tetanus toxoid vaccine
DTP	diphtheria-tetanus-pertussis vaccine
g	grams
G	gauge
GWP	global warming potential (CO2 = 1.0)
H x W x L	height by width by length (or depth)
HC	hydrocarbon
HDPE	high-density polyethylene
HepB	hepatitis B vaccine
HFC	hydro fluorocarbon
Hib	Haemophilus influenzae type b vaccine
HIPS	high impact polystyrene
hrs	hours
Hz	hertz (cycles per second)
id	internal diameter
IPV	inactivated polio vaccine
kg	kilograms
km	kilometre
kVA	kilovolt-ampere
kWh	kilowatt-hours
L	litres
m	metre
m3	cubic metre
max	maximum
min	minimum
ml	millilitre
mm	millimetre
MMR	measles-mumps-rubella vaccine
MR	measles-rubella vaccine

No.	number
od	outer diameter
ODP	ozone depletion potential
OPV	oral polio vaccine
PoA	price on application
psi	pounds per square inch
PVC	polyvinyl chloride plastic
RPM	revolutions per minute
TT	tetanus toxoid vaccine
V	volt
VAC	voltage alternating current
VDC	voltage direct current
W	watt
YF	yellow fever vaccine

Product prequalification under IMD-PQS

Every item listed in the catalogue has been shown to comply with the relevant IMD-PQS performance specifications and has been independently assessed against the companion verification protocols. IMD-PQS performance specifications and verification protocols can be downloaded from the IMD-PQS website[3].

A performance specification defines the functional requirements of a product and describes the environment within which it must operate. It also describes any interface and inter-changeability requirements.

A product verification protocol describes in detail how the performance of a class of immunization-related products will be tested or otherwise evaluated as part of the IMD-PQS product prequalification procedure. Products that satisfy performance specification standards are deemed to be prequalified and will be included on the IMD-PQS database.

Following initial prequalification, all listed products must pass an annual review in order to maintain WHO-prequalified status. This process will take account of feedback from manufacturers, purchasing agencies and end-users. Adverse reports may lead to product modifications, suspension of prequalified status or, in serious cases, loss of prequalified status and withdrawal from the IMD-PQS Catalogue.

How to order products

Procurement of IMD-PQS-prequalified products can be done through various mechanisms such as government public procurement service providers, UN agencies, NGOs and others.

[3] WHO Prequalification of Immunization Devices (PQS) website: https://extranet.who.int/prequal/immunization-devices

An overview of the procurement process via UN agencies can be found in the UN 'Procurement Practitioner's Handbook'[4] (PPH), a reference document that provides guidance in best procurement practices, processes and procedures.

Procurement practices will vary and are governed by established regulations and rules of each procurement agency. For procurement via UNICEF Supply Division, detailed procurement instructions can be accessed in the UNICEF Supply Division 'General Procurement Guideline'[5] on the UNICEF Cold Chain Support Package website[6].

When you order a product, whether from a UN procurement agency or direct from the manufacturer, you will be requested to provide the:

- full IMD-PQS product code
- manufacturer's product code as shown on the product data sheet, and the
- product options required (if any), including spare parts.

Guide prices: Where prices are given, they are shown in US dollars and are generally given as indicative Ex-Works (EXW) prices. Where possible these guide-prices will be updated annually. However, before purchasing, you will need to obtain a firm quotation, either from a UN procurement agency or by direct negotiation with the manufacturer.

Shipping: Shipping costs vary considerably according to destination and are not included within the guide prices. Purchasers should always confirm freight charges with the supplier before placing an order. Estimated freight charges should be included in budgets and shipping lead times should be included in project plans. Manufacturers and suppliers offer delivery arrangements based on international standard definitions known as Incoterms. The UNICEF pricing data[7] website provides up-to-date information on Incoterms.

Where to order products

Orders can be placed directly with the manufacturer at the address provided on each product data sheet.

Most items can also be purchased through the WHO Contracting and Procurement Service[8], the PAHO Revolving Fund[9] or from UNICEF Supply Division in Copenhagen, Denmark via the UNICEF Supply Division Catalogue[10].

Vehicles, motorbikes and power products can be purchased through the Inter-agency Procurement Services Office (UNDP/IAPSO)[11]. UNICEF Supply Division also supplies vehicles.

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[4] UN *Procurement Practitioners Handbook* : https://www.ungm.org/Shared/KnowledgeCenter/Pages/PPH2

[5] UNICEF Supply Division *General Procurement Guideline:* https://www.unicef.org/supply/documents/general-procurement-guidelines-cold-chain-equipment

[6] UNICEF *Cold Chain Support Package*: https://www.unicef.org/supply/index_68367.html

[7] UNICEF *Pricing Data* : https://www.unicef.org/supply/pricing-data

[8] WHO Contracting and Procurement Service http://www.who.int/3by5/who_procurement/en/index.html

[9] WHO PAHO Revolving Fund: https://www.paho.org/hq/index.php?option=com_topics&view=article&id=396&Itemid=42192&lang=en

[10] UNICEF Supply Division Catalogue : https://supply.unicef.org/

[11] Inter-agency Procurement Services Office (UNDP/IAPSO): http://www.unwebbuy.org/

Other equipment suppliers include: International Dispensary Association (IDA)[12] in the Netherlands and Médicins Sans Frontières Logistique (MSFL)[13] in France.

Authorization is needed to gain full access to most of these websites.

[12] International Dispensary Association : http://www.idafoundation.org/
[13] Médecins sans Frontières Logistique http://www.msflogistique.org/

General introduction

This section provides general information on:

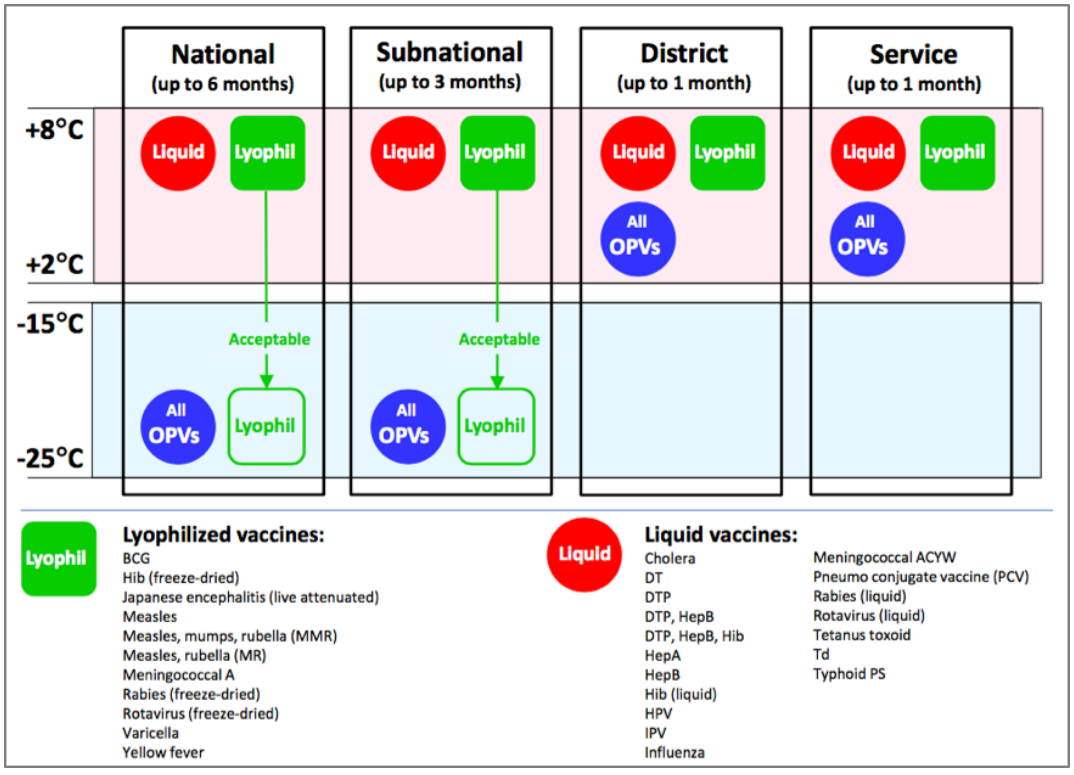
- vaccine storage temperatures
- vaccine distribution guidelines
- transporting vaccines without vaccine vial monitors (VVMs)
- appropriate refrigerants and foaming agents.

Vaccine storage temperatures

The following table summarizes the current WHO guidance on vaccine storage temperatures. Use these recommendations when calculating refrigeration needs for the procurement of IMD-PQS prequalified refrigerators.

WHO vaccine storage recommendations

Refer to: Immunization in Practice: a practical guide for health staff - 2015 update. Module 2: The vaccine cold chain.



Note:
Diluents should never be frozen.
If diluents are packaged with the vaccine, the product should be stored at +2 °C to +8 °C.
Bundled lyophilized-liquid combination vaccines should never be frozen and should be stored at +2 °C to +8 °C.

Vaccine distribution guidelines

For comprehensive information see: WHO/IVB/15.03: How to use passive containers and coolant-packs for vaccine transport and outreach operations (July 2015)

Use WHO IMD-PQS prequalified freeze-preventive vaccine carriers or cold boxes, which are designed to protect vaccines from freezing temperatures. With freeze-preventive vaccine carriers, frozen icepacks can be taken directly from the freezer and placed in the vaccine carrier, without conditioning. This eliminates subjectivity in judging when an icepack is properly conditioned and saves time previously required to condition icepacks. Freeze-preventive vaccine carriers are certified to work between +15°C to +43°C ambient temperatures and meet all the requirements of traditional vaccine carriers, including holdover. For more information, see Freeze-preventive passive containers – technical resources. (Refer to Freeze-preventive passive containers – technical resources on TechNet-21.org (https://www.technet-21.org/en/topics/freeze-prevention). The following coolant-packs can be used in passive containers if freeze-preventive vaccine carriers or cold boxes are unavailable.

Frozen water-packs

Frozen water packs can be used to transport all lyophilized vaccines, or any liquid vaccine that is NOT freeze sensitive, such as OPV. Frozen icepacks must NEVER be used to transport a freeze-sensitive vaccine or a lyophilized vaccine that is packaged (bundled) with its diluent.

Use passive containers with a published cold life at least as long as that required for the longest planned transport leg, measured from the time of packing the container in the supplying store to the time of unpacking in the receiving store. It is important to provide a good safety margin to cover unexpected events such as transport delays.

Conditioned icepacks

Conditioned icepacks can be used to transport any vaccine, including lyophilized vaccines with bundled diluent. However, the icepacks MUST be conditioned correctly. For more details refer to EVM-SOP-E7-04.1: Conditioning frozen icepacks, and EVM-SOP-E7-02.1: Packing vaccines and diluents for transport using cold boxes.

Use passive containers with a published cold life which is at least as long as the longest planned transport leg, measured from the time of packing the container in the supplying store to the time of unpacking in the receiving store. Some cold life is always lost during the conditioning process so it is important to allow a good safety margin when estimating the required cold life, to cover eventualities such as transport delays and variations in the extent to which conditioned icepacks have melted at the time of packing.

Cool water-packs

If the vaccine has a vaccine vial monitor (VVM), cool water-packs can be used for transport between the primary store and the health facility for any vaccine EXCEPT those with a VVM 2 or VVM 7. This includes the oral poliovirus vaccine (OPV), some brands of inactivated poliovirus vaccine (IPV) and varicella vaccine. When transporting vaccines for outreach purposes, cool water-packs can be used for ALL vaccines that carry a VVM.

For short journeys in sub-zero temperatures, cool water-packs will protect both liquid freeze-sensitive vaccines and vaccine diluents against the risk of freezing. They can safely be used for this purpose even when the vaccine does not have a VVM.

Use passive containers with a published cool life at least as long as the longest planned transport leg, measured from the time of packing the container in the supplying store to the time of unpacking in the receiving store. It is important to allow a good safety margin to cover unexpected events such as transport delays and variations in cool water-pack temperature.

Warm water-packs

For long journeys in sub-zero temperatures, warm water-packs are needed to prevent most liquid freeze-sensitive vaccines and vaccine diluents from freezing, provided the vaccines have VVMs. However, warm water-packs should NEVER be used to transport OPV, IPV with VVM 7, varicella or any other highly heat-sensitive vaccine. They should also NEVER be used for any vaccine without a VVM because there is no way to monitor the effect of exposure to temperatures above the labelled storage range of +2°C to +8°C.

Passive containers should have a rated warm life at least as long as that required for the longest planned transport leg, measured from the time of packing the container in the supplying store to the time of unpacking in the receiving store. Once again, it is important to ensure a good safety margin to cover eventualities such as transport delays and variations in warm water-pack temperature at the time of packing.

Transporting vaccines without VVMs

For vaccines that are NOT supplied with VVMs, the following principles for choosing coolant-packs apply:

- In warm and hot climates, cool water-packs should NOT be used for routine vaccine transport because cumulative heat exposure to temperatures above +8°C cannot be monitored adequately.
- In cold climates, use cool water-packs to protect freeze-sensitive vaccines or lyophilized vaccines bundled with diluent from exposure to sub-zero conditions. Warm water-packs should NEVER be used for this purpose because of the risk of prolonged exposure to temperatures above +8°C.
- RotaTeq® should only be transported using conditioned icepacks; its freeze-sensitivity status is not fully established and a suitable VVM is currently not available for this vaccine. In addition, its maximum allowable exposure time at temperatures above

+8°C is only 48 hours at +9°C to +25°C. It is highly likely that temperatures above +8°C will occur when cool water-packs are used in hot climates. Since there are usually two or three transport legs between the national store and the health facility, it is possible that this 48-hour exposure period could be exceeded, unless all the journey times are very short.

Outreach recommendations are the same as for vaccines with VVMs (see previous section "Vaccine distribution guidelines") because of the relatively short transport times involved.

Refrigerants and foaming agents

Refrigerants

Refrigerants made with chlorofluorocarbon (CFC) or hydrochlorofluorocarbon (HCFC) are potent ozone depleting substances with extremely high global warming potential (GWP) ratings. Due to their ozone depleting impact they were scheduled to be phased out under the regulatory regime of the Montreal Protocol. CFCs were phased out in 1996 in industrialized countries and 2010 in low and middle-income countries (LMICs). HCFCs are to be 100% phased-out in industrialized countries by 2020, and in LMICs by 2030.

Hydrofluorocarbon (HFC) has been used as a substitute for CFCs and HCFCs. HFCs do not impact the ozone layer but have far greater GWP than the basic standard carbon dioxide (CO_2) with GWP of 1.

Natural refrigerants, such as hydrocarbons, CO_2 and ammonia are increasingly used in domestic and commercial refrigeration. They are low GWP substances with a GWP of less than 3 for hydrocarbons, 1 for CO_2 and 0 for ammonia.

R12, a CFC, was commonly replaced with HFC (e.g. R134a). An increasing number of manufacturers are now using the hydrocarbon R600a (isobutene). Cold room and freezer room manufactures may use a variety of other refrigerants. Until 2010, developing country manufacturers were still allowed to use CFC refrigerants, but many of them had already made the change to more environmentally-benign gases.

IMD-PQS performance specifications permit the use of hydrocarbon (e.g. R600a) and are phasing out HFC refrigerants in refrigerators and freezers. Existing appliances with HFC refrigerants including R134a will be phased out in 2020. Hydrocarbons are still not permitted for cold rooms and freezer rooms.

The table below gives the Ozone Depletion Potential (ODP) and Global Warming Potential (GWP) figures for the gases described above and in the next section. Equipment which uses cyclopentane foamed insulation and the refrigerant R600 is currently the best environmental choice. However, it is flammable and must be handled with care.

ODP and GWP figures for some key gases

Refer to: Environmental management of refrigeration equipment: Technical supplement to WHO Technical Report Series, No. 961, 2011: May 2015 Annex 9: Model guidance for the

storage and transport of time- and temperature-sensitive pharmaceutical products, Table 1, page 14.

Gas	Use	Ozone Depletion Potential (ODP)	Global Warming potential (GWP)[a]
R11	Refrigerant & foaming agent	1.0	4,750
R12	Refrigerant & foaming agent	1.0	10,900
R134a	Refrigerant	0.0	1,430
R600a	Refrigerant	0.0	3
Cyclopentane	Foaming agent	0.0	11
R404a	Refrigerant	0.0	3922
R452	Refrigerant	0.0	2141
R141b	Foaming agent (HCFC)	0.12	725

a. The basis for GWP is $CO_2 = 1.0$

As per the Montreal Protocol and Kigali Amendment, refrigerants which have GWP potential values of >2500 will be phased out. One of the widely used refrigerants in cooling units for cold rooms is R404A, a HFC blend with a GWP value of 3922. Phasing out of this gas will start in 2020 in EU and other countries will follow as per their national phase-out plans. To comply with this transition plan, this gas will be replaced with alternative gases with lower GWP values (<2500 GWP) such as R134A or R452A for cold and freezer room cooling units.

Foaming agents

R11 is no longer used as a foaming agent by any of the industrialized country manufacturers listed in the IMD-PQS catalogue. It is now replaced by cyclopentane in European countries and by R141b in the USA (the use of R141b was banned in Europe as of 1st January 2004 and it will eventually be phased out in 2020 in LMICs and worldwide in 2030). R141b has a much higher Global Warming Potential (GWP) than Cyclopentane, which is therefore less damaging to the environment when it is released into the atmosphere. Other gases are under investigation as replacements for R141b, including HPC-245fa, HFC-365mfc, HFC-234a, isopentane and n-pentane and various blends.

Managing existing equipment containing CFCs

CFCs have now been phased out worldwide. For this reason, programme managers should ensure that remaining CFC equipment is responsibly managed, specifically by:

1. Checking that tools for the repair of CFC equipment is locally available and that cold chain technicians are trained.
2. Keeping an inventory of CFC equipment and where it is installed.
3. Ensuring that CFC equipment is decommissioned in a responsible manner at the end of its service life and that the refrigerant is recovered and destroyed.

E001

Cold Rooms, Freezer Rooms and Related Equipment

All the equipment included in the E001 category is manufactured to meet the specific needs of national immunization programmes. End-users must specify their requirements for the procurement phase. They must also select or build the space where the equipment will be housed and must provide the necessary electrical power supply, wiring and other services to which the equipment will be connected by the installer. Once received on-site, the equipment must be assembled and commissioned by a competent installer.

Details regarding the products included in each sub-category of E001 as well as guidelines, performance specifications and verification protocols for this category, can be accessed through the drop-down sections below.

E001.1: Cold rooms and freezer rooms

A building that houses a cold room or freezer room needs to be site-ready and accessible to delivery vehicles. Details around adequate ventilation, electricity supply, among other key considerations, can be found in the pre-procurement checklist provided in the UNICEF Cold Chain Support Package.

The principle steps involved in buying and commissioning a cold room are:

1. **Establish net vaccine capacity:** It is essential to calculate accurately the net vaccine capacity of the cold room(s) and freezer room(s), taking account of future vaccine introductions. WHO tools are available to help establish the required capacity of the store. Orders should not be made on the basis of gross capacity — for example a 40 m^3 room — without verifying usable net capacity with the supplier.
2. **Decide location:** Select the spaces(s) in which the equipment is to be installed. Building selection and preparation guidance is provided in the WHO Guideline for establishing or improving primary and intermediate vaccine stores.
3. **Shortlist suppliers:** UNICEF Supply Division has long-term purchase agreements with prequalified cold room companies. If the cold room is not being purchased through UNICEF, a tender long list should be prepared. This should preferably include the companies of prequalified products listed in the UNICEF Supply Catalogue.
4. **Prepare and invite tenders:** Prepare tender documentation using the IMD-PQS performance specification E001/CR/FR-01.4 and verification protocol E001/CR/FR01-VP1.4. If required, tenders should be invited for a standby generator and voltage stabilizer at the same time. Specific guidance on specifying and buying generators is

provided in section E001.2. Guidance on heavy duty voltage stabilizers is provided in E001.3.

5. **Prepare the site:** The space for the cold room should be prepared in accordance with the supplier's requirements and the WHO Guideline for establishing or improving primary and intermediate vaccine stores.
6. **Supervise:** Care should be taken to supervise the installation and oversee commissioning and user training.
7. **Monitor:** Check the performance of the equipment in use and the effectiveness of the maintenance agreement should be monitored.
8. **Maintain:** Ensure that the temperature monitoring equipment is recalibrated annually. For additional guidance on maintenance refer to:
    - WHO-UNICEFs Effective Vaccine Store Management Initiative.
    - WHO Users' handbook for vaccine cold rooms and freezer rooms
    - WHO Self-assessment tool for looking after a cold room or freezer room

Prepare tender documentation using IMD-PQS performance specification E001/CR/FR-01.4 and verification protocol E001/CR/FR01-VP1.4. If required, tenders should be invited for a standby generator and voltage stabilizer at the same time. Specific guidance on specifying and buying generators is provided in the drop-down section below (E001.2), as is guidance on heavy-duty voltage stabilizers (E001.3).

E001.1: Stand-by generators

While WHO and UNICEF recommend that all primary vaccine stores should be fitted with a standby generator with automatic start up, regardless of the reliability of the mains power supply (refer to WHO also recommends that product users also consider installing standby generators in the following situations:

- at large intermediate vaccine stores, equipped with cold rooms
- at other sub-national stores where the mains power supply is sufficiently unreliable to compromise the performance of ice-lined refrigerators, even when they are fitted with voltage stabilizers..

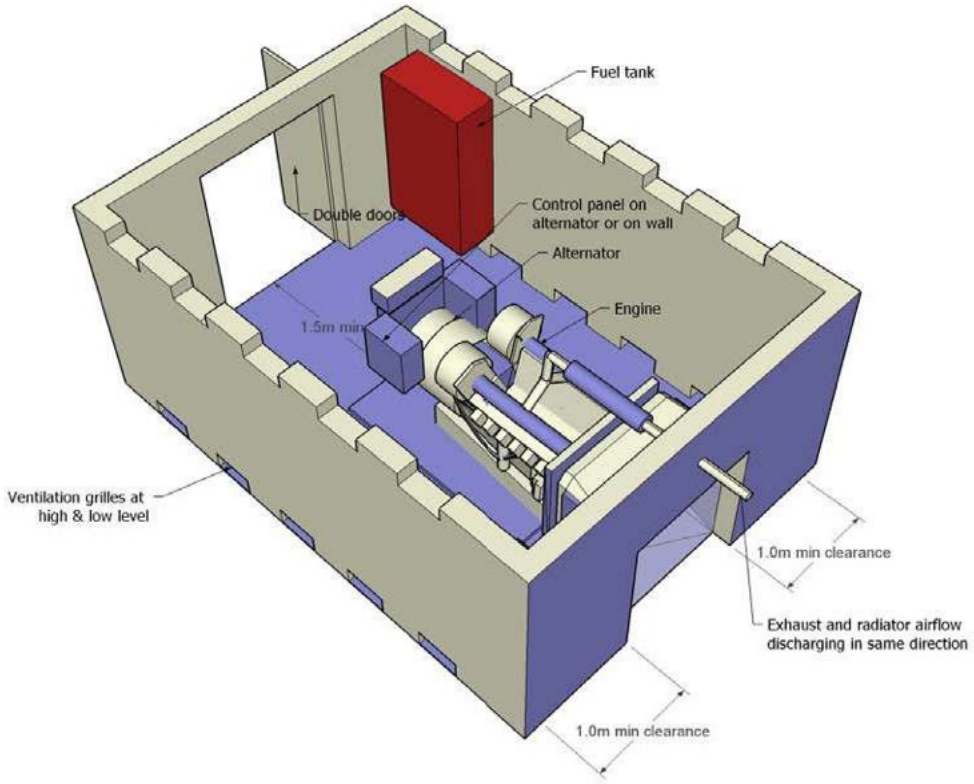
In all other situations, if power cuts are a chronic problem, review alternative solutions such as ice-lined appliances fitted with voltage stabilizers and photovoltaic equipment. The decision to purchase a standby generator should not be taken lightly as it involves a relatively high upfront investment as well as significant maintenance and training costs.

The guidance notes in this section are for background information only. They are intended to be used to brief a professional engineer and/or to communicate with system suppliers and installers. Wherever possible, the generator should be supplied by the cold room/freezer room manufacturer as part of a comprehensive package (see E001.1). In all other cases, seek the advice of a qualified electrical engineer. In situations where an engineer is not available, refer to a reliable technical source such as *Engineering in Emergencies — A Practical Guide for Relief Workers* (ISBN-13: 978-1853395215 and ISBN-10: 1853395218).

E001.2.1: Specifying the generator

The generator house: The size of a standby generator is determined by the rated load of the equipment to which it is connected. The figure below shows the layout of a typical generator house.

A typical generator house



The generator house should have a concrete floor slab. Install ventilation openings near the bottom of the walls to provide cooling air, with additional openings in the wall nearest the air filter to supply cool air for combustion. In addition, provide ventilation openings along the top of the walls to release accumulated hot air. All ventilation openings should be fitted with mesh grilles to keep out pests. Arrange the exhaust pipe above the cooling air outlet to discharge in the same direction. Keep the exhaust system as short as possible and with the minimum number of bends.

Fuel tanks should ideally be 'bunded'. A bunded tank consists of a tank mounted inside an outer housing large enough to accommodate the total contents of the tank, should it develop a leak. This ensures that fuel spills are contained and cannot get into the drainage system or the ground water.

E001.2.2: Inviting tenders for a generator

Prepare a tender short list. Every company on the short list must have a satisfactory arrangement with a competent installation contractor in the country where the equipment is to be installed and should be able to provide a long-term maintenance service or training for local technicians.

Tender invitations must include the following information:

1. **Client:** Name of the client.

2. **Location:** Site location.

3. **Delivery/installation date:** Specify the required date for delivery/installation should be specified.

4. **Payment arrangements:** Specify currency, payment stages and other relevant information should be specified.

5. **Information to be supplied by tenderers:**

- price (Incoterms)
- full technical details of the proposed equipment including fuel consumption on full load: fuel consumption will be a significant factor in choosing a generator set if anticipated run-times are long and less significant if the generator will be used infrequently
- details of the manufacturer's in-country installation and service network
- manufacturer's infrastructure requirements (e.g. cable connections)
- manufacturer's detailed recommendations for the generator house layout, construction and ventilation.

6. **The supply required:** Either: single-phase, 2-wire (phase and neutral), and system voltage, for example 110V, 220V or 240V. Or: three-phase, 4-wire (three-phase and neutral) and system voltage, e.g. 380/220V or 415/240V.

7. **Supply frequency:** 50 Hz or 60 Hz.

8. **Connected equipment:** A schedule listing every item of connected equipment, including cold rooms, freezer rooms, refrigerators and freezers. In addition, list all other equipment for which standby power is required, such as computers, printers and electric lighting. For each item on the list, give the power requirement in kW. In the case of motors (e.g. cold room compressors) give the method of starting, e.g. direct-on-line (DOL). If you cannot find this information, give full details of each item of equipment, including manufacturer and model number, and request the tenderer to obtain the missing data.

9. **Site conditions:** Ambient temperature, humidity and altitude affect generator performance. Give the annual maximum and minimum temperature at the site in degrees centigrade, the maximum and minimum relative humidity in percent and the altitude of the site above sea level in meters.

10. **Mounting method:** Skid mounted. (Mobile units are available, but are not appropriate for a fixed installation.)

11. **Weather protection:** State whether the generator should be supplied as an open or weather-protected set. Open sets will be housed in a generator house. Weather-protected sets may be mounted outdoors.

12. **Soundproofing:** Sound-proofed housings are usually expensive. A locally-made masonry enclosure is often cheaper and, in the case of units installed outside, they also provide protection against the weather (see above figure).

13. **Fuel:** Diesel is universal for all but the smallest portable generators. Natural gas might be required in areas with stringent air pollution regulations.

14. **Engine start:** If automatic mains-failure start and/or shut down are needed, this must be clearly stated. Otherwise specify hand and/or electric start, complete with battery (even with electric start, it is useful to have a hand-start facility when the battery is flat or missing).

15. **Engine monitoring facilities:** Over-heating, low oil pressure, battery charging ammeter or indicator. Automatic engine shut-down in the event of over-heating, low oil pressure or broken fan belt. Engine monitoring meters and indicators may be mounted on the control panel.

16. **Control panel:** Integrated (set-mounted) or free-standing control panel. Integrated control panels must be mounted on anti-vibration mountings. Instrumentation should include:

- one ammeter per phase
- one voltmeter and selector switch (to monitor each phase-phase and phase-neutral voltage)
- a frequency meter
- an hours-run meter.

17. **Fuel tank capacity:** Sufficient to allow a minimum of 72 hours continuous running and should be bundled.

18. **Exhaust pipework:** Run length and bends needed to ensure discharge in a safe location.

19. **Spare parts:** Either: the supplier must have an effective service network in-country. Or: an adequate supply of spare parts and consumables, sufficient for a minimum of two years of normal operation, as recommended by the set manufacturer, should be ordered.

20. **Installation:** It should be specified whether the equipment is to be installed and commissioned by the manufacturer's in-country agent (strongly recommended), or by another party.

21. **Training:** The manufacturer, or installer, must train vaccine store staff and maintenance technicians in the use of the equipment and must provide comprehensive operating and service manuals in the appropriate language.

22. **Maintenance agreement:** Wherever possible, the equipment should be maintained by the set manufacturer's in-country service agent. The tender documents should clearly specify the length of the maintenance agreement, the minimum requirements for routine maintenance and the maximum acceptable response time in the event of an emergency; e.g. equipment failure during a power outage.

E001.2.3: Choosing a supplier

The lowest bidder is not always the cheapest when lifetime operating costs are considered. Significant factors which reduce operating costs include:

- **Local availability of technical expertise and spare parts:** Tenderers without a local service network should generally be excluded from consideration.
- **Fuel consumption:** A model with low fuel consumption may be cheaper to operate over its whole working life than a model with higher fuel consumption but a lower purchase price.
- **Revolutions per minute (RPM):** Slow running generators with ratings below 1800 RPM have longer working lives. Models running at 3000 to 3600 RPM generally require more maintenance, have greater fuel consumption and a higher rate of mechanical wear. A cheap high RPM model may be a poorer choice than a more expensive low RPM model.

E001.2.4: Suppliers of standby generators

A list of standby generator suppliers can be found in the UNICEF Supply Catalogue. **This list does not constitute an endorsement or imply any recommendation by WHO of any of the products contained therein.**

E001.3: Voltage stabilizers for larger vaccine stores

Fluctuations in the electricity supply can cause the premature failure of motors, compressors and other electrical and electronic components. Fortunately, fluctuations can be controlled effectively and damage can be avoided by installing a voltage stabilizer on the power line which supplies the equipment. In addition, a surge protection device is recommended to prevent damage in the event of lightning induced spikes on the supply line. Lightning protection should also be included in areas where lightning is common.

Wherever voltage fluctuations exceed ±7%of the rated voltage at the supply point, WHO recommends that refrigeration equipment should be connected to the mains supply via a voltage stabilizer. This applies to cold rooms, freezer rooms, vaccine refrigerators and vaccine and ice-pack freezers at any level in the cold chain.

Associated electronic temperature monitoring equipment and computers should also be connected to a voltage-regulated circuit; this type of equipment is particularly sensitive to voltage fluctuations and to lightning-induced power surges.

There are various types of surge protectors. Some can survive only a limited number of surge events and with this type of equipment it is essential to stock an adequate stock of replacement components and to know how to replace them in the event of a failure.

It is generally good practice to ensure that refrigeration equipment and temperature monitoring/computers are supplied by separate dedicated supplies with separate voltage stabilizers. This ensures that the load variation of the refrigeration equipment does not adversely affect the electronic equipment, and enables the most appropriate type of voltage stabilizer to be chosen for each of the two load types.

Finally, the cost and design life of available equipment vary widely, with a design life of up to 20 years possible for highly critical applications. Large vaccine stores can hold hundreds of thousands of dollars' worth of vaccine; the cost of losing this inventory must be considered when choosing a voltage stabilizer and/or surge protector. It may be economically justifiable to install a more expensive system if it is more reliable and longer lasting.

E001.3.1: Types of stabilizer

The chosen voltage stabilizer must be able to cope with the full range of voltage fluctuations found at the vaccine store site.

Servo-mechanical voltage stabilizers: These provide a reliable and economical method of stabilizing mains voltage range variations of up to 50%. They use a proven technology that combines electro-mechanical components with electronic sensing and control to give a continuous, smooth and very stable output voltage. Servo-mechanical voltage stabilizers have some moving parts which, depending on the application, will require a small amount of low-level maintenance after a long period of time. This technology is the most suitable one for primary vaccine stores and for larger sub-national stores. A disadvantage of the technology is its slow response time to voltage changes, but this is not considered to be a major drawback for cold store equipment. Another disadvantage is that it may be less reliable than tap-changing, particularly if the equipment is not properly maintained.

Electronic voltage stabilizers: A solid-state continuous-acting electronic voltage stabilizer provides a better alternative for applications requiring extremely fast correction speed, or applications located in hostile climatic conditions. A problem with cheaper models of this type of equipment is that they often incorporate a cooling fan. These may clog up in dusty conditions. Alternatives which rely entirely on convection cooling are available, but they are typically more expensive than servo-mechanical devices.

Tap-changing voltage stabilizers and conditioners: A number of different tap-changing regulators are available; some are more reliable than others. A common type, used by many manufacturers, incorporates electronic tap-changing techniques. This type is prone to failure due to switching stresses. The more reliable devices use relays. For less sensitive equipment, where the output voltage only needs to be maintained within broad limits, a tap-changing solution is acceptable. All tap-changing regulators produce voltage jumps at the moment of tap-changing. Fortunately, refrigeration and air-conditioning units can accept these jumps. Tap-changing regulators may be unsuitable for loads such as sensitive monitoring equipment because they can cause graphic distortion or data loss. If ignored, this will eventually shorten

the life of the connected equipment or cause expensive damage. Tap-changing regulators are an appropriate choice for stabilizing the supply to individual refrigerators or freezers in small sub-national stores and at service point level. As an example, one widely used unit can control output voltages between -8% to +9% when the input voltage varies between -34% to +26%. These units should always include a time delay cut out to protect against high/low voltage damage to refrigeration compressors. High capacity tap-changing units are available for cold rooms but are typically more expensive than equivalent servo-mechanical units.

E001.3.2: When to install a voltage stabilizer

Voltage stabilizers are strongly recommended whenever new vaccine refrigeration equipment is being installed, particularly if electricity supply to the site is problematic. If existing vaccine cold room motors, compressors, relays and other related electric equipment suffer frequent failure, this is a good indication that the stability of the mains supply is poor.

If the area surrounding the vaccine store is under development, there is a risk that the development of the electricity supply will not match growing demand. This can lead to an unstable, unreliable or fluctuating electricity supply. In such situations it is prudent to install voltage regulation equipment as a precautionary measure.

E001.3.3: Inviting tenders for a voltage stabilizer

Prepare a tender short list and provide bidders with the following information:

1. **Rated mains supply:** Either: Single phase, two-wire (phase and neutral) and system voltage, for example 110V, 220V or 240V. Or: Three-phase, four-wire (three-phase and neutral) and system voltage, for example: 380/220V or 415/240V.
2. **Supply frequency:** 50 Hz or 60 Hz.
3. **Measured voltage and frequency fluctuations:** A qualified electrical engineer should be asked to obtain these measurements, which should be taken at frequent intervals over a period of at least one week. Allow for all potential loads and allow also for seasonal load variations.
4. **Electrical storm activity:** Indicate the frequency and intensity of electrical storms.
5. **Connected equipment:** Provide a schedule listing every item of connected equipment, including cold rooms, freezer rooms, refrigerators and freezers. In addition, list all other equipment for which voltage regulation and surge protection is required, such as computers, printers and electric lighting. For each item on the list, give the power requirement in kW. In the case of motors (e.g. cold room compressors), give the method of starting, e.g. direct-on-line (DOL). If you cannot find this information, give full details of each item of equipment, including manufacturer and model number and request the tenderer to obtain the missing data.
6. **Site conditions:** Peak ambient temperature and humidity may affect equipment performance. Give the annual maximum temperature at the site in degrees centigrade together with the maximum relative humidity in percent.
7. **Generator:** If there is a standby generator, full details of the unit, including make, model, kVA rating, start method (manual or automatic mains failure) and stop method (manual or mains-resumption), should be provided.

E001.3.4: Suppliers of voltage stabilizers

A list of prequalified voltage stabilizers can be found in Section E007 of the Catalogue. A list of voltage stabilizer suppliers can also be found in the UNICEF Supply Catalogue. These lists do not constitute an endorsement or imply any recommendation by the World Health Organization of any of the products contained therein.

E001.4: Solar power systems for cold and freezer rooms

Solar power systems can be considered for walk-in cold rooms and freezer rooms (CR-FR) where no electrical power is supplied, in situations where sustaining a reliable electrical supply is not possible, where power costs are not affordable, or where fuel and technical support is difficult and costly to obtain.

Energy requirements for CR-FR are significantly higher than solar-powered vaccine refrigerators/freezers; while solar refrigerators operate on low voltage direct current (45 Vdc or lower) a CR-FR will require more dangerous — even lethal — voltages including high-voltage (Vdc) solar generation as well as high-voltage alternating current (usually greater than 120 Vac) supplied as either single or three phase supply. A solar-powered CR-FR will require both an inverter (i.e. converts Vdc to Vac) and a backup generator (Vac), which are components not included in PQS solar refrigerator/freezer kits.

Both the solar electricity system and the back-up generator must be capable of powering 100% of the CR-FR electrical requirements, including battery chargers powered by the back-up generator. For more details see equipment performance specification E001/PVAC: Solar power system for cold and freezer rooms.

The configuration of a PQS compliant solar power system for CR-FR is more complicated compared to a PQS solar refrigerator/freezer kit. It is significantly larger in size and requires a higher initial investment. Furthermore, members of the immunization community have less experience with these larger hybrid solar-backup generator systems compared to solar powered vaccine refrigeration. A limited collective experience with larger solar power systems coupled with a 100% back-up power generation requirement necessitates the careful consideration of the energy efficiency of the selected CR-FR, meticulous design, safe installation and long-term commitment to sustainability.

Key requirements for the use of solar powered CR-FR include:

- energy-efficient, site-specific design, to ensure adequate performance,
- a qualified, professional electrician to ensure safe installation,
- solar and generator servicing availability to sustain operation, and
- planning and budgeting for repairs and eventual battery replacement.

Investing in an energy efficient CR-FR can reduce both the initial cost and long-term operating costs of the hybrid solar power system, in particular, by eliminating costly regular battery replacements. Like the site-specific design of the CR-FR, a site-specific power system

design is needed to consider local ambient temperatures, solar radiation and battery autonomy, as well as the site's peak electrical requirements. IMD-PQS requires CR-FR designers to comply with international norms and standards for sizing power system equipment (e.g. Institute of Electrical and Electronics Engineers IEEE 1562: Guide for array and battery sizing in stand-alone photovoltaic (PV) systems).

Solar power and back-up generators, like any other electrical supply and distribution systems, will require the timely availability of qualified service providers to sustain, maintain and repair the system. It is essential to establish an ongoing service programme with qualified service providers to sustain system operation, and minimize the risks associated with the potentially lethal voltages and components of solar powered CR-FR that may not be known to local service workers.

Planning and budgeting for ongoing services, unexpected repairs and eventual component replacements will ensure that the CR-FR has power when needed. Like early solar-plus-battery vaccine refrigerator/freezers, the much larger and more costly CR-FR battery will eventually fail and need to be replaced. Only those who prepare and budget for battery replacement and other sustainability needs will be able to ensure that power continues to be available as needed.

E001.5 Future developments: Battery-free SDD CR-FR

Solar cold and freezer room (CR-FR) designers indicated potential user preference for a battery-free solar direct drive (SDD) room, rather than for CR-FRs with battery-dependent solar power systems. WHO IMD-PQS had drafted specifications and verification protocols, enabling the future prequalification of SDD CR-FR's. SDD CR-FRs are currently being evaluated.

Solar-powered CR-FRs can now reach off-grid areas. If they may be cooled with battery-free SDD systems, this will avoid the cost and vulnerabilities associated with battery storage. Even in the case of mains-electricity grid availability, SDD may be a more reliable power supply. Given the lower-costs of solar module arrays, and the removal of battery-related costs, the SDD CR-FR is likely to have a lower total cost of ownership compared to diesel generators, and even compared to some mains grid power supply, whilst simultaneously imparting a lower environmental impact versus fossil fuel-generated electricity.

In addition to these SDD CR-FRs, E001 is also charting new territory with the:

- requirement for thermal energy storage to prolong autonomy time,
- optional allowance of energy harvest to power electrical needs (i.e. those needs that are not essential to cooling),
- allowance of standalone, exterior rooms,
- allowance of small volume rooms (5m3 up to 40m3),
- requirement for the CR-FR to pass laboratory testing, and
- the requirement for the room and solar power to undergo a field evaluation.

CATEGORY DOCUMENTATION, GUIDANCE FOR MANUFACTURERS/SUPPLIERS & SUPPORTING INFORMATION FOR USERS

Performance specifications

PQS performance specification E001/CR-FR01.4: Cold rooms and freezer rooms

PQS performance specification E001/PVAC01.0: Solar power system for cold and freezer rooms

Verification protocols

PQS type-examination protocol E001/SDD CR-FR VP.1: Solar direct drive cold rooms and freezer rooms

PQS quality assurance protocol E001/SDD CR-FR VP.2: Solar direct drive cold and freezer rooms

PQS type-examination protocol E001/LWICR01.1-VP2.2: Large Walk-in Cold Rooms

PQS quality assurance protocol E001/LWICR01.1-VP1.2: Large Walk-in Cold Rooms - guidance section

PQS quality assurance protocol E001/CR-FR01-VP2.4: Cold rooms, freezer rooms

PQS type-examination protocol E001/CR-FR01-VP1.4: Cold rooms, freezer rooms

PQS quality assurance protocol E001/PVAC-VP2: Solar power system for cold and freezer rooms

PQS type-examination protocol E001/PVAC-VP1: Solar power system for cold and freezer rooms

Guidance for manufacturers/suppliers

Generic guide for the field evaluation of new technologies for WHO PQS prequalification GENERIC/GUIDE 1.1

IMD-PQS Guidelines for Prequalification Holders

Supporting information for users

Cold room temperature mapping studies

Guideline for establishing or improving primary and intermediate vaccine stores

How to calculate vaccine volumes and cold chain capacity requirements

How to develop and repair a maintenance system for cold chain equipment

How to look after a cold room or freezer room: self-assessment tool

Self-assessment tool for looking after a cold room or freezer room

User's handbook for vaccine cold rooms and freezer rooms

WHO-UNICEF Effective Vaccine Store Management Initiative: Modules 1–4

WHO Immunisation Devices - Performance, Quality & Safety

E001: Cold rooms, freezer rooms, and related equipment



Product name:	**Cold rooms and Freezer rooms**
IMD-PQS Code:	E001-001
Status:	Prequalified
Date of acceptance:	17 Aug 2010
Appliance type:	E001
Product description:	Cold rooms and Freezer rooms
Manufacturer:	Porkka Finland Oy
Manufacturers Reference:	Cold rooms and Freezer rooms
Country of Manufacture:	Finland
Address:	Ravitie 3, FI-15860 Hollola FI-33470 Ylöjärvi Finland Finland
Telephone:	+358 10 2019200
Email:	petri.hiilloste@porkka.com
Website address:	www.porkka.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Temperature Zones	Multizone	**Pre-qualified regions**	All regions
Auto defrost	Yes		

ENCLOSURE CONSTRUCTION OPTIONS

Cold room sizes available (largest, m3)	10.00	**Freezer room sizes available (L, m3)**	10.00
Door size options available	Yes	**Door frame heating available**	Yes
Panel insulation material	Polyurethane high density	**Panel jointing system**	Cam-lock jointing
Panel thickness options	100mm (standard); 150mm (option)	**Shelving system**	Adjustable shelves only
Shelving material	Plastic only	**Shared wall construction**	Yes
Strip curtain available	Yes	**Pressure release valve (FR only)**	Yes
Floor panel heater mat (FR only)	Yes	**Wall/Celling Panel Finish**	Polyester coated steel
Floor panel finish	Glassfiber re-enforced anti-slip plywood	**Type of Foaming Agent**	N-Penthane

PRODUCT SPECIFICATIONS - EQUIPMENT OPTIONS

Refrigerant	R455A	**Refrigeration unit mounting options**	Wall
Refrigeration unit types	Monoblock;Split type	**Lighting system**	Tungsten
Duty sharing	Timed changeover;Manual changeover	**Cold climate protection CR**	Yes
Evaporator plume guard CR	Yes	**ISO 9001/13485 certified**	Other
ISO 9001/13485 certified (Other)	ISO 9001;ISO 13485;IEC 60335-1	**Electric Safety Compliant To IEC 60335-1**	Yes
High/low voltage protection	Yes	**Voltage,Frequency,Phasing options?**	Yes
Voltage Regulator Available?	Yes	**Surge Protection Available?**	Yes
Cut-out system	Yes		

PRODUCT SPECIFICATIONS - TEMPERATURE MONITORING & ALARM OPTIONS

Temperature recording system	Dial thermometer;Event logger	**Alarm system**	Yes

ISO 14001 certified	Yes
Comments	Can provide cold rooms larger than 40m3 Freezer room sizes: >10 m3

WARRANTY, INSTALLATION AND MAINTAINENCE

Warranty period (months)	12.00	**Maintenance service**	Advisory service;Maintenance network
Installation service	Advisory service;Installer network		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: CR-FR01.2 Applicable PQS VP(s): CR-FR01-VP.2

PRODUCT SITES

Organization name	Porkka Finland Oy
Address	Ravitie 3, FI-15860 Hollola FI-33470 Ylöjärvi Finland Finland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E001: Cold rooms, freezer rooms, and related equipment



Product name:	**refrigerator or freezer walk-in rooms 10 to 40m3**
IMD-PQS Code:	E001-002
Status:	Prequalified
Date of acceptance:	20 Apr 2011
Appliance type:	E001
Product description:	Cold rooms and freezer rooms
Manufacturer:	SN Zhendre
Manufacturers Reference:	refrigerator or freezer walk-in rooms 10 to 40m3
Country of Manufacture:	France
Address:	122 Avenue des Pyrénées 33140 Villenave d'Ornon France France
Telephone:	+33(0)6 79 02 13 95
Email:	clement.feuillon@eiffage.com
Website address:	www.zhendre.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Temperature Zones	Multizone	**Holdover time CR**	Not tested
Holdover time FR	Not tested	**Pre-qualified regions**	All regions
Auto defrost	Yes		

ENCLOSURE CONSTRUCTION OPTIONS

Cold room sizes available (largest, m3)	10.00	**Freezer room sizes available (L, m3)**	10.00
Door size options available	No	**Door frame heating available**	Yes
Panel insulation material	Polyurethane high density	**Panel jointing system**	cam-lock, 2 polyethylene joints onto the 4 edges of each panel
Panel thickness options	100 mm - 150 mm	**Shelving system**	Adjustable shelves only
Shelving material	Plastic & Steel	**Shared wall construction**	---
Strip curtain available	Yes	**Pressure release valve (FR only)**	Yes
Floor panel heater mat (FR only)	No	**Wall/Celling Panel Finish**	Galvanized steel 5/10 Iceberg white powedered-coated
Floor panel finish	Phenolic resin	**Type of Foaming Agent**	Polyurethane high density

PRODUCT SPECIFICATIONS - EQUIPMENT OPTIONS

Refrigerant	R455A	**Refrigeration unit mounting options**	Wall;Wall split
Refrigeration unit types	Monoblock;Split type	**Lighting system**	Tungsten
Duty sharing	Manual changeover	**Cold climate protection CR**	Yes
Evaporator plume guard CR	Yes	**ISO 9001/13485 certified**	Other
ISO 9001/13485 certified (Other)	ISO 9001;IEC 60335-1	**Electric Safety Compliant To IEC 60335-1**	Yes
High/low voltage protection	Yes	**Voltage,Frequency,Phasing options?**	Yes
Voltage Regulator Available?	Yes	**Surge Protection Available?**	Yes
Cut-out system	Yes		

PRODUCT SPECIFICATIONS - TEMPERATURE MONITORING & ALARM OPTIONS

Temperature recording system	Dial thermometer	**Alarm system**	Yes

ISO 14001 certified	Yes
Comments	Freezer room sizes: >10 m3 Shelving material: anodized aluminium frame / polyethylene shelves

WARRANTY, INSTALLATION AND MAINTAINENCE

Warranty period (months)	12.00	**Maintenance service**	Advisory service;Maintenance network
Installation service	Advisory service;Installer network		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: Applicable PQS VP(s):

PRODUCT SITES

Organization name	SN Zhendre
Address	122 Avenue des Pyrénées 33140 Villenave d'Ornon France France

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E001: Cold rooms, freezer rooms, and related equipment



Product name:	**HAIER Cold rooms and Freezer rooms**
IMD-PQS Code:	E001-003
Status:	Prequalified
Date of acceptance:	25 Oct 2011
Appliance type:	E001
Product description:	Cold rooms and freezer rooms
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HAIER Cold rooms and Freezer rooms
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Temperature Zones	Multizone	**Pre-qualified regions**	All regions
Auto defrost	Yes		

ENCLOSURE CONSTRUCTION OPTIONS

Cold room sizes available (largest, m3)	10.00	**Freezer room sizes available (L, m3)**	10.00
Door size options available	Yes	**Door frame heating available**	Yes
Panel insulation material	Polyurethane	**Panel jointing system**	Tongue and groove, cam lock
Panel thickness options	100 - 150 mm	**Shelving system**	Adjustable shelves only
Shelving material	Steel only	**Shared wall construction**	Yes
Strip curtain available	Yes	**Pressure release valve (FR only)**	Yes
Floor panel heater mat (FR only)	Yes	**Wall/Celling Panel Finish**	Zinc polyester powdered coated
Floor panel finish	Rubber corrugated	**Type of Foaming Agent**	Polyurethane

PRODUCT SPECIFICATIONS - EQUIPMENT OPTIONS

Refrigerant	R448a or R455a	**Refrigeration unit mounting options**	Wall;Ceiling
Refrigeration unit types	Monoblock	**Lighting system**	Tungsten
Duty sharing	Manual changeover	**Cold climate protection CR**	No
Evaporator plume guard CR	Yes	**ISO 9001/13485 certified**	Other
ISO 9001/13485 certified (Other)	ISO 9001;ISO 13485;IEC 60335-1	**Electric Safety Compliant To IEC 60335-1**	Yes
High/low voltage protection	No	**Voltage,Frequency,Phasing options?**	Yes
Voltage Regulator Available?	No	**Surge Protection Available?**	No
Cut-out system	Yes		

PRODUCT SPECIFICATIONS - TEMPERATURE MONITORING & ALARM OPTIONS

Temperature recording system	Event logger	**Alarm system**	Yes

ISO 14001 certified	Yes
Comments	Upon request: AVR; Surge protection; split units - Cold climate protection not yet available. Event logger: Haier Intelligent Recorder Power options: DC and AC compressor optional Freezer room sizes: >10 m3

WARRANTY, INSTALLATION AND MAINTAINENCE

Maintenance service	Advisory service	**Installation service**	Advisory service

QUALITY STANDARD

Specification Reference	Applicable PQS specification: Applicable PQS VP(s):

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E001: Cold rooms, freezer rooms, and related equipment



Product name:	**Cold Rooms & Freezer Rooms**
IMD-PQS Code:	E001-004
Status:	Prequalified
Date of acceptance:	26 May 2015
Appliance type:	E001
Product description:	Cold Rooms & Freezer Rooms
Manufacturer:	FOSTER Refrigerator
Manufacturers Reference:	Cold Rooms & Freezer Rooms
Country of Manufacture:	United Kingdom
Address:	Plant 3 Rollesby Road PE344LS Kings Lynn Norfolk United Kingdom of Great Britain and Northern Ireland
Telephone:	+44 1553 780501
Email:	virginia.kisieliute@foster-gamko.com
Website address:	www.fosterrefrigerator.co.uk
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Temperature Zones	Multizone	**Temperature Zones (Other)**	Testing
Holdover time CR	Not tested	**Holdover time FR**	Not tested
Pre-qualified regions	All regions	**Auto defrost**	Yes

ENCLOSURE CONSTRUCTION OPTIONS

Cold room sizes available (largest, m3)	40.00	**Cold room sizes available (smallest, m3)**	10.00
Freezer room sizes available (S,m3)	40.00	**Freezer room sizes available (L, m3)**	10.00
Door size options available	Yes	**Door frame heating available**	Yes
Panel insulation material	High density CFC free polyurethane	**Panel jointing system**	Cam locks at regular interval with factory cut corners
Panel thickness options	75 to 100 mm	**Shelving system**	Fixed shelves only
Shelving material	Steel only	**Shared wall construction**	Yes
Strip curtain available	Yes	**Pressure release valve (FR only)**	Yes
Floor panel heater mat (FR only)	Yes	**Wall/Celling Panel Finish**	White foodsafe laminate on galvanised steel substrate
Floor panel finish	Rigidised galvanised steel	**Type of Foaming Agent**	High density polyurethane

PRODUCT SPECIFICATIONS - EQUIPMENT OPTIONS

Refrigerant	R290, A21, R449, R452	**Refrigeration unit mounting options**	Wall;Ceiling
Refrigeration unit types	Monoblock;Split type	**Lighting system**	Tungsten
Duty sharing	Timed changeover;Manual changeover	**Cold climate protection CR**	Yes
Evaporator plume guard CR	Yes	**ISO 9001/13485 certified**	Other
ISO 9001/13485 certified (Other)	ISO 9001;IEC 60335-1	**Electric Safety Compliant To IEC 60335-1**	Yes
High/low voltage protection	Yes	**Voltage,Frequency,Phasing options?**	Yes
Voltage Regulator Available?	Yes	**Surge Protection Available?**	Yes
Cut-out system	Yes		

PRODUCT SPECIFICATIONS - TEMPERATURE MONITORING & ALARM OPTIONS

Temperature recording system	Dial thermometer;Event logger	**Alarm system**	Yes
ISO 14001 certified	Yes		

Comments	Cold room and freezer rooms sizes: 10m3, 20m3, 30m3, 40m3 Cold rooms and freezer rooms are available either with mono-block or split refrigeration systems.

WARRANTY, INSTALLATION AND MAINTAINENCE

Warranty period (months)	12.00	**Maintenance service**	Advisory service;Maintenance network
Installation service	Advisory service;Installer network		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E001/RF01.3 Applicable PQS VP(s): E001/RF01-VP1.3

PRODUCT SITES

Organization name	FOSTER Refrigerator
Address	Plant 3 Rollesby Road PE344LS Kings Lynn Norfolk United Kingdom of Great Britain and Northern Ireland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E001: Cold rooms, freezer rooms, and related equipment



Product name:	**Viessmann**
IMD-PQS Code:	E001-005
Status:	Prequalified
Date of acceptance:	05 Jun 2019
Appliance type:	E001
Product description:	Cold rooms and Freezer rooms
Manufacturer:	Viessmann Kuhlsysteme GmbH
Manufacturers Reference:	Viessmann
Country of Manufacture:	Germany
Address:	Dr.-Vießmann-Straße 1, 95030 Hof/Saale, Germany Germany
Telephone:	+49 151 746 568 74
Email:	dosf@viessmann.com
Website address:	https://www.viessmann-cold.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Temperature Zones	Multizone	**Pre-qualified regions**	All regions
Auto defrost	Yes		

ENCLOSURE CONSTRUCTION OPTIONS

Cold room sizes available (largest, m3)	10.00	**Freezer room sizes available (L, m3)**	10.00
Door size options available	Yes	**Door frame heating available**	Yes
Panel insulation material	Polyurethane	**Panel jointing system**	Cam-lock jointing
Panel thickness options	80, 100, 120, 150 mm	**Shelving system**	Adjustable shelves only
Shelving material	Steel only	**Shared wall construction**	Yes
Strip curtain available	Yes	**Pressure release valve (FR only)**	Yes
Floor panel heater mat (FR only)	Yes	**Wall/Celling Panel Finish**	Polyester-Epoxid coated steel
Floor panel finish	Stainless steel with anti-slip finish	**Type of Foaming Agent**	Penthane

PRODUCT SPECIFICATIONS - EQUIPMENT OPTIONS

Refrigerant	R134a, R407A, R452A, R290, R513a, R449	**Refrigeration unit mounting options**	Wall;Ceiling
Refrigeration unit types	Monoblock;Split type	**Lighting system**	Tungsten
Duty sharing	Timed changeover	**Cold climate protection CR**	Yes
Evaporator plume guard CR	Yes	**ISO 9001/13485 certified**	Other
ISO 9001/13485 certified (Other)	ISO 9001;IEC 60335-1	**Electric Safety Compliant To IEC 60335-1**	Yes
High/low voltage protection	Yes	**Voltage,Frequency,Phasing options?**	Yes
Voltage Regulator Available?	No	**Surge Protection Available?**	Yes
Cut-out system	Yes		

PRODUCT SPECIFICATIONS - TEMPERATURE MONITORING & ALARM OPTIONS

Temperature recording system	Dial thermometer	**Alarm system**	Yes
ISO 14001 certified	Yes		

Comments	Freezer room sizes: >10 m3

WARRANTY, INSTALLATION AND MAINTAINENCE

Warranty period (months)	12.00	**Maintenance service**	Advisory service
Installation service	Advisory service		

QUALITY STANDARD

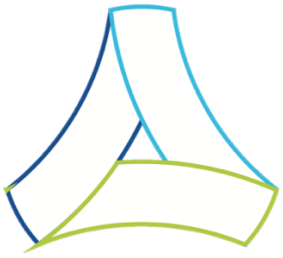
Specification Reference	Applicable PQS specification: E001/CR-FR01.4 Applicable PQS VP(s): E001/CR-FR01-VP

PRODUCT SITES

Organization name	Viessmann Kuhlsysteme GmbH
Address	Dr.-Vießmann-Straße 1, 95030 Hof/Saale, Germany Germany

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



E002
Refrigerated vehicles

The products in this category include refrigerated vehicles of various sizes used for transporting vaccines and other temperature-sensitive biologicals, as well as related variations and options.

A refrigerated vehicle is a road transport vehicle such as a van, truck or semi-trailer whose isolated, thermostatically controlled cargo compartment is maintained at a temperature different (lower or higher) than the external ambient conditions.

Details regarding the products included in each sub-category of E002, as well as guidelines, performance specifications and verification protocols for this category, can be accessed through the drop-down sections below.

E002.1: REFRIGERATED VEHICLES

Refrigerated vehicles include vans, trucks and semi-trailers that have an insulated, thermostatically controlled cargo compartment and a dedicated refrigeration unit capable of maintaining a controlled temperature range.

Vans and small trucks typically have refrigeration units powered directly by the vehicle's engine. Larger trucks and semi-trailers have independent, diesel-powered refrigeration units. Both types may also have electrical backup so that they can be plugged into the main electric grid when parked.

Further guidance on how to transport vaccines using refrigerated vehicles is provided in WHO Technical Report Series, No. 961, Annex 9: Model guidance for the storage and transport of time- and temperature-sensitive pharmaceutical products, Supplement 12: Temperature controlled transport operations by road and by air (May 2015).

Guidance on the loading and operating of refrigerated vehicles is available in the generic operating procedure E7-05: Loading and operating refrigerated vehicles, issued by WHO's Effective Vaccines Management Initiative. National immunization programmes should review and adapt this guidance to the national vaccine handling procedure and to standardize procedures when using refrigerated vehicles.

E002.2: RELATED VARIATIONS AND OPTIONS

Temperature monitoring devices (TMDs) are a key component of a quality-assured, temperature-controlled transport system. TMDs are specified in the IMD-PQS performance specification E002/RV01.3: Refrigerated vehicles.

E002.3: CHOOSING REFRIGERATED VEHICLES

Guidance for the choice of appropriate refrigerated vehicles is forthcoming from WHO.

End-users of insulated containers and their procurement agents are advised to consider the following points when choosing vaccine storage equipment from this category:

- For each vehicle used to deliver vaccines, the routine trips must be mapped, recording the destinations, the typical time needed to complete the journey either as a "loop trip" or a "there-and-back trip" and, if needed, the location of power outlets 415/230-volt sockets for emergency back-up cooling. The time each vehicle will require to compete the delivery route should be estimated. (See WHO Technical Report Series, No. 961, Annex 9: Model guidance for the storage and transport of time- and temperature-sensitive pharmaceutical products, Supplement 14: Transport route profiling qualification (May 2015)).
- Any load sharing with vaccines and other temperature sensitive products should be agreed, as part of an integrated supply chain implementation. (See, for example, Optimize: Tunisia Report (April 2013) and a discussion facilitated by WHO, UNICEF and the GAVI Alliance (3 January 2014).
- Future load volumes should be estimated to the extent possible. See the Vaccine volume calculator 2012 and the Vaccine volume calculator manual.
- It is always important to adhere to the proper loading protocol of refrigerated vehicles, including any requirements to maintain a minimum distance from ceiling, walls and cooling units.
- During route planning and selection of refrigerated transport vehicles, it is important to verify that each vehicle will not only provide the net storage capacity needed for all the distribution points on a single route but also meet the needs of the operating environment. (See WHO Technical Report Series, No. 961, Annex 9: Model guidance for the storage and transport of time- and temperature-sensitive pharmaceutical products, Supplement 12: Temperature controlled transport operations by road and by air (May 2015).) When transporting by truck it is also important to estimate the weight of vaccine shipments to ensure that the maximum load limit of a vehicle is not exceeded and that roadway restrictions are observed to avoid delays or problems at checkpoints.

E002.4: HOW TO CALCULATE THE AVAILABLE CAPACITY OF A REFRIGERATED VEHICLE

Calculate net storage capacity by multiplying the gross volume by the standard utilization factor of 0.67.

CATEGORY DOCUMENTATION, GUIDANCE FOR MANUFACTURERS/SUPPLIERS & SUPPORTING INFORMATION FOR USERS

Performance specification

PQS performance specification E002/RV01.3: Refrigerated vehicles

Verification protocol

PQS type-examination protocol E002/RV01-VP.3: Refrigerated vehicles

Guidance for manufacturers/suppliers

Guidelines on the international packaging and shipping of vaccines

IMD-PQS Guidelines for Prequalification Holders

Supporting information for users

How to calculate vaccine volumes and cold chain capacity requirements

WHO Immunisation Devices - Performance, Quality & Safety

E002: Refrigerated Vehicles



Product name:	**CF850**
IMD-PQS Code:	E002-001
Status:	Prequalified
Date of acceptance:	03 Aug 2021
Appliance type:	E002
Product description:	Refrigerated Vehicle
Manufacturer:	Toyota Tsusho Corporation
Manufacturers Reference:	CF850
Country of Manufacture:	Japan
Address:	2-3-13 Konan Minato-ku Tokyo 108-8208 Japan Japan
Telephone:	+81-50-3176-0941
Email:	yuta_ohashi@toyota-tsusho.com
Website address:	www.toyota-tsusho.com
Supplied to WHO Regions:	AFRO
Valid until:	31 May 2025

Specifications

PRODUCT IDENTIFICATION

Supplied to WHO Regions	AFRO

PRODUCT SPECIFICATIONS - MAIN

Type of refrigerated vehicle	Standard Refrigerated Vehicle	**Smallest gross capacity m3**	0.85
Largest gross capacity m3	0.85	**Temperature readout and alarm in cab(°C)**	Yes
Downloadable temperature tracking	Yes	**Programmable temperature control**	Yes
Foaming Agent	Yes	**Type of Foaming Agent**	C5H10
Cold climate protection? (<4°C)	Yes	**Auto defrost**	Yes
Insulation 0.4/m2/ degrees C or better	Yes		

PRODUCT SPECIFICATIONS - ADDITIONAL

Type (Brand) supplied	For chassis: Toyota Land Cruiser 78	**Vehicle chassis manufacturer**	Toyota Motor Corporation
Fuel - Petrol option	Yes	**Fuel - Diesel option**	Yes
24 hour fuel standby / Failure backup	Yes	**Single Phase Electric Standby / Failure Backup**	Yes
Manual transmission	Yes	**Automatic transmission**	Yes
Vehicle speed limiter	Yes	**x-drive**	Yes
Backup cooling	Petrol backup cooling	**GPS vehicle tracking**	No
Left hand drive available	Yes	**Right hand drive available**	Yes

AVAILABLE OPTIONS

Tail lift available	No	**Cold strip curtain available**	No
Transvers movable partition	Yes	**Rear cab for overnight**	Yes
Storage	Foldable stacking boxes		

OTHER

Heat Extraction Capacity X2.25@30°C (J)	Yes	**Recent Montreal Protocol Refrigerant Gas Used**	Yes

Comments	Smallest gross capacity: 0.85 x-drive: 2 x 4

WARRANTY, INSTALLATION AND MAINTAINENCE

Warranty period (months)	12.00

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E002/RV1.3 Applicable PQS VP(s): E002/RV01-VP.3

PRODUCT SITES

Organization name	Toyota Tsusho Corporation
Address	2-3-13 Konan Minato-ku Tokyo 108-8208 Japan Japan

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

E003

Refrigerators and Freezers

The products in this category are designed to store vaccines and freeze water-packs and include compression and absorption refrigerators, solar direct drives and freezer technologies. Each refrigeration technology and energy source confers different benefits and limitations, and these should be considered carefully before product selection. IMD-PQS standards for these products aim to optimize temperature control, reduce the risk of accidental freezing of vaccines stored in refrigerators, and eliminate the need for thermostat adjustment on electric compression cycle appliances.

Details regarding the products included in each sub-category of E003, as well as guidelines, performance specifications and verification protocols for this category, can be accessed through the drop-down sections below.

WARNING: Domestic refrigerators and freezers should never be used to store vaccines. Performance shortcomings of domestic appliances can seriously compromise the integrity of the cold chain and cause vaccine loss.

E003.1: Refrigerator and freezer technologies

Refrigerators and freezers can operate on electricity or on heat derived from the burning of a liquid fuel or gas.

Electricity may be supplied either by a mains power system, by an electric generator, or from renewable energy sources, typically solar power supplied from a photovoltaic array. Most electric refrigerators are vapor-compression cycle units, of which the ice-lined refrigerator (ILR) is a sub-type.

The table below summarizes the advantages and disadvantages of each refrigeration technology and energy source.

Table 1 : Refrigeration options

Refrigeration cycle and energy source	Thermostatic control	Routine maintenance	Other remarks
Compression cycle with reliable electricity	Good	Very little required	Voltage regulator required when voltage varies widely.
Compression cycle ILR with intermittent electricity	Good	Very little required	Voltage regulator required when voltage varies widely.
Solar electricity or direct drive compression cycle	Good	Routine solar module maintenance	Requires an established solar service network and good solar site evaluation.

E003.2: IMD-PQS compression refrigerators and freezers

Compression refrigerators and freezers are powered by electricity; they cannot operate on gas or kerosene. The electrical supply may come from the main power grid, from a generator or from a renewable energy source such as solar power. Compared to absorption options their great advantage is that compression refrigeration provides powerful and more energy efficient cooling. In addition, compression units have better temperature control in most conditions and less refrigerator maintenance is required.

All new PQS prequalified compression refrigerators listed in the data sheets in this section have vaccine storage compartments that are designed not to freeze if used in accordance with the manufacturer's instructions. In addition, they now have non- adjustable thermostats. However, if vaccines are placed against the internal lining without baskets there is still a risk of freezing. In 2016 WHO IMD-PQS introduced a grading scale: A, B and C. Appliances graded A are certified as low vaccine freezing risk even if baskets are not used (see paragraph on freeze-protection). This new approach should eliminate accidental freezing due to improper user interventions, such as thermostat adjustment or misplacement of vaccines in the refrigerator compartment.

Low-energy chest freezers: These units are used to store oral poliovirus (OPV) vaccines in bulk. Typically, they are used in smaller primary stores where a freezer room is not justified, or at intermediate healthcare levels. They can also be used to freeze water-packs and/or to store frozen ice-packs.

E003.2.1 Mains-powered refrigerators and freezers

E003.2.1.1 Compression refrigerators and freezers with no additional lining

These are standard refrigerators that have been tested to ensure that acceptable vaccine storage temperatures between +2°C and +8°C are maintained in the vaccine storage areas. No freezing (i.e. temperature of 0°C or less) is accepted. If power is

interrupted, these refrigerators will remain below +8°C for at least four hours in continuous hot-zone temperature.

E003.2.1.2 Ice-lined refrigerators (ILR)

Most ILRs can maintain acceptable temperatures below +8°C on as little as eight hours of electricity per 24 hours, day after day. Ice-lined refrigerators are a very good choice wherever there is at least eight hours electricity a day, but no standby power supply. SDD appliances may also be an appropriate option.

Cooling during power cuts is maintained by an internal lining surrounding the vaccine storage compartment. The lining is made up of ice or cold water filled compartments or frozen ice-packs. When the electricity supply fails, this ice or cold-water store keeps the vaccine cool for at least 20 hours. When the power is restored, the compressor runs until the lining is refrozen or re-cooled.

Other new ILR-like products make novel use of chilled water combined with ice. These refrigerators can operate on fewer hours of power per day and provide from 20 hours to over 120 hours of acceptable temperature control without electricity.

Temperature control is inherently stable and potentially extends the reach of the ILR approach to areas with as little as 28 hours of power per week or an average of 4 hours per day.

WARNING: During the refreezing process some areas of an ILR can fall below 0°C – e.g. the bottom of the compartment. For non-grade A appliances freeze- sensitive vaccines should NEVER be stored within 150 mm of the base of these models. Always respect the manufacturer's storage limit lines inside the cabinet, indicating the extent of the hazardous zone and always use the vaccine storage baskets provided by the manufacturer.

In order to avoid the freezing problem, some programmes adjust the thermostats on older ILRs so that the water-filled lining remains liquid. This strategy reduces the appliance's cold-life but does eliminate the freezing risk. It should be adopted only after a carefully conducted study using data loggers to monitor vaccine temperature in the cold chain. Refer to the WHO Study Protocol for Temperature Monitoring in the Vaccine Cold Chain for further guidance.

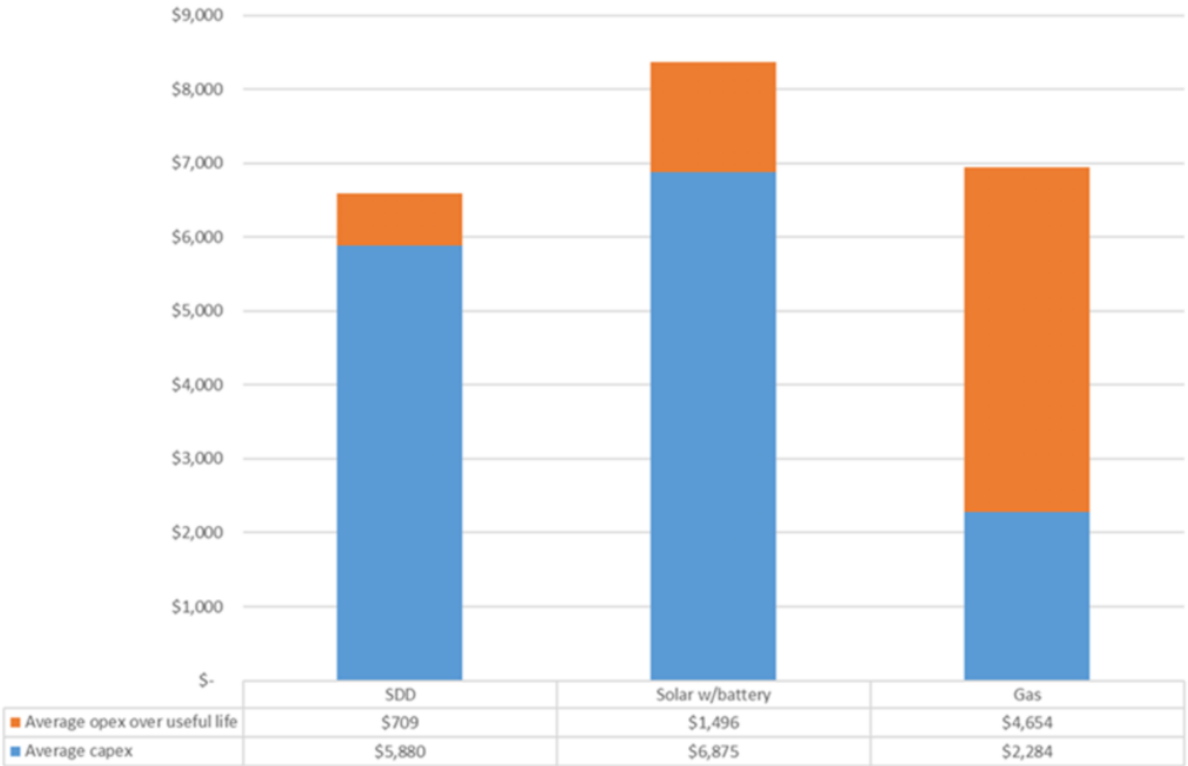
E003.2.2 Solar refrigerators and freezers

Solar powered vaccine refrigeration systems are now widely used. They are sometimes the only available solution in areas where no reliable conventional energy supply is available. Solar powered appliances must pass the relevant appliance tests and must also include a solar power system certified by the appliance manufacturer to be in compliance with the WHO IMD-PQS performance specification E003/PV01: Solar power system for vaccine refrigerator or combined vaccine refrigerator and water-pack freezer. These solar power systems are intended to be delivered as a standard kit and several kit options may be offered.

WHO, PATH and others have conducted several in-depth reviews of solar vaccine refrigeration programmes launched in Africa, the Americas and in South-East Asia. These have shown that:

- The technology can be reliable and improve the quality of the vaccine cold chain when compared with the use of absorption refrigerators.
- The 10-year life cycle cost of solar direct drive (SDD) refrigerators is estimated to be equal or lower than gas-powered refrigeration systems in settings where bottled gas is readily available and its supply is reliable. See Figure 1 below.
- The 10-year life cycle cost of solar battery powered systems remains relatively high in comparison with gas-powered refrigeration systems. Maintenance and replacement of batteries and regulators remains the major problem. Field reports historically indicate that on average, replacement is necessary after five years and these systems are often located in remote, isolated areas making maintenance and battery replacement challenging.
- Solar modules and batteries (when used) must be physically secure to prevent theft of these valuable items. (Due to the cost and maintenance of batteries, SDD systems have become more prevalent.)
- It is essential to ensure that a qualified servicing network is in place to make an on-site assessment, install the systems and provide long-term system maintenance. Replacement of parts such as batteries, battery charge regulators and refrigerator components must be anticipated and fully funded.

Figure 1: TCO comparison between SDD, solar battery and gas refrigerators from the latest PATH TCO tool (2019 July)



	SDD	Solar w/battery	Gas
Average opex over useful life	$709	$1,496	$4,654
Average capex	$5,880	$6,875	$2,284

Both direct-drive and battery powered models currently provide vaccine storage at +2°C to +8°C. The flow chart under section E003.5 provides guidance on when to select solar refrigeration. It is essential to ensure that there is adequate sunlight throughout the year at all the proposed sites and a solar site evaluation must be conducted before the equipment is installed on site.

There are now two types of solar refrigeration. The first type consists of a compression-cycle refrigerator or freezer or combined refrigerator/freezer powered by a battery-pack which is charged by a photovoltaic array. The second type is a compression-cycle refrigerator or freezer or combined refrigerator/freezer directly driven by the solar array, with energy stored in a sealed thermal mass inside the equipment to maintain cool temperatures overnight. No batteries are needed to operate the compressor. A sub- category of this type uses an ancillary battery to operate a fan.

Field reports indicated that solar-powered refrigeration systems can sometimes achieve a 10+ year service life. This is only possible if the installation is properly planned, correctly designed, competently installed and then supported by a regular maintenance program with adequate, ongoing funding.

Solar refrigeration is a mature technology that can be used with confidence provided certain fundamental conditions are met. These conditions are:

1. **Maintenance and repair:** All solar equipment requires maintenance or it will fail, especially power systems with a battery. Plan for maintenance in accordance with maintenance tools for users and technicians; provide adequate funding in advance and carry out the work in a timely manner. Only install solar refrigerators at sites which can be reached consistently by a qualified service network throughout the year and in a reasonable time.

2. **Equipment selection:** A purchase should not be committed until the solar site evaluation has been completed. Then only refrigeration equipment that has been prequalified under WHO IMD-PQS and which is suitable for the climatic conditions at the selected site(s) should be considered. Qualified suppliers should provide a solar power system that is matched to the refrigeration equipment, meets IMD-PQS equipment specifications and is suitable for the site-specific climate. Before buying a large quantity of equipment, a pilot study including one or a few systems must be conducted in order to assess the installation feasibility and the good working conditions in country.

3. **Solar site evaluation:** Subject to condition 1, the system supplier/installer must carry out a site evaluation and must confirm in writing that:

- The refrigerator can be located in a level, secure and safe position out of direct sunlight and moisture.
- The proposed site has sufficient solar radiation throughout the year to power the chosen equipment (verified by officially-sourced regional multi-year weather data) and that system performance will not be compromised as a result of persistent dust storms, fog, air pollution or other more localized atmospheric effects.

- A solar site analysis has quantified the times of and the amount of shading on the proposed solar array location.
- The system autonomy (amount of energy stored for periods of low solar radiation) has been assessed and is matched to the site-specific autonomy requirement as determined by WHO IMD-PQS specification E003 PV01.
- The site identified to install the solar array is not shaded by trees, vegetation, poles, cables, adjoining structures or buildings. Even something as small as an overhanging cable can seriously affect the efficiency of some solar modules.
- There is a suitable place to mount the solar array so that it cannot easily be vandalized, stolen or accidentally damaged.
- Safe access can be provided to clean and maintain the solar array. Note: this is especially important where snow or dust storms are common.
- Details are specified for any roof-strengthening required and clear guidance is provided on the installation of access ladders and/or safety ropes.
- All cable lengths are estimated as accurately as possible in advance.
- If batteries are used, advice is provided on a suitable and secure location for a battery enclosure (a locking, ventilated box) close to the vaccine refrigerator/freezer

4. **Site preparation:** The solar site evaluation may show that preparatory building work is required to make the site safe and suitable. If this is so, make arrangements to carry out this work before the equipment is delivered.

5. **Servicing network:** There must be a competent, trained and affordable solar servicing network in the country. This service network must offer installation and long-term support with a reliable supply of spare parts for the refrigerator, the solar array and battery system (if used).

6. **Installation:** It is essential that the equipment be installed and commissioned in accordance with the relevant IMD-PQS Quality Assurance protocol: IMD-PQS PV01-VP2 Solar power system for compression-cycle refrigerator or combined refrigerator/water-pack freezer.

7. **User training:** Users must be trained in the operation and maintenance of the system. They should also be provided with clear instructions on whom to inform in case of maintenance requests or system failure.

WARNING: The freezer compartments of IMD-PQS prequalified solar refrigerators are not suitable for storing or freezing vaccines. Freezer compartments should only be used to freeze water-packs.

WARNING: Some single compressor solar refrigerators may not be able to freeze icepacks when the ambient temperature is permanently below +15°C to +20°C. If you plan to use a solar refrigerator in a mountainous area or an area where the ambient temperature is permanently or seasonally low, you should select a system with two independent compressors or a model that has shown good performance at low temperatures.

WARNING: The photovoltaic panels and battery packs (whenn used) which power the vaccine refrigerator must be used for this purpose alone. If there is a need for additional photovoltaic power on the site – e.g. for health facility lighting, for small-scale laboratory equipment and the like – this must be supplied from a separate system. If other equipment is supplied from the refrigerator battery pack, its use may be difficult to control and this will drain power and could compromise the vaccine.

IMD-PQS has published Solar Energy Harvest Controller (EHC) specifications to open up the possibilities to use some extra energy supplied by solar arrays, while securing the power to the appliance. Note: this applies only for SDDs approved for use with specific EHCs.

The solar direct drive refrigerators listed in this catalogue are laboratory tested over a specific ambient temperature range, using a specific solar diurnal power cycle.

Establishing the correct size of the solar array for a solar direct drive refrigerator installation **cannot** be done by the purchasing agency. Instead, predetermined system kits with an SDD appliance and matched solar power system are provided. Laboratory testing and the amount of cold storage required by IMD-PQS are based on relatively poor solar radiation conditions to assure adequate solar electricity is generated in most tropical climates.

WARNING: IMD-PQS prequalified equipment may only be used within the limits stated on the relevant IMD-PQS product data sheet. Manufacturers are required to nominate a solar array size at the time of testing. The output from that solar array is used to determine the performance of the refrigerators. Only the nominated array size that is stated on the IMD-PQS product data sheet, or a larger array, may safely be used.

E003.3: IMD-PQS absorption refrigerators and freezers

Absorption refrigerators and water-pack freezers do not perform as well as their compressor-driven equivalents. They may require constant attention to ensure adequate performance for the vaccine cold chain.

Furthermore, models that combine vaccine storage with water-pack freezing within the same insulated chamber do not control temperatures or freeze water-packs as well as models that have separate freezing and vaccine storage areas.

WARNING: Operating costs can be higher with absorption refrigeration than with most other options. For this reason, SDD systems have become more prevalent for locations with unreliable mains power.

E003.4: Choosing a refrigerator or freezer

When you choose a refrigerator or freezer consider the following points (see glossary for definitions):

1. Temperature zone: Assess climate-specific and location-specific factors

- *Climate:* Identify the appropriate temperature zone by checking the mean maximum temperature during the hottest month and the mean minimum during the coldest month. Bear in mind that some parts of the country, e.g. mountain regions, may require equipment with a different temperature rating than other parts.
- *Setting*: Choose potential appliance types to suit the setting using the table below. There are two factors to consider:
    - The mean maximum temperature in the hottest month in the area where the appliance will be located: ignore air-conditioning because it is very likely to be off at weekends and during power cuts and cold chain equipment is often located in store rooms or similar locations.
    - The lowest winter temperature in the room where the appliance will be located: in cold climates, the winter temperature inside a health facility can drop below freezing; e.g. where heating is absent, unreliable, or is turned off at night and/or at weekends. In such cases, choose equipment that is able to operate at low ambient temperatures. Currently there are no models available with active low-temperature protection which can operate at temperatures below +5°C

2. Temperature zone selection

Table 1 : Temperate zone selection

Appliance type LAT = Low Ambient Temperature rating	Mean maximum temperature in hottest month			Lowest winter room temperature	
	<= +27°C	<= +32°C	>+32°C	>= +10°C to +25°C	< +10°C
Hot zone			X	X	
Temperate zone		X		X	
Moderate zone	X			X	
Hot zone + LAT			X		X
Temperate zone + LAT		X			X
Moderate zone + LAT	X				X

3. Vaccine storage capacity: In each setting (primary store, sub-national store or health facility) assess how much vaccine must be stored at +2°C to +8°C and how much at -20°C.

4. Water-pack freezing capacity: If icepacks are required, assess how many water- packs need to be frozen per 24 hours in each setting. Once frozen, the icepacks can be stored in any locally-available chest freezer with low power consumption. If high throughput is not a major concern, chest freezers can be used on their own. Where cold water-packs are used, lower cost, locally available refrigerators are perfectly adequate, so long as they are never used to store vaccine.

5. Energy source: Continuous refrigeration is required for vaccine storage and this requires a reliable source of power. In each setting, assess which power sources are available and which type of refrigeration is most suitable. The available sources are mains electricity, generator produced electricity, renewable energy (e.g. solar electricity), and bottled gas. Solar, gas and long-term passive devices are currently the only alternatives where mains electricity is absent, or is available for less than eight hours per day. The flowchart below outlines the decision process:

Figure 2: Selecting a suitable energy source



* With voltage regulator
† With adequate holdover time (the time in hours during which all points in the vaccine compartment remain between +2°C and +8°C, at the maximum ambient temperature of the climate zone for which the appliance is rated, after the fuel supply has been disconnected). Refer to PQS Catalogue datasheets for holdover times of ice-lined refrigerators
‡ Do not use domestic refrigerators unless lab tested to PQS standards

6. Associated supplies: Make sure you order the necessary associated supplies at the same time as the refrigerator or freezer. These include:

- *Spare parts:* The data sheets in this section list the spare parts recommended for the first five years of use. To avoid shortages later, order these spares with the equipment. Before purchasing equipment check that repair facilities and spare parts are available, whether from a competent local service agent or in-house.
- *Voltage stabilizer:* Unless mains electricity is highly reliable, order a voltage regulator for all mains or generator powered equipment – see Section E001 Cold Room and Freezer Rooms and Section E007 Cold Chain Accessories of the IMD-PQS Catalogue for more information. Note that some suppliers include a voltage regulator either integrated in the device or bundled with the device.
- *Temperature monitoring equipment:* IMD-PQS specifications require all vaccine refrigerators and freezers, whatever the power source, to be supplied with a Level 1 Electronic Monitoring Device (EMD) datalogger. In addition, for reliable continuous temperature monitoring, every vaccine refrigerator should include an external reading thermometer and integrated Level 2 EMD, integrated Level 3 EMD, or a 30-day electronic refrigerator temperature logger. See section E006 Temperature Monitoring Devices of the IMD-PQS Devices Catalogue for more information. Note: that refrigerator temperature loggers will need to be replaced approximately every two years when the battery runs out. Ensure that adequate recurrent funding is available to purchase these consumable items in future years.

Table 2: EMS configurations

Configuration	I	II	III	IV	V
Data logger plus M2M port (E006/DL01)	✓	✓	✓	✓	✓
Thermometer (E006/TH06) with display		✓		✓	✓
Integrated EMD (E006/EM01)	✓				
External EMD (E006/EM01)		✓			
Integrated EMD with remote data transmission (E006/EM01)			✓		
External EMD with remote data transmission (E006/EM01)				✓	
30 DTR (E006/TR06.3)					✓

- *Manuals:* Order user and service manuals in the appropriate language.
- *Energy harvest:* Energy harvest is a new technology that provides a limited amount of electricity to health facilities with unreliable electricity (weak-grid) or no electrical service (off-grid). Energy harvest is only available for some solar direct drive refrigerators at the current time. See Section E007 Cold Chain Accessories of the IMD-PQS Devices Catalogue for more information.

7. Training: Ensure that users and maintenance technicians are properly trained to use the specific equipment that you order. All solar systems require on-site installation by a competent technician specifically trained in solar installation work. It is also essential that adequate servicing facilities are available after the equipment has been installed. The importance of training is often underestimated and under-budgeted. A cold chain with good equipment but inadequately trained staff can seriously hamper an immunization programme.

8. Cost: Select the best available refrigerator from the point of view of reliable temperature control and low maintenance. Do not buy solely on the basis of purchase cost. This can lead to expensive loss of vaccine and/or higher lifetime costs due to greater running and maintenance costs.

E003.5: IMD-PQS specification changes

The new IMD-PQS specifications have introduced a number of technical changes. The following are the most significant.

E003.5.1: Electronic Monitoring System (EMS)

A Level 1 Electronic Monitoring Device (EMD) is now required for all vaccine refrigerators. Additionally, an integrate Level 2 EMD or 30-DTR is also required.

E003.5.2: Humidity control

Although humidity control is not required at this time, it is encouraged and is a testing protocol is provided in the Verification Protocol.

E003.6: Recent and future developments

A number of interesting new developments have been pursued by WHO and its partners:

- Solar direct drive freezers have now been prequalfiied.
- Basic USB EHCs are now common on most SDD appliances: however, these devices cannot take advantage of the full energy from the solar array, which prioritizes the refrigeration load over all others. Therefore EHC options are desirable for health centers that lack access to electricity.

- Transportable, powered vaccine storage appliances are now available. The corresponding IMD-PQS specification is WHO/PQS/E003/TS01. These appliances use batteries to provide "independence" time by actively cooling the vaccines. Thermal insulation provides a further "hold-over" time.
- Phase change materials that freeze at positive temperatures (e.g. +5°C) may be used instead of an ice-lining if permanently contained and affixed into the equipment to prevent vaccine freezing. This technology will provide more cooling capacity than a lining consisting of unfrozen cool water-packs. IMD-PQS has published a specification for containment and use of non-water PCMs: WHO/PQS/E005/PCMC0.1 – *Phase change material containers*.

CATEGORY DOCUMENTATION, GUIDANCE FOR MANUFACTURERS/SUPPLIERS & SUPPORTING INFORMATION FOR USERS

Performance specifications

PQS performance specification E003/RF06.4: Refrigerator or combined refrigerator and water-pack freezer: Solar direct drive with ancillary rechargeable battery

PQS performance specification E003/RF04.4: Refrigerator or combined refrigerator and water-pack freezer: Solar powered with rechargeable battery

PQS performance specification E003/RF01.4: Refrigerator or combined refrigerator and water-pack freezer: minimal holdover mains powered, compression cycle

PQS performance specification E003/FZ04.1: Vaccine freezer or combined vaccine and water-pack freezer: Solar-direct drive

PQS performance specification E003/TS01.1: Transportable, powered vaccine storage appliances

PQS performance specification E003/RF05.7: Refrigerator or combined refrigerator and water-pack freezer: Solar direct drive without battery storage

PQS performance specification E003/RF03.6: Refrigerator or combined refrigerator and water-pack freezer: intermittent mains powered, compression cycle

PQS performance specification E003/ULT01.1: Vaccine ultra-low temperature freezer compression cycle

PQS performance specification E003/POW01.0: Power systems for ultra-low temperature systems

PQS performance specification E003/BC01.1: Global asset identification

PQS performance specification E003/RF02.3: Refrigerator or combined refrigerator and water-pack freezer: absorption cycle

PQS performance specification E003/RF06.3: Refrigerator or combined refrigerator and water-pack freezer: solar direct drive with ancillary rechargeable battery

PQS performance specification E003/PV01.4: Solar power system for vaccine refrigerator or combined vaccine refrigerator and water-pack freezer

PQS performance specification E003/FZ01.2: Vaccine freezer or combined vaccine and water-pack freezer: compression cycle

PQS performance specification E003/FZ02.2: Water-pack freezer: absorption cycle

PQS performance specification E003/FZ03.3: Water-pack freezer: solar direct drive without battery storage

Verification protocols

PQS independent type-testing protocol E003/ULT01-VP.1: Vaccine ultra-low temperature freezer

PQS independent type-testing protocol E003/TS01-VP.1: Transportable, powered vaccine storage appliances

PQS On-site freeze protection test protocol Based on E003/RF03-VP.3: Ice-lined refrigerator or combined ice-lined refrigerator and water-pack freezer: compression cycle

PQS On-site freeze protection test protocol Based on E003/RF05-VP.4: and E003/RF06-VP.2: Refrigerator or combined refrigerator and water-pack freezer, compression-cycle. Solar direct drive with or without ancillary battery

PQS type-examination protocol E003/POW-VP02.0: Power systems for ultra-low temperature freezing systems

PQS type-examination protocol E003/POW-VP01.0: Power systems for ultra-low temperature freezing systems

PQS type examination protocol E003/PV01-VP1.2: Solar power system for compression-cycle vaccine refrigerator or combined refrigerator and water-pack freezer.

PQS quality assurance protocol E003/PV01-VP2.2: Solar power system for compression-cycle vaccine refrigerator or combined refrigerator and water-pack freezer – on-site checklists for completed installations

PQS independent type-testing protocol E003/RF01-VP.4: Refrigerator or combined refrigerator and water-pack freezer: minimal holdover mains-powered, compression cycle

PQS independent type-testing protocol E003/RF02-VP03: Refrigerator or combined refrigerator and water-pack freezer: absorption cycle

PQS independent type-testing protocol E003/RF03-VP.4: Refrigerator or combined refrigerator and water-pack freezer: intermittent mains-powered, compression cycle

PQS independent type-testing protocol E003/RF04-VP.4: Refrigerator or combined refrigerator and water-pack freezer: solar powered with rechargeable battery

PQS independent type-testing protocol E003/RF05-VP.5: Refrigerator or combined refrigerator and water-pack freezer: solar direct drive without battery storage

PQS independent type-testing protocol E003/RF06-VP.4: Refrigerator or combined refrigerator and water-pack freezer: solar direct drive with ancillary rechargeable battery

PQS independent type-testing protocol E003/FZ01-VP.2: Vaccine freezer or combined vaccine and water-pack freezer: compression-cycle

PQS independent type-testing protocol E003/FZ02-VP.2: Vaccine freezer or combined vaccine and water-pack freezer: compression-cycle

PQS independent type-testing protocol E003/FZ03.VP.1: Water-pack freezer: solar direct drive without battery storage

PQS independent type-testing protocol E003/FZ04-VP.1: Vaccine freezer or combined vaccine and water-pack freezer: Solar-direct drive

Target product profile

Target Product Profile: WHO/PQS/E003/TPP01.2 SDD refrigerator

Target Product Profile: WHO/PQS/E003/TPP02.1 Solar Power System

Target Product Profile: WHO/PQS/E003/TPP03.1 SDD Freezer

Draft Target Product Profile: WHO/PQS/E003/TPP04 Mains-powered refrigerator

Target Product Profile: WHO/PQS/E003/TPP05.1 Humidity control for vaccine refrigerators

Guidance for manufacturers/suppliers

Generic field evaluation checklist for IMD-PQS reviewers

Generic guide for the field evaluation of new technologies for WHO PQS prequalification GENERIC/GUIDE 1.1

PQS solar autonomy calculation method

IMD-PQS Guidelines for Prequalification Holders

Supporting information for users

How to calculate vaccine volumes and cold chain capacity requirements

How to develop and repair a maintenance system for cold chain equipment

Introducing solar-powered vaccine refrigerator and freezer systems – A guide for managers in national immunization programmes

Evidence brief: Solar direct-drive vaccine refrigerators and freezers

Procurement guidelines: solar direct drive refrigerators and freezers

Study protocol for temperature monitoring in the vaccine cold chain

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**MF 314**
IMD-PQS Code:	E003-023
Status:	Prequalified
Date of acceptance:	12 Jan 2011
Appliance type:	E003
Product description:	Vaccine/Waterpacks freezer
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	MF 314
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Hold over time (hours:mn)**	4:00
External dimensions length (mm)	700.00	**External dimensions width (mm)**	1560.00
External dimensions height (mm)	840.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional	**Lining**	Regular
Energy Consumption During Freezing (kWh/24h)	4.2400	**Energy Consumption Cool Down (kWh/24h)**	4.2900
Energy Consumption Continuous Power (kWh/24h)	4.2300		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	1.00

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	**Freezer net volume**	220-300
Freezer's gross volume (Litres)	281.00	**Waterpack freezing capacity (Kg/24 hrs)**	7.20
Waterpack storage capacity (Litres)	153.60		

Comments	Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP,containing various installation/service features. Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable. Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc. MF 314 is model is supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection in line with E007/VS01-VP.5 For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz Freezing capacity range: 5 - 15 kg/24h Range of holdover time: 2 - 5 hours Range waterpack storage capacity: > 200 L Waterpack storage capacity: 256 x 0.6 L
List of accessories	External electronic 30 day TMD FT2 Type 2. 3 Basket, Locking lid + keys. Manual in 6 languages. Plywood packing

List of spare parts, Reference & Price	Spare parts to be revised. 1 No. Compressor HXK12AT Complete - Part No. 8-03606510309 1 No. Thermostat freezer - Part No. 7095610 1 No. Voltage stabilizer controller - Part No. 7020475 1 No Starting device, 6520511 1 No Thermometer, solar, Part No.7021091-01

PRICE AND SHIPPING

Shipping volume (m3)	1.161	**Shipping weight (kg)**	108.50
Incoterms	EXW	**Price 1**	1-99 units: 1192 €
Price 2	100-199 units: €	**Year of base price**	2023

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/FZ02.2 Applicable PQS VP(s): E003/FZ02-VP2		

VERIFICATION

Verification Report Reference	A66542-3 issue 1

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**MF 114**
IMD-PQS Code:	E003-024
Status:	Prequalified
Date of acceptance:	12 Jan 2011
Appliance type:	E003
Product description:	Vaccine/Waterpacks freezer
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	MF 114
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Hold over time (hours:mn)**	2:48
External dimensions length (mm)	700.00	**External dimensions width (mm)**	720.00
External dimensions height (mm)	840.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional	**Lining**	Regular
Energy Consumption During Freezing (kWh/24h)	3.3300	**Energy Consumption Cool Down (kWh/24h)**	2.4100
Energy Consumption Continuous Power (kWh/24h)	2.2400		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	1.00

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	**Freezer net volume**	50-110
Freezer's gross volume (Litres)	105.00	**Waterpack freezing capacity (Kg/24 hrs)**	7.20
Waterpack storage capacity (Litres)	38.40		

Comments	Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable. Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc. MF 114 imodel is supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection in line with E007/VS01-VP.5 For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz Freezing capacity range: 5 - 15 kg/24h Range of holdover time: 2 - 5 hours Range waterpack storage capacity: 20 - 100 Waterpack storage capacity: 64 x 0.6 L
List of accessories	External electronic 30 day TMD FT2 Type 2, 1 Basket, Locking lid + 2 key. Manual in 6 languages. Plywook packing

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor - HXK80AT Complete - Part No.8-036510018 1 No. Thermostat, freezer - Part No.7095610 1 No. Voltage stabiliser controller 110-285V 50Hz- Part No.7020475 1 No. Thermometer, solar - Part No.7020164 Other parts are available as spares on request..

PRICE AND SHIPPING

Shipping volume (m3)	0.58	**Shipping weight (kg)**	70.00
Incoterms	FCA	**Price 1**	1-99 units: 541 €
Price 2	100-199 units: 422 €	**Year of base price**	2016

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/FZ02.2 Applicable PQS VP(s): E003/FZ02-VP.2		

VERIFICATION

Verification Report Reference	A66542-1

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**MF 214**
IMD-PQS Code:	E003-025
Status:	Prequalified
Date of acceptance:	12 Jan 2011
Appliance type:	E003
Product description:	Vaccine/Waterpacks freezer
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	MF 214
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Hold over time (hours:mn)**	2:54
External dimensions length (mm)	700.00	**External dimensions width (mm)**	1130.00
External dimensions height (mm)	840.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional	**Lining**	Regular
Energy Consumption During Freezing (kWh/24h)	3.5600	**Energy Consumption Cool Down (kWh/24h)**	2.9600
Energy Consumption Continuous Power (kWh/24h)	3.0000		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	1.00

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	**Freezer net volume**	110-220
Freezer's gross volume (Litres)	171.00	**Waterpack freezing capacity (Kg/24 hrs)**	7.20
Waterpack storage capacity (Litres)	96.00		

Comments	Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP,containing various installation/service features. Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable. Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc. MF 214 is model is supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection in line with E007/VS01-VP.5 For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz Freezing capacity range: 5 - 15 kg/24h Range of holdover time: 2 - 5 hours Range waterpack storage capacity: 101 - 200 L Waterpack storage capacity: 160 x 0.6 L
List of accessories	External electronic 30 day TMD FT2 Type 2, 2 Basket, Locking lid + 2 key. Manual in 6 languages. Plywook packing

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor - HXK80AT, Complete, R600a - Part No. 8-036510018 1 No. Thermostat, freezer - Part No.7095610 1 No. Thermometer, solar - Part No. 7020164 1 No. Voltage stabilizer controller - Part No. 7020475 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.846	**Shipping weight (kg)**	96.30
Incoterms	FCA	**Price 1**	1-99 units: 615 €
Price 2	100-199 units: 493 €	**Year of base price**	2016

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/FZ02.2 Applicable PQS VP(s): E003/FZ02-VP.2		

VERIFICATION

Verification Report Reference	A66542-2 issue 1

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TCW 3000 SDD**
IMD-PQS Code:	E003-030
Status:	Prequalified
Date of acceptance:	25 Jun 2012
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 3000 SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Temperate	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	94:05
External dimensions length (mm)	780.00	**External dimensions width (mm)**	1270.00
External dimensions height (mm)	910.00	**Appliance tested at (°C)**	32.00
Performance at" (°C)	32.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Solar direct drive	**Lining**	Regular
Energy Consumption Cool Down (kWh/24h)	0.3400	**Energy Consumption Continuous Power (kWh/24h)**	0.2500

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	156.000	**Refrigerator's gross volume (Litres)**	278.000
Autonomy (hrs:mn)	86:56	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	Prices include the solar generator system : G1=roof fixes; G2=roof adjustable. Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 or 10 years as the case may be. For more information and further conditions of warranty, please contact B Medical Systems Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 150L - 220L
List of accessories	5 Baskets, documentation and Instruction manual, 2 keys, lockable lid, 2 spacers, 1 compass, 1 brush
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No.296.9702.09 1 No. E-BOX BD35K SOLAR - Part No. 296.9705.32 1 No. Electronic thermostat/controller(TCW DC Solar) - Part No.292.2009.05 1 No. FAN PAPST #4312NNU 12V 4.3W 410MM - Part No. 292.9960.13 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.07	**Shipping weight (kg)**	140.00

Incoterms	EXW	**Price 1**	Price: >100 units: G1: 6425 €; G2: 7105 €.
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14001:2015
Specification Reference	Applicable PQS specification: E003/RF05.2 Applicable PQS VP(s): E003/RF05-VP.2		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 11--018 V2 /16-005		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TCW 2000 SDD**
IMD-PQS Code:	E003-035
Status:	Prequalified
Date of acceptance:	17 Dec 2012
Appliance type:	E003
Product description:	Solar direct drive refrigerator/freezer
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 2000 SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Temperate	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	94:00
External dimensions length (mm)	1270.00	**External dimensions width (mm)**	780.00
External dimensions height (mm)	910.00	**Appliance tested at (°C)**	32.00
Performance at" (°C)	32.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Solar direct drive	**Lining**	Ice-lined
Energy Consumption During Freezing (kWh/24h)	0.9600	**Energy Consumption Cool Down (kWh/24h)**	0.7400
Energy Consumption Continuous Power (kWh/24h)	0.7800		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	99.000	**Refrigerator's gross volume (Litres)**	118.000
Autonomy (hrs:mn)	85:24	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	**Freezer net volume**	
Freezer's gross volume (Litres)	42.00	**Waterpack freezing capacity (Kg/24 hrs)**	2.40
Waterpack storage capacity (Litres)	9.60		

Comments	Prices include the solar generator system : G1=roof fixes; G2=roof adjustable. Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 or 10 years as the case may be. For more information and further conditions of warranty, please contact B Medical Systems. Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 90L - 150L Range waterpack storage capacity: 20 - 100L Waterpack storage capacity: 16x0.6L

List of accessories	4 baskets; 16 waterpacks 0.6L; 4 keys; documentation and instructions, lockable lid, 1 compass, 1 brush, 2 spacers
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No.296.9702.09 1 No. E-box (BD35K Solar) Part No. 2969705.32 1 No. Electronic thermostat/controller (TCW DC Solar) - Part No. 292.2009.05 1 No. Fan (12V, 4,3W, 410) - Part No. 292.9960.13 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.07	**Shipping weight (kg)**	161.00
Incoterms	EXW	**Price 1**	>100 units: G1: 9252€; G2: 10,606€
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14001:2015
Specification Reference	Applicable PQS specification: E003/RF05.2 Applicable PQS VP(s): E003/RF05-VP.2		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO- 12-020/16-004/11-017 V2		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VC200SDD**
IMD-PQS Code:	E003-040
Status:	Prequalified
Date of acceptance:	13 Mar 2014
Appliance type:	E003
Product description:	Solar Direct Drive vaccine refrigerator
Manufacturer:	Dulas Ltd
Manufacturers Reference:	VC200SDD
Country of Manufacture:	United Kingdom
Address:	Unit 6, Beeding Close, Southern Cross Trading Estate, PO22 9TS, Bognor Regis United Kingdom of Great Britain and Northern Ireland
Telephone:	+44 (0)7833 297920
Email:	catherine.mclennan@dulas.org.uk
Website address:	http://www.dulassolar.org/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**External dimensions length (mm)**	750.00
External dimensions width (mm)	1280.00	**External dimensions height (mm)**	980.00
Appliance tested at (°C)	43.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive
Energy Consumption Cool Down (kWh/24h)	0.5200	**Energy Consumption Continuous Power (kWh/24h)**	0.5000

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	132.000	**Refrigerator's gross volume (Litres)**	205.200
Autonomy (hrs:mn)	79:29	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A	**Waterpack freezing capacity (Kg/24 hrs)**	0.00
Waterpack storage capacity (Litres)	0.00		

Comments	Dulas VC200SDD (solar direct drive) vaccine refrigerator. Integrated PCM internal lining used as part of Dulas's Freeze Free technology. Features include lockable handle, twin gasket seals, high strength metal hinges and heavy duty castors. Price includes plug and play solar array and mounting system, as well as solar cables, connectors, fixings and earthing kit (for increased protection against lightning strike). Selection of specialist tools supplied with the system to facilitate installation. Beyond RTMD integrated as standard with display, audible and visual alarm indicators, 120-day local data storage and scannable QR code for instant 30-day PDF reports. Optional remote temperature monitoring subscription service available via cellular network which provides real-time monitoring and reporting of cold chain assets in one easy-to-use cloud-based portal. Shipping weights and volumes are shown for refrigerator only. Details of solar system available upon request.
List of accessories	Supplied with 4 x refrigerator baskets, 2 x keys for the lockable handle, 1 x set of printed manuals ('user's manual', 'installation and technician's manual') available in a selection of languages. Price includes Berlinger Fridge-tag 2 E 30-day electronic temperature logger (E006/040) and complete solar system including all cables and connections necessary for installation in the field.

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 x Dulas SDD controller (for single compressor) – Part No. 5522 1 x Lightning protection board – Part No. 5542 1 x Temperature probe (set of 2) – Part No's. SN4B15P1 & SN4B20P1 1 x Compressor controller – Part No. 101N0420 1 x MCB fridge – Part No. 693-CBTWF060C0 1 x Compressor BD35K – Part No. 101Z0211 Prices and other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.33	**Shipping weight (kg)**	194.00
Incoterms	EXW	**Price 1**	€4,620 EUR per unit including solar system
Year of base price	2025		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14000:2015
Specification Reference	Applicable PQS specification: E003/RF06.2 Applicable PQS VP(s): E003/RF06-VP.2		

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-13-194		

PRODUCT SITES

Organization name	Dulas Ltd
Address	Unit 6, Beeding Close, Southern Cross Trading Estate, PO22 9TS, Bognor Regis United Kingdom of Great Britain and Northern Ireland

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TCW 40 SDD**
IMD-PQS Code:	E003-042
Status:	Prequalified
Date of acceptance:	27 Mar 2014
Appliance type:	E003
Product description:	Solar direct drive refrigerator/freezer TCW 40 SDD
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 40 SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	93:24
External dimensions length (mm)	1030.00	**External dimensions width (mm)**	780.00
External dimensions height (mm)	900.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Solar direct drive	**Lining**	Ice-lined
Energy Consumption During Freezing (kWh/24h)	0.6900	**Energy Consumption Cool Down (kWh/24h)**	0.6700
Energy Consumption Continuous Power (kWh/24h)	0.5700		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	36.000	**Refrigerator's gross volume (Litres)**	46.600
Autonomy (hrs:mn)	81:54	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	**Freezer net volume**	
Freezer's gross volume (Litres)	4.80	**Waterpack freezing capacity (Kg/24 hrs)**	1.89
Waterpack storage capacity (Litres)	3.60		

Comments	Prices include the solar generator system : G1=roof fixes; G2=roof adjustable. Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 or 10 years as the case may be. For more information and further conditions of warranty, please contact B Medical Systems Freezing capacity range: 5 kg/24h Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 25L - 60L Range waterpack storage capacity: 20

List of accessories	1 basket; 8 waterpacks 0.6 L; 8 waterpack holders; 2 keys; 1 brush; 1 pan for drain; documentation, 1 compass, lockable lid, 2 spacers
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No. 296.9702.09 1 No. E-BOX BD35K SOLAR - Part No. 296.9705.32 1 No. COLD CHAIN CONTROLLER 3-SEN - Part No. 296.9769.98 1 No. FAN PAPST #4312NNU 12V 4.3W 410MM - Part No. 292.9960.13 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.88	**Shipping weight (kg)**	126.00
Incoterms	EXW	**Price 1**	> 100 units: G1: 5930€ ; G2: 6529€
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14001:2015
Specification Reference	Applicable PQS specification: E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 13-024 V2		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TCW 2043 SDD**
IMD-PQS Code:	E003-043
Status:	Prequalified
Date of acceptance:	27 Mar 2014
Appliance type:	E003
Product description:	Solar direct drive refrigerator/freezer TCW2043SDD
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 2043 SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	79:00
External dimensions length (mm)	780.00	**External dimensions width (mm)**	1270.00
External dimensions height (mm)	910.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Solar direct drive	**Lining**	Ice-lined
Energy Consumption During Freezing (kWh/24h)	1.0500	**Energy Consumption Cool Down (kWh/24h)**	0.7900
Energy Consumption Continuous Power (kWh/24h)	0.7300		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	70.000	**Refrigerator's gross volume (Litres)**	79.000
Autonomy (hrs:mn)	73:54	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	**Freezer net volume**	
Freezer's gross volume (Litres)	42.00	**Waterpack freezing capacity (Kg/24 hrs)**	2.50
Waterpack storage capacity (Litres)	10.50		

Comments	Prices include the solar generator system : G1=roof fixes; G2=roof adjustable. Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 or 10 years as the case may be. For more information and further conditions of warranty, please contact B Medical Systems Freezing capacity range: 5 kg/24h Range of holdover time: 51 - 100 hou Range vaccine storage capacity: 60L - 90L Range waterpack storage capacity: 20

List of accessories	2 baskets; 16 waterpacks 0.6 L; 4 keys; documentation; 1 pan for drain. , 2 lockable lids, 2 spacers, 1 brush, 1 compass
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No.296.9702.09 1 No. E-BOX BD35K SOLAR - Part No. 296.9705.32 1 No. Electronic thermostat/controller (TCW DC Solar) - Part No. 292.2009.05 1 No. FAN PAPST #4312NNU 12V 4.3W 410MM - Part No. 292.9960.13 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.07	**Shipping weight (kg)**	166.00
Incoterms	EXW	**Price 1**	> 100 units: G1: 9740€ ; G2: 10936€
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 14001:2015; ISO 9001:2015
Specification Reference	Applicable PQS specification: E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 13-025 and WHO 16-009		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TCW 3043 SDD**
IMD-PQS Code:	E003-045
Status:	Prequalified
Date of acceptance:	09 Jan 2014
Appliance type:	E003
Product description:	Solar direct drive refrigerator TCW3043SDD
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 3043 SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	128:48
External dimensions length (mm)	780.00	**External dimensions width (mm)**	1270.00
External dimensions height (mm)	910.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Solar direct drive	**Lining**	Regular
Energy Consumption During Freezing (kWh/24h)	0.0000	**Energy Consumption Cool Down (kWh/24h)**	0.6800
Energy Consumption Continuous Power (kWh/24h)	0.6800		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	89.000	**Refrigerator's gross volume (Litres)**	111.000
Autonomy (hrs:mn)	116:41	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A

Comments	Prices include the solar generator system : G1=roof fixes; G2=roof adjustable. Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 or 10 years as the case may be. For more information and further conditions of warranty, please contact B Medical Systems Range of holdover time: 101 - 250 hours Range vaccine storage capacity: 90L - 150L
List of accessories	5 baskets; 2 keys; documentation; lockable lid; 2 spacers; 1 compass; 1 brush
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part no. 296.9702.09 1 No. Electronic thermostat/controller (TCW DC Solar) - Part No. 292.2009.05 1 No. E-box BD35K Solar - Part No. 296.9705.32 1 No. Fan (12V, 4.3W) - Part No.292.9960.13 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.07	**Shipping weight (kg)**	171.00
Incoterms	EXW	**Price 1**	>100 units: G1: 6955€ ; G2: 7552€
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015;ISO 14001:2015
Specification Reference	Applicable PQS specification: E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 13-026 V2/16-011		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VC150SDD**
IMD-PQS Code:	E003-048
Status:	Prequalified
Date of acceptance:	01 Jun 2015
Appliance type:	E003
Product description:	Solar Direct Drive Combined Refrigerator/Freezer
Manufacturer:	Dulas Ltd
Manufacturers Reference:	VC150SDD
Country of Manufacture:	United Kingdom
Address:	Unit 6, Beeding Close, Southern Cross Trading Estate, PO22 9TS, Bognor Regis United Kingdom of Great Britain and Northern Ireland
Telephone:	+44 (0)7833 297920
Email:	catherine.mclennan@dulas.org.uk
Website address:	http://www.dulassolar.org/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	83:42
External dimensions length (mm)	750.00	**External dimensions width (mm)**	1280.00
External dimensions height (mm)	980.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Solar direct drive	**Lining**	PCM
Energy Consumption During Freezing (kWh/24h)	0.9500	**Energy Consumption Cool Down (kWh/24h)**	0.9300
Energy Consumption Continuous Power (kWh/24h)	0.8800		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	102.000	**Refrigerator's gross volume (Litres)**	158.100
Autonomy (hrs:mn)	77:99	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	**Freezer net volume**	
Freezer's gross volume (Litres)	42.90	**Waterpack freezing capacity (Kg/24 hrs)**	2.04
Waterpack storage capacity (Litres)	8.10		

Comments	Dulas VC150SDD (solar direct drive) combined vaccine refrigerator and water-pack freezer. Integrated PCM internal lining used as part of Dulas's Freeze Free technology. Features include lockable handle, twin gasket seals, high strength metal hinges and heavy duty castors. Price includes plug and play solar array and mounting system, as well as solar cables, branch connectors, fixings and earthing kit (for increased protection against lightning strike). Selection of specialist tools supplied with the system to facilitate installation. Beyond RTMD integrated as standard with display, audible and visual alarm indicators, 120-day local data storage and scannable QR code for instant 30-day PDF reports. Optional remote temperature monitoring subscription service available via cellular network which provides real-time monitoring and reporting of cold chain assets in one easy-to-use cloud-based portal. Shipping weights and volumes are shown for refrigerator only. Details of solar system available upon request.
List of accessories	Supplied with 6 x refrigerator baskets, 2 x keys for the lockable handle, 1 x set of printed manuals ('user's manual', 'installation and technician's manual') available in a selection of languages. Price includes Berlinger Fridge-tag 2 E 30-day electronic temperature logger (E006/040) and complete solar system including all cables and connections necessary for installation in the field.
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 x Dulas SDD controller (for dual compressor) – Part No. 5532 1 x Lightning protection board – Part No. 5542 1 x Temperature probe (set) – Part No. SN4B15P1 & SN4B20P1 & SN4B25P1 1 x Compressor controller – Part No. 101N0420 1 x MCB fridge / freezer – Part No. 693-CBTWF0100C0 1 x Freezer on/off switch – Part No. E5025, E5026 & E5027 1 x Freezer fan – Part No. 89-4367.GN. 1 x Compressor BD35K – Part No. 101Z0211 Prices and other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.33	**Shipping weight (kg)**	199.00
Incoterms	EXW	**Price 1**	€6,450 EUR per unit including solar system
Year of base price	2025		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14000:2015
Specification Reference	Applicable PQS specification: E003/RF05.2 Applicable PQS VP(s): E003/RF05-VP.2		

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-14-148		

PRODUCT SITES

Organization name	Dulas Ltd
Address	Unit 6, Beeding Close, Southern Cross Trading Estate, PO22 9TS, Bognor Regis United Kingdom of Great Britain and Northern Ireland

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VC88SDD**
IMD-PQS Code:	E003-059
Status:	Prequalified
Date of acceptance:	23 Sep 2015
Appliance type:	E003
Product description:	Solar Direct Drive vaccine refrigerator
Manufacturer:	Dulas Ltd
Manufacturers Reference:	VC88SDD
Country of Manufacture:	United Kingdom
Address:	Unit 6, Beeding Close, Southern Cross Trading Estate, PO22 9TS, Bognor Regis United Kingdom of Great Britain and Northern Ireland
Telephone:	+44 (0)7833 297920
Email:	catherine.mclennan@dulas.org.uk
Website address:	http://www.dulassolar.org/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	91:39
External dimensions length (mm)	750.00	**External dimensions width (mm)**	1280.00
External dimensions height (mm)	980.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Solar direct drive	**Lining**	PCM
Energy Consumption Cool Down (kWh/24h)	0.5200	**Energy Consumption Continuous Power (kWh/24h)**	0.5100

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	88.000	**Refrigerator's gross volume (Litres)**	205.000
Autonomy (hrs:mn)	78:09	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A

Comments	Dulas VC88SDD (solar direct drive) vaccine refrigerator. Integrated PCM internal lining used as part of Dulas's Freeze Free technology. Features include lockable handle, twin gasket seals, high strength metal hinges and heavy duty castors. Price includes plug and play solar array and mounting system, as well as solar cables, connectors, fixings and earthing kit (for increased protection against lightning strike). Selection of specialist tools supplied with the system to facilitate installation. Beyond RTMD integrated as standard with display, audible and visual alarm indicators, 120-day local data storage and scannable QR code for instant 30-day PDF reports. Optional remote temperature monitoring subscription service available via cellular network which provides real-time monitoring and reporting of cold chain assets in one easy-to-use cloud-based portal. Shipping weights and volumes are shown for refrigerator only. Details of solar system available upon request.
List of accessories	Supplied with 4 x refrigerator baskets, 2 x keys for the lockable handle, 1 x set of printed manuals ('user's manual', 'installation and technician's manual') available in a selection of languages. Price includes Berlinger Fridge-tag 2 E 30-day electronic temperature logger (E006/040) and complete solar system including all cables and connections necessary for installation in the field.

List of spare parts, Reference & Price	IIncluded in the UNICEF Supply Division spare parts kit: 1 x Dulas SDD controller (for single compressor) – Part No. 5522 1 x Lightning protection board – Part No. 5542 1 x Temperature probe (set of 2) – Part No's. SN4B15P1 & SN4B20P1 1 x Compressor controller – Part No. 101N0420 1 x MCB fridge – Part No. 693-CBTWF060C0 1 x Compressor BD35K – Part No. 101Z0211 Prices and other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.33	**Shipping weight (kg)**	194.00
Incoterms	EXW	**Price 1**	€4,435 EUR per unit including solar system
Year of base price	2025		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14000:2015
Specification Reference	Applicable PQS specification: E003/RF05.2 Applicable PQS VP(s): E003/RF05-VP.2		

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-13-194-2		

PRODUCT SITES

Organization name	Dulas Ltd
Address	Unit 6, Beeding Close, Southern Cross Trading Estate, PO22 9TS, Bognor Regis United Kingdom of Great Britain and Northern Ireland

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**DW-25W147**
IMD-PQS Code:	E003-060
Status:	Prequalified
Date of acceptance:	11 Feb 2015
Appliance type:	E003
Product description:	Vaccine/waterpack freezer
Manufacturer:	Qingdao Aucma Global Medical Co.,Ltd.
Manufacturers Reference:	DW-25W147
Country of Manufacture:	China
Address:	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China China
Telephone:	+86 532 86763602
Email:	lishouda@aucma.com.cn
Website address:	www.aucmamedicalglobal.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Hold over time (hours:mn)	6:44	**External dimensions length (mm)**	880.00
External dimensions width (mm)	595.00	**External dimensions height (mm)**	790.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz	**Lining**	Regular
Energy Consumption Cool Down (kWh/24h)	2.8100	**Energy Consumption Continuous Power (kWh/24h)**	3.3100

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	96.000	**Refrigerant type**	R600a

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Rapid water-pack freezer	**Freezer's gross volume (Litres)**	147.00
Waterpack freezing capacity (Kg/24 hrs)	14.50	**Waterpack storage capacity (Litres)**	19.40

Comments	Freezer net volume: 50 - 110 L Freezing capacity range: 5 - 15 kg/24h Range of holdover time: 6 - 25 hours Range vaccine storage capacity: 90L - 150L Range waterpack storage capacity: 20
List of accessories	0
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor 1 No. Electronic thermostat 1 No. Fan Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.41	**Shipping weight (kg)**	45.00
Incoterms	EXW	**Price 1**	1-99 units, USD 450
Price 2	100-199 units, USD 430	**Year of base price**	2016

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E003/FZ01.2 Applicable PQS VP(s): E003/FZ01-VP.2

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-14-039		

PRODUCT SITES

Organization name	Qingdao Aucma Global Medical Co.,Ltd.
Address	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**DW-25W300**
IMD-PQS Code:	E003-061
Status:	Prequalified
Date of acceptance:	11 Feb 2015
Appliance type:	E003
Product description:	Vaccine/Waterpack freezer
Manufacturer:	Qingdao Aucma Global Medical Co.,Ltd.
Manufacturers Reference:	DW-25W300
Country of Manufacture:	China
Address:	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China China
Telephone:	+86 532 86763602
Email:	lishouda@aucma.com.cn
Website address:	www.aucmamedicalglobal.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Hold over time (hours:mn)	58:36	**External dimensions length (mm)**	945.00
External dimensions width (mm)	790.00	**External dimensions height (mm)**	1226.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz	**Lining**	Regular
Energy Consumption Cool Down (kWh/24h)	3.5400	**Energy Consumption Continuous Power (kWh/24h)**	3.3700

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	240.000	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	1.00		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Rapid water-pack freezer	**Freezer's gross volume (Litres)**	300.00
Waterpack freezing capacity (Kg/24 hrs)	38.30	**Waterpack storage capacity (Litres)**	44.30

Comments	Freezer net volume: 220 - 300 L Freezing capacity range: > 15 kg/24h Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 220L - 250L Range waterpack storage capacity: > 200
List of accessories	0
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor 1 No. Electronic thermostat 1 No. Fan Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.92	**Shipping weight (kg)**	75.00
Price 1	1-99 units, USD 540	**Price 2**	100-199 units, USD 520
Year of base price	2016		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/FZ01.2 Applicable PQS VP(s): E003/FZ01-VP.2		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-14-041		

PRODUCT SITES

Organization name	Qingdao Aucma Global Medical Co.,Ltd.
Address	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TCW 4000 AC**
IMD-PQS Code:	E003-066
Status:	Prequalified
Date of acceptance:	03 Aug 2016
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 4000 AC
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	77:18
External dimensions length (mm)	780.00	**External dimensions width (mm)**	1625.00
External dimensions height (mm)	915.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	220-240V 50/60Hz	**Lining**	Ice-lined
Energy Consumption Intermittent Power (kWh/24h)	0.7000	**Energy Consumption Cool Down (kWh/24h)**	1.2400
Energy Consumption Continuous Power (kWh/24h)	0.8500		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	240.000	**Refrigerator's gross volume (Litres)**	249.000
Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	1.00

Comments	Optionally available: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to all requirements of the WHO PQS E006/TR03.2 except for the LCD display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 years. For more information and further conditions of warranty, please contact B Medical Systems. Optionally available in 115V/60Hz. Delivered with a 30-day temperature recorder as standard Range of holdover time: 51 - 100 hours
List of accessories	6 baskets; 2 keys; 1 brush; 2 spacers; documentation
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (NLE9KTK 220-240V/50-60HZ) - Part No. 296.9701.63 1 No. Controller board - Part No.296.9769.93 1 No. Sensor NTC - Part No.296.9805.06 1 NO. FAN PAPST - Part No. 292.9960.16 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.39	**Shipping weight (kg)**	183.00
Incoterms	EXW	**Price 1**	>100 units incl. a 30DTR 4314 €
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 14001:2015; ISO 9001:2015
Specification Reference	Applicable PQS specification: E003/RF03.2 Applicable PQS VP(s): E003/RF03-VP.2		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 15-034 corr 2		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TCW 15R SDD**
IMD-PQS Code:	E003-067
Status:	Prequalified
Date of acceptance:	25 May 2016
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 15R SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	10.00
Freeze protection	Grade A	**External dimensions length (mm)**	730.00
External dimensions width (mm)	730.00	**External dimensions height (mm)**	950.00
Appliance tested at (°C)	43.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive
Lining	Ice-lined	**Energy Consumption Cool Down (kWh/24h)**	0.4300
Energy Consumption Continuous Power (kWh/24h)	0.4300		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	16.000	**Refrigerator's gross volume (Litres)**	26.500
Autonomy (hrs:mn)	81:52	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	Prices include the solar generator system : G1=roof fixes; G2=roof adjustable. Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 or 10 years. For more information and further conditions of warranty, please contact B Medical Systems. Range of holdover time: 26 - 50 hours Range vaccine storage capacity: Less than 25L
List of accessories	2 baskets; 2 keys; 1 brush; 2 spacers; documentation, lockable lid, 1 compass
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No. 296.9702.09 1 No. E-BOX (BD35K Solar) - Part No. 296.9705.32 1 No. Electronic thermostat/controller - Part No. 296.9768.62 1 No. Fan PAPST (12V, 4.3W 410mm) - Part No. 292.9960.13 1 No. Cold Chain Controller Display Board Part No. 296.9769.91 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.65	**Shipping weight (kg)**	94.00

Incoterms	EXW	**Price 1**	> 100 units: G1: 4882€; G2: 5219 €
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14001:2015
Specification Reference	Applicable PQS specification: E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO-16-002/16-003		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TCW 40R SDD**
IMD-PQS Code:	E003-068
Status:	Prequalified
Date of acceptance:	16 Mar 2016
Appliance type:	E003
Product description:	Solar Direct Drive refrigerator
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 40R SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	93:24
External dimensions length (mm)	780.00	**External dimensions width (mm)**	1030.00
External dimensions height (mm)	900.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Solar direct drive	**Lining**	Ice-lined
Energy Consumption Cool Down (kWh/24h)	0.6700	**Energy Consumption Continuous Power (kWh/24h)**	0.5700

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	36.000	**Refrigerator's gross volume (Litres)**	46.600
Autonomy (hrs:mn)	81:54	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	Prices include the solar generator system : G1=roof fixes; G2=roof adjustable. Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 or 10 years. For more information and further conditions of warranty, please contact B Medical Systems Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 25L - 60L
List of accessories	1 basket; 2 keys; 1 brush; 1 pan for drain; documentation, lockable lid, 2 spacers, 1 compass
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No. 296.9702.09 1 No. E-box (BD35K Solar) - Part No. 296.9705.32 1 No. Electronic thermostat/controller (3-SEN) - Part No. 296.9769.98 1 No. Fan PAPST (12V, 4.3W; 410mm) - Part No.292.9960.13 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.88	**Shipping weight (kg)**	129.00
Incoterms	EXW	**Price 1**	> 100 units: G1: 5576 €; G2: 5990 €

Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 14001:2015; ISO:9001:2015
Specification Reference	Applicable PQS specification: E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO-13-024 V2		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VLS 024 SDD**
IMD-PQS Code:	E003-069
Status:	Prequalified
Date of acceptance:	04 Aug 2016
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 024 SDD
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	91:17
External dimensions length (mm)	645.00	**External dimensions width (mm)**	555.00
External dimensions height (mm)	830.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive
Lining	Regular	**Energy Consumption Cool Down (kWh/24h)**	0.2500
Energy Consumption Continuous Power (kWh/24h)	0.2500		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	25.500	**Refrigerator's gross volume (Litres)**	36.000
Autonomy (hrs:mn)	81:7	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	Prices include Vestfrost Solutions SDD PV energy kit comprising of PV panels, roof adjustable bracket system, plug & play installation. Unit equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5” touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5” touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 25L - 60L
List of accessories	Vaccine storage top basket; Bottom grating; 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD 35K) Complete R600a Incl. ECU - Part No. 8-036510223 1 No. Thermostat - Part No. 702090044 1 No. Fan Set (KD1208PTB3) 12 V DC Part No. 7090486 1 No. Thermometer, solar, Part No.7020382-03 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.63	**Shipping weight (kg)**	75.00
Incoterms	FCA	**Price 1**	1-99 units: 2,804 €
Price 2	100-199 units:2598 €	**Year of base price**	2020

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14001:15
Specification Reference	Applicable PQS specification: E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-15-174		

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VLS 064 RF AC**
IMD-PQS Code:	E003-070
Status:	Prequalified
Date of acceptance:	04 Aug 2016
Appliance type:	E003
Product description:	Combined icelined refrigerator/waterpacks freezer
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 064 RF AC
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	10.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	45:00
External dimensions length (mm)	710.00	**External dimensions width (mm)**	725.00
External dimensions height (mm)	845.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
Lining	Ice-lined	**Energy Consumption During Freezing (kWh/24h)**	1.8000
Energy Consumption Cool Down (kWh/24h)	1.5100	**Energy Consumption Continuous Power (kWh/24h)**	0.6300

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	52.500	**Refrigerator's gross volume (Litres)**	75.000
Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	1.00

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	**Freezer's gross volume (Litres)**	5.10
Waterpack freezing capacity (Kg/24 hrs)	1.60		

Comments	Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable. Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc. VLS 064 RF AC imodel is supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection in line with E007/VS01-VP.5 For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5" touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Freezer net volume: 50 L Freezing capacity range: 5 kg/24h Range vaccine storage capacity: 60L - 90L Range waterpack storage capacity: 20 Waterpack storage capacity: 6 x 0.6L
List of accessories	1 x Vaccine storage top basket; 1 x Bottom grating; 1 x Voltage stabilizer; 1 x 30 day electronic temperature logger; 1 x Holder for temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 X Compressor (HXK80AT Complete) - Part No.8-036510018 1 X Thermostat Dixell XR60CH 230V - Part No. 702090038 1 X Thermostat Dixell XR30CH 230V - Part No. 702090039 1 X Thermometer, solar, Part No.7020382-03 1 X Voltage stabilizer controller Part No. 7020475 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.58	**Shipping weight (kg)**	98.00
Incoterms	FCA	**Price 1**	1-99 units: 1,295 €
Year of base price	2020		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008; ISO 14001
Specification Reference	Applicable PQS specification: E003/RF03.2 Applicable PQS VP(s): E003/RF03-VP.2		

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-15-181		

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TFW 3000 AC**
IMD-PQS Code:	E003-071
Status:	Prequalified
Date of acceptance:	25 May 2016
Appliance type:	E003
Product description:	Waterpacks freezer
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TFW 3000 AC
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**External dimensions length (mm)**	780.00
External dimensions width (mm)	1270.00	**External dimensions height (mm)**	910.00
Appliance tested at (°C)	43.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	220-240V 50/60Hz or 110-127/60Hz optional
Lining	Regular	**Energy Consumption Cool Down (kWh/24h)**	2.2000
Energy Consumption Continuous Power (kWh/24h)	2.1500		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerant type	R290	**Solar radiation ref period (kWh/m2/day)**	1.00

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Rapid water-pack freezer	**Freezer's gross volume (Litres)**	204.00
Waterpack freezing capacity (Kg/24 hrs)	32.00	**Waterpack storage capacity (Litres)**	97.20

Comments	This appliance is a waterpacks fast freezer - it uses propane as a coolant. Freezer net volume: 110 - 220 L Freezing capacity range: > 15 kg/24h Range waterpack storage capacity: 101 - 200 Waterpack freezing capacity: 54 x 0.6L Waterpack storage capacity: 162 x 0.6 L
List of accessories	6 baskets; 54 waterpacks 0.6 L; 2 keys; 1 brush; 2 spacers, documentation
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (FFU130UAX 220-240V/50-60HZ) - Part No. 296.9701.72 1 No. Controller board - Part No.296.9769.95 1 No. Sensor - Part No. 296.9804.78 1 No. Condenser fan (230/240V NET3T16ZVN001) - Part No. 296.9759.17 1 No. Start device - Part No. 296.9706.80 1 No. Start capacitor 1 NNo. Cold Chain Controller Display Board - Part No. 296.9769.91 1 No. Cover for Compressor - Part No. 296.9706.82 1 No. Motor Protection - Part No. 296.9706.81 Other parts are available as spares on request. .

PRICE AND SHIPPING

Shipping volume (m3)	1.07	**Shipping weight (kg)**	126.00
Incoterms	EXW	**Price 1**	> 100 units: 3394 €
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14001:2015
Specification Reference	Applicable PQS specification: E003/FZ01.2 Applicable PQS VP(s): E003/FZ01-VP.2		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 16-001		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VC225ILR**
IMD-PQS Code:	E003-072
Status:	Prequalified
Date of acceptance:	25 May 2016
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Dulas Ltd
Manufacturers Reference:	VC225ILR
Country of Manufacture:	United Kingdom
Address:	Unit 6, Beeding Close, Southern Cross Trading Estate, PO22 9TS, Bognor Regis United Kingdom of Great Britain and Northern Ireland
Telephone:	+44 (0)7833 297920
Email:	catherine.mclennan@dulas.org.uk
Website address:	http://www.dulassolar.org/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	94:00
External dimensions length (mm)	750.00	**External dimensions width (mm)**	1280.00
External dimensions height (mm)	980.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional	**Lining**	PCM
Energy Consumption Intermittent Power (kWh/24h)	0.6530	**Energy Consumption Cool Down (kWh/24h)**	0.7640
Energy Consumption Continuous Power (kWh/24h)	0.8030		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	184.000	**Refrigerator's gross volume (Litres)**	203.000
Refrigerant type	R600a		

Comments	Dulas VC225ILR (ice-lined refrigerator) mains-powered vaccine refrigerator. Integrated PCM internal lining used as part of Dulas's Freeze Free technology. Features include lockable handle, twin gasket seals, high strength metal hinges and heavy duty castors. Beyond RTMD integrated as standard with display, audible and visual alarm indicators, 120-day local data storage and scannable QR code for instant 30-day PDF reports. Optional remote temperature monitoring subscription service available via cellular network which provides real-time monitoring and reporting of cold chain assets in one easy-to-use cloud-based portal. Shipping weights and volumes are shown for refrigerator only.
List of accessories	Supplied with 6 x refrigerator baskets, 2 x keys for the lockable handle, 1 x set of printed manuals ('user's manual', 'installation and technician's manual') available in a selection of languages. Price includes PS-ILR-002XT A.C. to D.C. voltage regulator and power supply (WHO PQS extended range), cables and fixings. Price also includes Berlinger Fridge-tag 2 E 30-day electronic temperature logger (E006/040) and complete solar system including all cables and connections necessary for installation in the field.

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 x Dulas ILR controller (for single compressor) – Part No. 5522 1 x Lightning protection board – Part No. 5542 1 x Temperature probe (set of 2) – Part No's. SN4B15P1 & SN4B20P1 1 x Compressor controller – Part No. 101N0420 1 x MCB fridge – Part No. 693-CBTWF060C0 1 x Compressor BD35K – Part No. 101Z0211 Prices and other parts are available as spares on request

PRICE AND SHIPPING

Shipping volume (m3)	1.33	**Shipping weight (kg)**	194.00
Incoterms	EXW	**Price 1**	€4,575 EUR per unit including voltage stabilizer
Year of base price	2025		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14000:2015
Specification Reference	Applicable PQS specification: E003/RF03.2 Applicable PQS VP(s): E003/RF03-VP.2		

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-16-110		

PRODUCT SITES

Organization name	Dulas Ltd
Address	Unit 6, Beeding Close, Southern Cross Trading Estate, PO22 9TS, Bognor Regis United Kingdom of Great Britain and Northern Ireland

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TFW 40 SDD**
IMD-PQS Code:	E003-073
Status:	Prequalified
Date of acceptance:	26 May 2016
Appliance type:	E003
Product description:	Solar Direct Drive Waterpacks Freezer
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TFW 40 SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**External dimensions length (mm)**	780.00
External dimensions width (mm)	1030.00	**External dimensions height (mm)**	900.00
Appliance tested at (°C)	43.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive
Energy Consumption During Freezing (kWh/24h)	0.6400	**Energy Consumption Cool Down (kWh/24h)**	0.5900
Energy Consumption Continuous Power (kWh/24h)	0.5900		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Autonomy (hrs:mn)	5	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Rapid water-pack freezer	**Freezer's gross volume (Litres)**	64.00
Waterpack freezing capacity (Kg/24 hrs)	2.16	**Waterpack storage capacity (Litres)**	11.24

Comments	Prices include the solar system: Generator 1 = roof fixed; Generator 2 = roof adjustable Energy sources: nominal 12 V DC solar electric array. Minimum power 250 watts at solar radiation reference period 3.5 kWh/m2/day Freezer net volume: 50 - 110 L Range freezing capacity: 5 kg/24h Range waterpack storage capacity: 20 - 100L Waterpack storage capacity: 11.24 kg (20 Waterpacks)
List of accessories	8 waterpacks 0.6 L; 8 waterpacks holders; 2 keys; 1 brush; 2 spacers; documentation, lockable lid, 1 compass
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No.296.9702.09 1 No. E-box BD35K Solar - Part No. 296.9705.32 1 No. Electronic thermostat/controller - Part No.296.9769.92 1 No. Fan (12V, 4.3W) - Part No.292.9960.13 1 No. Cold Chain Controller Display Board - Part No. 296.9769.91 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.88	**Shipping weight (kg)**	119.00

Incoterms	EXW	**Price 1**	> 100 units: G1:5281 €; G2: 5620 €
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14001:2015
Specification Reference	Applicable PQS specification: E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO-15036 corr 1		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**HTCD 90 SDD**
IMD-PQS Code:	E003-074
Status:	Prequalified
Date of acceptance:	06 Jun 2016
Appliance type:	E003
Product description:	Solar direct drive refrigerator/freezer
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTCD 90 SDD
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	137
External dimensions length (mm)	1128.00	**External dimensions width (mm)**	875.00
External dimensions height (mm)	720.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive
Energy Consumption Cool Down (kWh/24h)	0.9700	**Energy Consumption Continuous Power (kWh/24h)**	0.9100

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	37.500	**Refrigerator's gross volume (Litres)**	58.000
Autonomy (hrs:mn)	114.9	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	**Freezer's gross volume (Litres)**	32.00
Waterpack freezing capacity (Kg/24 hrs)	2.43	**Waterpack storage capacity (Litres)**	12.00

Comments	Optional: Remote temperature monitoring device 180W x 4 or 360Wx 2 Solar Panel power Price includes 30 days temperature logger Freezer net volume: 50 L Freezing capacity range: 5 kg/24h Range of holdover time: 101 - 250 hours Range vaccine storage capacity: 25L - 60L Range waterpack storage capacity: 20
List of accessories	Baskets; manuals; keys
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 2 No. Display - Part No. 0274000357 2 No. Indicator - Part No. 0074000574 1 No. Fan Set - Part No. 0274000351 1 No. Compressor BD-35K - Part No. 0274000118A 1 No. Compressor controller (E-Box) - Part No. 0274000118FJ 1 No. Thermostat - Part No. 0274000352 1 No. Main Switch - Part No. 0274000354 1 No.USB charging port - Part No. 0274000389 1 No. Dry filter - Part No. 0074180001 1 No. Thermo sensor - Part No. 0274000358 1 No. Thermo sensor - Part No. 0274000357A 1 No. Thermo sensor - Part No. 0274000353 2 No. Sticker - Part No. 0270501015C Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.98	**Shipping weight (kg)**	113.00
Incoterms	FCA	**Price 1**	Price: USD 5526
Year of base price	2023		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001
Specification Reference	Applicable PQS specification: E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-16-153		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**HTC 40 SDD**
IMD-PQS Code:	E003-075
Status:	Prequalified
Date of acceptance:	06 Jun 2016
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTC 40 SDD
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	122
External dimensions length (mm)	788.00	**External dimensions width (mm)**	875.00
External dimensions height (mm)	720.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive
Energy Consumption Continuous Power (kWh/24h)	0.7100		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	22.500	**Refrigerator's gross volume (Litres)**	40.000
Autonomy (hrs:mn)	117	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A

Comments	Prices include solar system; 24V solar Panel; 180W x2 Or 360Wx1 Solar Panel power1. Display: Solar LED Temperature Display 2. 2 baskets 3. Optional: Remote temperature monitoring device Range of holdover time: 101 - 250 hours Range vaccine storage capacity: Less than 25L
List of accessories	2 baskets; manuals; keys
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Display - Part No. 0274000357 1 No. Indicator - Part No. 0074000574 1 No. Fan Set - Part No.0274000351 1 No. Compressor BD-35K - Part No. 0274000118A 1 No. Compressor controller (E-Box) - Part No.0274000118FJ 1 No. Thermostat - Part No. 0274000352 1 No. Main Switch - Part No. 0274000354 1 No. USB charging port - Part No. 0274000389 1 No. Dry filter Part - Part No. 0074180001 1 No. Thermo sensor - Part No. 0274000353 1 No. Thermo sensor - Part No. 0274000358 2 No. Sticker - Part No. 0270501015A Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.7	**Shipping weight (kg)**	82.00
Incoterms	FCA	**Price 1**	USD 2588

Year of base price	2016

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001
Specification Reference	Applicable PQS specification: E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-16-151		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**HTC 110 SDD**
IMD-PQS Code:	E003-076
Status:	Prequalified
Date of acceptance:	06 Jun 2016
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTC 110 SDD
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	106
External dimensions length (mm)	1128.00	**External dimensions width (mm)**	875.00
External dimensions height (mm)	720.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive
Energy Consumption Continuous Power (kWh/24h)	0.6100		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	59.000	**Refrigerator's gross volume (Litres)**	110.000
Autonomy (hrs:mn)	96:00	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A

Comments	Prices include solar system; 24V Solar Panel s, comments:Power of Solar Panel : Specification ref 180W x 2 or 360W x 1; 1. Display: Solar LED Temperature Display 2. 4 baskets 3. Optional: Remote temperature monitoring device Range of holdover time: 101 - 250 hours Range vaccine storage capacity: 25L - 60L
List of accessories	4 baskets; manuals; keys
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Display-0274000357 1 No. Indicator Part-0074000574 1 No. Fan Set Part No.0274000351 1 No. Compressor BD-35K?0274000118A? 1 No. Compressor controller (E-Box) Part-0274000118FJ 1 No. Thermostat-0274000352 1 No. Main Switch-0274000354 1 No. USB charging port-0274000389 1 No. Dry filter Part-0074180001 1 No. Thermo sensor-0274000353 1 No. Thermo sensor-0274000358 2 No. Sticker-0270501015A

PRICE AND SHIPPING

Shipping volume (m3)	0.98	**Shipping weight (kg)**	105.00
Incoterms	FCA	**Price 1**	USD 3010

Year of base price	2021		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001
Specification Reference	Applicable PQS specification: E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-16-152		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TCW15 SDD**
IMD-PQS Code:	E003-077
Status:	Prequalified
Date of acceptance:	13 Sep 2016
Appliance type:	E003
Product description:	Solar Direct Drive Refrigerator and Freezer
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW15 SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**External dimensions length (mm)**	730.00
External dimensions width (mm)	730.00	**External dimensions height (mm)**	950.00
Appliance tested at (°C)	43.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive
Lining	Ice-lined	**Energy Consumption During Freezing (kWh/24h)**	0.6900
Energy Consumption Intermittent Power (kWh/24h)	0.4900	**Energy Consumption Cool Down (kWh/24h)**	0.5000
Energy Consumption Continuous Power (kWh/24h)	0.5000		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	16.000	**Refrigerator's gross volume (Litres)**	26.500
Autonomy (hrs:mn)	84:00	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	**Freezer's gross volume (Litres)**	2.40
Waterpack freezing capacity (Kg/24 hrs)	1.97	**Waterpack storage capacity (Litres)**	2.40

Comments

Prices include the solar generator system : G1=roof fixes; G2=roof adjustable. Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 or 10 years as the case may be. For more information and further conditions of warranty, please contact B Medical Systems Freezer net volume: 50 L Freezing capacity range: 5 kg/24h Range of holdover time: 51 - 100 hours Range vaccine storage capacity:

List of accessories	2 baskets; 4 water-packs 0.6 L; 4 water-pack holders; 2 keys; 1 brush; 2 spacers; documentation; lockable lid; 1 compass
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No.296.9702.09 1 No. E-box BD35K Solar - Part No.296.9705.32 1 No. Cold Chain Controller - Part No.296.9769.97 1 No. Fan (12V, 4.3W) - Part No.292.9960.13 1 No. Cold Chain Controller Display Board - `Part No. 296.9769.91 1 No. Sensor Icelining - Part No. 296.9804.83 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.65	**Shipping weight (kg)**	95.00
Incoterms	EXW	**Price 1**	> 100 units: G1: 4923 €; G2: 5260 €
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14001:2015
Specification Reference	Applicable PQS specification: PQS/E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 16-014		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**CFD-50**
IMD-PQS Code:	E003-079
Status:	Prequalified
Date of acceptance:	11 Apr 2016
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Qingdao Aucma Global Medical Co.,Ltd.
Manufacturers Reference:	CFD-50
Country of Manufacture:	China
Address:	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China China
Telephone:	+86 532 86763602
Email:	lishouda@aucma.com.cn
Website address:	www.aucmamedicalglobal.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	10.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	120
External dimensions length (mm)	655.00	**External dimensions width (mm)**	545.00
External dimensions height (mm)	1588.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional;Electric Mains 115/60Hz
Lining	Ice-lined	**Energy Consumption Cool Down (kWh/24h)**	0.7700
Energy Consumption Continuous Power (kWh/24h)	0.5400		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	50.000	**Refrigerator's gross volume (Litres)**	68.000
Refrigerant type	R290		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A

Comments	The CFD-50 MetaFridgeTM provides safe vaccine storage for health facilities, even in locations that may experience unstable or minimal mains power and extreme ambient temperatures. The robust design includes an integrated voltage stabilizer that protects MetaFridgeTM from voltage spikes and brownouts that damage refrigerators. Extensively tested ColdSafeTM technology keeps vaccines cold through multi-day power outages with no risk of freezing. The onboard MetaFridgeTM information panel with integrated 30 DTR provides a range of alerts, including low remaining holdover time, to users and remote supervisors. • Requires only 3 hours of power per 24 hours to maintain full 5-day holdover capacity at 43 °C ambient. • Includes a built-in surge protection and voltage stabilizer with input range 82-290V. (PQS prequalified in E007/VS01.3) • Includes a built-in 30-day electronic refrigerator temperature logger that stores and displays temperature and alarm history. (PQS prequalified in E006/TR06.3). MetaFridge also displays remaining holdover time. • Includes an integrated connection to an optional remote monitoring module that transmits temperature data and other key performance metrics. (Hardware and data services package are PQS prequalified in E006/TR03.2.) Contact manufacturer for additional information.) • Unit requires the addition of 32 liters of clean drinking water during installation. More information on ColdSafe™ and other MetaFridge™ technologies is available at www.metafridge.com Range of holdover time: 101 - 250 hou Range vaccine storage capacity: 25L - 60L
List of accessories	Included in price: integrated PQS prequalified voltage stabilizer, integrated PQS prequalified 30 DTR, 2 vaccine storage trays; 3 wire shelves; 2 sets of locks & keys; 1 funnel; documentation Optional: additional vaccine trays, remote monitoring module and data services package
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor 1 No. DC fan 1 No. Transformer 1 No. Electronic control unit Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.77	**Shipping weight (kg)**	108.00
Incoterms	EXW	**Price 1**	1 – 99 units: 1,400USD
Price 2	100 or more units: 1,300USD	**Year of base price**	2016

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008; ISO 14001; OHSAS 18001
Specification Reference	Applicable PQS specification: E003/RF03.2 Applicable PQS VP(s): E003/RF03-VP.2		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-16-217		

PRODUCT SITES

Organization name	Qingdao Aucma Global Medical Co.,Ltd.
Address	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VC60SDD**
IMD-PQS Code:	E003-084
Status:	Prequalified
Date of acceptance:	16 Jan 2017
Appliance type:	E003
Product description:	Solar Direct Drive refrigerator
Manufacturer:	Dulas Ltd
Manufacturers Reference:	VC60SDD
Country of Manufacture:	United Kingdom
Address:	Unit 6, Beeding Close, Southern Cross Trading Estate, PO22 9TS, Bognor Regis United Kingdom of Great Britain and Northern Ireland
Telephone:	+44 (0)7833 297920
Email:	catherine.mclennan@dulas.org.uk
Website address:	http://www.dulassolar.org/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	94:11
External dimensions length (mm)	750.00	**External dimensions width (mm)**	1280.00
External dimensions height (mm)	980.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Solar direct drive	**Lining**	PCM
Energy Consumption During Freezing (kWh/24h)	0.9500	**Energy Consumption Intermittent Power (kWh/24h)**	0.7800
Energy Consumption Cool Down (kWh/24h)	0.8000		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	57.000	**Refrigerator's gross volume (Litres)**	124.000
Autonomy (hrs:mn)	82:48	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	**Freezer's gross volume (Litres)**	24.00
Waterpack freezing capacity (Kg/24 hrs)	2.40	**Waterpack storage capacity (Litres)**	13.80

Comments	Dulas VC60SDD (solar direct drive) combined vaccine refrigerator and water-pack freezer. Integrated PCM internal lining used as part of Dulas's Freeze Free technology. Features include lockable handle, twin gasket seals, high strength metal hinges and heavy duty castors. Price includes plug and play solar array and mounting system, as well as solar cables, branch connectors, fixings and earthing kit (for increased protection against lightning strike). Selection of specialist tools supplied with the system to facilitate installation. Beyond RTMD integrated as standard with display, audible and visual alarm indicators, 120-day local data storage and scannable QR code for instant 30-day PDF reports. Optional remote temperature monitoring subscription service available via cellular network which provides real-time monitoring and reporting of cold chain assets in one easy-to-use cloud-based portal. Shipping weights and volumes are shown for refrigerator only. Details of solar system available upon request. Waterpack freezing capacity: 2.4kg or 23 x 0.6L packs Waterpack storage capacity 13.8kg or 23 x 0.6L packs
List of accessories	Supplied with 4 x refrigerator baskets, 2 x keys for the lockable handle, 1 x set of printed manuals ('user's manual', 'installation and technician's manual') available in a selection of languages. Price includes Berlinger Fridge-tag 2 E 30-day electronic temperature logger (E006/040) and complete solar system including all cables and connections necessary for installation in the field.
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 x Dulas SDD controller (for dual compressor) – Part No. 5532 1 x Lightning protection board – Part No. 5542 1 x Temperature probe (set) – Part No. SN4B15P1 & SN4B20P1 & SN4B25P1 1 x Compressor controller – Part No. 101N0420 1 x MCB fridge / freezer – Part No. 693-CBTWF0100C0 1 x Freezer on/off switch – Part No. E5025, E5026 & E5027 1 x Freezer fan – Part No. 89-4367.GN. 1 x Compressor BD35K – Part No. 101Z0211 Prices and other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.33	**Shipping weight (kg)**	199.00
Incoterms	EXW	**Price 1**	€ 5,225.00 per unit including solar system
Year of base price	2025		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14001:2015
Specification Reference	Applicable PQS specification: PQS/E003/RF05.4 Applicable PQS VP(s): E003/RF05-VP.4		

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-16-164		

PRODUCT SITES

Organization name	Dulas Ltd
Address	Unit 6, Beeding Close, Southern Cross Trading Estate, PO22 9TS, Bognor Regis United Kingdom of Great Britain and Northern Ireland

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**HTD-40**
IMD-PQS Code:	E003-086
Status:	Prequalified
Date of acceptance:	06 Sep 2017
Appliance type:	E003
Product description:	Solar Direct Drive Waterpacks Freezer
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTD-40
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Hold over time (hours:mn)**	120
External dimensions length (mm)	788.00	**External dimensions width (mm)**	875.00
External dimensions height (mm)	720.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive
Lining	Regular	**Energy Consumption Cool Down (kWh/24h)**	0.4950
Energy Consumption Continuous Power (kWh/24h)	0.4550		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Autonomy (hrs:mn)	120	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	**Freezer's gross volume (Litres)**	48.00
Waterpack freezing capacity (Kg/24 hrs)	2.40	**Waterpack storage capacity (Litres)**	20.00

Comments	1. Display: Solar LED Temperature Display 2. 2 baskets 3. Power of Solar Panel: 180W x2 Or 360Wx1 Solar Panel power; 4. Optional: Remote temperature monitoring device Freezer net volume: 50 L Freezing capacity range: 5 kg/24h Range of holdover time: 101 - 250 hours Range waterpack storage capacity: 20 - 100
List of accessories	1.Instructions 2.Key 3.Handle component 4.Defrosting shovel 5.Waterpack holder 6.0.4L Water-pack
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Display - Part No. 0274000357 1 No. Indicator Part - Part No. 0074000574 1 No. Fan Set - Part No.0274000351 1 No. Compressor BD-35 - Part No. 0274000118A 1 No. Compressor controller (E-Box)- Part No. 0274000118FJ 1 No. Thermostat - Part No. 0274000352 1 No. Main Switch - Part No. 0274000354 1 No. USB charging port - Part No. 0274000389 1 No. Dry filter - Part No. 0074180001 1 No. Thermo sensor - Part No. 0274000357A 2 No. Sticker - Part No. 0270501015B 1 No. Capacitor - Part No. 0274000393 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.7	**Shipping weight (kg)**	85.00
Incoterms	FCA	**Price 1**	USD 2809
Year of base price	2021		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2008; ISO 14001
Specification Reference	Applicable PQS specification: E003/FZ03.1 Applicable PQS VP(s): E003/FZ03-VP.1		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-16-600		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**HBC-260**
IMD-PQS Code:	E003-087
Status:	Prequalified
Date of acceptance:	06 Sep 2017
Appliance type:	E003
Product description:	Ice-lined Refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBC-260
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	62:14
External dimensions length (mm)	717.00	**External dimensions width (mm)**	1647.00
External dimensions height (mm)	940.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Electric Mains 220-240V 50/60Hz
Lining	Ice-lined	**Energy Consumption Intermittent Power (kWh/24h)**	1.5700
Energy Consumption Cool Down (kWh/24h)	1.4700	**Energy Consumption Continuous Power (kWh/24h)**	1.6200

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	211.000	**Refrigerator's gross volume (Litres)**	260.000
Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	1.00

Comments	1. Display: Solar LED Temperature Display 2. 5 baskets 3. Low power consumption 4. Optional: Remote temperature monitoring device 5. Includes voltage stabliser Price does not include voltage regulator Range of holdover time: 26 - 50 hours Range vaccine storage capacity: 150L - 220L
List of accessories	Accessory?1. Instructions 2. Key 3. Handle component 4. Basket 5. Data logger
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Dry filter - Part No. 0074180001 2 No. overload protector - Part No. 0274300008B 1 No. Switch - Part No. 0075050003 1 No. Thermo sensor - Part No. 0274000353A 1 No. Thermo sensor - Part No. 0274000358 1 No. Thermostat with sensor - Part No. 0274000352A 1 No. Compressor - Part No. 0060705994A 1 No. Fan - Part No. 0074000172 2 No. Indicator - Part No. 0075050018 2 No. Displayer - Part No. 0274000357 1 No. Sticker - Part No. 0270501015A Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.43	**Shipping weight (kg)**	200.00
Price 1	USD 1283	**Year of base price**	2021

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001
Specification Reference	Applicable PQS specification: E003/RF03.2 Applicable PQS VP(s): E003/RF03-VP.2		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-17-165		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**HBC-150**
IMD-PQS Code:	E003-088
Status:	Prequalified
Date of acceptance:	06 Sep 2017
Appliance type:	E003
Product description:	Ice-lined Refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBC-150
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Minimum rated ambient temperature (°C)	5.00	**Freeze protection**	Grade A
Hold over time (hours:mn)	60:50	**External dimensions length (mm)**	717.00
External dimensions width (mm)	1128.00	**External dimensions height (mm)**	872.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz	**Lining**	PCM
Energy Consumption Intermittent Power (kWh/24h)	0.6700	**Energy Consumption Cool Down (kWh/24h)**	0.6200
Energy Consumption Continuous Power (kWh/24h)	0.5400		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	122.000	**Refrigerator's gross volume (Litres)**	150.000
Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	1.00

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type		N/A	

Comments	1. Display: Solar LED Temperature Display 2. 3 baskets 3. Low power consumption 4. Optional: Remote temperature monitoring device Price does not include voltage regulator Range vaccine storage capacity: 90L - 150L
List of accessories	Accessory?1. Instructions 2. Key 3. Handle component 4. Basket 5. Data logger
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Dry filter - Part No. 0074180001 2 No. overload protector - Part No. 0274300008B 1 No. Switch - Part No. 0075050003 1 No. Thermo sensor - Part No. 0274000353A 1 No. Thermo sensor - Part No. 0274000358 1 No. Thermostat with sensor - Part No. 0274000352A 1 No. Compressor - Part No. 0274000418 1 No. Fan - Part No. 0074000172 2 No. Indicator - Part No. 0075050018 2 No. Displayer - Part No. 0274000357 1 No. Sticker - Part No. 0270501015A Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.99	**Shipping weight (kg)**	140.00

Price 1	USD 999	**Year of base price**	2021

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001
Specification Reference	Applicable PQS specification: PQS/E003/RF03.2 Applicable PQS VP(s): E003/RF03-VP.2		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**HBC-80**
IMD-PQS Code:	E003-089
Status:	Prequalified
Date of acceptance:	06 Sep 2017
Appliance type:	E003
Product description:	Ice-lined Refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBC-80
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	59:51
External dimensions length (mm)	717.00	**External dimensions width (mm)**	788.00
External dimensions height (mm)	872.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Electric Mains 220-240V 50/60Hz
Lining	Ice-lined	**Energy Consumption Intermittent Power (kWh/24h)**	0.7300
Energy Consumption Cool Down (kWh/24h)	0.6300	**Energy Consumption Continuous Power (kWh/24h)**	0.5700

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	61.000	**Refrigerator's gross volume (Litres)**	80.000
Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	1.00

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A

Comments	1. Display: Solar LED Temperature Display 2. Low power consumption 3. Optional: Remote temperature monitoring device 4. Price not include: Voltage regulator Range of holdover time: 26 - 50 hours Range vaccine storage capacity: 60L - 90L
List of accessories	1. Instructions 2. Key 3. Handle component 4. Basket 5. Data logger
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Dry filter - Part No. 0074180001 2 No. overload protector - Part No. 0274300008B 1 No. Switch - Part No. 0075050003 1 No. Thermo sensor - Part No. 0274000353A 1 No. Thermo sensor - Part No. 0274000358 1 No. Thermostat with sensor - Part No. 0274000352A 1 No. Compressor - Part No. 0274000418 1 No. Fan - Part No. 0074000172 2 No. Indicator - Part No. 0075050018 2 No. Displayer - Part No. 0274000357 1 No. Sticker - Part No. 0270501015A Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.71	**Shipping weight (kg)**	110.00

Price 1	1-100units USD 860	**Price 2**	>100units USD 788
Year of base price	2021		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001
Specification Reference	Applicable PQS specification: PQS/E003/RF03.3 Applicable PQS VP(s): E003/RF03-VP.3		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-17-166		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**Ultra 16 SDD**
IMD-PQS Code:	E003-090
Status:	Prequalified
Date of acceptance:	10 Apr 2017
Appliance type:	E003
Product description:	Solar Direct Drive Refrigerator
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	Ultra 16 SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**External dimensions length (mm)**	840.00
External dimensions width (mm)	780.00	**External dimensions height (mm)**	1120.00
Appliance tested at (°C)	43.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive
Lining	Ice-lined	**Energy Consumption Intermittent Power (kWh/24h)**	0.3400
Energy Consumption Cool Down (kWh/24h)	0.3800	**Energy Consumption Continuous Power (kWh/24h)**	0.3600

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	16.000	**Refrigerator's gross volume (Litres)**	24.500
Autonomy (hrs:mn)	477:56	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	Prices include the solar generator system : G1=roof fixes; G2=roof adjustable. Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 or 10 years as the case may be. For more information and further conditions of warranty, please contact B Medical Systems Range vaccine storage capacity: 25L
List of accessories	1 compass; 2 baskets; 2+3 keys; 1 brush; documentation; lockable lid; lockable compartment
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No. 296.9702.09 1 No. Electronic Control Unit (BD35K Solar) - Part No. 296.9705.32 1 No. Cold Chain Controller Display Board - Part No. 296.9769.91 1 No. Fan (12-28 V, 5.6W) - Part No. 292.9960.09 1 No. Cold Chain Controller Ultra 16SDD - Part No. 296.9769.96 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.04	**Shipping weight (kg)**	196.00

Incoterms	EXW	**Price 1**	>100 units: G1: 6587 €; G2: 7037 €
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 14001:2015; ISO 9001:2015
Specification Reference	Applicable PQS specification: E003/RF05.4 Applicable PQS VP(s): E003/RF05-VP.4		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 17-002 cor_1/17-007		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VLS 026 RF SDD**
IMD-PQS Code:	E003-091
Status:	Prequalified
Date of acceptance:	12 Aug 2017
Appliance type:	E003
Product description:	Solar Direct Drive Refrigerator and Freezer
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 026 RF SDD
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**External dimensions length (mm)**	650.00
External dimensions width (mm)	1110.00	**External dimensions height (mm)**	880.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Solar direct drive	**Lining**	Ice-lined
Energy Consumption During Freezing (kWh/24h)	1.0800	**Energy Consumption Intermittent Power (kWh/24h)**	1.0200
Energy Consumption Cool Down (kWh/24h)	1.0600		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	20.000	**Refrigerator's gross volume (Litres)**	35.000
Autonomy (hrs:mn)	73:22	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer's gross volume (Litres)	34.30	**Waterpack freezing capacity (Kg/24 hrs)**	1.80
Waterpack storage capacity (Litres)	17.40		

Comments	Prices include 2 x Vestfrost Solutions SDD PV energy kit comprising of PV panels, roof adjustable bracket system, plug & play installation. Unit equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5” touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu Freezer net volume: 50 L Freezing capacity range: 5 kg/24h Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 25L - 60L Range waterpack storage capacity: 20L
List of accessories	Vaccine storage top basket; Bottom grating; 30 day electronic temperature logger; Self regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K 101Z0211) 10-45 V - Part No. 8-036510223 1 No. Thermostat (Dixell) - Part No. 7095322 1 No. THERMOSTAT K-54-L2021 Ranco - Part No. 6520038 1 No. Electronic Control 1 Unit - Part No.6520845 (included in the compressor) 1 No. Fan JamiconKF1225B1HR - Part No. 7030823 1 No. Fan JF0825H1H-B Freezer - Part No. 7090403 1 No. Thermometer - Part No. 7020392-03 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.92	**Shipping weight (kg)**	141.00
Incoterms	EXW	**Price 1**	1-99 units - 4,751 €
Price 2	100-199 units - 4,482 €	**Year of base price**	2020

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/RF05.4 Applicable PQS VP(s): E003/RF05-VP.4		

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-17-118		

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VLS 056 RF SDD**
IMD-PQS Code:	E003-092
Status:	Prequalified
Date of acceptance:	12 Aug 2017
Appliance type:	E003
Product description:	Solar Direct Drive Refrigerator and Freezer
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 056 RF SDD
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**External dimensions length (mm)**	650.00
External dimensions width (mm)	1110.00	**External dimensions height (mm)**	880.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Solar direct drive	**Lining**	Ice-lined
Energy Consumption During Freezing (kWh/24h)	1.1500	**Energy Consumption Intermittent Power (kWh/24h)**	1.0500
Energy Consumption Cool Down (kWh/24h)	1.1200		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	36.000	**Refrigerator's gross volume (Litres)**	49.300
Autonomy (hrs:mn)	72:00	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer's gross volume (Litres)	34.30	**Waterpack freezing capacity (Kg/24 hrs)**	1.80

Comments

Prices include 2 x Vestfrost Solutions SDD PV energy kit comprising of PV panels, roof adjustable bracket system, plug & play installation. Unit equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. http://apps.who.int/immunization_standards/vaccine_quality/IMDPQS_catalogue/PdfCatalogue.aspx?cat_type=device Spare part to be revised accordingly 1 No. Thermostat (Dixell) - Part No. 7095326 to be replaced by 1 No. Thermostat - Part No. 702090045 1 No. Fan JF0825H1H-B Freezer - Part No. 7090403 to be replaced by 1 No. Fan Fan Jamicon 3310 KF1225-B1HR-R – Part No. 7030126 Comments to be added: As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5” touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Freezer net volume: 50 L Freezing capacity range: 5 kg/24h Range of holdover time: 51 - 100 hou Range vaccine storage capacity: 25L - 60L Range waterpack storage capacity: 20 Waterpack storage capacity: 29 x 0.6L Waterpacks

List of accessories	Vaccine storage top basket; Bottom grating; 30 day electronic temperature logger; ; Self regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K 101Z0211) 10-45 V - Part No. 8-036510223 1 No. Thermostat (Dixell) - Part No. 702090045 1 No. TERMOSTAT K-54-L2021 Ranco - Part No. 6520038 1 No. Electronic Control 1 Unit - Part No.6520845 (included in the compressor) 1 No. Fan Fan Jamicon 3310 KF1225-B1HR-R – Part No. 7030126 1 No. Thermometer - Part No. 7020392-03 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.92	**Shipping weight (kg)**	140.00
Incoterms	EXW	**Price 1**	1-99 units - 5,051 €
Price 2	100-199 units: 4,762 €	**Year of base price**	2020

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: PQS/E003/RF05.4 Applicable PQS VP(s): E003/RF05-VP.4		

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-17-119		

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TCW 4000 SDD**
IMD-PQS Code:	E003-093
Status:	Prequalified
Date of acceptance:	13 Jun 2018
Appliance type:	E003
Product description:	Solar Direct Drive Refrigerator
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 4000 SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	91:16
External dimensions length (mm)	780.00	**External dimensions width (mm)**	1625.00
External dimensions height (mm)	915.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Solar direct drive	**Lining**	Ice-lined
Energy Consumption Intermittent Power (kWh/24h)	0.8300	**Energy Consumption Continuous Power (kWh/24h)**	0.8400

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	220.000	**Refrigerator's gross volume (Litres)**	249.000
Autonomy (hrs:mn)	91:16	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	Prices include the solar generator system : G1=roof fixes; G2=roof adjustable. Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 or 10 years as the case may be. For more information and further conditions of warranty, please contact B Medical Systems Range of holdover time: 51 - 100 hours
List of accessories	6 baskets; lockable lid; 2 spacers; 1 brush; documentation; 1 compass; 2 keys
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No. 296.9702.09 1 No. Electronic Control Unit (E-box) - Part No. 296.9705.32 1 No. Electronic thermostat/controller - Part No. 296.9768.63 1 No. Fan (12V, 5.0W) - Part No. 292.9960.11 1 No. Drier - Part No. 296.0945.04 1 No. Controller display board - Part No. 296.9769.91 1 No. Sensor - Part No. 296.9805.06 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.39	**Shipping weight (kg)**	188.00

Incoterms	EXW	**Price 1**	> 100 units: G1: 7433 EUR, G2: 8114 EUR
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 14001:2015; ISO 9001:2015
Specification Reference	Applicable PQS specification: E003/RF05.4 Applicable PQS VP(s): E003/RF05-VP.4		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 17-005		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**HBCD-90**
IMD-PQS Code:	E003-097
Status:	Prequalified
Date of acceptance:	16 Oct 2018
Appliance type:	E003
Product description:	Combined Refrigerator and waterpack freezer
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBCD-90
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	63:48
External dimensions length (mm)	717.00	**External dimensions width (mm)**	1128.00
External dimensions height (mm)	872.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Electric Mains 220-240V 50/60Hz
Lining	PCM	**Energy Consumption During Freezing (kWh/24h)**	0.9700
Energy Consumption Intermittent Power (kWh/24h)	0.5700	**Energy Consumption Cool Down (kWh/24h)**	0.6600
Energy Consumption Continuous Power (kWh/24h)	0.7000		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	30.000	**Refrigerator's gross volume (Litres)**	42.000
Refrigerant type	R600a		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Rapid water-pack freezer	**Freezer's gross volume (Litres)**	32.00
Waterpack freezing capacity (Kg/24 hrs)	4.00	**Waterpack storage capacity (Litres)**	16.00

Comments	Optional: Remote temperature monitoring Price not include: Voltage regulator Freezer net volume: 50 L Range of holdover time: 51 - 100 hours
List of accessories	"Keys 2 Handle attachment 1 Refiller 1 Corrosion inhibitors 1 Defroster spade 1"
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Dry filter - Part No. 0074180001 2 No. overload protector - Part No. 0274300008B 1 No. Switch - Part No. 0075050003 1 No. Thermo sensor - Part No. 0274000353A 1 No. Thermo sensor - Part No. 0274000358 2 No. Sticker - Part No. 0270501015C 1 No. Thermostat - Part No. 0274000352A 1 No. Compressor - Part No. 0274000418 1 No. Fan - Part No. 0074000172 2 No. Indicator - Part No. 0075050018 2 No. Displayer - Part No. 0274000357 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.99	**Shipping weight (kg)**	135.00
Incoterms	FCA	**Price 1**	USD 1575
Year of base price	2021		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/RF03.4 Applicable PQS VP(s): E003/RF03-VP.4		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-18-448		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**CFD-50 SDD**
IMD-PQS Code:	E003-098
Status:	Prequalified
Date of acceptance:	19 Oct 2018
Appliance type:	E003
Product description:	Solar Direct Drive Refrigerator
Manufacturer:	Qingdao Aucma Global Medical Co.,Ltd.
Manufacturers Reference:	CFD-50 SDD
Country of Manufacture:	China
Address:	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China China
Telephone:	+86 532 86763602
Email:	lishouda@aucma.com.cn
Website address:	www.aucmamedicalglobal.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Freeze protection**	Grade A
External dimensions length (mm)	655.00	**External dimensions width (mm)**	545.00
External dimensions height (mm)	1588.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive;Electric Mains 115/60Hz;Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
Lining	Regular	**Energy Consumption Cool Down (kWh/24h)**	0.7750
Energy Consumption Continuous Power (kWh/24h)	0.7180		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	50.000	**Refrigerator's gross volume (Litres)**	68.000
Autonomy (hrs:mn)	120	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A

Comments	"The CFD-50 SDD MetaFridge provides safe, solar-powered vaccine storage for health facilities that have minimal or no mains power, and extreme ambient temperatures. Extensively tested ColdSafe™ thermosyphon technology keeps vaccines cold with no risk of freezing through 5+ day periods with inadequate sunlight. MetaFridge patented technology is licensed for manufacture to Aucma. • Included 3x100W PV modules and universal (roof, ground, pole) PV mounting rack with 20m wiring and 1.5m ground rod. • Included PQS approved energy harvesting outputs with 12V (2A), 2x5V USB (1A), and 3-18V (8A) defined load output options • Integrated 30-day electronic refrigerator temperature logger stores and displays temperature, alarm history and remaining autonomy/holdover time. (PQS prequalified in E006/TR06.3). • Optional remote monitoring module relays key performance metrics to remote users. (Hardware and data services package are PQS prequalified in E006/TR03.2.) Contact manufacturer for additional information. • Includes integrated AC input with voltage range of 90-290V and surge, under, and over voltage protection. Solar power is prioritized if both Solar and AC are connected. • Unit requires the addition of 32 liters of clean water during installation. More information on ColdSafe and other Meta-Fridge technologies is available at www.metafridge.com"
List of accessories	Universal solar panel mounting kit for ground, pole or roof with required tools and instructions for assembly (pole not included); grounding kit; integrated PQS prequalified 30 DTR; integrated energy harvest control (EHC) module; 2 vaccine storage trays; 3 wire shelves; 2 sets of locks & keys; 1 funnel; documentation;
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor 1 No. DC fan 1 No. Electronic control unit Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.78	**Shipping weight (kg)**	95.00
Incoterms	EXW	**Price 1**	1 – 99 units: 3200 USD
Price 2	100 or more units: 3100 USD	**Year of base price**	2018

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/RF05.5 Applicable PQS VP(s): E003/RF05-VP.4		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-18-430		

PRODUCT SITES

Organization name	Qingdao Aucma Global Medical Co.,Ltd.
Address	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VFS 048 SDD**
IMD-PQS Code:	E003-099
Status:	Prequalified
Date of acceptance:	23 Nov 2018
Appliance type:	E003
Product description:	Solar Direct Drive Waterpacks Freezer
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VFS 048 SDD
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Minimum rated ambient temperature (°C)	5.00	**External dimensions length (mm)**	650.00
External dimensions width (mm)	555.00	**External dimensions height (mm)**	850.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	3.50

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer's gross volume (Litres)	34.30	**Waterpack freezing capacity (Kg/24 hrs)**	1.60
Waterpack storage capacity (Litres)	17.40		

Comments	Prices include the solar energy system consisting of 4x90Wp, roof adjustable, plug & play Energy requirements: 12V DC solar electric array. 360W radiation reference period 3.5kWh/m2/day. Stated shipping volume and weight, incl. complete Solar Energy System Freezer net volume: 50 L Range waterpack storage capacity: 20 - 100L Waterpack freezing capacity: 1.6 kg/24 h Waterpack storage capacity: 29 X0.6 L
List of accessories	Self-regulating temperature control. Electronic temperature reading. Locking lid + keys. Manual in 6 languages. Plywood packing
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor -1 10-45 V - Part No. 8-036510223 1 No. Thermostat (K-54-L2021 Ranco) - Part No. 6520038 1 No Electronic control unit - Part No. 6520845 (incl. in compressor) 1 No. Fan - Part No. 7030823 1 No. Thermometer - Part No. 7020287-03 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.42	**Shipping weight (kg)**	167.00
Incoterms	EXW	**Price 1**	1-99 units: 2.635€
Year of base price	2018		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001

Specification Reference	Applicable PQS specification: E003/FZ03.1 Applicable PQS VP(s): E003/FZ03-VP.1

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-17-118		

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TCW 40R AC**
IMD-PQS Code:	E003-100
Status:	Prequalified
Date of acceptance:	02 Jan 2019
Appliance type:	E003
Product description:	Ice-lined Refrigerator
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 40R AC
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	110
External dimensions length (mm)	1022.00	**External dimensions width (mm)**	778.00
External dimensions height (mm)	888.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	220-240V 50/60Hz	**Lining**	Ice-lined
Energy Consumption Intermittent Power (kWh/24h)	0.5900	**Energy Consumption Cool Down (kWh/24h)**	0.7600
Energy Consumption Continuous Power (kWh/24h)	0.5100		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	36.000	**Refrigerator's gross volume (Litres)**	456.000
Refrigerant type	R600a		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Waterpack freezing capacity (Kg/24 hrs)	0.00	**Waterpack storage capacity (Litres)**	0.00

Comments	Comments: Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 5 years. For more information and further conditions of warranty, please contact B Medical Systems. Bmedical fully integrated automatic voltage stabilization solution, which operates the ILR for any voltage in between 90VAC and 290VAC. It protects the ILR from over and under voltage as well as from surges and spikes required by PQS for AVS.
List of accessories	1 basket 2 keys 1 brush 2 spacers Documentation Lockable lid 1 travel adapter 1 US Nema 1-15 / 5-15 adapter

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No. 296.9702.09 1 No. Electronic Control Unit (BD35K Solar) - Part No. 296.9705.32 1 No. Main board 296.9768.66 1 No. Fan (12V, 4.3W) - Part No. 292.9960.13 1 No. Cold Chain Controller Display Board - Part No. 296.9769.91 1 No. Fuse 15A - Part No. 296.9243.15 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.88	**Shipping weight (kg)**	126.00
Incoterms	EXW	**Price 1**	>100 units: €3011
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015, ISO 14001:2015
Specification Reference	Applicable PQS specification: E003/RF03.4 Applicable PQS VP(s): E003/RF03_VP.4		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 18-002		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TCW 80 AC**
IMD-PQS Code:	E003-101
Status:	Prequalified
Date of acceptance:	02 Jan 2019
Appliance type:	E003
Product description:	Ice-lined Refrigerator
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 80 AC
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	72:09
External dimensions length (mm)	783.00	**External dimensions width (mm)**	1020.00
External dimensions height (mm)	892.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	110-240V, 50/60Hz	**Lining**	Ice-lined
Energy Consumption Intermittent Power (kWh/24h)	0.5900	**Energy Consumption Cool Down (kWh/24h)**	0.6000
Energy Consumption Continuous Power (kWh/24h)	0.4700		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	81.000	**Refrigerator's gross volume (Litres)**	83.400
Refrigerant type	R600a		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Waterpack freezing capacity (Kg/24 hrs)	0.00	**Waterpack storage capacity (Litres)**	0.00

Comments	Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 5 years. For more information and further conditions of warranty, please contact B Medical Systems. Bmedical fully integrated automatic voltage stabilization solution, which operates the ILR for any voltage in between 90VAC and 290VAC. It protects the ILR from over and under voltage as well as from surges and spikes required by PQS for AVS.
List of accessories	4 basket 2 keys 1 brush 2 spacers Documentation Lockable lid 1 travel adapter set 1 US Nema 1-15/5-15 adapter

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. COLD CHAIN CONTROLLER DISPLAY BOARD – Part No. 296.9769.91 1 No. Compressor (BD35K Solar) - Part No. 296.9702.09 1 No. Electronic Control Unit (E-box) - Part No. 296.9705.32 1 No. Electronic thermostat/controller - Part No. 296.9768.65 1 No. Fan (12V, 4.3W; 410mm) - Part No. 292.9960.13 1 No. Drier - Part No. 296.0945.04 1 No. Controller display board - Part No. 296.9769.91 1 No. Sensor - Part No. 296.9805.06 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.88	**Shipping weight (kg)**	111.00
Incoterms	EXW	**Price 1**	>100 units: 3252€
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015, ISO 14001:2015
Specification Reference	Applicable PQS specification: E003/RF03.4 Applicable PQS VP(s): E003/RF03_VP.4		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 18-001		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**HTC-112**
IMD-PQS Code:	E003-102
Status:	Prequalified
Date of acceptance:	27 Feb 2019
Appliance type:	E003
Product description:	Solar Direct Drive Refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTC-112
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**External dimensions length (mm)**	1128.00
External dimensions width (mm)	875.00	**External dimensions height (mm)**	720.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Solar direct drive	**Lining**	Ice-lined
Energy Consumption Intermittent Power (kWh/24h)	0.5900	**Energy Consumption Cool Down (kWh/24h)**	0.6200

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	75.000	**Refrigerator's gross volume (Litres)**	112.000
Autonomy (hrs:mn)	92:46	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	Optional: Remote temperature monitoring device Power of Solar Panel :180W x 2 or 360W x 1
List of accessories	4 baskets; manuals; keys
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Display - Part No. 0274000357 1 No. Indicator - Part No. 0074000574 1 No. Fan Set Part No.0274000351 1 No. Compressor BD-35K - Part No. 0274000118A 1 No. Compressor controller (E-Box) - Part No.0274000118FJ 1 No. Thermostat - Part No. 0274000352 1 No. Main Switch - Part No. 0274000354 1 No. USB charging port - Part No. 0274000389 1 No. Dry filter - Part No. 0074180001 1 No. Thermo sensor - Part No. 0274000353 1 No. Thermo sensor - Part No. 0274000358 2 No. Sticker - Part No. 0270501015A Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.98	**Shipping weight (kg)**	105.00
Incoterms	EXW	**Price 1**	USD 3132
Year of base price	2021		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E003/RF05.5 Applicable PQS VP(s): E003/RF05-VP.4

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-18-496		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VLS 054A SDD**
IMD-PQS Code:	E003-106
Status:	Prequalified
Date of acceptance:	10 Feb 2019
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 054A SDD
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	89:32
External dimensions length (mm)	600.00	**External dimensions width (mm)**	720.00
External dimensions height (mm)	850.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive
Lining	Ice-lined	**Energy Consumption Cool Down (kWh/24h)**	0.6900
Energy Consumption Continuous Power (kWh/24h)	0.3500		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	55.500	**Refrigerator's gross volume (Litres)**	108.000
Autonomy (hrs:mn)	89:32	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	Prices include Vestfrost Solutions SDD PV energy kit comprising of PV panels, roof adjustable bracket system, plug & play installation. Unit equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5” touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 25L - 60L
List of accessories	Vaccine storage top basket; Bottom grating; 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD 35K) Complete R600a Incl. ECU - Part No. 8-036510223 1 No. Thermostat - Part No. 702090044 1 No. Fan Set (KD1208PTB3) 12 V DC Part No. 7090486 1 No. Thermometer, solar, Part No.7020382-03

PRICE AND SHIPPING

Shipping volume (m3)	0.65	**Shipping weight (kg)**	85.00

Incoterms	FCA	**Price 1**	1-99 units: 3,107 €
Price 2	100-199 units: 2.882 €	**Year of base price**	2016

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		

VERIFICATION

Verification Report Reference		100918190MKS-001 issue 2	

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VLS 094A SDD**
IMD-PQS Code:	E003-107
Status:	Prequalified
Date of acceptance:	10 Feb 2019
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 094A SDD
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	77:41
External dimensions length (mm)	700.00	**External dimensions width (mm)**	930.00
External dimensions height (mm)	860.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive
Lining	Ice-lined	**Energy Consumption Cool Down (kWh/24h)**	0.4500
Energy Consumption Continuous Power (kWh/24h)	0.2400		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	92.000	**Refrigerator's gross volume (Litres)**	151.000
Autonomy (hrs:mn)	77:41	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	Prices include Vestfrost Solutions SDD PV energy kit comprising of PV panels, roof adjustable bracket system, plug & play installation. Unit equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5” touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 150L - 220L
List of accessories	4 x Vaccine storage top basket; Bottom grating; 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD 35K) Complete R600a Incl. ECU - Part No. 8-036510223 1 No. Thermostat - Part No. 702090044 1 No. Fan Set (KD1208PTB3) 12 V DC Part No. 7090486 1 No. Thermometer, solar, Part No.7020382-03 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.83	**Shipping weight (kg)**	108.00

Incoterms	FCA	**Price 1**	1-99 units: 3.264 €
Price 2	100-199 units: 3.217 €	**Year of base price**	2016

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		

VERIFICATION

Verification Report Reference		101809330MKS-001 Issue 1	

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VLS 154A SDD Greenline**
IMD-PQS Code:	E003-108
Status:	Prequalified
Date of acceptance:	10 Feb 2019
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 154A SDD Greenline
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	77:75
External dimensions length (mm)	700.00	**External dimensions width (mm)**	1270.00
External dimensions height (mm)	860.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive
Lining	Ice-lined	**Energy Consumption Cool Down (kWh/24h)**	0.5600
Energy Consumption Continuous Power (kWh/24h)	0.5500		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	170.000	**Refrigerator's gross volume (Litres)**	248.000
Autonomy (hrs:mn)	73:4	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	Prices include Vestfrost Solutions SDD PV energy kit comprising of PV panels, roof adjustable bracket system, plug & play installation. Unit equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5” touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 150L - 220L
List of accessories	4 x Vaccine storage top basket; Bottom grating; 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD 35K) Complete R600a Incl. ECU - Part No. 8-036510223 1 No. Thermostat - Part No. 702090044 1 No. Fan Set (KD1208PTB3) 12 V DC Part No. 7090486 1 No. Thermometer, solar, Part No.7020382-03 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.83	**Shipping weight (kg)**	108.00

Incoterms	FCA	**Price 1**	1-99 units: 4,345 €
Price 2	100-199 units: 4044 €	**Year of base price**	2016

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-15-115		

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VLS 204A**
IMD-PQS Code:	E003-109
Status:	Prequalified
Date of acceptance:	10 Feb 2019
Appliance type:	E003
Product description:	Ice-lined refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 204A
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Minimum rated ambient temperature (°C)	5.00	**Freeze protection**	Grade A
Hold over time (hours:mn)	54	**External dimensions length (mm)**	700.00
External dimensions width (mm)	730.00	**External dimensions height (mm)**	850.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz	**Lining**	Ice-lined
Energy Consumption Cool Down (kWh/24h)	0.5800	**Energy Consumption Continuous Power (kWh/24h)**	0.5700

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	60.000	**Refrigerator's gross volume (Litres)**	113.000
Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	1.00

Comments	Appliance requires only 4 hours electricity per 24 hours at +43Cº Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP,containing various installation/service features. Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable. Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc. VLS 204A AC model is supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection in line with E007/VS01-VP.5 For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5” touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 60L - 90L
List of accessories	2 x Vaccine storage top basket; 1 x Vaccine bottom basket; 1 x Bottom grating; 1 x Voltage stabilizer; 1 x 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 X Compressor (HXK80AT Complete) - Part No.8-036510018 1 X Thermostat Dixell XR30CH - Part No. 702090042 1 X Thermometer, solar, Part No.7020392-03Spare parts to be revised accordingly 1 X Compressor (HXK80AT Complete) - Part No.8-036510018 1 X Thermostat Dixell XR30CH - Part No. 702090042 1 X Thermometer, solar, Part No.7020392-03 1 X Voltage stabilizer controller Part No. 7020475 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.58	**Shipping weight (kg)**	70.00
Incoterms	FCA	**Price 1**	1-99 units: 919 €
Year of base price	2020		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/RF03 Applicable PQS VP(s): E003/RF03-VP		

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk
Verification Report Reference	BOM No: 1-n113		

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VLS 304A AC**
IMD-PQS Code:	E003-110
Status:	Prequalified
Date of acceptance:	10 Feb 2019
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 304A AC
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	55:30
External dimensions length (mm)	700.00	**External dimensions width (mm)**	920.00
External dimensions height (mm)	850.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
Lining	Ice-lined	**Energy Consumption Intermittent Power (kWh/24h)**	0.6900
Energy Consumption Cool Down (kWh/24h)	0.6900	**Energy Consumption Continuous Power (kWh/24h)**	0.6000

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	98.000	**Refrigerator's gross volume (Litres)**	157.000
Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	1.00

Comments	Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable. Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc. VLS 204A AC imodel is supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection in line with E007/VS01-VP.5 For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5” touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 90L - 150L
List of accessories	3 x Vaccine storage top basket; 2 x Vaccine bottom basket; 1 x Bottom grating; 1 x Voltage stabilizer; 1 x 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No Compressor (HXK80AT Complete) - Part No.8-036510018 1 No Thermostat Dixell XR30CH - Part No. 702090042 1 No Thermometer, solar, Part No.7020392-03 1 No Voltage stabilizer controller Part No. 7020475 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.75	**Shipping weight (kg)**	93.00
Incoterms	FCA	**Price 1**	1-99 units: 1,033 €
Year of base price	2020		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/RF03.2 Applicable PQS VP(s): E003/RF03-VP.2		

VERIFICATION

Verification Report Reference	12057110OMKS-002a amended

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VLS 354A AC**
IMD-PQS Code:	E003-111
Status:	Prequalified
Date of acceptance:	10 Feb 2019
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 354A AC
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	61:53
External dimensions length (mm)	700.00	**External dimensions width (mm)**	1130.00
External dimensions height (mm)	850.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
Lining	Ice-lined	**Energy Consumption Intermittent Power (kWh/24h)**	0.6400
Energy Consumption Cool Down (kWh/24h)	0.6400	**Energy Consumption Continuous Power (kWh/24h)**	0.6200

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator's gross volume (Litres)	209.000	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	1.00		

Comments	Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable. Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc. VLS 354A AC imodel is supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection in line with E007/VS01-VP.5 For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5” touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. (only SDD's). All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Range of holdover time: 51 - 100 hou Range vaccine storage capacity: 150L - 220L
List of accessories	4 x Vaccine storage top basket; 3 x Vaccine bottom basket; 1 x Bottom grating; 1 x Voltage stabilizer; 1 x 30 day electronic temperature logger; 1 x Holder for temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 X Compressor (HXK80AT Complete) - Part No.8-036510018 1 X Thermostat Dixell XR30CH - Part No. 702090042 1 X Thermometer, solar, Part No.7020392-03 1 X Voltage stabilizer controller Part No. 7020475

PRICE AND SHIPPING

Shipping volume (m3)	0.85	**Shipping weight (kg)**	110.00
Incoterms	FCA	**Price 1**	1-99 units: 1,143 €
Year of base price	2016		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/RF03.2 Applicable PQS VP(s): E003/RF03-VP.2		

VERIFICATION

Verification Report Reference	12057110OMKS-003a amended

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VLS 404A AC**
IMD-PQS Code:	E003-112
Status:	Prequalified
Date of acceptance:	10 Feb 2019
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 404A AC
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	62.47
External dimensions length (mm)	700.00	**External dimensions width (mm)**	1270.00
External dimensions height (mm)	860.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
Lining	Ice-lined	**Energy Consumption Cool Down (kWh/24h)**	0.6900
Energy Consumption Continuous Power (kWh/24h)	0.6700		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	145.000	**Refrigerator's gross volume (Litres)**	235.000
Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	1.00

Comments	Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable. Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc. VLS 404A AC model is supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection in line with E007/VS01-VP.5 For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5” touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 90L - 150L
List of accessories	4 x Vaccine storage top basket; 3 x Vaccine bottom basket; 1 x Bottom grating; 1 x Voltage stabilizer; 1 x 30 day electronic temperature logger; 1 x Holder for temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 X Compressor (HXK80AT Complete) - Part No.8-036510018 1 X Thermostat Dixell XR30CH - Part No. 702090042 1 X Thermometer, solar, Part No.7020392-03 1 X Voltage stabilizer controller Part No. 7020475 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.02	**Shipping weight (kg)**	126.00
Incoterms	FCA	**Price 1**	1-99 units: 1,231 €
Price 2	100-199 units: 1030 €	**Year of base price**	2020

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/RF03.2 Applicable PQS VP(s): E003/RF03-VP.2		

VERIFICATION

Verification Report Reference	A66543 - amended

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VLS 504A AC**
IMD-PQS Code:	E003-113
Status:	Prequalified
Date of acceptance:	10 Feb 2019
Appliance type:	E003
Product description:	Ice-lined Refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 504A AC
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	55:16
External dimensions length (mm)	700.00	**External dimensions width (mm)**	1563.00
External dimensions height (mm)	845.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional;Electric Mains 115/60Hz
Lining	Ice-lined	**Energy Consumption Intermittent Power (kWh/24h)**	0.5910
Energy Consumption Continuous Power (kWh/24h)	0.6380		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	242.000	**Refrigerator's gross volume (Litres)**	314.000
Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	1.00

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A

Comments	Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable. Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc. VLS 504A AC model is supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection in line with E007/VS01-VP.5 For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5” touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. PQS number: E003/113 EnergyConsump.IntermittentPower(kWh/24h): 1.3520.591 EnergyConsump.ContinuousPower(kWh/24h): 0.638
List of accessories	6 x Vaccine storage top basket; 4 x Vaccine bottom basket; 1 x Bottom grating; 1 x Voltage stabilizer; 1 x 30 day electronic temperature logger; 1 x Holder for temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 X Compressor (HXK12AT Complete) - Part No. 8-03606510309 1 X Thermostat Dixell XR30CH - Part No. 702090042 1 X Thermometer, solar, Part No.7020392-03 1 X Voltage stabilizer controller Part No. 7020475 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.16	**Shipping weight (kg)**	150.00
Incoterms	EXW	**Price 1**	1 – 99 units:
Year of base price	2018		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/RF03.4 Applicable PQS VP(s): E003/RF03-VP.4		

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-17-179		

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**HBC-120**
IMD-PQS Code:	E003-114
Status:	Prequalified
Date of acceptance:	06 Sep 2020
Appliance type:	E003
Product description:	Ice-lined Refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBC-120
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**External dimensions length (mm)**	1425.00
External dimensions width (mm)	829.00	**External dimensions height (mm)**	890.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz	**Lining**	Ice-lined
Energy Consumption Intermittent Power (kWh/24h)	0.2500	**Energy Consumption Cool Down (kWh/24h)**	0.3500
Energy Consumption Continuous Power (kWh/24h)	0.4000		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	100.000	**Refrigerator's gross volume (Litres)**	120.000
Autonomy (hrs:mn)	128.48	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	1.00		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A

Comments	Optional: Remote temperature monitoring device (Price not include: Voltage regulator); Range of holdover time: 101 - 250 hours Range vaccine storage capacity: 90L - 150L
List of accessories	Keys, Handle component, 30 days Data logger
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor-0060705994A 1 No. Fan 0274000542 1 No. Thermostat 0274000352A 1 No. Dry filter Part-0074180002A 1 No. Switch 0075050003 2 No. Indicator 0075050018 2 No. Displayer 0274000357 2 No. overload protector 0274300008B 1 No. Thermo sensor-0274000353 1 No. Thermo sensor-0274000358 1 No. Sticker-0270501015A Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.44	**Shipping weight (kg)**	160.00

Incoterms	EXW	**Price 1**	1-100units USD 1800
Price 2	>100units USD 1785	**Year of base price**	2021

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-19-473		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**HBC-240**
IMD-PQS Code:	E003-115
Status:	Prequalified
Date of acceptance:	06 Sep 2020
Appliance type:	E003
Product description:	Ice-lined Refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBC-240
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	87:14
External dimensions length (mm)	1820.00	**External dimensions width (mm)**	829.00
External dimensions height (mm)	890.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Electric Mains 220-240V 50/60Hz
Lining	Ice-lined	**Energy Consumption Intermittent Power (kWh/24h)**	0.4000
Energy Consumption Cool Down (kWh/24h)	0.4000	**Energy Consumption Continuous Power (kWh/24h)**	0.4400

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	200.000	**Refrigerator's gross volume (Litres)**	240.000
Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	1.00

Comments	Optional: Remote temperature monitoring device Keys, Handle component, 30 days Data logger (Price does not include: Voltage regulator); Range vaccine storage capacity: 150L - 220L
List of accessories	Optional: Remote temperature monitoring device
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor - Part No. 0060705994A 1 No. Fan - Part No. 0274000542 1 No. Thermostat -Part No. 0274000352A 1 No. Dry filter - Part No. 0074180002A 1 No. Switch - Part No. 0075050003 2 No. Indicator -Part No. 0075050018 2 No. Displayer - Part No. 0274000357 2 No. overload protector - Part No. 0274300008B 1 No. Thermo sensor - Part No. 0274000353 1 No. Thermo sensor - Part No. 0274000358 1 No. Sticker - Part No. 0270501015A Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.8	**Shipping weight (kg)**	186.00
Incoterms	EXW	**Price 1**	1-100units USD 2000
Price 2	>100units USD 1890	**Year of base price**	2021

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-19-356		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**HTC-120-SDD**
IMD-PQS Code:	E003-116
Status:	Prequalified
Date of acceptance:	06 Sep 2020
Appliance type:	E003
Product description:	Solar Direct Drive Refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTC-120-SDD
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Minimum rated ambient temperature (°C)	5.00	**Freeze protection**	Grade A
External dimensions length (mm)	1425.00	**External dimensions width (mm)**	825.00
External dimensions height (mm)	865.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - absorption	**Energy source**	Solar direct drive
Lining	Ice-lined	**Energy Consumption Intermittent Power (kWh/24h)**	0.4400
Energy Consumption Cool Down (kWh/24h)	0.4800		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	100.000	**Refrigerator's gross volume (Litres)**	120.000
Autonomy (hrs:mn)	112.24	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A

Comments	Optional: Remote temperature monitoring device
List of accessories	Keys, Handle component, 30 days Data logger
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Display - Part No. 0274000357 1 No. Indicator - Part No. 0074000574 1 No. Fan Set - Part No.0274000351 1 No. Compressor BD-35K - Part No. 0274000118A 1 No. Compressor controller (E-Box) - Part No. 0274000118FJ 1 No. Thermostat - Part No. 0274000352 1 No. Main Switch - Part No. 0274000354B 1 No. USB charging port - Part No. 0274000389 1 No. Dry filter - Part No. 0074180002A 1 No. Thermo sensor - Part No. 0274000353 1 No. Thermo sensor - Part No. 0274000358 2 No. Sticker - Part No. 0270501015A Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.44	**Shipping weight (kg)**	160.00
Incoterms	EXW	**Price 1**	1-100units USD 3628

Price 2	>100units USD 3550	**Year of base price**	2021

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-19-474		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**HTC-240-SDD**
IMD-PQS Code:	E003-117
Status:	Prequalified
Date of acceptance:	06 Sep 2020
Appliance type:	E003
Product description:	Solar Direct Drive Refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTC-240-SDD
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**External dimensions length (mm)**	1815.00
External dimensions width (mm)	825.00	**External dimensions height (mm)**	865.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Solar direct drive	**Lining**	Ice-lined
Energy Consumption Intermittent Power (kWh/24h)	0.3500	**Energy Consumption Cool Down (kWh/24h)**	0.5400

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	200.000	**Refrigerator's gross volume (Litres)**	240.000
Autonomy (hrs:mn)	95:23	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A

Comments	Optional: Remote temperature monitoring device
List of accessories	Keys, Handle component, 30 days Data logger
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Display - Part No. 0274000357 1 No. Indicator - Part-0074000574 1 No. Fan Set - Part No.0274000351 1 No. Compressor BD-35K - Part No. 0274000118A 1 No. Compressor controller (E-Box) - Part No. 0274000118FJ 1 No. Thermostat - Part No. 0274000352 1 No. Main Switch - Part No. 0274000354B 1 No. USB charging port - Part No. 0274000389 1 No. Dry filter Part - Part No. 0074180002A 1 No. Thermo sensor - Part No. 0274000353 1 No. Thermo sensor - Part No. 0274000358 2 No. Sticker - Part No. 0270501015A Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.79	**Shipping weight (kg)**	185.00
Price 1	1-100units USD 4250	**Price 2**	>100units USD 4187
Year of base price	2021		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-19-376		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**ARKTEK YBC-10 SDD**
IMD-PQS Code:	E003-118
Status:	Prequalified
Date of acceptance:	20 Oct 2020
Appliance type:	E003
Product description:	Solar Direct Drive Refrigerator
Manufacturer:	Qingdao Aucma Global Medical Co.,Ltd.
Manufacturers Reference:	ARKTEK YBC-10 SDD
Country of Manufacture:	China
Address:	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China China
Telephone:	+86 532 86763602
Email:	lishouda@aucma.com.cn
Website address:	www.aucmamedicalglobal.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Minimum rated ambient temperature (°C)	5.00	**Freeze protection**	Grade A
External dimensions width (mm)	52.80	**External dimensions height (mm)**	86.00
Appliance tested at (°C)	43.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive
Lining	PCM	**Energy Consumption Cool Down (kWh/24h)**	0.3000
Energy Consumption Continuous Power (kWh/24h)	0.2400		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	10.000	**Refrigerator's gross volume (Litres)**	15.000
Autonomy (hrs:mn)	72:00	**Solar radiation ref period (kWh/m2/day)**	3.50

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Waterpack freezing capacity (Kg/24 hrs)	0.00	**Waterpack storage capacity (Litres)**	0.00

Comments	"The ARKTEK YBC-10 SDD provides safe, solar-powered vaccine storage for health facilities that have minimal or no mains power, and extreme ambient temperatures. It can keeps vaccines cold with no risk of freezing through 3+ day periods with inadequate sunlight. Included 200W PV modules and pole PV mounting rack with 20m wiring and 1.5m ground rod. Included energy harvesting outputs with 5V USB (2A) Integrated 30-day electronic refrigerator temperature logger stores and displays temperature." Range of holdover time: 51 - 100 hours
List of accessories	6 vaccine stacks; documentation;
List of spare parts, Reference & Price	"Thermoelectric cooler 1 EA Electronic control board 1 SET"

PRICE AND SHIPPING

Incoterms	EXW	**Price 1**	$3,550
Year of base price	2020		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: PQS/E003/RF05.5 Applicable PQS VP(s): E003/RF05-VP.4		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-19-369		

PRODUCT SITES

Organization name	Qingdao Aucma Global Medical Co.,Ltd.
Address	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VLS 076 RF SDD**
IMD-PQS Code:	E003-119
Status:	Prequalified
Date of acceptance:	02 Feb 2021
Appliance type:	E003
Product description:	Solar Direct Drive Refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 076 RF SDD
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**External dimensions length (mm)**	650.00
External dimensions width (mm)	1280.00	**External dimensions height (mm)**	960.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Solar direct drive	**Lining**	Ice-lined
Energy Consumption During Freezing (kWh/24h)	1.0800	**Energy Consumption Intermittent Power (kWh/24h)**	0.4330
Energy Consumption Cool Down (kWh/24h)	1.0600	**Energy Consumption Continuous Power (kWh/24h)**	0.4370

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	61.250	**Refrigerator's gross volume (Litres)**	111.000
Autonomy (hrs:mn)	89:32	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer's gross volume (Litres)	34.30

Comments	"Prices include Vestfrost Solutions SDD PV energy system, roof adjustable, plug & play; Unit equipped with unique QR code, that can be used along Vestfrost Solutions Unit tracker APP, containing various installation/service features. As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5" touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Range of holdover time: 51 - 100 hours Waterpack freezing capacity: 3 x 0.6 L Waterpacks per/24h Waterpack storage capacity: 29 x 0.6 L Waterpacks
List of accessories	Vaccine storage top basket; Bottom grating; 30 day electronic temperature logger; Self regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages
List of spare parts, Reference & Price	Comporssor (BD35K 101Z0211) 10-45V - 8-036510223 Thermostat refrigerator (Dixell) - 7095178 Thermostat freezer (Ranco) - 6520038 Fan Set refrigerator - 7090403 Fan Set freezer - 7030823 PV Thermometer - 7020392-03

PRICE AND SHIPPING

Shipping volume (m3)	1.15	**Shipping weight (kg)**	157.00
Incoterms	EXW	**Price 1**	EUR 5177
Year of base price	2021		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/RF05.6 Applicable PQS VP(s): E003/RF05-VP.6		

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VLS 174A AC**
IMD-PQS Code:	E003-120
Status:	Prequalified
Date of acceptance:	27 Apr 2021
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 174A AC
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	57:52
External dimensions length (mm)	550.00	**External dimensions width (mm)**	650.00
External dimensions height (mm)	950.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Electric Mains 115/60Hz;Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
Lining	Ice-lined	**Energy Consumption Intermittent Power (kWh/24h)**	0.4930
Energy Consumption Continuous Power (kWh/24h)	0.5040		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	38.000	**Refrigerator's gross volume (Litres)**	50.600
Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	1.00

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A

Comments	Appliance requires only 4 hours electricity per 24 hours at +43°C Equipped with unique QR code, that can be used along Vestfrost Solutions Unit tracker APP, containing various installation/service features. Electric components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + Appliance power plug/cable. model is supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection in line with E007/VS01-VP.5 For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 25L - 60L
List of accessories	1 x Vaccine storage baskets; 1 x Bottom grating; 1 x 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 X Compressor (HXK80AT Complete) - Part No.8-0365100181 X Thermostat Dixell XR30CH - Part No. 7020900421 X Thermometer, solar, Part No.7020392-031 X Voltage stabilizer controller Part No. 7020475 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.63	**Shipping weight (kg)**	79.00
Incoterms	EXW	**Year of base price**	2021

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/RF03.5 Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk
Verification Report Reference	Refrigerator 300-KLAB-20-317		

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TCW80-SDD**
IMD-PQS Code:	E003-121
Status:	Prequalified
Date of acceptance:	06 Jul 2021
Appliance type:	E003
Product description:	Solar Direct Drive Refrigerator
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW80-SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	192
External dimensions length (mm)	778.00	**External dimensions width (mm)**	1023.00
External dimensions height (mm)	890.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Solar direct drive	**Lining**	Ice-lined
Energy Consumption Cool Down (kWh/24h)	0.5800	**Energy Consumption Continuous Power (kWh/24h)**	0.6000

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	80.500	**Refrigerator's gross volume (Litres)**	82.500
Autonomy (hrs:mn)	72:21	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A	**Waterpack freezing capacity (Kg/24 hrs)**	0.00
Waterpack storage capacity (Litres)	0.00		

Comments	Prices include the solar generator system : G1=roof fixes; G2=roof adjustable. Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 or 10 years as the case may be. For more information and further conditions of warranty, please contact B Medical Systems
List of accessories	4 vaccine storage baskets lockable lid 2 spacers 1 compass 1 brush

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No. 296.9702.09 1 No. Electronic Control Unit (E-box) - Part No. 296.9705.32 1 No. Electronic thermostat/controller - Part No. 296.9768.67 1 No. Fan (12V 4.3W 410mm) - Part No. 292.9960.13 1 No. Drier - Part No. 296.0945.04 1 No. Controller display board - Part No. 296.9769.91 1 No. Sensor - Part No. 296.9804.78 Other parts are available as spares on request

PRICE AND SHIPPING

Shipping volume (m3)	0.88	**Shipping weight (kg)**	112.00
Incoterms	EXW	**Price 1**	>100units G1 : 6260€
Price 2	>100units G2 : 6798€	**Year of base price**	2025

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015, ISO 14001:2015
Specification Reference	Applicable PQS specification: E003/RF05.6 Applicable PQS VP(s): E003/RF05-VP.6		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 21-01		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**IceVolt 300P**
IMD-PQS Code:	E003-122
Status:	Prequalified
Date of acceptance:	14 Jun 2021
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Coolfinity Medical B.V.
Manufacturers Reference:	IceVolt 300P
Country of Manufacture:	Netherlands
Address:	Goeman Borgesiuslaan 77 Utrecht Netherlands
Telephone:	+31 85 066 23 64
Email:	maarten@coolfinity.com
Website address:	www.coolfinity.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	10.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	25:00
External dimensions length (mm)	730.00	**External dimensions width (mm)**	670.00
External dimensions height (mm)	1999.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz;Electric Mains 115/60Hz	**Lining**	Ice-lined
Energy Consumption Intermittent Power (kWh/24h)	2.1900	**Energy Consumption Cool Down (kWh/24h)**	2.2100
Energy Consumption Continuous Power (kWh/24h)	2.9800		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	241.000	**Refrigerator's gross volume (Litres)**	318.000
Refrigerant type	R290		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A

Comments

a) The refrigerator has an integrated Sollatek voltage stabiliser as follows: 1. 220 – 240 Volt 50/60 Hz, integrated extended version, Sollatek FSPE4B-2 4.5A/6A 110V-285V 50/60Hz 2. 110 – 127 V 50/60 Hz , integrated extended version, Sollatek FSPE4B-1 4.5A/6A 82V-159V 50/60Hz b) The refrigerator has internal LED lighting that switches on when the door is opened. It also works during power outages. c) The refrigerator has a special glass door, that prevents condensation and fogging on the glass. d) Coolfinity refrigerators have a patented technology for the cooling system. e) The refrigerator requires clean drinking water during installation, please the contact manufacturer or watch the installation video online. f) This appliance was modified in November 2022. This modification consisted of a change of the controller. The appliance was retested and resulted in a slight change in the holdover time and energy consumption. The glass door includes a protective film that blocks >99% of UV light.

List of accessories	Accessoires included: a) 5x baskets, b) Berlinger Fridge-Tag 2E (30 day temperature recorder), c) filling funnel, d) 2x keys for integrated door lock, e) instruction manual, f) wooden pallet, Optional Accessoires: a) 1x or 2x additional baskets, b) shelves (instead of baskets), c) Berlinger SmartMonitor SITE L, d) wooden crate (12 kg extra shipping weight), e) branding on the refrigerator sides, f) Large LED temperature display in top panel (7cm)
List of spare parts, Reference & Price	UNICEF Supply Division the spare parts kit consists of: Option 1 - 230V/60Hz Version 1 x Evaporator fan (artcle no. 987713) 1 x Controller (artcle no. 6114382) 1 x Battery charger (artcle no. 6114296) 1 x Voltage stabilizer control unit (artcle no. 6114365)

PRICE AND SHIPPING

Shipping volume (m3)	1.09	**Shipping weight (kg)**	190.00
Incoterms	FCA	**Price 1**	50 € 2580
Year of base price	2024		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/RF03.5 Applicable PQS VP(s): E003/RF03-VP.4		

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-21-106		

PRODUCT SITES

Organization name	Coolfinity Medical B.V.
Address	Goeman Borgesiuslaan 77 Utrecht Netherlands

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TCW120AC**
IMD-PQS Code:	E003-123
Status:	Prequalified
Date of acceptance:	12 Jun 2021
Appliance type:	E003
Product description:	Combined Vaccine Refrigerator / Waterpack Freezer
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW120AC
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	73:54
External dimensions length (mm)	790.00	**External dimensions width (mm)**	1620.00
External dimensions height (mm)	910.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	110-240V 50/60Hz	**Lining**	Ice-lined
Energy Consumption During Freezing (kWh/24h)	1.4100	**Energy Consumption Cool Down (kWh/24h)**	1.0700
Energy Consumption Continuous Power (kWh/24h)	1.5500		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	120.000	**Refrigerator's gross volume (Litres)**	153.000
Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	1.00

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer net volume		**Freezer's gross volume (Litres)**	28.00
Waterpack freezing capacity (Kg/24 hrs)	1.60	**Waterpack storage capacity (Litres)**	13.20

Comments	Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 5 years. For more information and further conditions of warranty, please contact B Medical Systems. Bmedical fully integrated automatic voltage stabilization solution, which operates the ILR for any voltage in between 90VAC and 290VAC. It protects the ILR from over and under voltage as well as from surges and spikes required by PQS for AVS. Freezing capacity range: 5 kg/24h Range vaccine storage capacity: 90L - 150L Waterpack storage capacity: 22 x 0,6L
List of accessories	4 vaccine storage baskets lockable lid 2 spacers 22 waterpacks of 0.6L

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor BD35K - Part No. 296.9702.09 1 No. E-BOX BD35K Solar - Part No. 296.9705.32 1 No. Electronic Thermostat Controller - Part No. 296.9768.68 1 No. Fan (12V, 4.3W) - Part No. 292.9960.13 1 No. Drier - Part No. 296.0945.04 1 No. Controller Display Board - Part No. 296.9769.91 1 No. Sensor - Part No. 296.9805.06 Other parts available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.39	**Shipping weight (kg)**	188.00
Incoterms	EXW	**Price 1**	>100 pcs : 4339 Euros
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015, ISO 14001:2015
Specification Reference	Applicable PQS specification: E003/RF03.4 Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 21-02		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TCW120SDD**
IMD-PQS Code:	E003-124
Status:	Prequalified
Date of acceptance:	12 Jun 2021
Appliance type:	E003
Product description:	Vaccine Refrigerator / Ice-pack Freezer
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW120SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**External dimensions length (mm)**	790.00
External dimensions width (mm)	1620.00	**External dimensions height (mm)**	910.00
Appliance tested at (°C)	43.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive
Lining	Ice-lined	**Energy Consumption During Freezing (kWh/24h)**	1.3800
Energy Consumption Cool Down (kWh/24h)	1.3100	**Energy Consumption Continuous Power (kWh/24h)**	1.1500

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	120.000	**Refrigerator's gross volume (Litres)**	153.000
Autonomy (hrs:mn)	82:05	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer net volume	50 L	**Freezer's gross volume (Litres)**	28.00
Waterpack freezing capacity (Kg/24 hrs)	1.60	**Waterpack storage capacity (Litres)**	13.20

Comments	Prices include the solar generator system: G1 = roof fixed; G2 = roof adjustable. Includes for the duration of the warranty period contractually agreed: the B-Medical systems RTMD with worldwide communication; real-time alarms messages for temperature and open door alerts via SMS/Email, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation, as this RTMD has no integrated display. However, the refrigerator does have a digital display. This RTMD is exclusively bundled to B Medical Systems refrigerators/freezers. It includes a warranty for 3 or 10 years. For further information on the warranty please contact B Medical Systems. Waterpack storage capacity: 22 x 0.6L
List of accessories	4 vaccine storage baskets lockable lid 2 spacers 22 waterpacks of 0.6L

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor BD35K Solar - Part No. 296. 9702.09 1 No. Electronic Control Unit (E-box) - Part No. 296.9705.32 1 No. Electronic Thermostat / Controller - Part No. 296.9768.69 1 No. Fan (12V, 4.3W) - Part No. 292.9960.13 1 No. Driver - Part No. 296.0945.04 1 No. Controller display board - Part No. 296.9769.91 1 No. Sensor - Part No. 296.9805.06 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.39	**Shipping weight (kg)**	187.00
Incoterms	EXW	**Price 1**	>100 units: G1 10,222 Euros; G2 11,281 Euros
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14001:2015
Specification Reference	Applicable PQS specification: E003 / RF05.6 Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 21-03		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**U201**
IMD-PQS Code:	E003-125
Status:	Prequalified
Date of acceptance:	25 Feb 2022
Appliance type:	E003
Product description:	Vaccine Freezer - Ultralow Temperature Storage
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	U201
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	10.00
Hold over time (hours:mn)	1:48	**External dimensions length (mm)**	1039.00
External dimensions width (mm)	699.00	**External dimensions height (mm)**	1293.00
Appliance tested at (°C)	43.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - absorption	**Energy source**	230V 50Hz (Option 220V 60Hz)
Energy Consumption Cool Down (kWh/24h)	27.6000	**Energy Consumption Continuous Power (kWh/24h)**	13.5000

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	143.000	**Refrigerator's gross volume (Litres)**	214.000
Refrigerant type	R290/R170	**Solar radiation ref period (kWh/m2/day)**	1.00

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer net volume	110-200	**Freezer's gross volume (Litres)**	232.00
Waterpack freezing capacity (Kg/24 hrs)	0.00	**Waterpack storage capacity (Litres)**	0.00

Comments	Set temperature (setting range): -86°C to -20°C. Defrosting technique: Manual. Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the freezer has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 years. For more information and further conditions of warranty, please contact B Medical Systems. Holdover time: 1h0mins from -82°C to -60°C Freezer vaccine storage capacity: 202 L
List of accessories	1 Separate interior door 1 ST-shelf 4 Smooth castors with stabilizers 1 RTMD (Integrated remote temperature-monitoring device) °B Connected Monitoring Software
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. GASKET KIT – Part No. 294.3300.07; 1 No. DRIER – Part No. 296.0945.05; 1 No. COMPRESSOR NT2210U AC 230V/50HZ – Part No. 296.9701.58; 1 No. FAN MOTOR EBM – Part No. 296.9759.29; 1 No. PRESSOSTAT KP7EW – Part No. 296.9762.05; 1 No. CLIP-BOX SPARE PART COMPRESSOR – Part No. 292.8003.31 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.2	**Shipping weight (kg)**	252.00
Incoterms	EXW	**Price 1**	12,114 €
Year of base price	2024		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14001:2015
Specification Reference	Applicable PQS specification: E003/ULT01.1 Applicable PQS VP(s): E003/ULT01-VP.1		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 21-04		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**HBD-86**
IMD-PQS Code:	E003-126
Status:	Prequalified
Date of acceptance:	07 Jul 2022
Appliance type:	E003
Product description:	Vaccine/Waterpacks Freezer
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBD-86
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	0.00
Hold over time (hours:mn)	7:19	**External dimensions length (mm)**	872.00
External dimensions width (mm)	717.00	**External dimensions height (mm)**	788.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz	**Lining**	Regular
Energy Consumption Cool Down (kWh/24h)	0.9800	**Energy Consumption Continuous Power (kWh/24h)**	0.9500

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	61.000	**Refrigerant type**	R600a

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	**Freezer's gross volume (Litres)**	86.00

Comments	Optional: Remote temperature monitoring device 1. Display: Solar LED Temperature Display 2. Low power consumption Freezer net volume: 50 - 110 L
List of accessories	1. Instructions 2. Key 3. Handle component 4. Basket 5. Alcohol thermometer 6. 30 days temperature logger
List of spare parts, Reference & Price	"1 No. Dry filter Part-0074180001 2 No. overload protector 0274300008B 1 No. Switch 0075050003 1 No. Thermo sensor-0274000357A 1 No. Thermostat with sensor 0274000352A 1 No. Compressor-0060705994A 1 No. Fan 0074000172 2 No. Indicator 0075050018 2 No. Displayer 0274000357 1 No. Sticker-0270501015B"

PRICE AND SHIPPING

Shipping volume (m3)	0.71	**Shipping weight (kg)**	90.00
Incoterms	EXW	**Price 1**	$977 incldluing 30 DTR
Year of base price	2022		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/FZ01.2 Applicable PQS VP(s): E003/FZ01-VP.2		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-21-0193		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VFW140H-HC**
IMD-PQS Code:	E003-127
Status:	Prequalified
Date of acceptance:	07 Jul 2022
Appliance type:	E003
Product description:	Vaccine/Waterpack Freezer
Manufacturer:	Western Refrigeration Private Limited
Manufacturers Reference:	VFW140H-HC
Country of Manufacture:	India
Address:	7/B, Pannalal Silk Mill Compound, L.B.S. Marg, Bhandup (West), Mumbai 400078. India India
Telephone:	+91 22 - 67161200
Email:	paresh@westernequipments.com
Website address:	https://www.westernequipments.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Hold over time (hours:mn)	3:33	**External dimensions length (mm)**	720.00
External dimensions width (mm)	710.00	**External dimensions height (mm)**	955.00
Appliance tested at (°C)	43.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	220-240V 50Hz
Lining	Regular	**Energy Consumption Cool Down (kWh/24h)**	2.0600
Energy Consumption Continuous Power (kWh/24h)	1.9400		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	68.000	**Refrigerant type**	R290
Solar radiation ref period (kWh/m2/day)	1.00		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	**Freezer's gross volume (Litres)**	142.00
Waterpack freezing capacity (Kg/24 hrs)	16.20	**Waterpack storage capacity (Litres)**	72.50

List of accessories	4 Baskets, keys, Steam Alcohol Thermometer (Optional), Instruction Manual
List of spare parts, Reference & Price	1 No Compressor, 1 No Condensor Fan, 1 No Digital Controller, 1 No Battery for Digital controller, 1 No Transformer for Digital controller, 1 No 2 Pole ON/ OFF switch, 1 No Steam Alcohol Thermometer, 1 No Application Sensor, 1 No Drier and Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.6	**Shipping weight (kg)**	60.00
Incoterms	EXW	**Price 1**	1 to 99 Units - 635 USD
Price 2	100 to 200 Units- 540 USD	**Year of base price**	2022

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E003/FZ01.2 Applicable PQS VP(s): E003/FZ01-VP.2		

VERIFICATION

Verification Laboratory	UL India Private Limited	**Address**	A-12, Infocity-1, Sector-34, Gurgaon (Haryana)-122001 India
Phone	+91-8130427334	**Email**	satish.kumar@ul.com
Verification Report Reference	4789971136-01-OTHERS-S1-R1		

PRODUCT SITES

Organization name	Western Refrigeration Private Limited
Address	Survey No 633, 635, 636, 647, 654, 707, 726, 732, 741, 747, 748, and 752 At. Village Tadgam, Tal. Umbergaon, Dist. Valsad, Gujrat, 396135 . India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VFW310H-HC**
IMD-PQS Code:	E003-128
Status:	Prequalified
Date of acceptance:	07 Jul 2022
Appliance type:	E003
Product description:	Vaccine/Waterpacks Freezer
Manufacturer:	Western Refrigeration Private Limited
Manufacturers Reference:	VFW310H-HC
Country of Manufacture:	India
Address:	7/B, Pannalal Silk Mill Compound, L.B.S. Marg, Bhandup (West), Mumbai 400078. India India
Telephone:	+91 22 - 67161200
Email:	paresh@westernequipments.com
Website address:	https://www.westernequipments.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Hold over time (hours:mn)	4:00	**External dimensions length (mm)**	720.00
External dimensions width (mm)	1230.00	**External dimensions height (mm)**	965.00
Appliance tested at (°C)	43.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Electric Mains 220-240V 50Hz
Lining	Regular	**Energy Consumption Cool Down (kWh/24h)**	2.3200
Energy Consumption Continuous Power (kWh/24h)	2.2700		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	166.000	**Refrigerant type**	R290
Solar radiation ref period (kWh/m2/day)	1.00		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	**Freezer's gross volume (Litres)**	317.00
Waterpack freezing capacity (Kg/24 hrs)	28.20	**Waterpack storage capacity (Litres)**	203.00

Comments	Holdover time: 4 hours
List of accessories	8 Baskets, keys, Steam Alcohol Thermometer (Optional), Instruction Manual
List of spare parts, Reference & Price	1 No Compressor, 1 Condensor motor, 1 No Digital Controller, 1 No Battery for Digital controller, 1 No Transformer for Digital controller, 1 No 2 Pole ON/ OFF switch, 1 No Steam Alcohol Thermometer, 1 No Application Sensor, 1 No Drier and Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.03	**Shipping weight (kg)**	91.00
Incoterms	EXW	**Price 1**	1 to 99 Units - 775 USD
Price 2	100 to 200 Units- 685 USD	**Year of base price**	2022

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E003/FZ01.2 Applicable PQS VP(s): E003/FZ01-VP.2		

VERIFICATION

Verification Laboratory	UL India Private Limited	**Address**	A-12, Infocity-1, Sector-34, Gurgaon (Haryana)-122001 India
Phone	+91-8130427334	**Email**	satish.kumar@ul.com
Verification Report Reference	4789971136-01-OTHERS-S2-R1		

PRODUCT SITES

Organization name	Western Refrigeration Private Limited
Address	Survey No 633, 635, 636, 647, 654, 707, 726, 732, 741, 747, 748, and 752 At. Village Tadgam, Tal. Umbergaon, Dist. Valsad, Gujrat, 396135 . India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TCD-100**
IMD-PQS Code:	E003-129
Status:	Prequalified
Date of acceptance:	14 Sep 2022
Appliance type:	E003
Product description:	Solar Direct Drive Refrigerator & Freezer
Manufacturer:	Qingdao Aucma Global Medical Co.,Ltd.
Manufacturers Reference:	TCD-100
Country of Manufacture:	China
Address:	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China China
Telephone:	+86 532 86763602
Email:	lishouda@aucma.com.cn
Website address:	www.aucmamedicalglobal.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**External dimensions length (mm)**	750.00
External dimensions width (mm)	1050.00	**External dimensions height (mm)**	975.00
Appliance tested at (°C)	43.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Lining**	Ice-lined
Energy Consumption During Freezing (kWh/24h)	1.9950	**Energy Consumption Cool Down (kWh/24h)**	1.2060
Energy Consumption Continuous Power (kWh/24h)	1.4100		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	48.000	**Refrigerator's gross volume (Litres)**	59.000
Autonomy (hrs:mn)	180	**Refrigerant type**	R290
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer's gross volume (Litres)	38.00	**Waterpack freezing capacity (Kg/24 hrs)**	2.00
Waterpack storage capacity (Litres)	10.70		

Comments	1. 48-liter vaccine storage chamber volume; 38-liter water pack freezer chamber volume; 2. Integrated USB temperature data module with 10 year data storage capacity; 3. 180 hours of holdover at constant ambient temperature of 43 °C; 4. 2.0kg daily Water-pack freezing capacity, 10.7kg water-pack storage compartment capacity; 5. 180 hours autonomy at constant ambient temperature of 43 °C; 6. Integrated maximum/minimum temperature and alarm data with 30 day history; 7. Integrated USB charging port 5V / 0.5A;
List of accessories	1. 2 Vaccine boxes 2. 2 Keys 3. 1 Funnel 4. Documentation 5. 2 baskets
List of spare parts, Reference & Price	3000001485 Compressor 283 USD 3000002307 DC fan 26 USD 3001000717 Electronic control unit 68 USD"

PRICE AND SHIPPING

Shipping volume (m3)	1.62	**Shipping weight (kg)**	260.00
Incoterms	EXW	**Year of base price**	2022

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-21-0332		

PRODUCT SITES

Organization name	Qingdao Aucma Global Medical Co.,Ltd.
Address	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**GMF 200 ECO lite**
IMD-PQS Code:	E003-130
Status:	Prequalified
Date of acceptance:	10 May 2022
Appliance type:	E003
Product description:	Vaccine/waterpaks freezer
Manufacturer:	Godrej & Boyce MFG. Co. Ltd.
Manufacturers Reference:	GMF 200 ECO lite
Country of Manufacture:	India
Address:	Plant 01, Pirojshanagar, Vikhroli West Mumbai 400 079 India India
Telephone:	+91 22 67966423
Email:	pratika@godrej.com
Website address:	http://www.godrejappliances/medical
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Hold over time (hours:mn)**	9:49
External dimensions length (mm)	850.00	**External dimensions width (mm)**	825.00
External dimensions height (mm)	762.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Electric Mains 220-240V 50/60Hz
Lining	PCM	**Energy Consumption Cool Down (kWh/24h)**	4.2100
Energy Consumption Continuous Power (kWh/24h)	4.1300		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	153.000	**Refrigerant type**	R290
Solar radiation ref period (kWh/m2/day)	1.00		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A	**Waterpack freezing capacity (Kg/24 hrs)**	16.80

Comments	Waterpack freezing capacity: 16.8kg/24hou Waterpack storage capacity: 130.8kg
List of accessories	3 baskets, lock and key, Fridge Tag 2E with external sensor, Solar Display Thermometer, Voltage Stabilizer (110V-280V) Optional (charged extra): RTMD (E006-036)
List of spare parts, Reference & Price	1) Compressor 2) Electronic Controller 3) Condenser 4) Fan Motor 5) Capacitor

PRICE AND SHIPPING

Shipping volume (m3)	0.78	**Shipping weight (kg)**	95.00
Incoterms	EXW	**Price 1**	$1000 (1-9 units)
Price 2	$980 (10-99 units)	**Year of base price**	2023

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: Applicable PQS VP(s): E003/FZ01-VP.2

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ

PRODUCT SITES

Organization name	Godrej & Boyce MFG. Co. Ltd.
Address	Plant 01, Pirojshanagar, Vikhroli West Mumbai 400 079 India India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**HBD265**
IMD-PQS Code:	E003-131
Status:	Prequalified
Date of acceptance:	23 Mar 2023
Appliance type:	E003
Product description:	Combined icelined refrigerator/waterpacks freezer
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBD265
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	0.00
Hold over time (hours:mn)	11:25	**External dimensions length (mm)**	940.00
External dimensions width (mm)	717.00	**External dimensions height (mm)**	1647.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz	**Energy Consumption During Freezing (kWh/24h)**	1.4000
Energy Consumption Continuous Power (kWh/24h)	1.4200		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	211.000	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	1.00		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer's gross volume (Litres)	265.00

Comments	Optional: Remote temperature monitoring device 1. Display: Solar LED Temperature Display 2. Low power consumption
List of accessories	1. Instructions 2. Key 3. Handle component 4. Basket 5. Alcohol thermometer 6. 30 days temperature logger
List of spare parts, Reference & Price	"1 No. Dry filter Part-0074180001 2 No. overload protector 0274300008B 1 No. Switch 0075050003 1 No. Thermo sensor-0274000357A 1 No. Thermostat with sensor 0274000352A 1 No. Compressor-0060705994A 1 No. Fan 0074000172 2 No. Indicator 0075050018 2 No. Displayer 0274000357 1 No. Sticker-0270501015B"

PRICE AND SHIPPING

Shipping volume (m3)	1.4	**Shipping weight (kg)**	160.00
Price 1	USD 1313	**Year of base price**	2023

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-22-0203		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**VLS 096A RF SDD**
IMD-PQS Code:	E003-132
Status:	Prequalified
Date of acceptance:	16 Mar 2023
Appliance type:	E003
Product description:	Solar Direct Drive Refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 096A RF SDD
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	114,33
External dimensions length (mm)	740.00	**External dimensions width (mm)**	1510.00
External dimensions height (mm)	870.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Solar direct drive
Lining	Ice-lined	**Energy Consumption During Freezing (kWh/24h)**	1.4890
Energy Consumption Intermittent Power (kWh/24h)	1.3520	**Energy Consumption Cool Down (kWh/24h)**	1.3520
Energy Consumption Continuous Power (kWh/24h)	1.4100		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	110.000	**Refrigerator's gross volume (Litres)**	147.000
Autonomy (hrs:mn)	114.33	**Refrigerant type**	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer's gross volume (Litres)	50.00	**Waterpack freezing capacity (Kg/24 hrs)**	2.40
Waterpack storage capacity (Litres)	16.80		

Comments	Prices include Vestfrost Solutions SDD PV energy system, roof adjustable, plug & play; Unit equipped with unique QR code, that can be used along Vestfrost Solutions Unit tracker APP, containing various installation/service features. As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5” touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Waterpack freezing capacity: 2.4 kg per/24h = 4 x 0.6 L Waterpacks per/24h Waterpack storage capacity: 28 x 0.6L

List of accessories	2 X Vaccine storage top basket; Bottom grating; 30 day electronic temperature logger; Self regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD 35K) Complete R600a Incl. ECU - Part No. 8-036510223 1 No. Thermostat refrigerator - Part No. 7095714 1 No. Thermostat freezer – Part No. 7095715 1 No. Fan Set (KD1208PTB3) 12 V DC Part No. 7030823 1 No. Thermometer, solar, Part No.7020392-03 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.31	**Shipping weight (kg)**	190.00
Incoterms	EXW	**Price 1**	6.485 EUR
Year of base price	2023		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	Danish Technological Institute	**Address**	Gregersensvej DK-2630 Taastrup Danemark Denmark
Phone	+45 72202472	**Email**	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-22-106		

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark Denmark

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**I425H120**
IMD-PQS Code:	E003-133
Status:	Prequalified
Date of acceptance:	08 Jul 2023
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Western Refrigeration Private Limited
Manufacturers Reference:	I425H120
Country of Manufacture:	India
Address:	7/B, Pannalal Silk Mill Compound, L.B.S. Marg, Bhandup (West), Mumbai 400078. India India
Telephone:	+91 22 - 67161200
Email:	paresh@westernequipments.com
Website address:	https://www.westernequipments.com/
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Multizone	**Minimum rated ambient temperature (°C)**	10.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	42:30
External dimensions length (mm)	805.00	**External dimensions width (mm)**	1320.00
External dimensions height (mm)	970.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Lining**	Ice-lined
Energy Consumption Cool Down (kWh/24h)	1.4500	**Energy Consumption Continuous Power (kWh/24h)**	1.5000

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	192.000	**Refrigerator's gross volume (Litres)**	253.000
Refrigerant type	R290		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A	**Waterpack freezing capacity (Kg/24 hrs)**	0.00
Waterpack storage capacity (Litres)	0.00		

List of accessories	keys, 30 day Temperature data logger, Voltage Stabilizer and Instruction Manual
List of spare parts, Reference & Price	1 No Compressor, 1 No Condensor Fan, 1 No Evaporator Fan, 1 No Digital Controller, 1 No Battery for Digital controller, 1 No Transformer for Digital controller, 1 No 2 Pole ON/ OFF switch, 1 No 30 day temperature data logger, 1 Door Switch, 1 No Application Sensor, 1 Power cord, 1 Buzzer, 1 No Drier, 1 No Stabilizer and Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.24	**Shipping weight (kg)**	135.00
Price 1	1 to 99 Units - 1550 USD	**Price 2**	100 to 200 Units- 1420 USD
Year of base price	2023		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015

VERIFICATION

Verification Laboratory	UL India Private Limited	**Address**	A-12, Infocity-1, Sector-34, Gurgaon (Haryana)-122001 India
Phone	+91-8130427334	**Email**	satish.kumar@ul.com
Verification Report Reference	4790194057-01-OTHER-S1		

PRODUCT SITES

Organization name	Western Refrigeration Private Limited
Address	Survey No 633, 635, 636, 647, 654, 707, 726, 732, 741, 747, 748, and 752 At. Village Tadgam, Tal. Umbergaon, Dist. Valsad, Gujrat, 396135 . India

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**Emvolio Plus**
IMD-PQS Code:	E003-134
Status:	Prequalified
Date of acceptance:	26 Sep 2023
Appliance type:	E003
Product description:	Transportable, powered vaccine storage appliances
Manufacturer:	BlackFrog Technologies Private Limited
Manufacturers Reference:	Emvolio Plus
Country of Manufacture:	India
Address:	#4, 4th Floor, Advanced Research Center, Behind MMMC, Madhav Nagar, Manipal, Karnataka, India - 576104 India
Telephone:	+918202572478
Email:	sales@blackfrog.in
Website address:	http://blackfrog.in/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	10.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	12
External dimensions length (mm)	300.00	**External dimensions width (mm)**	200.00
External dimensions height (mm)	410.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric- Thermoelectric
Energy source	110-240V 50/60Hz	**Energy Consumption Cool Down (kWh/24h)**	0.9000
Energy Consumption Continuous Power (kWh/24h)	0.8400		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	1.550	**Refrigerator's gross volume (Litres)**	1.800
Refrigerant type	Cable		

Comments	AC use only. Emvolio is a portable battery-powered active cooled vaccine carrier with an in-built temperature control and regulation. The system is able to store and carry vaccines to remote locations with temperature accountability to retain vaccine effectiveness. a.) The refrigerator comes with a custom-designed backpack that can be easily worn by a health worker or even motorcycle mounted. b.) The refrigerator has an in-built GSM-based IoT system that tracks live vital statistics like temperatures (multiple sensors inside, ambient), location and door opening. This is available for access via an online dashboard that is provided free for the first year's use with the product, following which a yearly subscription charge will be levied for use. Customer supplies SIM card and SMS gateway services. c.) Battery Independence time: 12 HRS 18min
List of accessories	Included in price: - Multipurpose Backpack. - User Manual with warranty terms. - Reset Pin. - 150 W Charger/Adaptor. - Power cord. Optional(Charged extra): - Silicon vial-holder multi-stage (slot size to be determined by the user).
List of spare parts, Reference & Price	- Latch. - Latch Hook. - Hinge Right side. - Hinge Left side. - M3*6. - M3*12. - M4*8. - M3*8. - Charging Port. - Rechargeable Li-Ion Battery. - Silicon Gasket

PRICE AND SHIPPING

Shipping volume (m3)	0.719	**Shipping weight (kg)**	11.00
Incoterms	EXW	**Price 1**	USD 2500 for 1-100 units
Price 2	USD 2400 for 101-500 units	**Price 3**	USD 2250 for 500+ units

Year of base price	2023

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-22-000949-001

PRODUCT SITES

Organization name	BlackFrog Technologies Private Limited
Address	#4, 4th Floor, Advanced Research Center, Behind MMMC, Madhav Nagar, Manipal, Karnataka, India - 576104 India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**HTCD-160B**
IMD-PQS Code:	E003-135
Status:	Prequalified
Date of acceptance:	20 Nov 2023
Product description:	Solar direct drive combined refrigerator/freezer
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTCD-160B
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Freeze protection	Grade A	**External dimensions length (mm)**	865.00
External dimensions width (mm)	825.00	**External dimensions height (mm)**	1695.00
Appliance tested at (°C)	43.00	**Performance at" (°C)**	43.00
Energy source	Solar direct drive		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator's gross volume (Litres)	40.000	**Autonomy (hrs:mn)**	139
Refrigerant type	R600a	**Solar radiation ref period (kWh/m2/day)**	3.50

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Waterpack freezing capacity (Kg/24 hrs)	2.00	**Waterpack storage capacity (Litres)**	22.40

Comments	"1. Display: Solar LED Temperature Display 2. Low power consumption" For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex Energy consumption, cool 1.1 Energy consumption during and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier down test (kWh/24 hours): freezing: of the solar energy system at the time of ordering. Optional: Remote temperature monitoring device
List of accessories	2 shelves; 2 padlocks; Instruction manual; Water injection device; Water preservative
List of spare parts, Reference & Price	"2 No. Display-0274000357 1 No. Thermostat-0274000352 1 No. Fan Set Part-0274000351 1 No. Compressor BD-35K-0274000118A 1 No. Main Switch-0274000354B 1 No. Capacitor-0274000393 1 No. USB charging port-0274000389 2 No. Dry filter Part-0060703262 1 No. Thermo sensor-0274000358 1 No. Thermo sensor-0274000357A 1 No. Thermo sensor-0274000353 2 No. Sticker-0270501015 2 No. Indicator Part-0074000574 1 No. Compressor controller (E-Box) Part-0274000118FJ"

PRICE AND SHIPPING

Shipping volume (m3)	1.69	**Shipping weight (kg)**	186.00
Year of base price	2023		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de Chine China
Phone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-23-0101		

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**GHR 200 AC**
IMD-PQS Code:	E003-136
Status:	Prequalified
Date of acceptance:	06 Dec 2023
Product description:	Icelined refrigerator
Manufacturer:	Godrej & Boyce MFG. Co. Ltd.
Manufacturers Reference:	GHR 200 AC
Country of Manufacture:	India
Address:	Plant 01, Pirojshanagar, Vikhroli West Mumbai 400 079 India India
Telephone:	+91 22 67966423
Email:	pratika@godrej.com
Website address:	http://www.godrejappliances/medical
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Minimum rated ambient temperature (°C)	10.00	**Freeze protection**	Grade A
Hold over time (hours:mn)	34.59	**External dimensions length (mm)**	846.00
External dimensions width (mm)	1260.00	**External dimensions height (mm)**	847.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - absorption
Energy source	Electric Mains 220-240V 50/60Hz	**Energy Consumption Continuous Power (kWh/24h)**	1.6700

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	226.400	**Refrigerator's gross volume (Litres)**	287.000

List of accessories	"Baskets, lock and key, Fridge Tag 2E with internal sensor, Solar Display Thermometer, Voltage Stabilizer (110V-280V)"
List of spare parts, Reference & Price	1) Compressor 2) Electronic Controller 3) Condenser 4) Fan Motor 5) Capacitor

PRICE AND SHIPPING

Shipping volume (m3)	1.25	**Shipping weight (kg)**	158.00
Incoterms	EXW	**Price 1**	Price 1 (Range 1-99 units) - USD1400
Price 2	Price 2 (Range 100-199 units) - USD1400	**Price 3**	Price 3 (Range 200+ units) - USD1372
Year of base price	2023		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-23-000594-004

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**GHR 90 AC**
IMD-PQS Code:	E003-137
Status:	Prequalified
Date of acceptance:	15 Dec 2023
Product description:	Icelined refrigerator
Manufacturer:	Godrej & Boyce MFG. Co. Ltd.
Manufacturers Reference:	GHR 90 AC
Country of Manufacture:	India
Address:	Plant 01, Pirojshanagar, Vikhroli West Mumbai 400 079 India India
Telephone:	+91 22 67966423
Email:	pratika@godrej.com
Website address:	http://www.godrejappliances/medical
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	10.00
Freeze protection	Grade A	**External dimensions length (mm)**	846.00
External dimensions width (mm)	762.00	**External dimensions height (mm)**	847.00
Appliance tested at (°C)	43.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Electric Mains 220-240V 50/60Hz
Energy Consumption Continuous Power (kWh/24h)	1.6400		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	103.500	**Refrigerator's gross volume (Litres)**	136.000
Refrigerant type	#R290		

List of accessories	"Baskets, lock and key, Fridge Tag 2E with internal sensor, Solar Display Thermometer, Voltage Stabilizer (110V-280V)"
List of spare parts, Reference & Price	1) Compressor 2) Electronic Controller 3) Condenser 4) Fan Motor 5) Capacitor

PRICE AND SHIPPING

Shipping volume (m3)	0.78	**Shipping weight (kg)**	100.00
Incoterms	EXW	**Price 1**	USD 1000
Price 2	USD 1000	**Price 3**	USD 980
Year of base price	2023		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-23-000594-004

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**TVW4000AC**
IMD-PQS Code:	E003-138
Status:	Prequalified
Date of acceptance:	16 Jan 2024
Appliance type:	E003
Product description:	Vaccine/waterpacks freeze
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TVW4000AC
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	5.00
Hold over time (hours:mn)	50:09	**External dimensions length (mm)**	780.00
External dimensions width (mm)	915.00	**External dimensions height (mm)**	1600.00
Appliance tested at (°C)	43.00	**Performance at" (°C)**	43.00
Fuel and refrigeration cycle	Electric - compression	**Energy source**	Electric Mains 220-240V 50/60Hz
Energy Consumption During Freezing (kWh/24h)	4.4500	**Energy Consumption Cool Down (kWh/24h)**	4.0600
Energy Consumption Continuous Power (kWh/24h)	4.4500		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	240.000	**Refrigerator's gross volume (Litres)**	249.000
Refrigerant type	R290		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Waterpack storage capacity (Litres)	252.00

Comments	Optionally available: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to all requirements of the WHO PQS E006/TR03.2 except for the LCD display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 years. For more information and further conditions of warranty, please contact B Medical Systems. Optionally available in 115V/60Hz Waterpack freezing capacity 24KG / 15HRS
List of accessories	6 baskets, 2 keys, condenser cleaning brush, documentation
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 Controller TVW 4000 AC296.9769.93 1 Run Capacitor 296.9706.63 1 Fan 292.9960.18 1 Compressor 220-240V 296.9701.63 1 Sensor 296.9805.06 1 Starting Relay 296.9706.62 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.39	**Shipping weight (kg)**	124.00
Incoterms	EXW	**Price 1**	4377 Euros

Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015; ISO 140021:2015

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex France France
Phone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO23-02		

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**GHR 150 AC**
IMD-PQS Code:	E003-139
Status:	Prequalified
Date of acceptance:	25 Jan 2024
Appliance type:	Icelined refrigerator
Product description:	Icelined refrigerator
Manufacturer:	Godrej & Boyce MFG. Co. Ltd.
Manufacturers Reference:	GHR 150 AC
Country of Manufacture:	India
Address:	Plant 01, Pirojshanagar, Vikhroli West Mumbai 400 079 India India
Telephone:	+91 22 67966423
Email:	pratika@godrej.com
Website address:	http://www.godrejappliances/medical
Valid until:	31 Dec 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	10.00
Freeze protection	Grade A	**Hold over time (hours:mn)**	40.22
External dimensions length (mm)	842.00	**External dimensions width (mm)**	845.00
External dimensions height (mm)	1010.00	**Appliance tested at (°C)**	43.00
Performance at" (°C)	43.00	**Fuel and refrigeration cycle**	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional	**Energy Consumption Cool Down (kWh/24h)**	1.6800
Energy Consumption Continuous Power (kWh/24h)	1.7700		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	164.500	**Refrigerator's gross volume (Litres)**	210.000
Refrigerant type	#R290		

List of accessories	Baskets, lock and key, Fridge Tag 2E with internal sensor, Solar Display Thermometer, Voltage Stabilizer (110V-280V)
List of spare parts, Reference & Price	1) Compressor 2) Electronic Controller 3) Condenser 4) Fan Motor 5) Capacitor

PRICE AND SHIPPING

Shipping volume (m3)	1.02	**Shipping weight (kg)**	133.20
Incoterms	EXW	**Price 1**	USD 1,150.00 (1-99 units)
Price 2	USD 1,127.00 (100 -199 units)	**Price 3**	USD 1,104.00 (200+)
Year of base price	2024		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-23-000594-003

Current PQS status:	*Prequalified*	**Valid until:**	*31 Dec 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**Indigo 201**
IMD-PQS Code:	E003-140
Status:	Prequalified
Date of acceptance:	15 Jul 2024
Product description:	Transportable vaccine storage device
Manufacturer:	EMK TEC GmbH
Manufacturers Reference:	Indigo 201
Country of Manufacture:	Germany
Telephone:	+49 (34652) 670207
Website address:	https://emk-tec.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Minimum rated ambient temperature (°C)	10.00	**Freeze protection**	Grade A
Hold over time (hours:mn)	120	**External dimensions length (mm)**	355.00
External dimensions width (mm)	482.50	**External dimensions height (mm)**	355.00
Appliance tested at (°C)	43.00	**Performance at" (°C)**	43.00
Energy source	Electric Mains 220-240V 50/60Hz		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	1.700	**Refrigerator's gross volume (Litres)**	2.000
Refrigerant type	Water		

Comments	"There are two components in the Indigo system: the transportable 201 Vaccine Carrier and the stationary C1 Charger. The vaccine carrier has features and capabilities that extend the reach of immunization programs. • Extended cooling: Provides vaccine-safe storage temperatures for five days of continuous use at 10 to 43 °C ambient temperature, without external power. • Freeze-free: Prevents vaccine exposure to freezing temperatures without action from the user. • On/off switch: The five-day cold life of a charged vaccine carrier may be stored until needed. • Safe: Contains no harmful materials or refrigerants. • Portable: Transportable by car, motorcycle, or on foot. • Reusable and durable with two year warranty The charger restores the cooling capacity of the vaccine carrier after use. It is engineered to perform in the most challenging power environments. An operating range from 110VAC to 278VAC creates adaptability across infrastructures, while a suite of voltage stabilization features protects against damage and underperformance. For a single charge, the C1 Charger has a 4 hour charge cycle drawing 900 W for the first 2 hours and 100 W for the last 2 hours totaling 2 kWh of energy per charge. After the charge is complete the transportable Indigo Vaccine Carrier can be stored until ready for use and needs no additional power input to provide its five days of cold life. A single charger supports multiple vaccine carriers. Changes in geography, fuel cost, and staffing costs can drive the optimal carrier-to-charger ratio for a specific deployment as low as 4:1 or as high as 20:1. Sample weight is 8.8 kg. Visit www.indigocold.org to learn more. Shipping volume: Carrier: 0.08 m3; Charger0.18m3 Shipping weight: 11 kg; Charger 34kg
List of accessories	Engligh/French manuals, No. 1 Phillps screwdriver, VaroTM OTG Adaptor
List of spare parts, Reference & Price	For every 50 transportable vaccine carriers purchased, we recomend 1 set of vaccine carrier spare parts (cooler, lid, and bag).

PRICE AND SHIPPING

Shipping volume (m3)	0.026	**Shipping weight (kg)**	45.00
Incoterms	EXW	**Price 1**	carrier: USD1,450 ; charger: USD 2,900
Year of base price	2024		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

VERIFICATION

Verification Laboratory	Re/Gent B.V	**Address**	Lage Dijk 22 Netherlands
Phone	+31492 476365	**Email**	patrick.beks@re-gent.nl
Verification Report Reference	22437/EK02/V1		

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E003: Refrigerators and freezers



Product name:	**SC-DF25P Deep FreezerP**
IMD-PQS Code:	E003-141
Status:	Prequalified
Date of acceptance:	01 Oct 2024
Product description:	Vaccine Freezer
Manufacturer:	Twinbird Corporation
Manufacturers Reference:	SC-DF25P Deep FreezerP
Country of Manufacture:	Japan
Telephone:	+81 33663-8774
Email:	takeshi_suzuki@twinbird.co.jp
Website address:	https://www.twinbird.jp/fpsc_en/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Minimum rated ambient temperature (°C)**	0.00
Hold over time (hours:mn)	78	**External dimensions length (mm)**	350.00
External dimensions width (mm)	460.00	**External dimensions height (mm)**	695.00
Performance at" (°C)	43.00	**Energy source**	110-240V 50/60Hz
Energy Consumption Continuous Power (kWh/24h)	1.0100		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	15.000	**Refrigerator's gross volume (Litres)**	15.000

Comments	Stationary freezer, Light weight:16.5kg, Small size, Low power comsumption, Recycled parts: Temperature logger(Temperature logger has an built-in battery.) Operate with E007 Single Phase Voltage Stabilizer.
List of accessories	U-Cool:Temperature logger, U-Cool-1:Temp. logger Data cable, SC-AD70B:AC adapter, SC-AD70B-1:Power cable, SC-DF25P-1:Inner lid, SC-DF25-8:Mat, C-1572:Pad lock, SC-DF25P-155:Instruction manual,
List of spare parts, Reference & Price	U-Cool:Temperature logger, U-Cool-1:Temp. logger Data cable, SC-AD70B:AC adapter, SC-AD70B-1:Power cable, SC-DF25M-1:Inner lid, SC-DF25-8:Mat, C-1572:Pad lock, SC-DF25P-155:Instruction manual, SC-C925-41:Lid packing inner, SC-C925-40:Lid packing outer, SC-C925-17:Air inlet Filter, C-30-MR6:Masking rivet,

PRICE AND SHIPPING

Shipping volume (m3)	0.2	**Shipping weight (kg)**	22.00
Incoterms	EXW	**Price 1**	USD 2900
Year of base price	2024		

QUALITY STANDARD

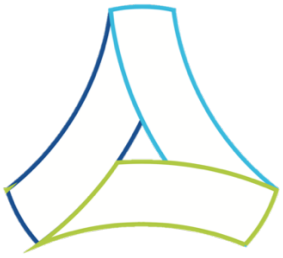
Quality Standard	Other	**Quality standard (Other)**	ISO 14001; ISO 9001:2015

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937 Singapore
Phone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	7191313298-EEC23		

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



E004

Cold boxes and vaccine carriers

The category E004 includes cold boxes, vaccine carriers and other passive, insulated containers used primarily for the transport and sometimes for the temporary storage of vaccines. Passive devices are non-powered devices that use ice-packs or other thermal storage materials to control the temperature of the vaccine compartment.

Details regarding the products included in each sub-category of E004, as well as guidelines, performance specifications and verification protocols for this category, can be accessed through the drop-down sections below.

E004.1: Choosing a cold box or vaccine carrier

End-users of insulated containers and their procurement agents are advised to consider the following points when choosing vaccine storage equipment from this category:

Vaccine storage capacity: Vaccine storage capacity of each product is detailed on the individual product data sheets. The quantity and type of vaccine that requires transportation will be determined by the intended programmatic use of the cold box or vaccine carrier. Further guidance on the selection of passive containers can be found in the WHO Vaccine Management Handbook How to use passive containers and coolant-packs for vaccine transport and outreach operations.

Freeze-preventive products:

Freeze-preventive vaccine carriers and cold boxes should be considered for Expanded Programmes on Immunization (EPIs) that employ a frozen water pack policy (FWP). Freeze-preventive vaccine carriers and cold boxes protect vaccines from being exposed to freezing temperatures, they do not require icepack conditioning and they maintain a long cold life. (Cold life is measured from the moment when the container lid is closed until the temperature of the warmest point in the vaccine storage compartment first reaches +10°C, at a constant ambient temperature of +43°C.) Storage volume may however be reduced in these products due to the addition of a freeze-prevention barrier between the icepacks and vaccines.

Cold/warm life: Three types of cold/warm life are included on the product data sheets, which indicate for how long a cold box or vaccine carrier maintains a safe storage temperature during transport.

- cold life with frozen icepacks
- cool life with cool water-packs
- warm life with warm water-packs.

Further guidance on the selection and use of coolant-packs can be found in the aforementioned WHO Vaccine Management Handbook "How to use passive containers and coolant-packs for vaccine transport and outreach operations".

Weight: Vaccine carriers are designed for a maximum fully loaded weight of 8 kg or less, and for cold boxes of 50 kg or less. However, in practice the maximum acceptable loaded weight is determined by how the box will be transported: by vehicle; by animal; by bicycle; or by hand. For health and safety reasons a worker should not be asked to lift a load greater than 25 kg and some workers may find this load excessive. Larger cold boxes may require two people to lift.

Durability: End-users and procurement agents should consider the conditions to which the insulated container will be exposed. Durability may be more important than weight for a container transported by vehicles over rough roads. The reverse applies to hand-carried boxes where weight and carrying comfort may be more important. Vaccine carriers are either constructed with a hard-plastic exterior, or with a soft canvas or flexible material around the insulated walls. Experience has shown that the soft, canvas-type carriers have a shorter life-span; they are liable to wear and tear given environmental conditions and the catches and straps also tend to disintegrate over time. A warning about their short working life is included in the data sheets. Backpacks custom made to carry some vaccine carriers are now available, and additionally, confer ergonomic advantages.

Foaming agent: Products which use cyclopentane or other alternative materials as the insulation foaming agent are environmentally preferable to products that use R141b due to effects on ozone depletion. Products containing CFCs are no longer acceptable under WHO IMD-PQS standards for prequalification.

Water-packs: Before placing an order, check that water-packs are included. If they are not included, select the appropriate water-pack model that will fit the chosen insulated container and order them at the same time. The product data sheets specify how many and which water-packs models are required. Consider ordering two sets so that one set can be frozen, or cooled, while the other set is in use.

Water-pack standardization: Wherever possible, try to purchase cold boxes and vaccine carriers which use just one size of water-pack and use these across the entire programme. This simplifies distribution management and prevents the use of water-packs which are not designed to fit the available cold boxes and vaccine carriers.

Cost: Insulated containers are bulky and shipping costs can often represent a high proportion of the total delivered price. Consider both the purchase price (EXW - ex-works)

and the shipping cost before making a final decision. Choose a product that fulfils programme and equipment requirements at the lowest cost.

Optional accessories: Some insulated containers may be offered with optional accessories, such as alternative carrying straps or backpacks, which may in some cases be costed in addition to the equipment: check this with the supplier and procurement agent at the time of procurement.

E004.2: Cool water-packs and warm water-packs

Cool water packs completely eliminate the risk of freezing freeze-sensitive vaccines, but they have a shorter period of safe storage compared to frozen water-packs. Correctly used, they do not cause a significant loss of potency due to heat exposure. Warm water-packs can be used to protect vaccines against freeze damage during transport in very cold climates.

Further guidance on the use of cool and warm water-packs can be found in the WHO Vaccine Management Handbook How to use passive containers and coolant-packs for vaccine transport and outreach operations.

E004.3: Keeping vaccines cool during immunization sessions

A number of vaccine carriers are supplied with a foam pad insert. This serves as a temporary lid to keep vaccines cool, whilst at the same time providing a surface to hold and protect vaccine vials during immunization sessions. The insert is a simple piece of soft foam which fits tightly inside the "neck" of the carrier on top of the icepacks and below the lid.

The practice of removing an icepack from the carrier and placing the reconstituted vial in the hole molded into its surface is no longer recommended. Placing freeze-sensitive vaccines in contact with a frozen icepack could result in loss of vaccine potency.

E004.4: Calculating requirements

To calculate the quantity of vaccine that must be transported, use data on vaccine volume per dose taken from Table 7 of the WHO guidelines on the international packaging and shipping of vaccines or use the EVM assessment tool which can be downloaded from the website of the Effective Vaccine Management Initiative.

E004.5: Future developments

There is an increasing need for larger-capacity products in the immunization supply chain because vaccine volumes are increasing dramatically. Large-capacity insulated containers would offer the possibility of simpler and more secure transport for large quantities of

vaccines from primary to sub-national level. WHO will explore developing suitable IMD-PQS specifications for this type of insulated container.

As the vaccine volumes increase, and with increased weight and size of equipment to prevent vaccine freezing, transporting and especially carrying insulated containers by hand can be more difficult and less comfortable for health workers. WHO intends to support the development specifications to

WHO intends to support the development of specifications that will help encourage improvements to ergonomics and comfortability of this type of equipment.

CATEGORY DOCUMENTATION, GUIDANCE FOR MANUFACTURERS/SUPPLIERS & SUPPORTING INFORMATION FOR USERS

Performance specifications

PQS performance specification E004/CB06.1: Vaccine cold box – Ultra-low temperature storage (provisional)

PQS performance specification E004/CB02.1: Large capacity vaccine cold box

PQS performance specification E004/VC01.2: Vaccine carrier

PQS performance specification E004/VC02.1: Vaccine carrier with freeze-prevention technology

PQS performance specification E004/CB01.3: Vaccine cold box

PQS performance specification E004/CB04.1: Vaccine cold box – long-term storage – 10 days

PQS performance specification E004/CB03.1: Vaccine cold box – long-term storage – 35 days

PQS performance specification E004/CB05.3: Vaccine cold box with freeze-prevention technology

Verification protocols

PQS type-testing protocol E004/CB02-VP.1: Large-capacity vaccine cold box

PQS independent type-testing protocol E004/VC01-VP2: Vaccine carrier

PQS independent type-testing protocol E004/CB01-VP.3: Vaccine cold box

PQS independent type-testing protocol E004/CB05-VP.3: Vaccine cold box with freeze-prevention technology

PQS type-testing protocol E004/CB04-VP.1: Vaccine cold box – long-term storage – 10 days

PQS type-testing protocol E004/CB03-VP.1: Vaccine cold box – long-term storage – 35 days

PQS type-testing protocol E004/VC02.VP.1: Vaccine carrier with freeze-prevention technology

Guidance for manufacturers/suppliers

Generic guide for the field evaluation of new technologies for WHO PQS prequalification GENERIC/GUIDE 1.1

IMD-PQS Guidelines for Prequalification Holders

Supporting information for users

Aide-memoire for prevention of freeze damage to vaccines

Guidelines on the international packaging and shipping of vaccines

How to calculate vaccine volumes and cold chain capacity requirements

How to develop and repair a maintenance system for cold chain equipment

How to use passive containers and coolant-packs for vaccine transport and outreach operations

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**RCW4**
IMD-PQS Code:	E004-002
Status:	Prequalified
Date of acceptance:	22 Mar 2010
Appliance type:	E004
Product description:	Vaccine Carrier LR 3L
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	RCW4
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	3.00	**Gross storage volume (Litre)**	3.6100
External dimensions length (mm)	362.00	**External dimensions height (mm)**	299.00
External dimensions width (mm)	283.00	**Internal dimensions (length, mm)**	260.00
Internal dimensions (height, mm)	186.00	**Internal dimensions (width, mm)**	156.00
Cold life at +43°C * (hrs:mn)	30:3	**Warm life at - 20°C *(hrs:mn)**	12:9
Cool life at +43°C *(hrs:mn)	6:7	**Weight empty(Kg)**	3.1000
Weight fully loaded (Kg)	7.30	**Coolant packs**	0.3 L and 0.6 L
Number coolant packs	7.00	**Type coolant packs**	Water packs
Model coolant pack	6 x 03 l + 1 x 06 l	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	23 - 27 mm
Container type	Vaccine carrier	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Warm life at - 20°C: 129 hours Range storage capacity: 2 - 5 L Title: VC 3L RCW4 Dometic Accessories: 6 waterpacks of 0.3L; 1 waterpack of 0.6L; 1 crystal thermometer; inserts (small and large); carrying strap.

PRICE AND SHIPPING

Shipping volume (m3)	0.036	**Shipping weight per carton(kg)**	4
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	>100 units: 296 €	**Year of base price**	2025
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14001:2015
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	A65524a

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**RCW8**
IMD-PQS Code:	E004-003
Status:	Prequalified
Date of acceptance:	22 Mar 2010
Appliance type:	E004
Product description:	Cold Box SR 6L
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	RCW8
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	6.00	**Gross storage volume (Litre)**	7.0500
External dimensions length (mm)	588.00	**External dimensions height (mm)**	437.00
External dimensions width (mm)	288.00	**Internal dimensions (length, mm)**	460.00
Internal dimensions (height, mm)	245.00	**Internal dimensions (width, mm)**	180.00
Cold life at +43°C * (hrs:mn)	57:9	**Warm life at - 20°C *(hrs:mn)**	21:6
Cool life at +43°C *(hrs:mn)	12:00	**Weight empty(Kg)**	6.8000
Weight fully loaded (Kg)	16.40	**Coolant packs**	0.3 L and 0.6 L
Number coolant packs	12.00	**Type coolant packs**	Water packs
Model coolant pack	10 x 06 l + 2 x 03 l	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	50 - 60 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Warm life at - 20°C: 216 hours Range storage capacity: 5 - 10 L Title: CB RCW8 6L Accessories: 10 waterpack of 0.6L; 2 waterpacks of 0.3L; crystal thermometer; inserts (small and large); carrying strap

PRICE AND SHIPPING

Shipping volume (m3)	0.089	**Shipping weight per carton(kg)**	10
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	>100 or more units: 346 €	**Year of base price**	2025
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14001:2015
Specification Reference	Applicable PQS specification: E004/VC1.1 Applicable PQS VP(s): E004/VC1-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	A65524b

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**RCW12**
IMD-PQS Code:	E004-004
Status:	Prequalified
Date of acceptance:	22 Mar 2010
Appliance type:	E004
Product description:	Cold Box LR 7L
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	RCW12
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 May 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	7.00	**Gross storage volume (Litre)**	9.2300
External dimensions length (mm)	550.00	**External dimensions height (mm)**	499.00
External dimensions width (mm)	475.00	**Internal dimensions (length, mm)**	340.00
Internal dimensions (height, mm)	270.00	**Internal dimensions (width, mm)**	260.00
Cold life at +43°C * (hrs:mn)	114:50	**Warm life at - 20°C *(hrs:mn)**	40:09
Cool life at +43°C *(hrs:mn)	26:4	**Weight empty(Kg)**	11.7000
Weight fully loaded (Kg)	23.30	**Coolant packs**	0.6 L
Number coolant packs	14.00	**Type coolant packs**	Water packs
Model coolant pack	06 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	90 - 105 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Available as option and on request with B Medical Systems remote temperature monitoring device (RTMD) or 30-day logger separately. Accessories: 14 waterpacks 0.6L; 1 liquid crystal thermometer Range storage capacity: 5 - 10 L Title: CB 7L RCW12

PRICE AND SHIPPING

Shipping volume (m3)	0.148	**Shipping weight per carton(kg)**	17
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	>100 units: 666 €	**Year of base price**	2025
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015; 14001:2015
Specification Reference	Applicable PQS specification: E04/CB01.1 Applicable PQS VP(s): E04/CB01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	A65524c

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**RCW25**
IMD-PQS Code:	E004-005
Status:	Prequalified
Date of acceptance:	22 Mar 2010
Appliance type:	E004
Product description:	Cold Box LR 20L
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	RCW25
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	20.00	**Gross storage volume (Litre)**	20.6600
External dimensions length (mm)	710.00	**External dimensions height (mm)**	499.00
External dimensions width (mm)	550.00	**Internal dimensions (length, mm)**	496.00
Internal dimensions (height, mm)	264.00	**Internal dimensions (width, mm)**	334.00
Cold life at +43°C * (hrs:mn)	134:40	**Warm life at - 20°C *(hrs:mn)**	49:30
Cool life at +43°C *(hrs:mn)	34:24	**Weight empty(Kg)**	15.9000
Weight fully loaded (Kg)	38.90	**Coolant packs**	0.6 L
Number coolant packs	24.00	**Type coolant packs**	Water packs
Model coolant pack	0.6 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	90 - 105 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Available as option and on request with B Medical Systems remote temperature monitoring device (RTMD) or 30-day logger separately. Accessories: 24 waterpacks 0.6L; 1 liquid crystal thermometer Range storage capacity: 10 - 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.221	**Shipping weight per carton(kg)**	23
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	>100 or more units: 846 €	**Year of base price**	2025
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015; IS0 14001:2015
Specification Reference	Applicable PQS specification: E004/CB01.1 Applicable PQS VP(s): E004/CB01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	A65524d

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**ADVC-24**
IMD-PQS Code:	E004-007
Status:	Prequalified
Date of acceptance:	26 Apr 2010
Appliance type:	E004
Product description:	Vaccine Carrier SR 0.8L
Manufacturer:	AOV International LLP
Manufacturers Reference:	ADVC-24
Country of Manufacture:	India
Address:	C-22/25, Sector 57, Nolda 201301 [U.P.], India India
Telephone:	+91 80102 66834
Email:	rohit.raman@aovinternational.net
Website address:	www.aovinternational.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	0.80	**Gross storage volume (Litre)**	0.8000
External dimensions length (mm)	250.00	**External dimensions height (mm)**	210.00
External dimensions width (mm)	180.00	**Internal dimensions (length, mm)**	173.00
Internal dimensions (height, mm)	121.00	**Internal dimensions (width, mm)**	103.00
Cold life at +43°C * (hrs:mn)	20:16	**Warm life at - 20°C *(hrs:mn)**	7:55
Cool life at +43°C *(hrs:mn)	3:53	**Weight empty(Kg)**	1.3400
Weight fully loaded (Kg)	2.18	**Coolant packs**	0.4 L
Number coolant packs	2.00	**Type coolant packs**	Water packs
Model coolant pack	0.4 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	32-36 mm
Container type	Vaccine carrier	**External materials**	Polyethylene
Internal lining materials	Polystyrene	**Lid type fixing**	Removable lid

Comments	Vaccine storage dimensions (cm): 17.3 x 10.3 x 4.5 cm Range storage capacity: 2 L

PRICE AND SHIPPING

Shipping volume (m3)	0.15	**Shipping weight per carton(kg)**	21
Pieces per package	12 units	**Minimum order**	12.00
Price 1	7.5 USD per unit	**Year of base price**	2014
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/VC01.1 Applicable PQS VP(s): E004/VC01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	S09EEC01924/AT/JT		

PRODUCT SITES

Organization name	AOV International LLP
Address	D-137, EPIP, SURAJPUR SITE-V, KASNA, GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**AVC-44**
IMD-PQS Code:	E004-008
Status:	Prequalified
Date of acceptance:	26 Apr 2010
Appliance type:	E004
Product description:	Vaccine Carrier LR 1.35 L
Manufacturer:	AOV International LLP
Manufacturers Reference:	AVC-44
Country of Manufacture:	India
Address:	C-22/25, Sector 57, Nolda 201301 [U.P.], India India
Telephone:	+91 80102 66834
Email:	rohit.raman@aovinternational.net
Website address:	www.aovinternational.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.35	**Gross storage volume (Litre)**	1.3510
External dimensions length (mm)	240.00	**External dimensions height (mm)**	300.00
External dimensions width (mm)	240.00	**Internal dimensions (length, mm)**	99.00
Internal dimensions (height, mm)	165.00	**Internal dimensions (width, mm)**	99.00
Cold life at +43°C * (hrs:mn)	40:02	**Warm life at - 20°C *(hrs:mn)**	15:52
Cool life at +43°C *(hrs:mn)	7:48	**Weight empty(Kg)**	2.2200
Weight fully loaded (Kg)	4.36	**Coolant packs**	0.4 L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	0.4 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	35-40 mm
Container type	Vaccine carrier	**External materials**	Polyethylene
Internal lining materials	Polystyrene	**Lid type fixing**	Removable lid

Comments	Vaccine storage dimensions (cm): 9.0 x 9.1 x 16.5 cm Range storage capacity: 2 L

PRICE AND SHIPPING

Shipping volume (m3)	0.18	**Shipping weight per carton(kg)**	21
Pieces per package	8 units	**Minimum order**	8.00
Price 1	11.50 USD per unit	**Year of base price**	2018
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB01.1 Applicable PQS VP(s): E004/CB01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	S09EEC01925/AT/JT		

PRODUCT SITES

Organization name	AOV International LLP
Address	D-137, EPIP, SURAJPUR SITE-V, KASNA, GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**AVC-46**
IMD-PQS Code:	E004-009
Status:	Prequalified
Date of acceptance:	26 Apr 2010
Appliance type:	E004
Product description:	Vaccine Carrier LR 2.5 L
Manufacturer:	AOV International LLP
Manufacturers Reference:	AVC-46
Country of Manufacture:	India
Address:	C-22/25, Sector 57, Nolda 201301 [U.P.], India India
Telephone:	+91 80102 66834
Email:	rohit.raman@aovinternational.net
Website address:	www.aovinternational.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	2.50	**Gross storage volume (Litre)**	2.4600
External dimensions length (mm)	270.00	**External dimensions height (mm)**	320.00
External dimensions width (mm)	270.00	**Internal dimensions (length, mm)**	122.00
Internal dimensions (height, mm)	190.00	**Internal dimensions (width, mm)**	122.00
Cold life at +43°C * (hrs:mn)	50:12	**Warm life at - 20°C *(hrs:mn)**	15:57
Cool life at +43°C *(hrs:mn)	9:47	**Weight empty(Kg)**	2.9800
Weight fully loaded (Kg)	6.36	**Coolant packs**	0.6 L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	0.6 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	32-35 mm
Container type	Vaccine carrier	**External materials**	Polyethylene
Internal lining materials	Polystyrene	**Lid type fixing**	Removable lid

Comments	Vaccine storage dimensions (cm): 11.38 x 11.38 x 19.0 cm Range storage capacity: 2 - 5 L

PRICE AND SHIPPING

Shipping volume (m3)	0.11	**Shipping weight per carton(kg)**	14
Pieces per package	4 units	**Minimum order**	4.00
Price 1	12.00 USD	**Year of base price**	2016
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/VC01.1 Applicable PQS VP(s): E004/VC01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719164356EEC09/KGT		

PRODUCT SITES

Organization name	AOV International LLP
Address	D-137, EPIP, SURAJPUR SITE-V, KASNA, GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**AICB-444L**
IMD-PQS Code:	E004-010
Status:	Prequalified
Date of acceptance:	05 Mar 2010
Appliance type:	E004
Product description:	Cold box LR 23 L
Manufacturer:	Apex International
Manufacturers Reference:	AICB-444L
Country of Manufacture:	India
Address:	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India
Telephone:	+91-120-2574851
Email:	mail@apexint.org
Website address:	http://www.apex-international.org/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	18.00	**Gross storage volume (Litre)**	22.4500
External dimensions length (mm)	761.00	**External dimensions height (mm)**	513.00
External dimensions width (mm)	611.00	**Internal dimensions (length, mm)**	520.00
Internal dimensions (height, mm)	282.00	**Internal dimensions (width, mm)**	370.00
Cold life at +43°C * (hrs:mn)	140	**Warm life at - 20°C *(hrs:mn)**	51:00
Cool life at +43°C *(hrs:mn)	25:00	**Weight empty(Kg)**	19.9300
Weight fully loaded (Kg)	48.87	**Coolant packs**	0.4 L
Number coolant packs	44.00	**Type coolant packs**	Water packs
Model coolant pack	0.4 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	100 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Removable lid

Comments	Vaccine storage dimensions (cm): 44.8 x 30.0 x 16.7 cm Range storage capacity: 10 - 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.24	**Shipping weight per carton(kg)**	50
Pieces per package	1 unit	**Minimum order**	10.00
Price 1	10 or more units: 122 USD	**Year of base price**	2016
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB01.1 Applicable PQS VP(s): E004/CB01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719171845/EEC10		

PRODUCT SITES

Organization name	Apex International
Address	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**AIDVC-24**
IMD-PQS Code:	E004-011
Status:	Prequalified
Date of acceptance:	05 Mar 2010
Appliance type:	E004
Product description:	Vaccine Carrier SR 0.9 L
Manufacturer:	Apex International
Manufacturers Reference:	AIDVC-24
Country of Manufacture:	India
Address:	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India
Telephone:	+91-120-2574851
Email:	mail@apexint.org
Website address:	http://www.apex-international.org/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	0.90	**Gross storage volume (Litre)**	0.8250
External dimensions length (mm)	250.00	**External dimensions height (mm)**	214.00
External dimensions width (mm)	180.00	**Internal dimensions (length, mm)**	165.00
Internal dimensions (height, mm)	120.00	**Internal dimensions (width, mm)**	100.00
Cold life at +43°C * (hrs:mn)	21:30	**Warm life at - 20°C *(hrs:mn)**	8:00
Cool life at +43°C *(hrs:mn)	4:30	**Weight empty(Kg)**	1.3100
Weight fully loaded (Kg)	2.27	**Coolant packs**	0.4 L
Number coolant packs	2.00	**Type coolant packs**	Water packs
Model coolant pack	0.4 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	32 mm
Container type	Vaccine carrier	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Removable lid

Comments	Vaccine storage dimensions (cm): 16.5 x 10.0 x 5.0 cm Range storage capacity: 2 L

PRICE AND SHIPPING

Shipping volume (m3)	0.12	**Shipping weight per carton(kg)**	30
Pieces per package	12 units	**Minimum order**	24.00
Price 1	7.50 US$	**Year of base price**	2016
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/VC01.1 Applicable PQS VP(s): E004/VC01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719164808-EEC09/01		

PRODUCT SITES

Organization name	Apex International
Address	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**RCB-444L**
IMD-PQS Code:	E004-013
Status:	Prequalified
Date of acceptance:	05 Nov 2010
Appliance type:	E004
Product description:	Cold Box LR 23L
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	RCB-444L
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	23.00	**Gross storage volume (Litre)**	56.8000
External dimensions length (mm)	774.00	**External dimensions height (mm)**	530.00
External dimensions width (mm)	616.00	**Internal dimensions (length, mm)**	528.00
Internal dimensions (height, mm)	282.00	**Internal dimensions (width, mm)**	382.00
Cold life at +43°C * (hrs:mn)	130:08	**Warm life at - 20°C *(hrs:mn)**	20:25
Cool life at +43°C *(hrs:mn)	26:57	**Weight empty(Kg)**	17.0000
Weight fully loaded (Kg)	38.00	**Coolant packs**	0.4 L
Number coolant packs	44.00	**Type coolant packs**	Water packs
Model coolant pack	0.4 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	111 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Vaccine storage dimensions (cm): 45.0 x 30.0 x 17.0 cm Range storage capacity: > 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.26	**Shipping weight per carton(kg)**	23.6
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	1 or more units: 130 USD	**Year of base price**	2014
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E004/CB01.1 Applicable PQS VP(s): E004/CB01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 10-001		

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**ACB-503L**
IMD-PQS Code:	E004-015
Status:	Prequalified
Date of acceptance:	13 May 2010
Appliance type:	E004
Product description:	Cold box LR 18L
Manufacturer:	AOV International LLP
Manufacturers Reference:	ACB-503L
Country of Manufacture:	India
Address:	C-22/25, Sector 57, Nolda 201301 [U.P.], India India
Telephone:	+91 80102 66834
Email:	rohit.raman@aovinternational.net
Website address:	www.aovinternational.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	18.00	**Gross storage volume (Litre)**	22.5000
External dimensions length (mm)	770.00	**External dimensions height (mm)**	510.00
External dimensions width (mm)	610.00	**Internal dimensions (length, mm)**	530.00
Internal dimensions (height, mm)	305.00	**Internal dimensions (width, mm)**	375.00
Cold life at +43°C * (hrs:mn)	126:32	**Warm life at - 20°C *(hrs:mn)**	44:48
Cool life at +43°C *(hrs:mn)	28:05	**Weight empty(Kg)**	21.7800
Weight fully loaded (Kg)	45.86	**Coolant packs**	0.3 L
Number coolant packs	50.00	**Type coolant packs**	Water packs
Model coolant pack	0.3 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	100 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Vaccine storage dimensions (cm): 45.5 x 30.5 x 16.0 cm Range storage capacity: 10 - 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.27	**Shipping weight per carton(kg)**	25.5
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	115 USD per unit	**Year of base price**	2014
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB01.1 Applicable PQS VP(s): E004/CB01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719154910-EEC09		

PRODUCT SITES

Organization name	AOV International LLP
Address	D-137, EPIP, SURAJPUR SITE-V, KASNA, GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**ACB 246LS**
IMD-PQS Code:	E004-017
Status:	Prequalified
Date of acceptance:	07 Aug 2010
Appliance type:	E004
Product description:	Cold Box SR 16L
Manufacturer:	AOV International LLP
Manufacturers Reference:	ACB 246LS
Country of Manufacture:	India
Address:	C-22/25, Sector 57, Nolda 201301 [U.P.], India India
Telephone:	+91 80102 66834
Email:	rohit.raman@aovinternational.net
Website address:	www.aovinternational.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	16.00	**Gross storage volume (Litre)**	23.0000
External dimensions length (mm)	645.00	**External dimensions height (mm)**	350.00
External dimensions width (mm)	640.00	**Internal dimensions (length, mm)**	480.00
Internal dimensions (height, mm)	226.00	**Internal dimensions (width, mm)**	479.00
Cold life at +43°C * (hrs:mn)	93:33	**Warm life at - 20°C *(hrs:mn)**	31:22
Cool life at +43°C *(hrs:mn)	20:42	**Weight empty(Kg)**	14.5000
Weight fully loaded (Kg)	35.00	**Coolant packs**	0.6 L
Number coolant packs	24.00	**Type coolant packs**	Water packs
Model coolant pack	0.6 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	65 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Vaccine storage dimensions (cm): 39.9 x 39.6 x 14.5 cm Range storage capacity: 10 - 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.17	**Shipping weight per carton(kg)**	18
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	90 USD per unit	**Year of base price**	2018
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB01.2 Applicable PQS VP(s): E004/CB01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719154909-EEC09		

PRODUCT SITES

Organization name	AOV International LLP
Address	D-137, EPIP, SURAJPUR SITE-V, KASNA, GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**CB-12-CF**
IMD-PQS Code:	E004-018
Status:	Prequalified
Date of acceptance:	09 Feb 2010
Appliance type:	E004
Product description:	Cold Box LR 12L
Manufacturer:	Blowkings
Manufacturers Reference:	CB-12-CF
Country of Manufacture:	India
Address:	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India
Telephone:	+91-(0)22-22840120
Email:	munjal@blowkings.co.in
Website address:	http://www.blowkings.co.in/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	12.00	**Gross storage volume (Litre)**	13.8600
External dimensions length (mm)	610.00	**External dimensions height (mm)**	560.00
External dimensions width (mm)	600.00	**Internal dimensions (length, mm)**	340.00
Internal dimensions (height, mm)	348.00	**Internal dimensions (width, mm)**	330.00
Cold life at +43°C * (hrs:mn)	156	**Warm life at - 20°C *(hrs:mn)**	53:00
Cool life at +43°C *(hrs:mn)	33:00	**Weight empty(Kg)**	20.4000
Weight fully loaded (Kg)	45.00	**Coolant packs**	0.4 L
Number coolant packs	42.00	**Type coolant packs**	Water packs
Model coolant pack	0.4 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	110 mm
External materials	Polyethylene	**Internal lining materials**	Polyethylene
Lid type fixing	Fixed hinges		

Comments	Vaccine storage dimensions (cm): 30 x 22 x 21 cm Range storage capacity: 10 - 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.22	**Shipping weight per carton(kg)**	25
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	120 USD per unit	**Year of base price**	2016
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB01.1 Applicable PQS VP(s): E004/CB01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719169974-EEC10		

PRODUCT SITES

Organization name	Blowkings
Address	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**CB-55-CF**
IMD-PQS Code:	E004-019
Status:	Prequalified
Date of acceptance:	09 Feb 2010
Appliance type:	E004
Product description:	Cold Box SR 7L
Manufacturer:	Blowkings
Manufacturers Reference:	CB-55-CF
Country of Manufacture:	India
Address:	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India
Telephone:	+91-(0)22-22840120
Email:	munjal@blowkings.co.in
Website address:	http://www.blowkings.co.in/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	7.00	**Gross storage volume (Litre)**	9.7000
External dimensions length (mm)	490.00	**External dimensions height (mm)**	395.00
External dimensions width (mm)	440.00	**Internal dimensions (length, mm)**	350.00
Internal dimensions (height, mm)	270.00	**Internal dimensions (width, mm)**	285.00
Cold life at +43°C * (hrs:mn)	89:00	**Warm life at - 20°C *(hrs:mn)**	31:00
Cool life at +43°C *(hrs:mn)	20:00	**Weight empty(Kg)**	8.7000
Weight fully loaded (Kg)	23.00	**Coolant packs**	0.4 L
Number coolant packs	24.00	**Type coolant packs**	Water packs
Model coolant pack	0.4 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	55 mm
External materials	Polyethylene	**Internal lining materials**	Polyethylene
Lid type fixing	Fixed hinges		

Comments	Vaccine storage dimensions (cm): 28 x 21 x 16.5 cm Range storage capacity: 5 - 10 L

PRICE AND SHIPPING

Shipping volume (m3)	0.09	**Shipping weight per carton(kg)**	12
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	100 USD per unit	**Year of base price**	2014
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB01.1 Applicable PQS VP(s): E004/CB01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719164472EEC09		

PRODUCT SITES

Organization name	Blowkings
Address	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**BK-VC 2.6-CF**
IMD-PQS Code:	E004-020
Status:	Prequalified
Date of acceptance:	09 Feb 2010
Appliance type:	E004
Product description:	Vaccine carrier LR 2.6L
Manufacturer:	Blowkings
Manufacturers Reference:	BK-VC 2.6-CF
Country of Manufacture:	India
Address:	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India
Telephone:	+91-(0)22-22840120
Email:	munjal@blowkings.co.in
Website address:	http://www.blowkings.co.in/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	2.60	**Gross storage volume (Litre)**	2.5790
External dimensions length (mm)	260.00	**External dimensions height (mm)**	320.00
External dimensions width (mm)	260.00	**Internal dimensions (length, mm)**	190.00
Internal dimensions (height, mm)	225.00	**Internal dimensions (width, mm)**	190.00
Cold life at +43°C * (hrs:mn)	43:00	**Warm life at - 20°C *(hrs:mn)**	18:00
Cool life at +43°C *(hrs:mn)	7:00	**Weight empty(Kg)**	1.9000
Weight fully loaded (Kg)	4.50	**Coolant packs**	0.6 L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	0.6 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	40 mm
External materials	Polyethylene	**Internal lining materials**	Polyethylene
Lid type fixing	Removable lid		

Comments	Vaccine storage dimensions (cm): 11.5 x 11.5 x 19.5 cm Range storage capacity: 2 - 5 L

PRICE AND SHIPPING

Shipping volume (m3)	0.11	**Shipping weight per carton(kg)**	12
Pieces per package	4 units	**Minimum order**	8.00
Price 1	8 or more units: 16.00 US$	**Year of base price**	2014
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/VC01.1 Applicable PQS VP(s): E004/VC01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	S08EEC01362/AT/JT		

PRODUCT SITES

Organization name	Blowkings
Address	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**BK-VC 1.7-CF**
IMD-PQS Code:	E004-021
Status:	Prequalified
Date of acceptance:	09 Feb 2010
Appliance type:	E004
Product description:	Vaccine carrier LR 1.7L
Manufacturer:	Blowkings
Manufacturers Reference:	BK-VC 1.7-CF
Country of Manufacture:	India
Address:	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India
Telephone:	+91-(0)22-22840120
Email:	munjal@blowkings.co.in
Website address:	http://www.blowkings.co.in/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.70	**Gross storage volume (Litre)**	1.7000
External dimensions length (mm)	260.00	**External dimensions height (mm)**	285.00
External dimensions width (mm)	250.00	**Internal dimensions (length, mm)**	170.00
Internal dimensions (height, mm)	185.00	**Internal dimensions (width, mm)**	170.00
Cold life at +43°C * (hrs:mn)	38:00	**Warm life at - 20°C *(hrs:mn)**	13:00
Cool life at +43°C *(hrs:mn)	6:00	**Weight empty(Kg)**	1.6000
Weight fully loaded (Kg)	4.00	**Coolant packs**	0.4 L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	0.4 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	40 mm
External materials	Polyethylene	**Internal lining materials**	Polyethylene
Lid type fixing	Removable lid		

Comments	Vaccine storage dimensions (cm): 10 x 10 x 17 cm Range storage capacity: 2 - 5 L

PRICE AND SHIPPING

Shipping volume (m3)	0.17	**Shipping weight per carton(kg)**	20
Pieces per package	8 units	**Minimum order**	8.00
Price 1	8 or more units: 14 USD	**Year of base price**	2016
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/VC01.1 Applicable PQS VP(s): E004/VC01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719171438EEC10		

PRODUCT SITES

Organization name	Blowkings
Address	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**VDC-24-CF**
IMD-PQS Code:	E004-022
Status:	Prequalified
Date of acceptance:	09 Feb 2010
Appliance type:	E004
Product description:	Vaccine carrier SR 0.9L
Manufacturer:	Blowkings
Manufacturers Reference:	VDC-24-CF
Country of Manufacture:	India
Address:	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India
Telephone:	+91-(0)22-22840120
Email:	munjal@blowkings.co.in
Website address:	http://www.blowkings.co.in/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	0.90	**Gross storage volume (Litre)**	0.9900
External dimensions length (mm)	225.00	**External dimensions height (mm)**	250.00
External dimensions width (mm)	160.00	**Internal dimensions (length, mm)**	130.00
Internal dimensions (height, mm)	165.00	**Internal dimensions (width, mm)**	100.00
Cold life at +43°C * (hrs:mn)	20:00	**Warm life at - 20°C *(hrs:mn)**	6:00
Cool life at +43°C *(hrs:mn)	3:00	**Weight empty(Kg)**	1.0000
Weight fully loaded (Kg)	2.20	**Coolant packs**	0.4 L
Number coolant packs	2.00	**Type coolant packs**	Water packs
Model coolant pack	0.4 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	28 mm
External materials	Polyethylene	**Internal lining materials**	Polypropylene
Lid type fixing	Removable lid		

Comments	Vaccine storage dimensions (cm): 6 x 10 x 16.5 cm Range storage capacity: 2 L

PRICE AND SHIPPING

Shipping volume (m3)	0.12	**Shipping weight per carton(kg)**	12
Pieces per package	12 units	**Minimum order**	12.00
Price 1	9.00 USD per unit	**Year of base price**	2014
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/VC01.1 Applicable PQS VP(s): E004/VC01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719169972-EEC10/01		

PRODUCT SITES

Organization name	Blowkings
Address	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**ACB-264SL**
IMD-PQS Code:	E004-023
Status:	Prequalified
Date of acceptance:	13 Sep 2010
Appliance type:	E004
Product description:	Cold box LR 6L
Manufacturer:	AOV International LLP
Manufacturers Reference:	ACB-264SL
Country of Manufacture:	India
Address:	C-22/25, Sector 57, Nolda 201301 [U.P.], India India
Telephone:	+91 80102 66834
Email:	rohit.raman@aovinternational.net
Website address:	www.aovinternational.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	6.00	**Gross storage volume (Litre)**	12.0000
External dimensions length (mm)	624.00	**External dimensions height (mm)**	426.00
External dimensions width (mm)	502.00	**Internal dimensions (length, mm)**	403.00
Internal dimensions (height, mm)	211.00	**Internal dimensions (width, mm)**	282.00
Cold life at +43°C * (hrs:mn)	132:18	**Warm life at - 20°C *(hrs:mn)**	48:41
Cool life at +43°C *(hrs:mn)	29:47	**Weight empty(Kg)**	12.8200
Weight fully loaded (Kg)	25.40	**Coolant packs**	0.4 L
Number coolant packs	26.00	**Type coolant packs**	Water packs
Model coolant pack	0.4 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	100 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Vaccine storage dimensions (cm): 33.00 x 21.20 x 16.60 cm Range storage capacity: 5 - 10 L

PRICE AND SHIPPING

Shipping volume (m3)	0.16	**Shipping weight per carton(kg)**	16
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	85 USD per unit	**Year of base price**	2016
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB01.1 Applicable PQS VP(s): E004/CB01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719154908-EEC09 TUV SUD		

PRODUCT SITES

Organization name	AOV International LLP
Address	D-137, EPIP, SURAJPUR SITE-V, KASNA, GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**ACB-316L**
IMD-PQS Code:	E004-024
Status:	Prequalified
Date of acceptance:	28 Sep 2010
Appliance type:	E004
Product description:	Cold Box LR 18L
Manufacturer:	AOV International LLP
Manufacturers Reference:	ACB-316L
Country of Manufacture:	India
Address:	C-22/25, Sector 57, Nolda 201301 [U.P.], India India
Telephone:	+91 80102 66834
Email:	rohit.raman@aovinternational.net
Website address:	www.aovinternational.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	18.00	**Gross storage volume (Litre)**	24.0000
External dimensions length (mm)	770.00	**External dimensions height (mm)**	513.00
External dimensions width (mm)	618.00	**Internal dimensions (length, mm)**	529.00
Internal dimensions (height, mm)	300.00	**Internal dimensions (width, mm)**	375.00
Cold life at +43°C * (hrs:mn)	145:51	**Warm life at - 20°C *(hrs:mn)**	57:42
Cool life at +43°C *(hrs:mn)	34:35	**Weight empty(Kg)**	20.7800
Weight fully loaded (Kg)	47.86	**Coolant packs**	0.6 L
Number coolant packs	31.00	**Type coolant packs**	Water packs
Model coolant pack	0.6 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	100 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Vaccine storage dimensions (cm): 44.20 x 29.30 x 18.30 cm Range storage capacity: 10 - 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.27	**Shipping weight per carton(kg)**	25
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	115 USD per unit	**Year of base price**	2016
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB01.1 Applicable PQS VP(s): E004/CB01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719154912-EEC09		
Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**CB-20-CF**
IMD-PQS Code:	E004-025
Status:	Prequalified
Date of acceptance:	28 Sep 2010
Appliance type:	E004
Product description:	Cold Box LR 20L
Manufacturer:	Blowkings
Manufacturers Reference:	CB-20-CF
Country of Manufacture:	India
Address:	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India
Telephone:	+91-(0)22-22840120
Email:	munjal@blowkings.co.in
Website address:	http://www.blowkings.co.in/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	20.00	**Gross storage volume (Litre)**	24.3800
External dimensions length (mm)	795.00	**External dimensions height (mm)**	565.00
External dimensions width (mm)	562.00	**Internal dimensions (length, mm)**	530.00
Internal dimensions (height, mm)	320.00	**Internal dimensions (width, mm)**	300.00
Cold life at +43°C * (hrs:mn)	138	**Warm life at - 20°C *(hrs:mn)**	46:00
Cool life at +43°C *(hrs:mn)	31:00	**Weight empty(Kg)**	22.0000
Weight fully loaded (Kg)	49.50	**Coolant packs**	0.4 L
Number coolant packs	39.00	**Type coolant packs**	Water packs
Model coolant pack	0.4 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	110 mm
External materials	Polyethylene	**Internal lining materials**	Polyethylene
Lid type fixing	Fixed hinges		

Comments	Vaccine storage dimensions (cm): 53.0 x 23.0 x 20.0 cm Range storage capacity: 10 - 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.26	**Shipping weight per carton(kg)**	27
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	160 USD per unit	**Year of base price**	2014
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB01.1 Applicable PQS VP(s): E004/CB01-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719184761-EEC10		

PRODUCT SITES

Organization name	Blowkings
Address	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**RCB246LS**
IMD-PQS Code:	E004-026
Status:	Prequalified
Date of acceptance:	10 Jan 2010
Appliance type:	E004
Product description:	Cold box SR 16L
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	RCB246LS
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	16.00	**Gross storage volume (Litre)**	17.6000
External dimensions length (mm)	650.00	**External dimensions height (mm)**	370.00
External dimensions width (mm)	650.00	**Internal dimensions (length, mm)**	480.00
Internal dimensions (height, mm)	210.00	**Internal dimensions (width, mm)**	480.00
Cold life at +43°C * (hrs:mn)	73:32	**Warm life at - 20°C *(hrs:mn)**	19:26
Cool life at +43°C *(hrs:mn)	26:06	**Weight empty(Kg)**	12.1000
Weight fully loaded (Kg)	34.80	**Coolant packs**	0.6 L
Number coolant packs	24.00	**Type coolant packs**	Water packs
Model coolant pack	0.6 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	65 to 115 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Vaccine storage dimensions (cm): 40.00 x 40.00 x 11.00 cm Range storage capacity: 10 - 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.16	**Shipping weight per carton(kg)**	16
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	1 or more units: 100 US$	**Year of base price**	2014
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E004/CB01.2 Applicable PQS VP(s): E004/CB01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 10-011		

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**RCB324SS**
IMD-PQS Code:	E004-027
Status:	Prequalified
Date of acceptance:	10 Jan 2010
Appliance type:	E004
Product description:	Cold box SR 15L
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	RCB324SS
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	15.00	**Gross storage volume (Litre)**	15.1300
External dimensions length (mm)	650.00	**External dimensions height (mm)**	370.00
External dimensions width (mm)	650.00	**Internal dimensions (length, mm)**	480.00
Internal dimensions (height, mm)	200.00	**Internal dimensions (width, mm)**	480.00
Cold life at +43°C * (hrs:mn)	53:36	**Warm life at - 20°C *(hrs:mn)**	16:23
Cool life at +43°C *(hrs:mn)	21:03	**Weight empty(Kg)**	12.2000
Weight fully loaded (Kg)	33.85	**Coolant packs**	0.4 L
Number coolant packs	32.00	**Type coolant packs**	Water packs
Model coolant pack	0.4 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	65 to 115 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Vaccine storage dimensions (cm): 41.00 x 41.00 x 9.00 Range storage capacity: 10 - 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.16	**Shipping weight per carton(kg)**	16
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	1 or more units: 100 US$	**Year of base price**	2014
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E004/CB01.2 Applicable PQS VP(s): E004/CB01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 10-009		

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**BBVC23**
IMD-PQS Code:	E004-028
Status:	Prequalified
Date of acceptance:	13 Oct 2010
Appliance type:	E004
Product description:	Vaccine carrier SR 0.9L
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	BBVC23
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	0.90	**Gross storage volume (Litre)**	0.9135
External dimensions length (mm)	246.00	**External dimensions height (mm)**	215.00
External dimensions width (mm)	180.00	**Internal dimensions (length, mm)**	174.00
Internal dimensions (height, mm)	120.00	**Internal dimensions (width, mm)**	105.00
Cold life at +43°C * (hrs:mn)	17:50	**Warm life at - 20°C *(hrs:mn)**	4:26
Cool life at +43°C *(hrs:mn)	4:32	**Weight empty(Kg)**	1.3000
Weight fully loaded (Kg)	2.40	**Coolant packs**	0.3 L
Number coolant packs	2.00	**Type coolant packs**	Water packs
Model coolant pack	0.3 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	35 to 45 mm
Container type	Vaccine carrier	**External materials**	Polyethylene
Internal lining materials	Polystyrene	**Lid type fixing**	Removable lid

Comments	Vaccine storage dimensions (cm): 17.4 x 10.5 x 5.0 cm Range storage capacity: 2 L

PRICE AND SHIPPING

Shipping volume (m3)	0.01	**Shipping weight per carton(kg)**	1.74
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	1 or more units: 8.7 US$	**Year of base price**	2014
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E004/VC01.2 Applicable PQS VP(s): E004/VC01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 10-007		

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**BCVC43**
IMD-PQS Code:	E004-029
Status:	Prequalified
Date of acceptance:	13 Oct 2010
Appliance type:	E004
Product description:	Vaccine carrier LR 1.5L
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	BCVC43
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.50	**Gross storage volume (Litre)**	1.5340
External dimensions length (mm)	280.00	**External dimensions height (mm)**	315.00
External dimensions width (mm)	280.00	**Internal dimensions (length, mm)**	165.00
Internal dimensions (height, mm)	200.00	**Internal dimensions (width, mm)**	165.00
Cold life at +43°C * (hrs:mn)	41:02	**Warm life at - 20°C *(hrs:mn)**	15:43
Cool life at +43°C *(hrs:mn)	9:30	**Weight empty(Kg)**	2.6000
Weight fully loaded (Kg)	4.90	**Coolant packs**	0.3 L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	0.3 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	45 to 105 mm
Container type	Vaccine carrier	**External materials**	Polyethylene
Internal lining materials	Polystyrene	**Lid type fixing**	Removable lid

Comments	Vaccine storage dimensions (cm): 9.5 x 9.5 x 17.0 cm Range storage capacity: 2 - 5 L

PRICE AND SHIPPING

Shipping volume (m3)	0.02	**Shipping weight per carton(kg)**	3
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	1 or more units: 12.7 US$	**Year of base price**	2014
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E004/VC01.2 Applicable PQS VP(s): E004/VC01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 10-008		

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**AICB-243s**
IMD-PQS Code:	E004-030
Status:	Prequalified
Date of acceptance:	27 Oct 2010
Appliance type:	E004
Product description:	Cold Box SR 8L
Manufacturer:	Apex International
Manufacturers Reference:	AICB-243s
Country of Manufacture:	India
Address:	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India
Telephone:	+91-120-2574851
Email:	mail@apexint.org
Website address:	http://www.apex-international.org/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	8.00	**Gross storage volume (Litre)**	8.2620
External dimensions length (mm)	544.00	**External dimensions height (mm)**	420.00
External dimensions width (mm)	445.00	**Internal dimensions (length, mm)**	346.00
Internal dimensions (height, mm)	240.00	**Internal dimensions (width, mm)**	280.00
Cold life at +43°C * (hrs:mn)	84:07	**Warm life at - 20°C *(hrs:mn)**	27:51
Cool life at +43°C *(hrs:mn)	17:01	**Weight empty(Kg)**	11.5700
Weight fully loaded (Kg)	22.41	**Coolant packs**	0.3 L
Number coolant packs	24.00	**Type coolant packs**	Water packs
Model coolant pack	0.3 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	65 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Vaccine storage dimensions (cm): 27.0 x 20.4 x 15.0 cm Range storage capacity: 5 - 10 L

PRICE AND SHIPPING

Shipping volume (m3)	0.101	**Shipping weight per carton(kg)**	23
Pieces per package	1 unit	**Minimum order**	10.00
Price 1	10 or more units: 130 US$	**Year of base price**	2014
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB01.2 Applicable PQS VP(s): E004/CB01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719184756-EEC10		

PRODUCT SITES

Organization name	Apex International
Address	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**AICB 503L**
IMD-PQS Code:	E004-031
Status:	Prequalified
Date of acceptance:	27 Oct 2010
Appliance type:	E004
Product description:	Cold Box LR 22.5 L
Manufacturer:	Apex International
Manufacturers Reference:	AICB 503L
Country of Manufacture:	India
Address:	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India
Telephone:	+91-120-2574851
Email:	mail@apexint.org
Website address:	http://www.apex-international.org/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	22.50	**Gross storage volume (Litre)**	22.5600
External dimensions length (mm)	765.00	**External dimensions height (mm)**	515.00
External dimensions width (mm)	612.00	**Internal dimensions (length, mm)**	518.00
Internal dimensions (height, mm)	277.00	**Internal dimensions (width, mm)**	370.00
Cold life at +43°C * (hrs:mn)	128:16	**Warm life at - 20°C *(hrs:mn)**	50:04
Cool life at +43°C *(hrs:mn)	31:08	**Weight empty(Kg)**	19.7300
Weight fully loaded (Kg)	48.02	**Coolant packs**	0.3 L
Number coolant packs	50.00	**Type coolant packs**	Water packs
Model coolant pack	0.3 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	100 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Vaccine storage dimensions (cm): 45.5 x 31.0 x 16.0 cm Range storage capacity: > 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.24	**Shipping weight per carton(kg)**	50
Pieces per package	10 units	**Minimum order**	1.00
Price 1	115 US$	**Year of base price**	2016
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB01.2 Applicable PQS VP(s): E004/CB01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719180700-EEC10		

PRODUCT SITES

Organization name	Apex International
Address	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**Gio'Style VC 2.6L**
IMD-PQS Code:	E004-032
Status:	Prequalified
Date of acceptance:	20 Jan 2011
Appliance type:	E004
Product description:	Vaccine carrier LR 2.6L
Manufacturer:	Giostyle SpA
Manufacturers Reference:	Gio'Style VC 2.6L
Country of Manufacture:	Italy
Address:	Giostyle SpA Via Battaina 393 24059 Urgnano (BG) Italy Italy
Telephone:	+39 035 4188501
Email:	giostyle@giostyle.com
Website address:	www.giostyle.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	2.60	**Gross storage volume (Litre)**	2.6700
External dimensions length (mm)	290.00	**External dimensions height (mm)**	320.00
External dimensions width (mm)	240.00	**Internal dimensions (length, mm)**	220.00
Internal dimensions (height, mm)	240.00	**Internal dimensions (width, mm)**	180.00
Cold life at +43°C * (hrs:mn)	41:29	**Warm life at - 20°C *(hrs:mn)**	11:36
Cool life at +43°C *(hrs:mn)	12:10	**Weight empty(Kg)**	1.8000
Weight fully loaded (Kg)	6.50	**Coolant packs**	0.4 L
Number coolant packs	8.00	**Type coolant packs**	Water packs
Model coolant pack	0.4 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	25 - 35 mm
External materials	Polypropylene	**Internal lining materials**	Polypropylene
Lid type fixing	Removable lid		

Comments	Vaccine storage dimensions (cm): 14.5 x 11.5 x 16.0 cm Range storage capacity: 2 - 5 L

PRICE AND SHIPPING

Shipping volume (m3)	0.18	**Shipping weight per carton(kg)**	18.5
Pieces per package	8 units	**Minimum order**	8.00
Price 1	8 or more units: 25.90 US$	**Year of base price**	2011
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/VC01.2 Applicable PQS VP(s): E004/VC01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO-10-003		

PRODUCT SITES

Organization name	Giostyle SpA
Address	Giostyle SpA Via Battaina 393 24059 Urgnano (BG) Italy Italy

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**RCB 264SL**
IMD-PQS Code:	E004-034
Status:	Prequalified
Date of acceptance:	12 Nov 2012
Appliance type:	E004
Product description:	Cold box 6L Long Range
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	RCB 264SL
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	6.00	**Gross storage volume (Litre)**	22.2400
External dimensions length (mm)	650.00	**External dimensions height (mm)**	460.00
External dimensions width (mm)	530.00	**Internal dimensions (length, mm)**	400.00
Internal dimensions (height, mm)	200.00	**Internal dimensions (width, mm)**	278.00
Cold life at +43°C * (hrs:mn)	106	**Warm life at - 20°C *(hrs:mn)**	31:00
Cool life at +43°C *(hrs:mn)	30:00	**Weight empty(Kg)**	13.2500
Weight fully loaded (Kg)	27.54	**Coolant packs**	0.4 L
Number coolant packs	26.00	**Type coolant packs**	Water packs
Model coolant pack	0.4L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	100mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Vaccine storage dimensions (cm): 32 x 21 x 10 cm Range storage capacity: 5 - 10 L

PRICE AND SHIPPING

Shipping volume (m3)	0.17	**Shipping weight per carton(kg)**	16
Pieces per package	1	**Minimum order**	1.00
Price 1	99 USD per unit	**Year of base price**	2014
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E004/CB01.2 Applicable PQS VP(s): E004/CB01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO-12-021		

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**RCB 444L-A**
IMD-PQS Code:	E004-036
Status:	Prequalified
Date of acceptance:	30 Jan 2013
Appliance type:	E004
Product description:	Cold box LR 20L
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	RCB 444L-A
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	20.25	**Gross storage volume (Litre)**	20.2500
External dimensions length (mm)	770.00	**External dimensions height (mm)**	535.00
External dimensions width (mm)	620.00	**Internal dimensions (length, mm)**	510.00
Internal dimensions (height, mm)	275.00	**Internal dimensions (width, mm)**	360.00
Cold life at +43°C * (hrs:mn)	152:28	**Warm life at - 20°C *(hrs:mn)**	27:35
Cool life at +43°C *(hrs:mn)	51:17	**Weight empty(Kg)**	20.5250
Weight fully loaded (Kg)	49.70	**Coolant packs**	0.4 L
Number coolant packs	44.00	**Type coolant packs**	Water packs
Model coolant pack	Type 3 0.4L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	110 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Vaccine storage dimensions (cm): 45.00 x 30.00 x 15.00 cm Range storage capacity: > 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.25	**Shipping weight per carton(kg)**	25.21
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	132.00 USD per unit	**Year of base price**	2014
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E004/CB01.2 Applicable PQS VP(s): E004/CB01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 12-022		

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**Vaccine carrier LR BCVC46**
IMD-PQS Code:	E004-040
Status:	Prequalified
Date of acceptance:	22 Apr 2014
Appliance type:	E004
Product description:	Vaccine carrier Long Range 2.7L
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	Vaccine carrier LR BCVC46
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	2.70	**Gross storage volume (Litre)**	2.7360
External dimensions length (mm)	270.00	**External dimensions height (mm)**	320.00
External dimensions width (mm)	270.00	**Internal dimensions (length, mm)**	190.00
Internal dimensions (height, mm)	190.00	**Internal dimensions (width, mm)**	190.00
Cold life at +43°C * (hrs:mn)	46:23	**Warm life at - 20°C *(hrs:mn)**	17:12
Cool life at +43°C *(hrs:mn)	13:43	**Weight empty(Kg)**	2.3200
Weight fully loaded (Kg)	6.40	**Coolant packs**	0.6 L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	Type 4: 0.6L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	28 to 58 mm
Container type	Vaccine carrier	**External materials**	Polyethylene
Internal lining materials	Polystyrene	**Lid type fixing**	Removable lid

Comments	Vaccine stoage dimensions (cm): 12.0 x 12.0 x 19.0 cm Range storage capacity: 2 - 5 L

PRICE AND SHIPPING

Shipping volume (m3)	0.02	**Shipping weight (kg)**	2.85
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	15.80 USD per unit	**Year of base price**	2014
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/VC01.2 Applicable PQS VP(s): E004/VC01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 14-027 V2		

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**ARKTEK™ model YBC-5 (P6)**
IMD-PQS Code:	E004-041
Status:	Prequalified
Date of acceptance:	15 Jan 2015
Appliance type:	E004
Product description:	Long-Term Passive Device
Manufacturer:	Qingdao Aucma Global Medical Co.,Ltd.
Manufacturers Reference:	ARKTEK™ model YBC-5 (P6)
Country of Manufacture:	China
Address:	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China China
Telephone:	+86 532 86763602
Email:	lishouda@aucma.com.cn
Website address:	www.aucmamedicalglobal.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	5.40	**Gross storage volume (Litre)**	5.4000
External dimensions length (mm)	0.00	**External dimensions height (mm)**	747.00
External dimensions width (mm)	528.00	**Internal dimensions (length, mm)**	311.00
Internal dimensions (height, mm)	0.00	**Internal dimensions (width, mm)**	332.00
Cold life at +43°C * (hrs:mn)	840	**Warm life at - 20°C *(hrs:mn)**	146.4
Weight empty(Kg)	22.0000	**Weight fully loaded (Kg)**	39.50
Minimum Rated Ambient Temp (°C)	5.00	**Coolant packs**	Other
Number coolant packs	8.00	**Type coolant packs**	Water packs
Model coolant pack	Unique for device	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Dewar	**Insulation thickness (mm)**	40
External materials	HDPE	**Internal lining materials**	Aluminum Alloy
Lid type fixing	Removable lid		

Comments	This device is intended to be used as a stationary passive container to store vaccines for a period of minimum 35 days before recharge with icepacks. OEM name and address: AUCMA Co. Ltd. 315 Qianwangang Road Economic &Technological Development Zone Qingdao China Range storage capacity: 5 - 10 L Vaccine storage dimensions (cm): 28.3 x 9.8 x 28.5

PRICE AND SHIPPING

Shipping volume (m3)	0.376	**Shipping weight per carton(kg)**	32.5
Pieces per package	1 piece	**Minimum order**	5.00
Price 1	up to 99 units: 2393 USD per unit	**Price 2**	100 units and more: 2193 USD
Year of base price	2015	**Incoterms**	FCA

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E004/CB03.1 Applicable PQS VP(s): E004/CB03-VP.1	**Subject to Field Validation**	In process

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-14-644		

PRODUCT SITES

Organization name	Qingdao Aucma Global Medical Co.,Ltd.
Address	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**EBT-30**
IMD-PQS Code:	E004-042
Status:	Prequalified
Date of acceptance:	14 Apr 2015
Appliance type:	E004
Product description:	Cold box SR 16L
Manufacturer:	EBAC CO. Ltd.
Manufacturers Reference:	EBT-30
Country of Manufacture:	Japan
Address:	1-6-5 Yakumo, Meguro-Ku 152-0023 Tokyo Japan Japan
Telephone:	+81 3 3724 3681
Email:	k.jongwon@ebac.co.jp
Website address:	www.ebac.co.jp
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	16.50	**Gross storage volume (Litre)**	30.0000
External dimensions length (mm)	500.00	**External dimensions height (mm)**	380.00
External dimensions width (mm)	370.00	**Internal dimensions (length, mm)**	400.00
Internal dimensions (height, mm)	270.00	**Internal dimensions (width, mm)**	280.00
Cold life at +43°C * (hrs:mn)	60:30	**Warm life at - 20°C *(hrs:mn)**	38:26
Cool life at +43°C *(hrs:mn)	18:27	**Weight empty(Kg)**	2.2400
Weight fully loaded (Kg)	14.70	**Coolant packs**	0.4 L
Number coolant packs	16.00	**Type coolant packs**	Water packs
Model coolant pack	0.4L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	phenolic foam	**Insulation thickness (mm)**	40
External materials	Aluminum film	**Internal lining materials**	Aluminum film
Lid type fixing	Gripping strips		

Comments	OEM name and address: Ikutakougei Co. Ltd 4-1 Donkochou Minato-Ku Nagoya-Shi Aichi-Ken Japan Range storage capacity: 5 - 10 L Vaccine storage dimensions (cm): 36.8 x 18.0 x 25.0

PRICE AND SHIPPING

Shipping volume (m3)	0.07	**Shipping weight per carton(kg)**	3
Pieces per package	1 unit	**Minimum order**	1.00
Price 1	400 USD per unit	**Year of base price**	2015
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: CB01.2 Applicable PQS VP(s): CB01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-14-301		

PRODUCT SITES

Organization name	EBAC CO. Ltd.
Address	1-6-5 Yakumo, Meguro-Ku 152-0023 Tokyo Japan Japan

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**BK-VC 3.4 -CF**
IMD-PQS Code:	E004-043
Status:	Prequalified
Date of acceptance:	23 May 2016
Appliance type:	E004
Product description:	Vaccine Carrier LR 3.4 L
Manufacturer:	Blowkings
Manufacturers Reference:	BK-VC 3.4 -CF
Country of Manufacture:	India
Address:	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India
Telephone:	+91-(0)22-22840120
Email:	munjal@blowkings.co.in
Website address:	http://www.blowkings.co.in/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	3.40	**Gross storage volume (Litre)**	3.4000
External dimensions length (mm)	288.00	**External dimensions height (mm)**	337.00
External dimensions width (mm)	289.00	**Internal dimensions (length, mm)**	133.00
Internal dimensions (height, mm)	190.00	**Internal dimensions (width, mm)**	133.00
Cold life at +43°C * (hrs:mn)	43:26	**Warm life at - 20°C *(hrs:mn)**	16:00
Cool life at +43°C *(hrs:mn)	8:00	**Weight empty(Kg)**	2.2600
Weight fully loaded (Kg)	4.90	**Coolant packs**	0.6 L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	0.6 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	40 mm
External materials	Polyethylene	**Internal lining materials**	Polyethylene
Lid type fixing	Removable lid		

Comments	Vaccine storage dimensions (cm): 13.3 x1 3.3 x 19 cm Range storage capacity: 2 - 5 L

PRICE AND SHIPPING

Shipping volume (m3)	0.12	**Shipping weight per carton(kg)**	13
Pieces per package	4	**Minimum order**	4.00
Price 1	$21 per unit for 4 or more units	**Year of base price**	2016
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E04/VC01.2 Applicable PQS VP(s): E04/VC01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	7191118692?EEC15/KGT		

PRODUCT SITES

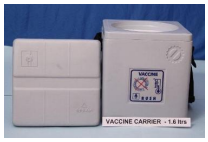
Organization name	Blowkings
Address	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**AIVC-44LR**
IMD-PQS Code:	E004-044
Status:	Prequalified
Date of acceptance:	07 Apr 2016
Appliance type:	E004
Product description:	Vaccine carrier Long Range
Manufacturer:	Apex International
Manufacturers Reference:	AIVC-44LR
Country of Manufacture:	India
Address:	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India
Telephone:	+91-120-2574851
Email:	mail@apexint.org
Website address:	http://www.apex-international.org/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.67	**Gross storage volume (Litre)**	1.6760
External dimensions length (mm)	250.00	**External dimensions height (mm)**	300.00
External dimensions width (mm)	250.00	**Internal dimensions (length, mm)**	104.50
Internal dimensions (height, mm)	16.70	**Internal dimensions (width, mm)**	104.50
Cold life at +43°C * (hrs:mn)	35:42	**Warm life at - 20°C *(hrs:mn)**	17:18
Cool life at +43°C *(hrs:mn)	3:25	**Weight empty(Kg)**	1.9900
Weight fully loaded (Kg)	4.34	**Coolant packs**	0.4 L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	0.4 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	35 mm
Container type	Vaccine carrier	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Gripping strips

Comments	Vaccine storage dimensions (cm): 10.02 x 10.02 x 1.67 cm Range storage capacity: 2 L

PRICE AND SHIPPING

Shipping volume (m3)	0.18	**Shipping weight per carton(kg)**	18
Pieces per package	8	**Minimum order**	1000.00
Price 1	11.50 USD per unit	**Year of base price**	2016
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB01.2 Applicable PQS VP(s): E004/CB01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-DEL-16-000426-005

PRODUCT SITES

Organization name	Apex International
Address	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**AICB-156L**
IMD-PQS Code:	E004-045
Status:	Prequalified
Date of acceptance:	07 Apr 2016
Appliance type:	E004
Product description:	Cold box
Manufacturer:	Apex International
Manufacturers Reference:	AICB-156L
Country of Manufacture:	India
Address:	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India
Telephone:	+91-120-2574851
Email:	mail@apexint.org
Website address:	http://www.apex-international.org/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	5.50	**Gross storage volume (Litre)**	5.5600
External dimensions length (mm)	540.00	**External dimensions height (mm)**	415.00
External dimensions width (mm)	445.00	**Internal dimensions (length, mm)**	350.00
Internal dimensions (height, mm)	240.00	**Internal dimensions (width, mm)**	280.00
Cold life at +43°C * (hrs:mn)	107:30	**Warm life at - 20°C *(hrs:mn)**	33:42
Cool life at +43°C *(hrs:mn)	22:54	**Weight empty(Kg)**	9.4000
Weight fully loaded (Kg)	22.33	**Coolant packs**	0.6 L
Number coolant packs	15.00	**Type coolant packs**	Water packs
Model coolant pack	0.6L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	65 - 75 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Vaccine storage dimensions (cm): 27.0 x 20.0 x 10.3 cm Range storage capacity: 5 - 10 L

PRICE AND SHIPPING

Shipping volume (m3)	0.11	**Shipping weight per carton(kg)**	13.7
Pieces per package	1 piece	**Minimum order**	10.00
Price 1	130.0 USD per unit	**Year of base price**	2016
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB01.3 Applicable PQS VP(s): E004/CB01-VP.3	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-DEL-16-000426-006

PRODUCT SITES

Organization name	Apex International
Address	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**AICB-316L**
IMD-PQS Code:	E004-046
Status:	Prequalified
Date of acceptance:	07 Apr 2016
Appliance type:	E004
Product description:	cold box Long Range
Manufacturer:	Apex International
Manufacturers Reference:	AICB-316L
Country of Manufacture:	India
Address:	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India
Telephone:	+91-120-2574851
Email:	mail@apexint.org
Website address:	http://www.apex-international.org/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	22.40	**Gross storage volume (Litre)**	22.4280
External dimensions length (mm)	770.00	**External dimensions height (mm)**	515.00
External dimensions width (mm)	615.00	**Internal dimensions (length, mm)**	520.00
Internal dimensions (height, mm)	282.00	**Internal dimensions (width, mm)**	370.00
Cold life at +43°C * (hrs:mn)	153:05	**Warm life at - 20°C *(hrs:mn)**	69:00
Cool life at +43°C *(hrs:mn)	41:07	**Weight empty(Kg)**	18.1500
Weight fully loaded (Kg)	49.20	**Coolant packs**	0.6 L
Number coolant packs	31.00	**Type coolant packs**	Water packs
Model coolant pack	0.6L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	100 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Vaccine storage dimensions (cm): 44.8 x 29.8 x 16.8 cm Range storage capacity: > 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.27	**Shipping weight per carton(kg)**	25
Pieces per package	1 piece	**Minimum order**	10.00
Price 1	122.0 USD per unit	**Year of base price**	2016
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB01.2 Applicable PQS VP(s): E004/CB01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-DEL-16-000426-004

PRODUCT SITES

Organization name	Apex International
Address	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**AIVC-46**
IMD-PQS Code:	E004-047
Status:	Prequalified
Date of acceptance:	16 Jan 2017
Appliance type:	E004
Product description:	Vaccine carrier long range
Manufacturer:	Apex International
Manufacturers Reference:	AIVC-46
Country of Manufacture:	India
Address:	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India
Telephone:	+91-120-2574851
Email:	mail@apexint.org
Website address:	http://www.apex-international.org/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	2.90	**Gross storage volume (Litre)**	2.9200
External dimensions length (mm)	290.00	**External dimensions height (mm)**	327.00
External dimensions width (mm)	290.00	**Internal dimensions (length, mm)**	199.00
Internal dimensions (height, mm)	190.00	**Internal dimensions (width, mm)**	199.00
Cold life at +43°C * (hrs:mn)	51:08	**Warm life at - 20°C *(hrs:mn)**	25:11
Cool life at +43°C *(hrs:mn)	12:55	**Weight empty(Kg)**	2.6300
Weight fully loaded (Kg)	5.36	**Number coolant packs**	4.00
Coolant packs supplied	Yes		

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	41 mm
Container type	Vaccine carrier	**External materials**	Polyethylene
Internal lining materials	Polyethylene		

Comments	Vaccine storage dimensions (cm): 12.4 cm x 12.4 cm x 19 cm

PRICE AND SHIPPING

Year of base price	2016	**Incoterms**	EXW

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB01.3 Applicable PQS VP(s): E004/CB01-VP.3	**Subject to Field Validation**	N/A
Date field validation	Mon, 01/16/2017 - 00:35		

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ

PRODUCT SITES

Organization name	Apex International
Address	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**BCVC43A**
IMD-PQS Code:	E004-049
Status:	Prequalified
Date of acceptance:	10 Feb 2017
Appliance type:	E004
Product description:	Vaccine carrier
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	BCVC43A
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.44	**Gross storage volume (Litre)**	3.7000
External dimensions length (mm)	252.00	**External dimensions height (mm)**	305.00
External dimensions width (mm)	252.00	**Internal dimensions (length, mm)**	165.00
Internal dimensions (height, mm)	165.00	**Internal dimensions (width, mm)**	165.00
Cold life at +43°C * (hrs:mn)	40:00	**Warm life at - 20°C *(hrs:mn)**	16:51
Cool life at +43°C *(hrs:mn)	10:49	**Weight empty(Kg)**	1.6250
Weight fully loaded (Kg)	3.80	**Number coolant packs**	4.00
Type coolant packs	Water packs	**Model coolant pack**	BIP-3
Coolant packs supplied	Yes		

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	40 - 100 mm
Container type	Vaccine carrier	**External materials**	HDPE
Internal lining materials	HIPS	**Lid type fixing**	Removable lid

Comments	Vaccine storage dimensions (cm): 95mm x 95mm x 160mm

PRICE AND SHIPPING

Shipping volume (m3)	0.02	**Shipping weight per carton(kg)**	2.14
Pieces per package	1	**Minimum order**	1.00
Price 1	11.00 USD per unit	**Year of base price**	2017
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E004/VC01.2 Applicable PQS VP(s): E004/VC01-VP.2	**Subject to Field Validation**	N/A
Date field validation	Fri, 08/25/2017 - 00:35		

VERIFICATION

Verification Report Reference	CE-Job-Del-17-000026-001

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**AFVC-46**
IMD-PQS Code:	E004-050
Status:	Prequalified
Date of acceptance:	12 Aug 2017
Appliance type:	E004
Product description:	Freeze-Free Vaccine Carrier Long Range
Manufacturer:	AOV International LLP
Manufacturers Reference:	AFVC-46
Country of Manufacture:	India
Address:	C-22/25, Sector 57, Nolda 201301 [U.P.], India India
Telephone:	+91 80102 66834
Email:	rohit.raman@aovinternational.net
Website address:	www.aovinternational.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.50	**Gross storage volume (Litre)**	1.5020
External dimensions length (mm)	310.00	**External dimensions height (mm)**	300.00
External dimensions width (mm)	310.00	**Internal dimensions (length, mm)**	94.00
Internal dimensions (height, mm)	170.00	**Internal dimensions (width, mm)**	94.00
Cold life at +43°C * (hrs:mn)	34:00	**Warm life at - 20°C *(hrs:mn)**	17:15
Weight empty(Kg)	4.2000	**Weight fully loaded (Kg)**	8.00
Minimum Rated Ambient Temp (°C)	15.00	**Coolant packs**	0.6 L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Coolant packs supplied	Yes		

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	CFC free Polyurethane	**Insulation thickness (mm)**	30 mm
Container type	Vaccine carrier	**External materials**	HDPE
Internal lining materials	HIPS	**Lid type fixing**	Fixed hinges

Comments	Vaccine storage dimensions (cm): 9.40 cm x 9.40 cm x 17.00 cm Range storage capacity: 2 L

PRICE AND SHIPPING

Price 1	1 - 10 unit: US $ 51.00	**Price 2**	11 - 100 units: US $ 48
Price 3	> 100 units: US $ 45	**Year of base price**	2017
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/VC02.1 Applicable PQS VP(s): E004/VC02-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	0013X00004MI8OaQAJ

PRODUCT SITES

Organization name	AOV International LLP
Address	D-137, EPIP, SURAJPUR SITE-V, KASNA, GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**FFVC-1.7L**
IMD-PQS Code:	E004-051
Status:	Prequalified
Date of acceptance:	28 Aug 2018
Appliance type:	E004
Product description:	Freeze-Free Vaccine Carrier Long Range
Manufacturer:	Qingdao Leff International Trading Co Ltd
Manufacturers Reference:	FFVC-1.7L
Country of Manufacture:	China
Address:	10, Yan er'dao Road Qingdao 266000 P.R.China China
Telephone:	+ 86 373 7116885
Email:	david@lefftrade.org
Website address:	www.lefftrade.org
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.70	**Gross storage volume (Litre)**	1.7000
External dimensions length (mm)	308.00	**External dimensions height (mm)**	300.00
External dimensions width (mm)	308.00	**Internal dimensions (length, mm)**	100.00
Internal dimensions (height, mm)	190.00	**Internal dimensions (width, mm)**	100.00
Cold life at +43°C * (hrs:mn)	33:42	**Warm life at - 20°C *(hrs:mn)**	15:17
Weight empty(Kg)	4.0000	**Weight fully loaded (Kg)**	8.00
Minimum Rated Ambient Temp (°C)	15.00	**Coolant packs**	0.6 L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	0.6 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	CFC free Polyurethane	**Insulation thickness (mm)**	42 mm
External materials	HDPE	**Internal lining materials**	PP

Comments	Vaccine storage dimensions (cm): 10 cm x 10 cm x 19 cm Range storage capacity: 2 L

PRICE AND SHIPPING

Shipping volume (m3)	0.08	**Shipping weight per carton(kg)**	9.7
Pieces per package	2	**Minimum order**	1.00
Price 1	100 units - USD39	**Price 2**	10 units - USD42
Price 3	1 units - USD45	**Incoterms**	EXW

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/VC02.1 Applicable PQS VP(s): E004/VC02-VP.1	**Subject to Field Validation**	In process

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-18-384		

PRODUCT SITES

Organization name	Qingdao Leff International Trading Co Ltd
Address	10, Yan er'dao Road Qingdao 266000 P.R.China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**BK-FF-VC-1.6L**
IMD-PQS Code:	E004-052
Status:	Prequalified
Date of acceptance:	04 Mar 2019
Appliance type:	E004
Product description:	Freeze Free Vaccine Carrier
Manufacturer:	Blowkings
Manufacturers Reference:	BK-FF-VC-1.6L
Country of Manufacture:	India
Address:	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India
Telephone:	+91-(0)22-22840120
Email:	munjal@blowkings.co.in
Website address:	http://www.blowkings.co.in/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.60	**Gross storage volume (Litre)**	1.6000
External dimensions length (mm)	285.00	**External dimensions height (mm)**	335.00
External dimensions width (mm)	285.00	**Internal dimensions (length, mm)**	100.00
Internal dimensions (height, mm)	160.00	**Internal dimensions (width, mm)**	100.00
Cold life at +43°C * (hrs:mn)	30:00	**Warm life at - 20°C *(hrs:mn)**	20:00
Weight empty(Kg)	3.4000	**Weight fully loaded (Kg)**	6.40
Minimum Rated Ambient Temp (°C)	15.00	**Coolant packs**	0.4 L
Number coolant packs	4.00	**Model coolant pack**	0.4 L (BK-4)
Coolant packs supplied	Yes		

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	CFC FREE POLYURETHANE	**Insulation thickness (mm)**	40 MM
Container type	Vaccine carrier	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Removable lid

Comments	Vaccine storage dimensions (cm): 10 X 10 X 16

PRICE AND SHIPPING

Shipping volume (m3)	0.13	**Pieces per package**	4 UNITS PER CARTON
Price 1	$55	**Year of base price**	2019
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/VC02.1 Applicable PQS VP(s): E004/VC02-VP.1	**Subject to Field Validation**	N/A
Date field validation	Mon, 03/04/2019 - 00:37		

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ

PRODUCT SITES

Organization name	Blowkings
Address	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**BCVC44B**
IMD-PQS Code:	E004-053
Status:	Prequalified
Date of acceptance:	29 Apr 2019
Appliance type:	E004
Product description:	Vaccine Carrier Long Range
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	BCVC44B
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.48	**Gross storage volume (Litre)**	1.6000
External dimensions length (mm)	253.00	**External dimensions height (mm)**	305.00
External dimensions width (mm)	253.00	**Internal dimensions (length, mm)**	163.00
Internal dimensions (height, mm)	164.00	**Internal dimensions (width, mm)**	163.00
Cold life at +43°C * (hrs:mn)	40:30	**Warm life at - 20°C *(hrs:mn)**	14:57
Cool life at +43°C *(hrs:mn)	7:45	**Weight empty(Kg)**	1.6400
Weight fully loaded (Kg)	3.32	**Number coolant packs**	4.00
Type coolant packs	Water packs	**Model coolant pack**	BIP-4
Coolant packs supplied	Yes		

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	40 mm - 100 mm
Container type	Vaccine carrier	**External materials**	Polyethylene
Internal lining materials	HIPS	**Lid type fixing**	Removable lid

Comments	Vaccine storage dimensions (cm): 9.5 cm x 9.5 cm x 16.4 cm

PRICE AND SHIPPING

Shipping volume (m3)	0.0209	**Shipping weight per carton(kg)**	2.15
Pieces per package	1	**Minimum order**	1.00
Price 1	$12	**Year of base price**	2019
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E004/VC01.2 Applicable PQS VP(s): E004/VC01-VP.2	**Subject to Field Validation**	N/A

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**BDVC44**
IMD-PQS Code:	E004-054
Status:	Prequalified
Date of acceptance:	06 Jun 2019
Appliance type:	E004
Product description:	Vaccine Carrier
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	BDVC44
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.70	**Gross storage volume (Litre)**	1.7000
External dimensions length (mm)	252.00	**External dimensions height (mm)**	305.00
External dimensions width (mm)	260.00	**Internal dimensions (length, mm)**	170.00
Internal dimensions (height, mm)	164.00	**Internal dimensions (width, mm)**	170.00
Cold life at +43°C * (hrs:mn)	38:37	**Warm life at - 20°C *(hrs:mn)**	15:26
Cool life at +43°C *(hrs:mn)	7:20	**Weight empty(Kg)**	1.6500
Weight fully loaded (Kg)	3.34	**Coolant packs**	0.3 L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	BIP-4	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	40 mm - 45 mm
Container type	Vaccine carrier	**External materials**	HDPE
Internal lining materials	HIPS	**Lid type fixing**	Removable lid

Comments	Vaccine storage dimensions (cm): 102 mm x 102 mm x 164 mm Range storage capacity: 2 L

PRICE AND SHIPPING

Shipping volume (m3)	0.02	**Shipping weight per carton(kg)**	2.1
Pieces per package	1	**Minimum order**	1.00
Price 1	$ 12 per unit	**Year of base price**	2019
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E004/VC02.1 Applicable PQS VP(s): E004/VC02-VP.1	**Subject to Field Validation**	N/A
Date field validation	Thu, 06/06/2019 - 00:37		

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-19-000224-001

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**BDVC46**
IMD-PQS Code:	E004-055
Status:	Prequalified
Date of acceptance:	08 Sep 2019
Appliance type:	E004
Product description:	Vaccine Carrier Long range
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	BDVC46
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	3.36	**Gross storage volume (Litre)**	3.3600
External dimensions length (mm)	295.00	**External dimensions height (mm)**	335.00
External dimensions width (mm)	295.00	**Internal dimensions (length, mm)**	202.00
Internal dimensions (height, mm)	194.00	**Internal dimensions (width, mm)**	202.00
Cold life at +43°C * (hrs:mn)	49:39	**Warm life at - 20°C *(hrs:mn)**	18:42
Cool life at +43°C *(hrs:mn)	12:26	**Weight empty(Kg)**	2.5100
Weight fully loaded (Kg)	5.17	**Number coolant packs**	4.00
Type coolant packs	Water packs	**Model coolant pack**	BIP-6
Coolant packs supplied	Yes		

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	40 MM
Container type	Vaccine carrier	**External materials**	Polyethylene
Internal lining materials	HIPS	**Lid type fixing**	Removable lid

Comments	Vaccine storage dimensions (cm): 13.3 cm(L) x 13.3(L) cm x 19.0 Range storage capacity: 2 - 5 L

PRICE AND SHIPPING

Shipping volume (m3)	0.03	**Shipping weight per carton(kg)**	2.88
Pieces per package	1	**Minimum order**	1.00
Price 1	$19.00	**Year of base price**	2019
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E004/VC01.2 Applicable PQS VP(s): E004/VC01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-19-000732-001

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**RCB244SS**
IMD-PQS Code:	E004-056
Status:	Prequalified
Date of acceptance:	11 May 2019
Appliance type:	E004
Product description:	Short range vaccine cold box
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	RCB244SS
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	10.70	**Gross storage volume (Litre)**	10.7000
External dimensions length (mm)	493.00	**External dimensions height (mm)**	397.00
External dimensions width (mm)	455.00	**Internal dimensions (length, mm)**	362.00
Internal dimensions (height, mm)	254.00	**Internal dimensions (width, mm)**	294.00
Cold life at +43°C * (hrs:mn)	73:08	**Warm life at - 20°C *(hrs:mn)**	34:54
Cool life at +43°C *(hrs:mn)	16:40	**Weight empty(Kg)**	8.1800
Weight fully loaded (Kg)	18.14	**Number coolant packs**	24.00
Type coolant packs	Water packs	**Model coolant pack**	BIP-4
Coolant packs supplied	Yes		

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	46 - 61 mm
Container type	Cold box	**External materials**	LLDPE
Internal lining materials	LLDPE	**Lid type fixing**	Fixed hinges

Comments	Vaccine storage dimensions (cm): 22.3 cm(L) x 29.3(B) cm x 16.4 Range storage capacity: 10 - 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.091	**Shipping weight per carton(kg)**	9.23
Pieces per package	1	**Minimum order**	1.00
Price 1	$95.00	**Year of base price**	2019
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E004/VC01.2 Applicable PQS VP(s): E004/VC01-VP.2	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-19-000224-002

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**FFCB-15L**
IMD-PQS Code:	E004-057
Status:	Prequalified
Date of acceptance:	20 May 2020
Appliance type:	E004
Product description:	Freeze-free vaccine cold box
Manufacturer:	Qingdao Leff International Trading Co Ltd
Manufacturers Reference:	FFCB-15L
Country of Manufacture:	China
Address:	10, Yan er'dao Road Qingdao 266000 P.R.China China
Telephone:	+ 86 373 7116885
Email:	david@lefftrade.org
Website address:	www.lefftrade.org
Valid until:	31 May 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	15.40	**Gross storage volume (Litre)**	15.4000
External dimensions length (mm)	770.00	**External dimensions height (mm)**	470.00
External dimensions width (mm)	540.00	**Internal dimensions (length, mm)**	415.00
Internal dimensions (height, mm)	200.00	**Internal dimensions (width, mm)**	185.00
Cold life at +43°C * (hrs:mn)	106:09	**Warm life at - 20°C *(hrs:mn)**	55:24
Weight empty(Kg)	24.0000	**Weight fully loaded (Kg)**	49.90
Minimum Rated Ambient Temp (°C)	15.00	**Coolant packs**	0.6 L
Number coolant packs	21.00	**Type coolant packs**	Water packs
Model coolant pack	WP-0.6L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	CFC FREE POLYURETHANE	**Insulation thickness (mm)**	110 mm
External materials	HDPE	**Internal lining materials**	PP
Lid type fixing	Fixed hinges		

Comments	Vaccine storage dimensions (cm): 41.5 x 18.5 x 20.0 Range storage capacity: 10 - 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.228	**Shipping weight per carton(kg)**	51.5
Pieces per package	1	**Minimum order**	2.00
Price 1	1-10 unit: USD 265	**Price 2**	11-100 units: USD260
Price 3	>100 units: USD255	**Year of base price**	2020
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: PQS_E004_VC2.1 Applicable PQS VP(s): E004_VC2-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Report Reference	WB-19-371

PRODUCT SITES

Organization name	Qingdao Leff International Trading Co Ltd
Address	10, Yan er'dao Road Qingdao 266000 P.R.China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**BCVC46LFF**
IMD-PQS Code:	E004-058
Status:	Prequalified
Date of acceptance:	22 Sep 2020
Appliance type:	E004
Product description:	Freeze Free Vaccine carrier
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	BCVC46LFF
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.51	**Gross storage volume (Litre)**	1.5100
External dimensions length (mm)	318.00	**External dimensions height (mm)**	295.00
External dimensions width (mm)	318.00	**Internal dimensions (length, mm)**	95.00
Internal dimensions (height, mm)	168.00	**Internal dimensions (width, mm)**	95.00
Cold life at +43°C * (hrs:mn)	33:50	**Warm life at - 20°C *(hrs:mn)**	15:20
Weight empty(Kg)	3.7600	**Weight fully loaded (Kg)**	7.60
Minimum Rated Ambient Temp (°C)	15.00	**Coolant packs**	0.3 L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	BIP-6	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	34 mm
Container type	Vaccine carrier	**External materials**	Polyethylene
Internal lining materials	HIPS	**Lid type fixing**	Removable lid

Comments	Vaccine storage dimensions (cm): 9.50 (L)x9.50(W) x 16.80 (H)cm Range storage capacity: 2 L

PRICE AND SHIPPING

Shipping volume (m3)	0.03	**Shipping weight per carton(kg)**	4.71
Pieces per package	1	**Minimum order**	1.00
Price 1	For 100 units US$38 per no.	**Price 2**	For 10 units US$41 per no.
Price 3	For 1 units US$44 per no.	**Year of base price**	2020
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E004/VC02.1 Applicable PQS VP(s): E004/VC02-VP.	**Subject to Field Validation**	N/A
Date field validation	Tue, 09/22/2020 - 00:38		

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-20-000102-001

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**RCW1**
IMD-PQS Code:	E004-059
Status:	Prequalified
Date of acceptance:	30 Sep 2020
Appliance type:	E004
Product description:	Vaccine Carrier Freeze-Free
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	RCW1
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.04	**Gross storage volume (Litre)**	1.6400
External dimensions length (mm)	347.00	**External dimensions height (mm)**	430.00
External dimensions width (mm)	281.00	**Internal dimensions (length, mm)**	223.00
Internal dimensions (height, mm)	208.00	**Internal dimensions (width, mm)**	139.00
Cold life at +43°C * (hrs:mn)	32:07	**Weight empty(Kg)**	4.8000
Weight fully loaded (Kg)	7.60	**Minimum Rated Ambient Temp (°C)**	15.00
Coolant packs	0.6 L	**Number coolant packs**	3.00
Type coolant packs	Water packs	**Model coolant pack**	0.6 L
Coolant packs supplied	Yes		

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	51 - 116
Container type	Vaccine carrier	**External materials**	Polythene & POM
Internal lining materials	Polythene & POM	**Lid type fixing**	Fixed hinges

Comments	Accessories: 3 waterpacks 0.6L; 1 carrying strap; 1 crystal thermometer; 1 electric thermometer with solar digital display; 3 vaccine vial holders with 6 indentations (to hold open vaccine vials). Options: Backpack. Vaccine storage dimensions: 103mm (diameter) x 208mm (height).

PRICE AND SHIPPING

Shipping volume (m3)	0.047	**Shipping weight per carton(kg)**	7
Pieces per package	1	**Minimum order**	1.00
Price 1	> 100 units 164€	**Year of base price**	2025
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015; ISO 14001:2015

Specification Reference	Applicable PQS specification: E004/VC02.1 Applicable PQS VP(s): E004/VC02-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO-19-002		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**2CPCPVC-001**
IMD-PQS Code:	E004-061
Status:	Prequalified
Date of acceptance:	29 Nov 2021
Appliance type:	E004
Product description:	Vaccine Carrier (Short Range)
Manufacturer:	PARACOAT PRODUCTS LTD
Manufacturers Reference:	2CPCPVC-001
Country of Manufacture:	India
Address:	SALES & MARKETING - 201, Udyog Vihar, Phase-IV, Gurugram, Haryana, India, Pin-122016 India
Telephone:	+91-124-4224115
Email:	manish@paracoat.com
Website address:	https://www.paracoatproducts.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.77	**Gross storage volume (Litre)**	4.0000
External dimensions length (mm)	246.00	**External dimensions height (mm)**	247.00
External dimensions width (mm)	305.00	**Internal dimensions (length, mm)**	181.00
Internal dimensions (height, mm)	179.00	**Internal dimensions (width, mm)**	174.00
Cold life at +43°C * (hrs:mn)	23:58	**Warm life at - 20°C *(hrs:mn)**	9:09
Cool life at +43°C *(hrs:mn)	6:33	**Weight empty(Kg)**	0.8200
Weight fully loaded (Kg)	2.95	**Coolant packs**	0.4 L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	AIIP-04	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Other	**Insulation thickness (mm)**	30 mm
External materials	Expandable Polypropylene	**Internal lining materials**	Expandable Polypropylene
Lid type fixing	Removable lid		

Comments	Vaccine storage dimensions (cm): 104 mm x 104 mm x 164 mm

PRICE AND SHIPPING

Shipping volume (m3)	8.2E-4	**Shipping weight per carton(kg)**	3.3
Pieces per package	4 per carton	**Minimum order**	8.00
Year of base price	2021		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/VC01.2 Applicable PQS VP(s):	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-21-000620-001

PRODUCT SITES

Organization name	PARACOAT PRODUCTS LTD
Address	SALES & MARKETING - 201, Udyog Vihar, Phase-IV, Gurugram, Haryana, India, Pin-122016 India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**AFVC44**
IMD-PQS Code:	E004-063
Status:	Prequalified
Date of acceptance:	14 Sep 2022
Appliance type:	E004
Product description:	Freeze-Free Vaccine carrier short-range
Manufacturer:	AOV International LLP
Manufacturers Reference:	AFVC44
Country of Manufacture:	India
Address:	C-22/25, Sector 57, Nolda 201301 [U.P.], India India
Telephone:	+91 80102 66834
Email:	rohit.raman@aovinternational.net
Website address:	www.aovinternational.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.18	**Gross storage volume (Litre)**	2.0000
External dimensions length (mm)	285.00	**External dimensions height (mm)**	270.00
External dimensions width (mm)	285.00	**Internal dimensions (length, mm)**	89.00
Internal dimensions (height, mm)	149.00	**Internal dimensions (width, mm)**	89.00
Cold life at +43°C * (hrs:mn)	27:47	**Warm life at - 20°C *(hrs:mn)**	15:02
Weight empty(Kg)	3.3200	**Weight fully loaded (Kg)**	5.64
Minimum Rated Ambient Temp (°C)	15.00	**Coolant packs**	0.4 L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	0.4 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	CFC-Free Polyurethane	**Insulation thickness (mm)**	30-35 mm
Container type	Vaccine carrier	**External materials**	HDPE
Internal lining materials	HIPS	**Lid type fixing**	Removable lid

Comments	Vaccine storage dimensions (cm): 8.9 x 8.9 x 14.9 cm Range storage capacity: 2 L

PRICE AND SHIPPING

Shipping volume (m3)	0.054	**Shipping weight per carton(kg)**	7.5
Pieces per package	2	**Minimum order**	1.00
Year of base price	2022	**Incoterms**	EXW

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-22-000893-001

PRODUCT SITES

Organization name	AOV International LLP
Address	D-137, EPIP, SURAJPUR SITE-V, KASNA, GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**FFCB-20L**
IMD-PQS Code:	E004-064
Status:	Prequalified
Date of acceptance:	27 Sep 2022
Appliance type:	E004
Product description:	Freeze-Free Cold Box
Manufacturer:	Qingdao Leff International Trading Co Ltd
Manufacturers Reference:	FFCB-20L
Country of Manufacture:	China
Address:	10, Yan er'dao Road Qingdao 266000 P.R.China China
Telephone:	+ 86 373 7116885
Email:	david@lefftrade.org
Website address:	www.lefftrade.org
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	20.00	**Gross storage volume (Litre)**	20.0000
External dimensions height (mm)	473.00	**External dimensions width (mm)**	545.00
Internal dimensions (length, mm)	555.00	**Internal dimensions (height, mm)**	195.00
Internal dimensions (width, mm)	185.00	**Cold life at +43°C * (hrs:mn)**	72:52
Warm life at - 20°C *(hrs:mn)	38:40	**Cool life at +43°C *(hrs:mn)**	7:48
Weight empty(Kg)	22.1000	**Weight fully loaded (Kg)**	49.20
Minimum Rated Ambient Temp (°C)	15.00	**Number coolant packs**	17.00
Type coolant packs	Water packs	**Model coolant pack**	WP-0.6L
Coolant packs supplied	Yes		

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	CFC FREE POLYURETHANE	**Insulation thickness (mm)**	110 mm
External materials	HDPE	**Internal lining materials**	PP
Lid type fixing	Fixed hinges		

Comments	Vaccine storage dimensions (cm): 55.5×18.5×19.5cm Range storage capacity: 10 - 20 L

PRICE AND SHIPPING

Shipping weight per carton(kg)	26	**Minimum order**	2.00
Price 1	1 unit: USD260 10 units: USD255 100 units: USD250	**Year of base price**	2022
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-21-0335		

PRODUCT SITES

Organization name	Qingdao Leff International Trading Co Ltd
Address	10, Yan er'dao Road Qingdao 266000 P.R.China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**BK-VC-FF 2.4 L**
IMD-PQS Code:	E004-065
Status:	Prequalified
Date of acceptance:	01 Oct 2023
Appliance type:	E004
Product description:	Freeze-Free Vaccne carrier long range
Manufacturer:	Blowkings
Manufacturers Reference:	BK-VC-FF 2.4 L
Country of Manufacture:	India
Address:	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India
Telephone:	+91-(0)22-22840120
Email:	munjal@blowkings.co.in
Website address:	http://www.blowkings.co.in/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	2.40	**External dimensions length (mm)**	325.00
External dimensions height (mm)	327.00	**External dimensions width (mm)**	325.00
Internal dimensions (length, mm)	114.00	**Internal dimensions (height, mm)**	182.00
Internal dimensions (width, mm)	115.00	**Cold life at +43°C * (hrs:mn)**	39:26
Warm life at - 20°C *(hrs:mn)	23:05	**Weight empty(Kg)**	3.5000
Weight fully loaded (Kg)	7.95	**Minimum Rated Ambient Temp (°C)**	15.00
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	0.6 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	40 MM
External materials	Polyethylene	**Internal lining materials**	Polyethylene

Comments	Vaccine storage dimensions (cm): 11.4 (L)X 11.5 (W) X 18.2 (H) Range storage capacity: > 20 L

PRICE AND SHIPPING

Shipping weight per carton(kg)	18	**Pieces per package**	4
Minimum order	4.00	**Price 1**	$55
Year of base price	2022	**Incoterms**	EXW

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/VC02.1 Applicable PQS VP(s): E004/VC02-VP.1	**Subject to Field Validation**	N/A
Date field validation	Fri, 12/09/2022 - 00:41		

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-22-000873-001

PRODUCT SITES

Organization name	Blowkings
Address	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**TPVC 46 LFF**
IMD-PQS Code:	E004-066
Status:	Prequalified
Date of acceptance:	18 Jan 2023
Appliance type:	E004
Product description:	Freeze Free Vaccine Carrier
Manufacturer:	TRIMURTI PLAST CONTAINERS PRIVATE LIMITED
Manufacturers Reference:	TPVC 46 LFF
Country of Manufacture:	India
Address:	31/833, GANESHNAGAR, DHANKAWADI PUNE India
Telephone:	+91 98220 22312
Email:	rajesh@tpcpl.net
Website address:	www.tpcpl.co.in
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.50	**External dimensions height (mm)**	305.00
External dimensions width (mm)	310.00	**Internal dimensions (length, mm)**	94.00
Internal dimensions (height, mm)	170.00	**Internal dimensions (width, mm)**	94.00
Cold life at +43°C * (hrs:mn)	30:29	**Warm life at - 20°C *(hrs:mn)**	16:28
Weight empty(Kg)	3.9700	**Weight fully loaded (Kg)**	7.90
Minimum Rated Ambient Temp (°C)	15.00	**Coolant packs**	0.6 L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	TIP-6	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	34 mm
External materials	Polyethylene	**Internal lining materials**	Polyethylene
Lid type fixing	Fixed hinges		

Comments	Vaccine storage dimensions (cm): 9.4 (L) x 9.4 (W) x 17.0 (H)

PRICE AND SHIPPING

Shipping weight per carton(kg)	18	**Pieces per package**	2
Minimum order	4.00	**Price 1**	
Price 2	11-100 units: USD 42.5	**Price 3**	>100 units: USD 42.5
Year of base price	2023	**Incoterms**	EXW

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/VC02.1 Applicable PQS VP(s): E004/VC02-VP.1	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-22-001981-001

PRODUCT SITES

Organization name	TRIMURTI PLAST CONTAINERS PRIVATE LIMITED
Address	31/833, GANESHNAGAR, DHANKAWADI PUNE India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**RCB503L**
IMD-PQS Code:	E004-067
Status:	Prequalified
Date of acceptance:	24 Jan 2023
Appliance type:	E004
Product description:	Vaccine Cold Box (Long Range)
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	RCB503L
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	23.70	**Gross storage volume (Litre)**	23.7000
External dimensions height (mm)	533.00	**External dimensions width (mm)**	632.00
Internal dimensions (length, mm)	535.00	**Internal dimensions (height, mm)**	286.00
Internal dimensions (width, mm)	392.00	**Cold life at +43°C * (hrs:mn)**	131:05
Warm life at - 20°C *(hrs:mn)	21:49	**Cool life at +43°C *(hrs:mn)**	42:47
Weight empty(Kg)	19.1500	**Weight fully loaded (Kg)**	49.32
Coolant packs	0.6 L	**Number coolant packs**	50.00
Type coolant packs	Water packs	**Model coolant pack**	BIP-3
Coolant packs supplied	Yes		

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	111 mm
External materials	Polyethylene	**Internal lining materials**	Polyethylene
Lid type fixing	Fixed hinges		

Comments	Vaccine storage dimensions (cm): 46.8 cm(L) x 31.3 cm(W) x 16.2 Range storage capacity: > 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.26	**Shipping weight per carton(kg)**	25
Pieces per package	1	**Minimum order**	1.00
Price 1	135 USD per unit	**Year of base price**	2023
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB Applicable PQS VP(s):	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-22-000104-002

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**RCB316L**
IMD-PQS Code:	E004-068
Status:	Prequalified
Date of acceptance:	24 Jan 2023
Appliance type:	E004
Product description:	Vaccine Cold Box (Long Range)
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	RCB316L
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	21.92	**Gross storage volume (Litre)**	21.9200
External dimensions height (mm)	533.00	**External dimensions width (mm)**	632.00
Internal dimensions (length, mm)	542.00	**Internal dimensions (height, mm)**	285.00
Internal dimensions (width, mm)	386.00	**Cold life at +43°C * (hrs:mn)**	145:15
Warm life at - 20°C *(hrs:mn)	37:00	**Cool life at +43°C *(hrs:mn)**	45:49
Weight empty(Kg)	19.1900	**Weight fully loaded (Kg)**	49.91
Coolant packs	0.3 L	**Number coolant packs**	31.00
Type coolant packs	Water packs	**Model coolant pack**	BIP-6
Coolant packs supplied	Yes		

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	111 mm
Container type	Cold box	**External materials**	Polyethylene
Internal lining materials	Polyethylene	**Lid type fixing**	Fixed hinges

Comments	Vaccine storage dimensions (cm): 45.5 cm (L) x 31.7 cm (W) x 15 Range storage capacity: > 20 L

PRICE AND SHIPPING

Shipping volume (m3)	0.26	**Shipping weight per carton(kg)**	24.8
Pieces per package	1	**Minimum order**	1.00
Price 1	USD133	**Year of base price**	2023
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E004/CB Applicable PQS VP(s):	**Subject to Field Validation**	N/A

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-22-000104-001

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**FHCB23-0624**
IMD-PQS Code:	E004-069
Status:	Prequalified
Date of acceptance:	22 Feb 2023
Appliance type:	E004
Product description:	Vaccine Cold Box
Manufacturer:	Qingdao Leff International Trading Co Ltd
Manufacturers Reference:	FHCB23-0624
Country of Manufacture:	China
Address:	10, Yan er'dao Road Qingdao 266000 P.R.China China
Telephone:	+ 86 373 7116885
Email:	david@lefftrade.org
Website address:	www.lefftrade.org
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	23.00	**Gross storage volume (Litre)**	23.0000
External dimensions length (mm)	775.00	**External dimensions height (mm)**	485.00
External dimensions width (mm)	545.00	**Internal dimensions (length, mm)**	560.00
Internal dimensions (height, mm)	260.00	**Internal dimensions (width, mm)**	330.00
Cold life at +43°C * (hrs:mn)	13:39	**Warm life at - 20°C *(hrs:mn)**	42:30
Cool life at +43°C *(hrs:mn)	44:14	**Weight empty(Kg)**	18.6600
Weight fully loaded (Kg)	46.30	**Coolant packs**	0.6 L
Number coolant packs	24.00	**Type coolant packs**	Water packs
Model coolant pack	0.6 L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	105 mm
External materials	Polyethylene	**Internal lining materials**	Polyethylene
Lid type fixing	Fixed hinges		

Comments	Vaccine storage dimensions (cm): 56x33x26cm

PRICE AND SHIPPING

Shipping volume (m3)	0.21	**Shipping weight per carton(kg)**	24
Pieces per package	1	**Minimum order**	2.00
Price 1	USD240	**Incoterms**	EXW

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):	**Subject to Field Validation**	N/A

VERIFICATION

Verification Report Reference	WB-21-0337

PRODUCT SITES

Organization name	Qingdao Leff International Trading Co Ltd
Address	10, Yan er’dao Road Qingdao 266000 P.R.China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**FF001A Eclipse 1.8L**
IMD-PQS Code:	E004-070
Status:	Prequalified
Date of acceptance:	06 Dec 2023
Appliance type:	E004
Product description:	Freeze-free Vaccine carrier, Long range
Manufacturer:	Gobi Technologies
Manufacturers Reference:	FF001A Eclipse 1.8L
Country of Manufacture:	Germany
Address:	Mutoutan, Group No.2, Lizhidun Village, Futian Town, Boluo County Huizhou, Guangdong Province, China China
Telephone:	+86 139 2834-6311
Email:	morgan@gobi.world
Website address:	https://www.gobi.world/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.80	**Gross storage volume (Litre)**	1.8000
External dimensions height (mm)	387.00	**External dimensions width (mm)**	220.00
Internal dimensions (length, mm)	0.00	**Internal dimensions (height, mm)**	206.00
Internal dimensions (width, mm)	159.00	**Cold life at +43°C * (hrs:mn)**	36:00
Warm life at - 20°C *(hrs:mn)	31:48	**Weight empty(Kg)**	3.4000
Weight fully loaded (Kg)	5.50	**Minimum Rated Ambient Temp (°C)**	15.00
Number coolant packs	1.00	**Type coolant packs**	Water packs
Model coolant pack	Gobi model FF007A 0.6L	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Vaccuum insulation	**Insulation thickness (mm)**	5 mm
External materials	HDPE	**Internal lining materials**	Stainless Steel
Lid type fixing	Zip		

Comments	Country of manufacture (legacy): China Vaccine storage dimensions (cm): 86cm2 x 20.6 cm tall OEM name and address: Gobi Technologies 5406 Lake Washington Blvd NE Suite F Kirkland WA 98033 USA Range storage capacity: 2 L

PRICE AND SHIPPING

Shipping volume (m3)	0.036	**Shipping weight per carton(kg)**	3.6
Pieces per package	1	**Minimum order**	100.00
Price 1	$89	**Year of base price**	2023
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Subject to Field Validation	N/A		

VERIFICATION

Verification Laboratory	Re/Gent B.V	**Address**	Lage Dijk 22Netherlands
Telephone	+31492 476365	**Email**	patrick.beks@re-gent.nl
Verification Report Reference	Re/Gent Report #23126/GO01/V2		

PRODUCT SITES

Organization name	Gobi Technologies
Address	Mutoutan, Group No.2, Lizhidun Village, Futian Town, Boluo County Huizhou, Guangdong Province, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**GKS FFVC-44LR**
IMD-PQS Code:	E004-071
Status:	Prequalified
Date of acceptance:	08 Aug 2023
Appliance type:	E004
Product description:	Freeze-free Vaccine carrier, Long range
Manufacturer:	GKS Healthsol LLP
Manufacturers Reference:	GKS FFVC-44LR
Country of Manufacture:	India
Address:	Plot No 301 Sector 53 Phase V HSIIDC Kundli 131028 Sonipat India
Telephone:	+919820895063
Email:	dinesh@gkshealth.com
Website address:	www.gkshealth.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.70	**Gross storage volume (Litre)**	1.7400
External dimensions length (mm)	285.00	**External dimensions height (mm)**	295.00
External dimensions width (mm)	305.00	**Internal dimensions (length, mm)**	162.00
Internal dimensions (height, mm)	103.00	**Internal dimensions (width, mm)**	103.00
Cold life at +43°C * (hrs:mn)	30:22	**Warm life at - 20°C *(hrs:mn)**	16:41
Weight empty(Kg)	3.5000	**Weight fully loaded (Kg)**	6.40
Minimum Rated Ambient Temp (°C)	15.00	**Coolant packs**	0.3 L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	GKS-IP-4	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	CFC FREE POLYURETHANE	**Insulation thickness (mm)**	40 MM
Container type	Vaccine carrier	**External materials**	HDPE
Internal lining materials	HIPS	**Lid type fixing**	Removable lid

Comments	Range storage capacity: 2 L Grade A Freeze Protection

PRICE AND SHIPPING

Shipping volume (m3)	0.12	**Shipping weight per carton(kg)**	16
Pieces per package	4	**Minimum order**	4.00
Price 1	$37 per unit	**Price 2**	$35 upto 10 units
Price 3	$33 upto 100 units and more	**Year of base price**	2023
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Subject to Field Validation	N/A		

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-23-000388-001 (Amendment-1)

PRODUCT SITES

Organization name	GKS Healthsol LLP
Address	Plot No 301 Sector 53 Phase V HSIIDC Kundli 131028 Sonipat India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**RCB424L**
IMD-PQS Code:	E004-073
Status:	Prequalified
Date of acceptance:	07 Sep 2024
Product description:	Vaccine Cold Box - Long Range
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	RCB424L
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	12.46	**External dimensions length (mm)**	600.00
External dimensions height (mm)	562.00	**External dimensions width (mm)**	605.00
Internal dimensions (length, mm)	344.00	**Internal dimensions (height, mm)**	345.00
Internal dimensions (width, mm)	333.00	**Cold life at +43°C * (hrs:mn)**	170:29
Warm life at - 20°C *(hrs:mn)	68:29	**Cool life at +43°C *(hrs:mn)**	41:16
Number coolant packs	42.00	**Type coolant packs**	Water packs
Model coolant pack	BIP-4	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	100
Container type	Cold box	**External materials**	LLDPE
Internal lining materials	LLDPE	**Lid type fixing**	Fixed hinges

PRICE AND SHIPPING

Shipping volume (m3)	0.21	**Shipping weight per carton(kg)**	22.6
Pieces per package	1	**Minimum order**	1.00
Price 1	USD 118	**Year of base price**	2024
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

VERIFICATION

Verification Laboratory	0013X00004MI8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-23-001003-001

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**TVC-017**
IMD-PQS Code:	E004-074
Status:	Prequalified
Date of acceptance:	30 Sep 2024
Product description:	Vaccine Carrier
Manufacturer:	Thermos International Trading Limited
Manufacturers Reference:	TVC-017
Country of Manufacture:	China
Address:	Room E, 31F, Noble center, No. 1006, Fuzhong 3rd Road, Futian District, Shenzhen, China
Telephone:	+86 755 25945218
Email:	international@thermos.com
Website address:	www.thermos.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.70	**External dimensions length (mm)**	240.00
External dimensions height (mm)	305.00	**External dimensions width (mm)**	240.00
Internal dimensions (length, mm)	150.00	**Internal dimensions (height, mm)**	170.00
Internal dimensions (width, mm)	150.00	**Cold life at +43°C * (hrs:mn)**	20
Warm life at - 20°C *(hrs:mn)	10	**Cool life at +43°C *(hrs:mn)**	8.5
Weight empty(Kg)	1.0000	**Weight fully loaded (Kg)**	2.45
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	IP03 (Type 1, 0.3L)	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Phenolic Foam for Body and Polyethylene foam for Top	**Insulation thickness (mm)**	40
Container type	Vaccine carrier	**External materials**	Polyester laminated with TPU
Internal lining materials	Foil Paper	**Lid type fixing**	Zip

PRICE AND SHIPPING

Shipping volume (m3)	0.048	**Shipping weight per carton(kg)**	3.3
Pieces per package	2	**Minimum order**	100.00
Price 1	USD 75	**Year of base price**	2024
Incoterms	EXW		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-22-0273		

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**AIFVC-43**
IMD-PQS Code:	E004-075
Status:	Prequalified
Date of acceptance:	18 Oct 2024
Product description:	Freeze Preventive Vaccine Carrier
Manufacturer:	Apex International
Manufacturers Reference:	AIFVC-43
Country of Manufacture:	India
Address:	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India
Telephone:	+91-120-2574851
Email:	mail@apexint.org
Website address:	http://www.apex-international.org/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	0.91	**External dimensions length (mm)**	252.00
External dimensions height (mm)	291.00	**External dimensions width (mm)**	255.00
Internal dimensions (length, mm)	75.00	**Internal dimensions (height, mm)**	160.00
Internal dimensions (width, mm)	75.00	**Cold life at +43°C * (hrs:mn)**	27:13
Warm life at - 20°C *(hrs:mn)	15:44	**Minimum Rated Ambient Temp (°C)**	15.00
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	AIIP-03	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	30
Container type	Vaccine carrier	**External materials**	HDPE
Internal lining materials	HIPS	**Lid type fixing**	Removable lid

Comments	Volume per carton: 1500 Nos in 1x20FT container

PRICE AND SHIPPING

Shipping weight per carton(kg)	18.8	**Pieces per package**	8
Minimum order	1.00	**Price 1**	USD 50
Price 2	USD 48 for qty upto 50	**Price 3**	USD 46 for qty upto 100
Year of base price	2024	**Incoterms**	FCA

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	Intertek CCE-JOB-NDA-23-002723-001

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**AIVC - 46**
IMD-PQS Code:	E004-076
Status:	Prequalified
Date of acceptance:	02 Dec 2024
Product description:	Freeze preventive Vaccine carrier - Long range
Manufacturer:	Apex International
Manufacturers Reference:	AIVC - 46
Country of Manufacture:	India
Address:	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India
Telephone:	+91-120-2574851
Email:	mail@apexint.org
Website address:	http://www.apex-international.org/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.63	**External dimensions length (mm)**	320.00
External dimensions height (mm)	335.00	**External dimensions width (mm)**	320.00
Internal dimensions (length, mm)	97.60	**Internal dimensions (height, mm)**	16.99
Internal dimensions (width, mm)	97.60	**Cold life at +43°C * (hrs:mn)**	41:36
Warm life at - 20°C *(hrs:mn)	18:35	**Weight empty(Kg)**	3.8600
Weight fully loaded (Kg)	7.87	**Minimum Rated Ambient Temp (°C)**	15.00
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	AIIP-06	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	50
Container type	Vaccine carrier	**External materials**	HDPE
Internal lining materials	HIPS	**Lid type fixing**	Removable lid

Comments	Vaccine storage dimensions (cm): 9.76 x 9.76 x 16.99

PRICE AND SHIPPING

Shipping weight per carton(kg)	4	**Pieces per package**	4
Minimum order	1.00	**Price 1**	60
Price 2	USD 58 for qty upto 50	**Price 3**	USD 58 for qty upto 50
Year of base price	2024	**Incoterms**	FCA

VERIFICATION

Verification Laboratory	0013X00004MI8OaQAJ	**Verification Report Reference**	Intertek CE-JOB-NDA-23-001270-001

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**BCVC46L1FF Long range freeze free**
IMD-PQS Code:	E004-077
Status:	Prequalified
Date of acceptance:	24 Mar 2025
Product description:	Freeze Preventive Vaccine Carrier
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	BCVC46L1FF Long range freeze free
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	2.10	**Gross storage volume (Litre)**	2.1000
External dimensions length (mm)	31.20	**External dimensions height (mm)**	30.00
External dimensions width (mm)	31.20	**Internal dimensions (length, mm)**	10.90
Internal dimensions (height, mm)	19.00	**Internal dimensions (width, mm)**	10.90
Cold life at +43°C * (hrs:mn)	31:22	**Warm life at - 20°C *(hrs:mn)**	19:54
Weight empty(Kg)	3.2000	**Weight fully loaded (Kg)**	7.59
Minimum Rated Ambient Temp (°C)	43.00	**Coolant packs**	0.6L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	BIP-6	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	44
External materials	HDPE	**Internal lining materials**	HIPS
Lid type fixing	Removable lid		

PRICE AND SHIPPING

Shipping volume (m3)	0.032	**Shipping weight (kg)**	3.20
Shipping weight per carton(kg)	3.953	**Pieces per package**	1
Minimum order	1.00	**Price 1**	50 USD
Year of base price	2024	**Incoterms**	EXW

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-24-000528-002

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**TPVC 46**
IMD-PQS Code:	E004-078
Status:	Prequalified
Date of acceptance:	25 Mar 2025
Product description:	Vaccine Carrier
Manufacturer:	TRIMURTI PLAST CONTAINERS PRIVATE LIMITED
Manufacturers Reference:	TPVC 46
Address:	31/833, GANESHNAGAR, DHANKAWADI PUNE India
Telephone:	+91 98220 22312
Email:	rajesh@tpcpl.net
Website address:	www.tpcpl.co.in
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	3.40	**External dimensions length (mm)**	29.80
External dimensions height (mm)	34.00	**External dimensions width (mm)**	29.80
Internal dimensions (length, mm)	20.20	**Internal dimensions (height, mm)**	19.40
Internal dimensions (width, mm)	20.20	**Cold life at +43°C * (hrs:mn)**	47:2
Warm life at - 20°C *(hrs:mn)	17:06	**Cool life at +43°C *(hrs:mn)**	09:40
Weight empty(Kg)	2.7800	**Weight fully loaded (Kg)**	7.16
Minimum Rated Ambient Temp (°C)	15.00	**Coolant packs**	0.6L
Number coolant packs	4.00	**Type coolant packs**	Water packs
Model coolant pack	TIP-6	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	40mm
External materials	Polyethylene	**Internal lining materials**	HIPS
Lid type fixing	Removable lid		

Comments	Vaccine storage dimensions: 13.2cm (L) x 13.5cm (W) x 19.2cm (H)

PRICE AND SHIPPING

Shipping weight per carton(kg)	3.1	**Pieces per package**	1
Minimum order	4.00	**Price 1**	20 USD
Year of base price	2025	**Incoterms**	EXW

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001: 2015

VERIFICATION

Verification Laboratory	0013X00004MI8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-23-002172-001

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**EPVC44**
IMD-PQS Code:	E004-079
Status:	Prequalified
Date of acceptance:	02 Apr 2025
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	EPVC44
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.90	**Gross storage volume (Litre)**	1.9000
External dimensions length (mm)	25.00	**External dimensions height (mm)**	30.60
External dimensions width (mm)	25.00	**Internal dimensions (length, mm)**	18.20
Internal dimensions (height, mm)	17.40	**Internal dimensions (width, mm)**	10.50
Cold life at +43°C * (hrs:mn)	22:38	**Warm life at - 20°C *(hrs:mn)**	8:15
Weight empty(Kg)	0.5800	**Weight fully loaded (Kg)**	3.29
Minimum Rated Ambient Temp (°C)	43.00	**Number coolant packs**	4.00
Type coolant packs	Water packs	**Model coolant pack**	BIP-4
Coolant packs supplied	Yes		

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Other	**Insulation thickness (mm)**	34.5
Container type	Vaccine carrier	**External materials**	Expandable Polyproplyene
Internal lining materials	Expandable Polyproplyene	**Lid type fixing**	Removable lid

PRICE AND SHIPPING

Shipping volume (m3)	0.022308	**Shipping weight (kg)**	0.95
Pieces per package	1	**Minimum order**	1.00
Price 1	17 USD	**Year of base price**	2024
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-24-002090-001

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E004: Cold boxes and vaccine carriers



Product name:	**BCVC44LFF**
IMD-PQS Code:	E004-080
Status:	Prequalified
Date of acceptance:	05 Jun 2025
Product description:	Freeze-Preventive Vaccine carrier - Long range
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	BCVC44LFF
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine storage capacity (Litre)	1.50	**External dimensions length (mm)**	30.00
External dimensions height (mm)	30.00	**External dimensions width (mm)**	28.80
Internal dimensions (length, mm)	10.90	**Internal dimensions (height, mm)**	19.00
Internal dimensions (width, mm)	10.90	**Cold life at +43°C * (hrs:mn)**	28:04
Weight empty(Kg)	2.7600	**Weight fully loaded (Kg)**	5.69
Minimum Rated Ambient Temp (°C)	43.00	**Number coolant packs**	4.00
Model coolant pack	BIP-4	**Coolant packs supplied**	Yes

PRODUCT SPECIFICATIONS - MATERIALS & CONSTRUCTION

Insulation materials	Polyurethane	**Insulation thickness (mm)**	40
External materials	HDPE	**Internal lining materials**	HIPS
Lid type fixing	Removable lid		

Comments	Vaccine storage dimensions: 10.9 cm(L) x 10.9 cm(W) x 19 cm(H)

PRICE AND SHIPPING

Shipping volume (m3)	0.027	**Shipping weight per carton(kg)**	3.250
Pieces per package	1	**Minimum order**	1.00
Price 1	40 USD	**Year of base price**	2025
Incoterms	EXW		

QUALITY STANDARD

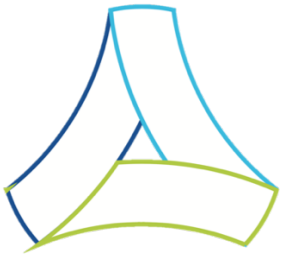
Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-24-000528-001

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



E005
Coolant packs

This section primarily covers coolant-packs which are used as the temperature control medium in the insulated containers described in Section E004. A coolant-pack is a purpose designed, leak-proof container filled with coolant. The term "coolant-pack" recognizes the potential for use more broadly than with frozen water as icepacks. See section E005.2. This category also covers "fixed containers" that hold coolant but are not intended for removal by users from both powered and non-powered (passive) cold chain equipment.

Details regarding the products included in each sub-category of E005, as well as guidelines, performance specifications and verification protocols for this category, can be accessed through the drop-down sections below.

E005.1: Choosing coolant-packs

The coolant-packs listed in the E005 product data sheets are all suitable for use in the transport of vaccines. IMD-PQS allows three standard sizes of coolant-pack: 0.3 litre, 0.4 litre and 0.6 litre. Coolant-packs may be used as conventional frozen or conditioned icepacks or as cool and/or warm-packs in cold climates.

Make sure coolant-pack sizes are suitable for the cold boxes or vaccine carriers they are intended to be used with. DO NOT purchase pre-filled coolant-packs, because they could be filled with a substance that is not WHO-prequalified. Additional guidelines on how to use passive containers and coolant-packs for vaccine transport and outreach operations can be found in the WHO Vaccine Management Handbook.

E005.2: WHO product review

WHO will continue to review the use of non-water coolant-packs that change phase at a temperature other than 0°C ("phase-change material" or PCM). At the current time, the safety, simplicity and low transport costs associated with water-based products which are filled in-country are considered to outweigh the possible performance benefits of phase-change materials in removable coolant-packs for routine immunization.

PCMs and their use in fixed containers integrated as part of cold chain equipment is specified in the following category documentation section, and will continue to be reviewed by WHO.

CATEGORY DOCUMENTATION, GUIDANCE FOR MANUFACTURERS/SUPPLIERS & SUPPORTING INFORMATION FOR USERS

Performance specifications

PQS performance specification E005/PMC0.1: Phase-change material containers

PQS performance specification E005/IP01.3: Water-packs for use as icepacks, cool-packs and warm-packs

PQS performance specification E005/PMC02.1: Phase-change material containers – ultra-low temperature

Verification protocols

PQS independent type-testing protocol E005/PCM02-VP0.1: Phase-change material containers - ultra-low temperature

PQS independent type-testing protocol E005/PCM01-VP0.1: Phase-change material containers

PQS independent type-testing protocol E005/IP01-VP.3: Water-packs for use as icepacks, cool-packs and warm-packs

Guidance for manufacturers or suppliers

Generic guide for the field evaluation of new technologies for WHO PQS prequalification GENERIC/GUIDE 1.1

IMD-PQS Guidelines for Prequalification Holders

Supporting information for users

How to use passive containers and coolant-packs for vaccine transport and outreach operations

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**Bmedical WP 0.6L;Dometic 0.6 L**
IMD-PQS Code:	E005-001
Status:	Prequalified
Date of acceptance:	12 Aug 2009
Appliance type:	E005
Product description:	Water-pack 0.6L
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	Bmedical WP 0.6L;Dometic 0.6 L
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.60
Rated water content (Litres)	0.58	**External dimensions height (mm)**	35.00
External dimensions length (mm)	190.00	**External dimensions width (mm)**	120.00
Weight empty (g)	79.0000	**Weight filled (g)**	655.00

PRICE AND SHIPPING

Shipping volume (m3)	0.025	**Shipping weight (kg)**	3.00
Pieces per package	24 units	**Minimum order (unit)**	1.00
Incoterms	EXW	**Price 1**	>100 units:48 €
Year of base price	2025		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E05/IP01.1 Applicable PQS VP(s): E05/IP01-VP.1

VERIFICATION

Verification Laboratory	0013X00004MI8OaQAJ	**Verification Report Reference**	A65899b

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**Bmedical WP 0.3L;Dometic 0.3 L**
IMD-PQS Code:	E005-002
Status:	Prequalified
Date of acceptance:	22 Mar 2010
Appliance type:	E005
Product description:	Water-pack 0.3L
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	Bmedical WP 0.3L;Dometic 0.3 L
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.30
Rated water content (Litres)	0.35	**External dimensions height (mm)**	25.00
External dimensions length (mm)	170.00	**External dimensions width (mm)**	120.00
Weight empty (g)	69.0000	**Weight filled (g)**	418.00

PRICE AND SHIPPING

Shipping volume (m3)	0.025	**Shipping weight (kg)**	3.00
Pieces per package	40 units	**Minimum order (unit)**	1.00
Incoterms	EXW	**Price 1**	>100 units: 66 €
Year of base price	2025		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.1 Applicable PQS VP(s): E005/IP01-VP.1

VERIFICATION

Verification Laboratory	0013X00004MI8OaQAJ	**Verification Report Reference**	A65899a

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**AOV AIP-3**
IMD-PQS Code:	E005-004
Status:	Prequalified
Date of acceptance:	26 Apr 2010
Appliance type:	E005
Product description:	Water-pack 0.3 L
Manufacturer:	AOV International LLP
Manufacturers Reference:	AOV AIP-3
Country of Manufacture:	India
Address:	C-22/25, Sector 57, Nolda 201301 [U.P.], India India
Telephone:	+91 80102 66834
Email:	rohit.raman@aovinternational.net
Website address:	www.aovinternational.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.30
Rated water content (Litres)	0.35	**External dimensions height (mm)**	34.00
External dimensions length (mm)	160.00	**External dimensions width (mm)**	91.00
Weight empty (g)	76.0000	**Weight filled (g)**	363.00

PRICE AND SHIPPING

Shipping volume (m3)	0.16	**Shipping weight (kg)**	22.00
Pieces per package	240 units	**Minimum order (unit)**	240.00
Incoterms	EXW	**Price 1**	0.35 USD per unit
Year of base price	2016		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.1 Applicable PQS VP(s): E005/IP01-VP.1

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	S09EEC02224/AT/JT		

PRODUCT SITES

Organization name	AOV International LLP
Address	D-137, EPIP, SURAJPUR SITE-V, KASNA, GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**AOV AIP-4**
IMD-PQS Code:	E005-005
Status:	Prequalified
Date of acceptance:	26 Apr 2010
Appliance type:	E005
Product description:	Water-pack 0.4 L
Manufacturer:	AOV International LLP
Manufacturers Reference:	AOV AIP-4
Country of Manufacture:	India
Address:	C-22/25, Sector 57, Nolda 201301 [U.P.], India India
Telephone:	+91 80102 66834
Email:	rohit.raman@aovinternational.net
Website address:	www.aovinternational.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.40
Rated water content (Litres)	0.35	**External dimensions height (mm)**	34.00
External dimensions length (mm)	164.00	**External dimensions width (mm)**	95.00
Weight empty (g)	78.0000	**Weight filled (g)**	432.00

PRICE AND SHIPPING

Shipping volume (m3)	0.16	**Shipping weight (kg)**	21.00
Pieces per package	230 units	**Minimum order (unit)**	230.00
Incoterms	EXW	**Price 1**	0.40 USD per unit
Year of base price	2016		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.1 Applicable PQS VP(s): E005/IP01-VP.1

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	S09EEC02224/ATJT		

PRODUCT SITES

Organization name	AOV International LLP
Address	D-137, EPIP, SURAJPUR SITE-V, KASNA, GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**AOV AIP-6 0.6L**
IMD-PQS Code:	E005-006
Status:	Prequalified
Date of acceptance:	26 Apr 2010
Appliance type:	E005
Product description:	Water-pack 0.6L
Manufacturer:	AOV International LLP
Manufacturers Reference:	AOV AIP-6 0.6L
Country of Manufacture:	India
Address:	C-22/25, Sector 57, Nolda 201301 [U.P.], India India
Telephone:	+91 80102 66834
Email:	rohit.raman@aovinternational.net
Website address:	www.aovinternational.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.60
Rated water content (Litres)	0.55	**External dimensions height (mm)**	35.00
External dimensions length (mm)	190.00	**External dimensions width (mm)**	119.00
Weight empty (g)	110.0000	**Weight filled (g)**	664.00

PRICE AND SHIPPING

Shipping volume (m3)	0.16	**Shipping weight (kg)**	20.00
Pieces per package	150 units	**Minimum order (unit)**	150.00
Incoterms	EXW	**Price 1**	0.60 USD per unit
Year of base price	2016		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.1 Applicable PQS VP(s): E005/IP01-VP.1

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	EEC09/719162291		

PRODUCT SITES

Organization name	AOV International LLP
Address	D-137, EPIP, SURAJPUR SITE-V, KASNA, GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**Apex AIIP03**
IMD-PQS Code:	E005-007
Status:	Prequalified
Date of acceptance:	05 Mar 2010
Appliance type:	E005
Product description:	Water-pack 0.3L
Manufacturer:	Apex International
Manufacturers Reference:	Apex AIIP03
Country of Manufacture:	India
Address:	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India
Telephone:	+91-120-2574851
Email:	mail@apexint.org
Website address:	http://www.apex-international.org/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.30
Rated water content (Litres)	0.29	**External dimensions height (mm)**	31.50
External dimensions length (mm)	161.00	**External dimensions width (mm)**	89.00
Weight empty (g)	77.0000	**Weight filled (g)**	363.00

PRICE AND SHIPPING

Shipping volume (m3)	0.045	**Shipping weight (kg)**	8.00
Pieces per package	100 units	**Minimum order (unit)**	100.00
Incoterms	EXW	**Price 1**	100 units or more: 0.45 USD
Year of base price	2016		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.1 Applicable PQS VP(s): E005/IP01-VP.1

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719164810EEC09/03		

PRODUCT SITES

Organization name	Apex International
Address	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**Apex AIIP04**
IMD-PQS Code:	E005-008
Status:	Prequalified
Date of acceptance:	05 Mar 2010
Appliance type:	E005
Product description:	Water-pack 0.4L
Manufacturer:	Apex International
Manufacturers Reference:	Apex AIIP04
Country of Manufacture:	India
Address:	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India
Telephone:	+91-120-2574851
Email:	mail@apexint.org
Website address:	http://www.apex-international.org/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.40
Rated water content (Litres)	0.35	**External dimensions height (mm)**	34.35
External dimensions length (mm)	163.25	**External dimensions width (mm)**	95.60
Weight empty (g)	77.0000	**Weight filled (g)**	428.00

PRICE AND SHIPPING

Shipping volume (m3)	0.054	**Shipping weight (kg)**	8.00
Pieces per package	100 units	**Minimum order (unit)**	100.00
Incoterms	EXW	**Price 1**	100 units or more: 0.50 USD
Year of base price	2016		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.1 Applicable PQS VP(s): E005/IP01VP.1

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719164808EEC09/02		

PRODUCT SITES

Organization name	Apex International
Address	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**Apex AIIP06**
IMD-PQS Code:	E005-009
Status:	Prequalified
Date of acceptance:	05 Mar 2010
Appliance type:	E005
Product description:	Water-pack 0.6 L
Manufacturer:	Apex International
Manufacturers Reference:	Apex AIIP06
Country of Manufacture:	India
Address:	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India
Telephone:	+91-120-2574851
Email:	mail@apexint.org
Website address:	http://www.apex-international.org/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.60
Rated water content (Litres)	0.56	**External dimensions height (mm)**	34.34
External dimensions length (mm)	189.55	**External dimensions width (mm)**	121.20
Weight empty (g)	111.0000	**Weight filled (g)**	666.00

PRICE AND SHIPPING

Shipping volume (m3)	0.079	**Shipping weight (kg)**	11.50
Pieces per package	100 units	**Minimum order (unit)**	100.00
Incoterms	EXW	**Price 1**	100 units or more: 0.65 USD
Year of base price	2016		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.1 Applicable PQS VP(s): E005/IP01-VP.1

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719164808EEC09/01		

PRODUCT SITES

Organization name	Apex International
Address	E-8/9, SITE-B, SURAJPUR INDUSTRIAL AREA 201306 GREATER NOIDA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**BLowkings BK-V4H**
IMD-PQS Code:	E005-010
Status:	Prequalified
Date of acceptance:	09 Feb 2010
Appliance type:	E005
Product description:	Water-pack 0.3 L
Manufacturer:	Blowkings
Manufacturers Reference:	BLowkings BK-V4H
Country of Manufacture:	India
Address:	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India
Telephone:	+91-(0)22-22840120
Email:	munjal@blowkings.co.in
Website address:	http://www.blowkings.co.in/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.30
Rated water content (Litres)	0.30	**External dimensions height (mm)**	34.30
External dimensions length (mm)	162.40	**External dimensions width (mm)**	89.90
Weight empty (g)	69.0000	**Weight filled (g)**	374.00

PRICE AND SHIPPING

Shipping volume (m3)	0.12	**Shipping weight (kg)**	22.00
Pieces per package	225 units	**Minimum order (unit)**	225.00
Incoterms	EXW	**Price 1**	225 units or more: 0.45 USD
Year of base price	2016		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.1 Applicable PQS VP(s): E005/IP01-vp.1

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	719170704-EEC10		

PRODUCT SITES

Organization name	Blowkings
Address	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**Blowkings BK-4**
IMD-PQS Code:	E005-011
Status:	Prequalified
Date of acceptance:	09 Feb 2010
Appliance type:	E005
Product description:	water-pack 0.4L
Manufacturer:	Blowkings
Manufacturers Reference:	Blowkings BK-4
Country of Manufacture:	India
Address:	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India
Telephone:	+91-(0)22-22840120
Email:	munjal@blowkings.co.in
Website address:	http://www.blowkings.co.in/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.40
Rated water content (Litres)	0.39	**External dimensions height (mm)**	35.00
External dimensions length (mm)	165.00	**External dimensions width (mm)**	93.00
Weight empty (g)	70.0000	**Weight filled (g)**	430.00

PRICE AND SHIPPING

Shipping volume (m3)	0.13	**Shipping weight (kg)**	22.00
Pieces per package	225 units	**Minimum order (unit)**	225.00
Incoterms	EXW	**Price 1**	225 units or more: 0.50 USD
Year of base price	2016		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.1 Applicable PQS VP(s): E005/IP01-VP.1

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	EEC09-719162420-B		

PRODUCT SITES

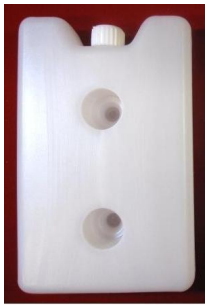
Organization name	Blowkings
Address	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**Blowkings BK-6**
IMD-PQS Code:	E005-012
Status:	Prequalified
Date of acceptance:	09 Feb 2010
Appliance type:	E005
Product description:	Water-pack 0.6L
Manufacturer:	Blowkings
Manufacturers Reference:	Blowkings BK-6
Country of Manufacture:	India
Address:	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India
Telephone:	+91-(0)22-22840120
Email:	munjal@blowkings.co.in
Website address:	http://www.blowkings.co.in/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.60
Rated water content (Litres)	0.55	**External dimensions height (mm)**	35.00
External dimensions length (mm)	190.00	**External dimensions width (mm)**	120.00
Weight empty (g)	110.0000	**Weight filled (g)**	655.00

PRICE AND SHIPPING

Shipping volume (m3)	0.13	**Shipping weight (kg)**	22.00
Pieces per package	144 units	**Minimum order (unit)**	144.00
Incoterms	EXW	**Price 1**	144 units or more: 0.65 USD
Year of base price	2016		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.1 Applicable PQS VP(s): E005/IP01-VP.1

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	EEC09-719162420 A		

PRODUCT SITES

Organization name	Blowkings
Address	173 , Sector 1 , Kandla Free Trade Zone 370230 Gandhidham India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**Nilkamal BIP-3**
IMD-PQS Code:	E005-013
Status:	Prequalified
Date of acceptance:	15 Oct 2010
Appliance type:	E005
Product description:	Water-pack 0.3L T2
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	Nilkamal BIP-3
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.30
Rated water content (Litres)	0.29	**External dimensions height (mm)**	33.00
External dimensions length (mm)	163.00	**External dimensions width (mm)**	90.50
Weight empty (g)	75.0000	**Weight filled (g)**	370.00

PRICE AND SHIPPING

Shipping volume (m3)	0.2	**Shipping weight (kg)**	30.50
Pieces per package	380 units	**Minimum order (unit)**	380.00
Incoterms	EXW	**Price 1**	380 units or more: 0.47 USD
Year of base price	2016		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.2 Applicable PQS VP(s): E005/IP01-VP.2

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 10-004		

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**Nilkamal BIP-4**
IMD-PQS Code:	E005-014
Status:	Prequalified
Date of acceptance:	15 Oct 2010
Appliance type:	E005
Product description:	Water-pack 0.4L
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	Nilkamal BIP-4
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.40
Rated water content (Litres)	0.35	**External dimensions height (mm)**	33.00
External dimensions length (mm)	165.00	**External dimensions width (mm)**	95.00
Weight empty (g)	76.0000	**Weight filled (g)**	431.00

PRICE AND SHIPPING

Shipping volume (m3)	0.2	**Shipping weight (kg)**	30.88
Pieces per package	380 units	**Minimum order (unit)**	380.00
Incoterms	EXW	**Price 1**	380 units or more: 0.49 USD
Year of base price	2016		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.2 Applicable PQS VP(s): E005/IP01-VP.2

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 10-005		

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**Nilkamal BIP-6**
IMD-PQS Code:	E005-015
Status:	Prequalified
Date of acceptance:	15 Oct 2010
Appliance type:	E005
Product description:	Water-pack 0.6L
Manufacturer:	Nilkamal Limited
Manufacturers Reference:	Nilkamal BIP-6
Country of Manufacture:	India
Address:	Site I Survey No: 389, 391, 393, 396, 343, Naroli-Kharadpada Road, Village:Kharadpada, Silvassa 396230 (U.T of D&NH), INDIA Mumbai Maharashtra India
Telephone:	+91 396230 9825486880
Email:	vaishali.gaikwad@nilkamal.com
Website address:	http://www.nilkamal.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.60
Rated water content (Litres)	0.56	**External dimensions height (mm)**	35.00
External dimensions length (mm)	190.00	**External dimensions width (mm)**	121.00
Weight empty (g)	114.0000	**Weight filled (g)**	650.00

PRICE AND SHIPPING

Shipping volume (m3)	0.2	**Shipping weight (kg)**	29.36
Pieces per package	150 units	**Minimum order (unit)**	240.00
Incoterms	EXW	**Price 1**	240 units or more: 0.63 USD
Year of base price	2016		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.2 Applicable PQS VP(s): E005/IP01-VP.2

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 10-006		

PRODUCT SITES

Organization name	Nilkamal Limited
Address	Street No 14, MIDC - Andheri (East) Mumbai Maharashtra India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**Water-pack 0.4 L**
IMD-PQS Code:	E005-019
Status:	Prequalified
Date of acceptance:	29 May 2014
Appliance type:	E005
Product description:	Water-pack 0.4 L
Manufacturer:	Giostyle SpA
Manufacturers Reference:	Water-pack 0.4 L
Country of Manufacture:	Italy
Address:	Giostyle SpA Via Battaina 393 24059 Urgnano (BG) Italy Italy
Telephone:	+39 035 4188501
Email:	giostyle@giostyle.com
Website address:	www.giostyle.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.40
Rated water content (Litres)	0.38	**External dimensions height (mm)**	33.00
External dimensions length (mm)	165.00	**External dimensions width (mm)**	93.00
Weight empty (g)	50.0000	**Weight filled (g)**	420.00

PRICE AND SHIPPING

Shipping volume (m3)	0.04	**Shipping weight (kg)**	4.00
Pieces per package	60 units	**Minimum order (unit)**	60.00
Incoterms	EXW	**Price 1**	60 units or more: 0.80 USD per unit
Year of base price	2016		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.2 Applicable PQS VP(s): E005/IP01-VP.2

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO-10-014		

PRODUCT SITES

Organization name	Giostyle SpA
Address	Giostyle SpA Via Battaina 393 24059 Urgnano (BG) Italy Italy

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**Feihong WP-0.3L**
IMD-PQS Code:	E005-020
Status:	Prequalified
Date of acceptance:	13 Nov 2018
Appliance type:	E005
Product description:	Ice Pack 0.3L
Manufacturer:	Qingdao Leff International Trading Co Ltd
Manufacturers Reference:	Feihong WP-0.3L
Country of Manufacture:	China
Address:	10, Yan er'dao Road Qingdao 266000 P.R.China China
Telephone:	+ 86 373 7116885
Email:	david@lefftrade.org
Website address:	www.lefftrade.org
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.30
Rated water content (Litres)	0.30	**External dimensions height (mm)**	30.00
External dimensions length (mm)	163.00	**External dimensions width (mm)**	90.00
Weight empty (g)	60.0000	**Weight filled (g)**	360.00
Comments	0.3L Ice Pack Shipping volume: 0.16 CBM/CTN Shipping weight (kg): 19 KGS/CTN		

PRICE AND SHIPPING

Shipping weight (kg)	19.00	**Pieces per package**	300 units
Minimum order (unit)	300.00	**Incoterms**	EXW
Price 1	USD 0.38 - 100 units	**Price 2**	USD 0.44 - 10 units
Price 3	USD 0.50 - 1 unit	**Year of base price**	2018

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.2 Applicable PQS VP(s): E005/IP01-VP.2

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-18-385		

PRODUCT SITES

Organization name	Qingdao Leff International Trading Co Ltd
Address	10, Yan er'dao Road Qingdao 266000 P.R.China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**Feihong WP-0.3L**
IMD-PQS Code:	E005-021
Status:	Prequalified
Date of acceptance:	13 Nov 2018
Appliance type:	E005
Product description:	Water pack 0.6L
Manufacturer:	Qingdao Leff International Trading Co Ltd
Manufacturers Reference:	Feihong WP-0.3L
Country of Manufacture:	China
Address:	10, Yan er'dao Road Qingdao 266000 P.R.China China
Telephone:	+ 86 373 7116885
Email:	david@lefftrade.org
Website address:	www.lefftrade.org
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.60
Rated water content (Litres)	0.56	**External dimensions height (mm)**	34.00
External dimensions length (mm)	190.00	**External dimensions width (mm)**	120.00
Weight empty (g)	85.0000	**Weight filled (g)**	645.00

PRICE AND SHIPPING

Shipping volume (m3)	0.16	**Shipping weight (kg)**	14.00
Pieces per package	150 units	**Minimum order (unit)**	150.00
Incoterms	EXW	**Price 1**	USD 0.58 - 100 units
Price 2	USD 0.64 - 10 units	**Price 3**	USD 0.7 - 1 unit
Year of base price	2018		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.2 Applicable PQS VP(s): E005/IP01-VP.2

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-18-387		

PRODUCT SITES

Organization name	Qingdao Leff International Trading Co Ltd
Address	10, Yan er'dao Road Qingdao 266000 P.R.China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**Feihong WP-0.4L**
IMD-PQS Code:	E005-022
Status:	Prequalified
Date of acceptance:	13 Nov 2018
Appliance type:	E005
Product description:	Ice Pack 0.4L
Manufacturer:	Qingdao Leff International Trading Co Ltd
Manufacturers Reference:	Feihong WP-0.4L
Country of Manufacture:	China
Address:	10, Yan er'dao Road Qingdao 266000 P.R.China China
Telephone:	+ 86 373 7116885
Email:	david@lefftrade.org
Website address:	www.lefftrade.org
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.40
Rated water content (Litres)	0.37	**External dimensions height (mm)**	34.00
External dimensions length (mm)	163.00	**External dimensions width (mm)**	94.00
Weight empty (g)	60.0000	**Weight filled (g)**	420.00

PRICE AND SHIPPING

Shipping volume (m3)	0.17	**Shipping weight (kg)**	20.00
Pieces per package	300 units	**Minimum order (unit)**	300.00
Incoterms	EXW	**Price 1**	USD 0.42 - 100 units
Price 2	USD 0.48 - 10 units	**Price 3**	USD 0.54 - 1 unit
Year of base price	2018		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E005/IP01.2 Applicable PQS VP(s): E005/IP01-VP.2

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-18-386		

PRODUCT SITES

Organization name	Qingdao Leff International Trading Co Ltd
Address	10, Yan er'dao Road Qingdao 266000 P.R.China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**TIP-6**
IMD-PQS Code:	E005-025
Status:	Prequalified
Date of acceptance:	17 Jul 2022
Appliance type:	E005
Product description:	Water Pack 0.6 L
Manufacturer:	TRIMURTI PLAST CONTAINERS PRIVATE LIMITED
Manufacturers Reference:	TIP-6
Country of Manufacture:	India
Address:	31/833, GANESHNAGAR, DHANKAWADI PUNE India
Telephone:	+91 98220 22312
Email:	rajesh@tpcpl.net
Website address:	www.tpcpl.co.in
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.60
Rated water content (Litres)	0.56	**External dimensions height (mm)**	35.00
External dimensions length (mm)	190.00	**External dimensions width (mm)**	120.00
Weight empty (g)	110.0000	**Weight filled (g)**	680.00

PRICE AND SHIPPING

Shipping volume (m3)	0.13	**Shipping weight (kg)**	22.00
Pieces per package	144	**Minimum order (unit)**	144.00
Incoterms	EXW	**Price 1**	0.60 USD
Year of base price	2022		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: Applicable PQS VP(s):

VERIFICATION

Verification Laboratory	0013X00004MI8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-22-000691-003

PRODUCT SITES

Organization name	TRIMURTI PLAST CONTAINERS PRIVATE LIMITED
Address	31/833, GANESHNAGAR, DHANKAWADI PUNE India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**TIP-4**
IMD-PQS Code:	E005-026
Status:	Prequalified
Date of acceptance:	17 Jul 2022
Appliance type:	E005
Product description:	Water Pack 0.4 L
Manufacturer:	TRIMURTI PLAST CONTAINERS PRIVATE LIMITED
Manufacturers Reference:	TIP-4
Country of Manufacture:	India
Address:	31/833, GANESHNAGAR, DHANKAWADI PUNE India
Telephone:	+91 98220 22312
Email:	rajesh@tpcpl.net
Website address:	www.tpcpl.co.in
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.40
Rated water content (Litres)	0.35	**External dimensions height (mm)**	33.00
External dimensions length (mm)	164.00	**External dimensions width (mm)**	94.00
Weight empty (g)	77.0000	**Weight filled (g)**	427.00

PRICE AND SHIPPING

Shipping volume (m3)	0.13	**Shipping weight (kg)**	22.00
Pieces per package	225	**Minimum order (unit)**	225.00
Incoterms	EXW	**Price 1**	0.55 USD
Year of base price	2022		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: Applicable PQS VP(s):

VERIFICATION

Verification Laboratory	0013X00004MI8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-22-000691-002

PRODUCT SITES

Organization name	TRIMURTI PLAST CONTAINERS PRIVATE LIMITED
Address	31/833, GANESHNAGAR, DHANKAWADI PUNE India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**TIP-3**
IMD-PQS Code:	E005-027
Status:	Prequalified
Date of acceptance:	17 Jul 2022
Appliance type:	E005
Product description:	Water-pack 0.3L
Manufacturer:	TRIMURTI PLAST CONTAINERS PRIVATE LIMITED
Manufacturers Reference:	TIP-3
Country of Manufacture:	India
Address:	31/833, GANESHNAGAR, DHANKAWADI PUNE India
Telephone:	+91 98220 22312
Email:	rajesh@tpcpl.net
Website address:	www.tpcpl.co.in
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.30
Rated water content (Litres)	0.29	**External dimensions height (mm)**	33.00
External dimensions length (mm)	162.00	**External dimensions width (mm)**	88.00
Weight empty (g)	77.0000	**Weight filled (g)**	377.00

PRICE AND SHIPPING

Shipping volume (m3)	0.13	**Shipping weight (kg)**	22.00
Pieces per package	225	**Minimum order (unit)**	225.00
Incoterms	EXW	**Price 1**	0.46 USD
Year of base price	2022		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: Applicable PQS VP(s):

VERIFICATION

Verification Laboratory	0013X00004MI8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-22-000691-001

PRODUCT SITES

Organization name	TRIMURTI PLAST CONTAINERS PRIVATE LIMITED
Address	31/833, GANESHNAGAR, DHANKAWADI PUNE India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**FF007A Eclipse 0.6L**
IMD-PQS Code:	E005-028
Status:	Prequalified
Date of acceptance:	05 May 2023
Appliance type:	E005
Product description:	Icepack 0.6L
Manufacturer:	Gobi Technologies
Manufacturers Reference:	FF007A Eclipse 0.6L
Country of Manufacture:	China
Address:	Mutoutan, Group No.2, Lizhidun Village, Futian Town, Boluo County Huizhou, Guangdong Province, China China
Telephone:	+86 139 2834-6311
Email:	morgan@gobi.world
Website address:	https://www.gobi.world/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Pack Type	Water-pack	**Nominal capacity (Litre)**	0.60
Rated water content (Litres)	0.59	**External dimensions height (mm)**	34.00
External dimensions length (mm)	190.00	**External dimensions width (mm)**	120.00
Weight empty (g)	100.0000	**Weight filled (g)**	683.00

Comments	Icepack 0.6L Shipping weight (kg): 12 KG

PRICE AND SHIPPING

Shipping volume (m3)	0.078	**Shipping weight (kg)**	12.00
Minimum order (unit)	100.00	**Incoterms**	EXW
Price 1	1.5 USD	**Year of base price**	2023

VERIFICATION

Verification Laboratory	Micom Laboratories INC.	**Address**	556 Avenue lepine Dorval, Quebec H9P 2V6 CanadaCanada
Telephone	+1 514 633 0078	**Email**	mcomtois@micomlab.com
Verification Report Reference	MI-22-14458-M		

PRODUCT SITES

Organization name	Gobi Technologies
Address	Mutoutan, Group No.2, Lizhidun Village, Futian Town, Boluo County Huizhou, Guangdong Province, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**GKS IP - 04**
IMD-PQS Code:	E005-029
Status:	Prequalified
Date of acceptance:	11 Feb 2025
Product description:	Ice pack 0.4 Ltrs
Manufacturer:	GKS Healthsol LLP
Manufacturers Reference:	GKS IP - 04
Country of Manufacture:	India
Address:	Plot No 301 Sector 53 Phase V HSIIDC Kundli 131028 Sonipat India
Telephone:	+919820895063
Email:	dinesh@gkshealth.com
Website address:	www.gkshealth.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Nominal capacity (Litre)	0.40	**Rated water content (Litres)**	0.37
External dimensions height (mm)	164.00	**External dimensions length (mm)**	95.00
External dimensions width (mm)	35.00	**Weight empty (g)**	92.0000
Weight filled (g)	463.00		

PRICE AND SHIPPING

Shipping volume (m3)	0.07	**Shipping weight (kg)**	11.50
Pieces per package	102	**Minimum order (unit)**	102.00
Incoterms	EXW	**Price 1**	USD 0.39
Year of base price	2025		

VERIFICATION

Verification Laboratory	UL India Private Limited	**Address**	A-12, Infocity-1, Sector-34, Gurgaon (Haryana)-122001India
Telephone	+91-8130427334	**Email**	satish.kumar@ul.com
Verification Report Reference	4790381969-01-others-S1-R1		

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**GKS-IP 6**
IMD-PQS Code:	E005-030
Status:	Prequalified
Date of acceptance:	18 Oct 2024
Product description:	Freeze Preventive Vaccine Carrier
Manufacturer:	GKS Healthsol LLP
Manufacturers Reference:	GKS-IP 6
Country of Manufacture:	India
Address:	Plot No 301 Sector 53 Phase V HSIIDC Kundli 131028 Sonipat India
Telephone:	+919820895063
Email:	dinesh@gkshealth.com
Website address:	www.gkshealth.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Nominal capacity (Litre)	0.60	**Rated water content (Litres)**	0.56
External dimensions height (mm)	189.00	**External dimensions length (mm)**	120.00
External dimensions width (mm)	35.00	**Weight empty (g)**	114.0000
Weight filled (g)	673.00		

PRICE AND SHIPPING

Shipping volume (m3)	0.16	**Shipping weight (kg)**	23.00
Minimum order (unit)	175.00	**Price 1**	USD 0.65
Year of base price	2025		

VERIFICATION

Verification Laboratory	UL India Private Limited	**Address**	A-12, Infocity-1, Sector-34, Gurgaon (Haryana)-122001India
Telephone	+91-8130427334	**Email**	satish.kumar@ul.com
Verification Report Reference	4790932529-01-OTHER-S1		

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E005: Coolant-packs



Product name:	**IP03**
IMD-PQS Code:	E005-031
Status:	Prequalified
Date of acceptance:	07 Oct 2024
Product description:	Ice Pack
Manufacturer:	Thermos International Trading Limited
Manufacturers Reference:	IP03
Country of Manufacture:	China
Address:	Room E, 31F, Noble center, No. 1006, Fuzhong 3rd Road, Futian District, Shenzhen, China
Telephone:	+86 755 25945218
Email:	international@thermos.com
Website address:	www.thermos.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Nominal capacity (Litre)	0.30	**Rated water content (Litres)**	0.30
External dimensions height (mm)	173.00	**External dimensions length (mm)**	120.00
External dimensions width (mm)	26.00	**Weight empty (g)**	67.0000
Weight filled (g)	367.00		

PRICE AND SHIPPING

Shipping volume (m3)	0.015	**Shipping weight (kg)**	1.65
Minimum order (unit)	100.00	**Incoterms**	FOB
Price 1	USD 6.99 /PC	**Year of base price**	2023

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-22-0175		

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

E006
Temperature Monitoring Devices

The products in this category include thermometers, freeze indicators, temperature recorders, data loggers, Equipment Monitoring Devices (EMDs) and event loggers for monitoring temperatures and other variables at all levels in the cold chain, including alarm systems.

Details regarding the products included in each sub-category of E006, as well as guidelines, performance specifications and verification protocols for this category, can be accessed through the drop-down sections below.

E006.1: E006 device types

A number of different temperature monitoring device types are specified by PQS based on their particular applications in the cold chain. These range from more basic indicator and thermometers to advanced monitoring and communication systems. Employers of temperature monitoring should be familiar with the use-cases for the different types of devices and when best to deploy each type based on their specific programme needs and strategies.

E006.1.1: Alarms

Acoustic and visual alarms: These can be used in conjunction with fixed dial thermometers and pen recorders.

E006.1.2: Indicators

Cold Chain Monitor cards (CCM): WHO no longer recommends the use of these cards for in-country use. Their use should now be confined to international shipments only where dry ice is used. For more information and guidance on the use of CCMs, consult the WHO How to monitor temperature in the vaccine supply chain.

Freeze indicators: Freeze indicators should be used routinely for internal distribution of freeze-sensitive vaccines and for monitoring freezing events in cold rooms and vaccine refrigerators where alternative devices are not fitted, or are not thought to be reliable.

Vaccine vial monitors (VVM): VVMs or combined VVM/Threshold indicators are now routinely fixed to all vaccines supplied by UNICEF.

E006.1.3: Thermometers (no recording)

Electronic thermometers: Hand-held electronic thermometers are used by cold chain technicians during repair work, for routine monitoring, for cold chain studies and during the commissioning of cold rooms and freezer rooms.

Fixed dial thermometers: Fixed gas or vapor pressure dial thermometers require no power supply and they can be used to trigger an alarm system. Their primary use is as a back-up device for cold rooms and freezer rooms. Bi-metallic dial thermometers are no longer recommended because they easily lose their calibration.

Stem thermometers: A stem thermometer can be fitted in refrigerators, freezers, cold rooms and freezer rooms as an inexpensive back-up device for required 30-day temperature loggers. Stem thermometers should never be used as the primary temperature monitoring device because they do not provide a continuous record of vaccine temperature exposure. Bi-metallic dial thermometers are no longer recommended by WHO because they do not maintain their calibration.

Integrated electronic thermometer with alarm: This device type may be built-in to a vaccine refrigerator or freezer at the manufacturer's discretion. Its purpose is to provide some of the capabilities of the monitoring equipment used on cold rooms and freezer rooms.

E006.1.4: Temperature recorders

Programmable remote temperature and event monitoring systems: Event monitoring systems consist of a network of sensors linked to a central temperature recording unit, which may connect and communicate with local and remote servers and services. Both hard-wired and wireless devices are available and devices of both types have integrated alarm systems. Detailed temperature records can be produced and the most sophisticated systems can be internet-enabled which allows for remote monitoring.

Pen recorders: Pen recorders have been standard equipment for cold rooms and freezer rooms for many years. They continue to have a use for smaller cold rooms and for programmes which are unable to provide the technical support needed to operate and maintain an event monitoring system.

Temperature data loggers: Data loggers are used principally during cold chain studies and for verifying performance during the initial commissioning of cold rooms and freezer rooms. Temperature data loggers have limited functionality. More advanced features can be found in 30-day electronic refrigerator temperature loggers.

30-day electronic refrigerator temperature loggers: All refrigerators must come equipped with an integrated Level 2 EMD, integrated Level 3 EMD or 30-day temperature logger device in compliance with WHO IMD-PQS standards. Refer to Table 2. This device type can be used to review vaccine refrigerator temperatures over 30 days. The earliest data points are continuously overwritten so that the user always has access to the most recent 30-day period. The devices include a visual temperature alarm and some models allow data to be downloaded to a computer. Their use offers the possibility of much improved temperature

monitoring at the health facility and lower sub-national levels where routine manual recording is known to be unreliable.

30-day temperature loggers are NOT suitable for use in vaccine freezers; see the WHO Vaccine Management Handbook for appropriate temperature logger devices for freezers.

Current models operate for two years after activation. The whole unit has to be replaced when the battery runs out because the product is supplied with sealed in batteries. This design approach avoids the need to recalibrate the device, which is expensive and logistically complex.

Electronic shipping indicators: Electronic shipping indicators are single-use devices designed to monitor vaccine temperature during international shipment from the manufacturer to the primary store. The data they provide is recorded on the Vaccine Arrival Report (VAR).

E006.1.5: Equipment Monitoring Systems (EMS)

The Equipment Monitoring System (EMS) enables the monitoring of cold chain equipment. The EMS consists of three levels of functionality, performed by Equipment Monitoring Devices (EMDs). EMDs are the primary means of communicating monitored cold chain data locally and/remotely via the Internet. EMDs source raw data directly from the appliance's integrated logger. Vaccine refrigeration appliances are required to achieve Level 1 as minimum. Levels 2 and 3 can be integrated into the appliance or can be external to it. Refer to Table 2.

Level 1 is the datalogger with power and data connections for the Machine-to-machine interface (M2M). Note: more advanced local or remote means of communicating data re not required. The complete requirements of Level 1 are specified in IMD-PQS performance specification WHO/PQS/E006/DL01. The datalogger is primarily tasked with maintaining relative time, recording appliance data objects, generating and recording logger data objects and making that data available in a standardized way to other equipment monitoring devices and systems.

Level 2 is the Equipment Monitoring Device (EMD) and shares the same requirements as Level 1. The EMD is the primary means of communicating monitored cold chain data locally. The EMD draws raw data directly from the appliance's integrated logger. The EMD may be integrated into the appliance or may be external. The requirements of Level 2 are specified in IMD-PQS performance specification WHO/PQS/E006/EM01.

Level 3 shares the same requirements as Level 2, with the additional feature of remote communications (e.g. GSM / SIM-based, Wi-Fi® etc.). As Level 2, the EMD may be integrated into the appliance or may be external.The requirements of Level 3 are specified in IMD-PQS performance specification WHO/PQS/E006/EM01, with special attention to remote communication modalities.

E006.2: Use of E006 devices

The following table summarizes the use of each of the non-EMS E006 device types:

Table 1: Use of temperature monitoring devices

Note: *The table shows the appropriate locations for each type of device. It does not imply that ALL the devices listed for a particular location should be used at the same time.*

Device category	Principle use location							*Application notes*
	International shipping	Primary store	Intermediate store	Health facility	Internal distribution	Equipment commissioning	Cold chain studies	
Acoustic and visual alarms		X	X					Used with E006/TH02 & E006/TR04
Cold chain monitor cards	X							
Freeze indicator		X	X	X	X		X	
Vaccine vile monitor (VVM)	X	X	X	X	X		X	
Electronic thermometer						X	X	
Fixed-dial thermometer		X	X					Typically used as a back-up device
Stem thermometer		X	X	X				
Integrated electronic thermometer with alarm		X	X	X				May be supplied with refrigerator or freezer
Programmable remote temperature and event monitoring system		X	X	X		X	X	Applications throughout the cold chain, but should be deployed based on strategic plans
Pen recorder		X	X					For smaller cold or freezer rooms where E006/TR03 is inappropriate
Temperature data logger						X	X	
30-day electronic refrigerator temperature logger			X	X				
Shipping indicator	X							

Table 2: Required temperature monitoring devices for vaccine refrigerators

Configuration	I	II	III	IV	V
Data logger plus M2M port (E006/DL01)	✓	✓	✓	✓	✓
Thermometer (E006/TH06) with display		✓		✓	✓
Integrated EMD (E006/EM01)	✓				
External EMD (E006/EM01)		✓			
Integrated EMD with remote data transmission (E006/EM01)			✓		
External EMD with remote data transmission (E006/EM01)				✓	
30 DTR (E006/TR06.3)					✓

E006.3: Future developments

As of 2024, all NEW vaccine refrigerators are required to have an EMS. Starting in 2026, ALL vaccine refrigerators will be required to have an EMS. This new sub-category of temperature and equipment monitoring offers greater design flexibility and advanced functionality of cold chain monitoring. While temperature will still be the most essential CCE vaccine safety indicator for immunization programmes, there is increasing potential - and interest - in monitoring additional performance parameters of CCE, including voltage input, humidity, compressor function, etc. By monitoring and communicating additional parameters, EPI programmes, suppliers, service providers and global partners may gain deeper insights into the performance of CCE over time, enabling remote failure analysis and ideally predictive failure responses. This could ultimately lead to monitoring technology that helps programmes reduce CCE downtime and risk to vaccines.

E006.3.1: Solar power systems for low-energy requirements

Performance specifications for small, battery-based solar power systems intended for E006 devices such as RTMDs and other electronic monitpring systems (EMS) may also apply for low power requirements where only direct current electricity is required (e.g. 12 Vdc). See IMD-PQS performance specification WHO/PQS/E006/PVDC01: Solar power systems for low electrical requirements.

E006.3.2: Basic USB Energy Harvesting Controller (EHC)

Many solar appliances now have a Basic USB Energy Harvesting Controller (EHC). The Basic USB EHC provides up to 1A @ 5VDC (5W) on a USB-A port that may be used to recharge RTMDs and other monitoring devices. See IMD-PQS performance specification WHO/PQS/E007/EHC02.

CATEGORY DOCUMENTATION, GUIDANCE FOR MANUFACTURERS/SUPPLIERS & SUPPORTING INFORMATION FOR USERS

Category-specific guidance

PQS Equipment Monitoring Systems (EMS) Introduction

PQS Equipment Monitoring Systems (EMS) Frequently Asked Questions

Performance specifications

PQS performance specification E006/TR07.4: Electronic shipping indicators

PQS performance specification E006/DS01.2: Annex 1 Cold Chain Data Objects

PQS performance specification E006/DS01.2 Annex 1 JSON Schema

PQS performance specification E006/IN06.1: Combined vaccine vial monitor and threshold indicator

PQS performance specification E006/TR06.4: 30-day electronic refrigerator temperature logger

PQS performance specification E006/IN05.4: Vaccine vial monitor

PQS performance specification E006/EM01.2: Equipment Monitoring Devices for Equipment Monitoring Systems

PQS performance specification E006/DL01.2: Data logger and machine-to-machine interface for Equipment Monitoring Systems

PQS performance specification E006/DS01.2: Data standards for Equipment Monitoring Systems

PQS performance specification E006/AL01.1: Acoustic and/or visual alarm units

PQS performance specification E006/IN07.1: Chemical freeze indicator

PQS performance specification E006/IN02.1: Cold chain monitor

PQS performance specification E006/TH02.2: Fixed gas or vapour pressure dial thermometer

PQS performance specification E006/TH06.2: Integrated electronic thermometer, with or without alarm function, for vaccine refrigerators and freezers

PQS performance specification E006/IN03.1: Irreversible freeze indicator

PQS performance specification E006/TH03.1: Portable alcohol stem thermometer

PQS performance specification E006/TH01.1: Portable electronic thermometer

PQS performance specification E006/TR03.2: Programmable remote temperature and event monitoring systems

PQS performance specification E006/PVDC01: Solar power system for low electrical requirements

PQS performance specification E006/IN04.1: Threshold indicators

PQS performance specification E006/TR05.1: User-programmable temperature data loggers

PQS performance specification E006/TR04.1: Wall-mounted pen recording thermometer

Verification protocols

PQS independent type-testing protocol E006/EM01-VP.2 Equipment Monitoring Devices for Equipment Monitoring Systems

PQS independent type-testing protocol E006/TR07-VP.4: Electronic shipping indicators

PQS independent type-testing protocol E006/IN06.VP.1: Combined vaccine vial monitor and threshold indicator

PQS independent type-testing protocol E006/IN07-VP.1: Chemical freeze indicator

PQS independent type-testing protocol E006/DL01-VP.2: Data logger and machine-to-machine interface for Equipment Monitoring Systems

PQS independent type-testing protocol E006/EM01-VP.2: Equipment Monitoring Devices for Equipment Monitoring Systems

PQS type-examination protocol E006/AL01.VP.1: Acoustic and/or visual alarm units

PQS type-examination protocol E006/IN02.VP.1: Cold chain monitor

PQS independent type-testing protocol E006/IN03-VP.1: Irreversible freeze indicator

PQS independent type-testing protocol E006/TH02-VP.2: Fixed gas or vapour pressure dial thermometer

PQS independent type-testing protocol E006/TH03-VP.1: Portable alcohol stem thermometer

PQS independent type-testing protocol E006/TH06-VP.2: Integrated electronic thermometer, with or without alarm function, for vaccine refrigerators and freezers

PQS independent type-testing protocol E006/TR04-VP.1: Wall-mounted pen recording thermometer

PQS type-examination protocol E006/TR05-VP.1: User-programmable temperature data loggers

PQS independent type-testing protocol E006/TR06-VP.4: 30-day electronic refrigerator temperature logger

PQS independent type-testing protocol E006/IN04.VP.1: Threshold indicator

PQS performance verification protocol E006/TR03-VP.2: Programmable remote temperature and event monitoring systems

PQS type-examination protocol PVDC-VP1.0: Solar power system for low electrical requirements

PQS quality assurance protocol PVDC-VP2.0: Solar power system for low electrical requirements – on-site checklists for completed installations

PQS independent type-testing protocol E006/IN05.VP.4: Vaccine vial monitor

PQS performance verification protocol tool E006/TR03-VPT.2: Programmable remote temperature and event monitoring systems

Guidance for manufacturers or suppliers

Generic guide for the field evaluation of new technologies for WHO PQS prequalification GENERIC/GUIDE 1.1

IMD-PQS Guidelines for Prequalification Holders

Supporting information for users

Evidence brief: Perception of health workers on the use of remote temperature monitoring systems

Evidence brief: Perception of health workers on the use of 30-day temperature recorders

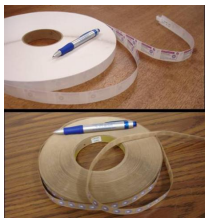
Evidence brief: Temperature monitoring study: a fully documented process to detect weaknesses in the supply chain

How to develop and repair a maintenance system for cold chain equipment

How to monitor temperatures in the vaccine supply chain

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**HEATmarker® VVM 2**
IMD-PQS Code:	E006-001
Status:	Prequalified
Date of acceptance:	30 Sep 2007
Appliance type:	E006
Product description:	Vaccine Vial Monitor Type 2
Manufacturer:	Temptime Corporation, A Zebra Technologies Company
Manufacturers Reference:	HEATmarker® VVM 2
Country of Manufacture:	United States of America
Address:	116 American Road, Morris Plains, NJ, 07950, United States United States of America
Telephone:	+1 973 630 6000
Email:	rorie.doty@zebra.com
Website address:	www.zebra.com/tempmonitoring
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Chemical	**Sensor type(s)**	--
Maximum sensor lead length (metres)	0.00	**Maximum number of sensor channels**	0.00
Activation mechanism	Temperature >-12°C	**Fixing mechanism**	Adhesive
CE marking	No	**Time to endpoint at 37°C (days)**	2.00
Time to endpoint at 5°C (days)	225.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Passive device	**Battery type**	--
Battery shelf life (year)	--	**Activated battery life**	--
Alarm type	NA	**User interface**	--
Display medium	Color change	**Recording medium**	Not applicable
Ingress protection rating IP	--		

Comments	Full labels (typically white of clear liner) and dots (typically brown or clear liner) are made on lightweight litho/paper/film facestock offering exceptional printability and flexibility. The service temperature range for the adhesive is typically -40°F to 160°F, or wider. Liner (can either be PET or coated paper) is designed for high-speed roll-to-roll and label dispensing applications. A clear film-based over-laminate is used for dots (brown liner) for added stability and protection. This laminate is not intended to print on. Custom solutions, including a combination of approved litho/paper/film substrate and overlaminate (if applicable) are available upon request. Verification laboratory: Intertek UK (formerly WHO-accredited) Accuracy: -- External dimensions (cm): 1 cm dot or 1.6 x 1.0 cm rectangle Memory size: -- External dimensions (cm): 1 cm dot or 1.6 x 1.0 cm rectangle

PRICE AND SHIPPING

Minimum order	500000.00	**Incoterms**	EXW
Price 1	On request to manufacturer	**Year of base price**	2017

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015;
Specification Reference	Applicable PQS specification: E006/IN.05.1 Applicable PQS VP(s): E006/IN.05 VP.1		

VERIFICATION

Verification Report Reference	A65155

PRODUCT SITES

Organization name	Temptime Corporation, A Zebra Technologies Company
Address	116 American Road, Morris Plains, NJ, 07950, United States United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Vaccine cold chain monitor shipment record**
IMD-PQS Code:	E006-004
Status:	Prequalified
Date of acceptance:	30 Sep 2007
Appliance type:	E006
Product description:	Cold chain monitor
Manufacturer:	Berlinger & Co. AG
Manufacturers Reference:	Vaccine cold chain monitor shipment record
Country of Manufacture:	Switzerland
Address:	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland
Telephone:	+41 (71) 982 88 11
Email:	info@berlinger.com
Website address:	http://www.berlinger.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Chemical	**Sensor type(s)**	N/A
Maximum sensor lead length (metres)	0.00	**Maximum number of sensor channels**	0.00
External dimensions height (mm)	120.00	**External dimensions width (mm)**	150.00
Activation mechanism	Activation strip	**Material**	Card
Fixing mechanism	None	**CE marking**	Yes

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Passive device	**Battery type**	N/A
Battery shelf life (year)	N/A	**Activated battery life**	N/A
Alarm type	Visual	**User interface**	N/A
Display medium	---	**Recording medium**	Not applicable
Ingress protection rating IP	N/A		

Comments	The economical chemical indicators can be started individually by pulling out the start strip. They measure one or max. 2 temperature limits per indicator and are available for the following temperatures: -15 °C / -4 °C / 0 °C/ +5 °C / +10 °C / +10°C and +34 °C / +26 °C/ +31°C. The well-known VCCM card is equipped with the only indicator that can measure two temperatures (10 °C and +34 °C). Discounts apply for large orders. Testing laboratory: Wolff Laboratory (1988)

PRICE AND SHIPPING

Shipping volume (m3)	0.01	**Weight per Package (Kg)**	0.0060
Units per package	250.00	**Weight per Unit (Kg)**	1.8400
Minimum order	500.00	**Incoterms**	EXW
Price 1	Price at 500 units: 7.10 USD per unit	**Year of base price**	2022

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/IN02.1 Applicable PQS VP(s): E006/IN02-VP.1		

PRODUCT SITES

Organization name	Berlinger & Co. AG

Address	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Logtag TRIX-8**
IMD-PQS Code:	E006-006
Status:	Prequalified
Date of acceptance:	22 Jan 2008
Appliance type:	E006
Product description:	User prg temperature data logger
Manufacturer:	LogTag North America Inc.
Manufacturers Reference:	Logtag TRIX-8
Country of Manufacture:	Vietnam
Address:	TongFuYu Industrial Zone, Block NO.8, Jinghong Road, Shajing Town, Baoan 518117 ShenZhen, GuangDong China
Telephone:	+64 9 448 2311
Email:	sales@logtagrecorders.com
Website address:	www.logtagrecorders.com
Valid until:	31 May 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	0.00
Sensor type(s)	Integrated in the case of the device	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	1.00	**External dimensions height (mm)**	85.00
External dimensions length (mm)	54.00	**External dimensions width (mm)**	8.50
Activation mechanism	On the device	**Material**	Polycarbonate
Fixing mechanism	None	**CE marking**	Yes
Minimum working temperature (°C)	-40.00	**Maximum working temperature (°C)**	85.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Other
Power Source (Other)	Battery 3V	**Battery type**	Lithium 3V
Battery shelf life (year)	up to 10 years	**Activated battery life**	36 months
Alarm type	Visual	**Memory size (Mb)**	0.0160000000
Memory capacity (readings)	8000.00	**Programmability**	User Programed
User interface	Logtag interface + software	**Display medium**	LED
Recording medium	Electronic	**Ingress protection rating IP**	IP65

Comments

The LogTag TRIXI8 Temperature Logger is a battery powered stand-alone measurement system for digital time-temperature monitoring. It incorporates a temperature sensor arranged in a recess in the case. This design protects the sensor from damage but still provides a fast reaction time . Using the LogTag interface and LogTag ‘s free available companion software LogTag Analyser, it is easily set up for recording conditions including delayed start, sampling interval, continuous or fixed number of readings and configuration of conditions to activate the ALERT indicator. Readings are downloaded using LogTag Analyser which provides facilities for chart, zoom, and listing data statistics and allows exporting the data to other applications such as Excel. The data downloading requires an external USB based docking station (Logtag interface) not included in the price. Maximum Logging Intervals: several hours

PRICE AND SHIPPING

Shipping volume (m3)	0.0051	**Weight per Package (Kg)**	0.0350
Units per package	50.00	**Weight per Unit (Kg)**	1.9000

Minimum order	20.00	**Incoterms**	EXW
Price 1	20-99 units: 27.40 €	**Price 2**	100+ units: on request to manufacturer
Year of base price	2013		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E006/TR05.1 Applicable PQS VP(s): E006/TR05-VP.1		

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	TUV 21123235_001		

PRODUCT SITES

Organization name	LogTag North America Inc.
Address	TongFuYu Industrial Zone, Block NO.8, Jinghong Road, Shajing Town, Baoan 518117 ShenZhen, GuangDong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Freeze-tag**
IMD-PQS Code:	E006-007
Status:	Prequalified
Date of acceptance:	27 May 2008
Appliance type:	E006
Product description:	Electronic freeze indicator
Manufacturer:	Berlinger & Co. AG
Manufacturers Reference:	Freeze-tag
Country of Manufacture:	Malaysia
Address:	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland
Telephone:	+41 (71) 982 88 11
Email:	info@berlinger.com
Website address:	http://www.berlinger.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Sensor type(s)**	Electronic
Maximum sensor lead length (metres)	0.00	**Maximum number of sensor channels**	0.00
External dimensions height (mm)	1.50	**External dimensions length (mm)**	50.00
External dimensions width (mm)	31.00	**Activation mechanism**	Always active
Material	ABS	**Fixing mechanism**	None
CE marking	Yes	**Minimum working temperature (°C)**	-20.00
Maximum working temperature (°C)	50.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Lithium coin cell	**Battery shelf life (year)**	60 months from manufacture date
Activated battery life	Device always active	**Alarm type**	Visual
Programmability	Factory Programmed	**User interface**	LCD screen
Display medium	LCD	**Recording medium**	Electronic
Ingress protection rating IP	67		

Comments	Freeze-Tag is an irreversible temperature indicator that shows if a product, such as vaccine has been exposed to freezing temperatures. It consists of an electronic temperature measuring circuit with associated LCD-display. If the indicator is exposed to a temperature below -0.5°C ±0.5°C for more then 60min ± 3min the display will change from the ? "OK" status symbol (?) into the "ALARM" status symbol (x). . A small blinking dot in the right hand corner of the LCD display indicates that the device is functioning. Discounts apply for large orders

PRICE AND SHIPPING

Shipping volume (m3)	0.031	**Weight per Package (Kg)**	0.0140
Units per package	500.00	**Weight per Unit (Kg)**	7.5000
Minimum order	500.00	**Incoterms**	EXW
Price 1	8.90 USD per unit	**Year of base price**	2022

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/IN03.1 Applicable PQS VP(s): E006/IN03-VP.1		

VERIFICATION

Verification Laboratory	METAS	**Address**	Lindenweg 50 CH-3003 Bern-WabernSwitzerland
Email	anton.steiner@metas.ch	**Verification Report Reference**	151-04141

PRODUCT SITES

Organization name	Berlinger & Co. AG
Address	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**FreezeAlert TM**
IMD-PQS Code:	E006-009
Status:	Prequalified
Date of acceptance:	03 Mar 2009
Appliance type:	E006
Product description:	Electronic freeze indicator
Manufacturer:	Sensitech Inc.
Manufacturers Reference:	FreezeAlert TM
Country of Manufacture:	China
Address:	A Business Unit of Carrier Corporation, Suite 258X, 800 Cummings Center. Beverly, MA 01915 United States United States of America
Telephone:	+1 978 - 927- 7033
Email:	mmarks@carrier.com
Website address:	http://www.sensitech.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Sensor type(s)**	--
Maximum sensor lead length (metres)	0.00	**Maximum number of sensor channels**	0.00
External dimensions height (mm)	10.00	**External dimensions length (mm)**	51.50
External dimensions width (mm)	35.00	**Activation mechanism**	Push button for activation
Material	ABS	**Fixing mechanism**	None
CE marking	No	**Maximum working temperature (°C)**	55.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Lithium coin-cell	**Battery shelf life (year)**	can be stored inactivated for 12 months
Activated battery life	36 months (if stored for maximum 12 months)	**Alarm type**	Visual
Programmability	Factory Programmed	**User interface**	Start button switch
Display medium	LCD	**Recording medium**	Electronic
Ingress protection rating IP	IP64		

Comments	The FreezeAlert™ is a single alarm electronic temperature indicator providing an irreversible display of temperature exposure relative to the alarm setting of -0.5 °C for a continuous period of 60 minutes. If the indicator is exposed to conditions exceeding the alarm setting, the display changes from a “?” to an “X”, informing the user of the triggered alarm state. The device contains an integrated push-button switch for field activation and a dynamic “dot” icon which affirms active monitoring. Carton of 1000 units

PRICE AND SHIPPING

Shipping volume (m3)	0.066	**Weight per Package (Kg)**	0.0140
Units per package	1000.00	**Weight per Unit (Kg)**	15.3000
Minimum order	500.00	**Incoterms**	EXW
Price 1	500 units: 4.50 US$	**Year of base price**	2009

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015

Specification Reference	Applicable PQS specification: E006/IN03.1 Applicable PQS VP(s): E006/IN03-VP.1

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	S09EEC00004/C/BL/CEG Feb 2009		

PRODUCT SITES

Organization name	Sensitech Inc.
Address	A Business Unit of Carrier Corporation, Suite 258X, 800 Cummings Center. Beverly, MA 01915 United States United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**VaxAlert TM**
IMD-PQS Code:	E006-010
Status:	Prequalified
Date of acceptance:	05 Aug 2009
Appliance type:	E006
Product description:	40 day Electronic shipping indicator
Manufacturer:	Sensitech Inc.
Manufacturers Reference:	VaxAlert TM
Country of Manufacture:	China
Address:	A Business Unit of Carrier Corporation, Suite 258X, 800 Cummings Center. Beverly, MA 01915 United States United States of America
Telephone:	+1 978 - 927- 7033
Email:	mmarks@carrier.com
Website address:	http://www.sensitech.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum recording time (days)	20.00	**Sensor type(s)**	Electronic thermistor
Maximum sensor lead length (metres)	0.00	**Maximum number of sensor channels**	0.00
External dimensions height (mm)	17.50	**External dimensions length (mm)**	98.90
External dimensions width (mm)	58.00	**Activation mechanism**	push button
Material	ABS	**Fixing mechanism**	None
CE marking	Yes	**Minimum working temperature (°C)**	-30.00
Maximum working temperature (°C)	55.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Not replaceable single use	**Battery shelf life (year)**	18 mths
Activated battery life	Minimum 20 days	**Alarm type**	Visual
Programmability	Factory Programmed	**User interface**	Device itself
Display medium	LCD	**Recording medium**	Electronic
Ingress protection rating IP	65		

Comments	VaxalertTM is an electronic temperature indicator. It provides alarm status and alarm history. There are three types of Vaxalert (Type 1, Type 2, Type Prevnar and Type Rotateq). Each type has different alarm settings. The history gives up to 9 events with event number, alarm excursion, time of the alarm and max min temperature during the alarm time period. Consult the catalogue for more information on this device

PRICE AND SHIPPING

Shipping volume (m3)	0.0044	**Weight per Package (Kg)**	0.0150
Units per package	20.00	**Weight per Unit (Kg)**	6.8000
Minimum order	20.00	**Incoterms**	EXW
Price 1	20-100 units: 18.38 US$	**Year of base price**	2025

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/IN03.1 Applicable PQS VP(s): E006/IN03-VP.1		

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	S09EEC00004/A/BL/CEG		

PRODUCT SITES

Organization name	Sensitech Inc.
Address	A Business Unit of Carrier Corporation, Suite 258X, 800 Cummings Center. Beverly, MA 01915 United States United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**VaxTag 30-day electronic temperature logger**
IMD-PQS Code:	E006-013
Status:	Prequalified
Date of acceptance:	19 May 2011
Appliance type:	E006
Product description:	30-day electronic temperature logger
Manufacturer:	LogTag North America Inc.
Manufacturers Reference:	VaxTag 30-day electronic temperature logger
Country of Manufacture:	China
Address:	TongFuYu Industrial Zone, Block NO.8, Jinghong Road, Shajing Town, Baoan 518117 ShenZhen, GuangDong China
Telephone:	+64 9 448 2311
Email:	sales@logtagrecorders.com
Website address:	www.logtagrecorders.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Maximum logging intervals (mins)**	1.00
Maximum recording time (days)	80.00	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	0.00	**External dimensions height (mm)**	8.60
External dimensions length (mm)	93.00	**External dimensions width (mm)**	54.50
Activation mechanism	Start button	**Material**	Polycarbonate
Fixing mechanism	None	**CE marking**	Yes
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	60.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Lithium	**Activated battery life**	2-3 years
Alarm type	Visual	**Memory capacity (readings)**	7770.00
User interface	Standard Logtag interface cradle	**Display medium**	LCD
Recording medium	Electronic	**Ingress protection rating IP**	IP 65

Comments	Accessories: Standard Logtag Interface (docking station not included in the price) and the Logtag Analyser Software Details of any excursions can be checked directly by inspecting the statistics history on the recorder’s display or in more detail by downloading the logged data via a LogTag USB interface to a PC running LogTag Analyzer.

PRICE AND SHIPPING

Shipping volume (m3)	0.0051	**Weight per Package (Kg)**	0.0430
Units per package	50.00	**Weight per Unit (Kg)**	2.5000
Minimum order	20.00	**Incoterms**	EXW
Price 1	20 - 99 units: 40.80 USD	**Price 2**	100+ units: on request
Year of base price	2013		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E006/TR06.3 Applicable PQS VP(s): E006/TR06-VP.3

VERIFICATION

Verification Report Reference	A66604

PRODUCT SITES

Organization name	LogTag North America Inc.
Address	TongFuYu Industrial Zone, Block NO.8, Jinghong Road, Shajing Town, Baoan 518117 ShenZhen, GuangDong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Q-Tag CLm**
IMD-PQS Code:	E006-014
Status:	Prequalified
Date of acceptance:	29 Jun 2012
Appliance type:	E006
Product description:	Electronic shipping indicator Q-Tag CLm
Manufacturer:	Berlinger & Co. AG
Manufacturers Reference:	Q-Tag CLm
Country of Manufacture:	Switzerland
Address:	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland
Telephone:	+41 (71) 982 88 11
Email:	info@berlinger.com
Website address:	http://www.berlinger.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum sensor lead length (metres)	0.00	**Maximum number of sensor channels**	0.00
External dimensions height (mm)	11.50	**External dimensions length (mm)**	85.00
External dimensions width (mm)	55.00	**Activation mechanism**	Tag break
Material	Non-corrodible plastics (ABS)	**Fixing mechanism**	Adhesive
CE marking	Yes	**Minimum working temperature (°C)**	-30.00
Maximum working temperature (°C)	55.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Lithium coin cell	**Battery shelf life (year)**	60 months from manufacture date
Activated battery life	40 days	**Alarm type**	Visual
Programmability	Factory Programmed	**User interface**	LCD Stop / Info buttons
Display medium	LCD	**Recording medium**	Electronic
Ingress protection rating IP	64		

Comments	The reliable multi-alarm shipping and storage temperature indicator Q-tag CLm can be programmed with 5 individual alarm limits from –25°C to +50°C. Thanks to the break-off tab, it is clear whether the device has actually started. Immediate and easy decision-making is ensured thanks to precise date and time information on the device's display. With its long lifetime of up to 5 years, the Q-tag CLm is ideal for monitoring the entire cold chain. Discounts apply for large orders

PRICE AND SHIPPING

Shipping volume (m3)	0.004	**Weight per Package (Kg)**	0.0300
Units per package	42.00	**Weight per Unit (Kg)**	1.7800
Minimum order	100.00	**Incoterms**	EXW
Price 1	Price at 100 units: 23.35 USD per unit	**Year of base price**	2022

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/TR07.1 Applicable PQS VP(s): E006/TR07-VP.1		

VERIFICATION

Verification Laboratory	Roth & CO AG	**Address**	asasasSwitzerland
Verification Report Reference	VA11-02742B		

PRODUCT SITES

Organization name	Berlinger & Co. AG
Address	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Q-Tag Quad**
IMD-PQS Code:	E006-015
Status:	Prequalified
Date of acceptance:	29 Jun 2012
Appliance type:	E006
Product description:	Electronic freeze indicator Q-Tag Quad
Manufacturer:	Berlinger & Co. AG
Manufacturers Reference:	Q-Tag Quad
Country of Manufacture:	Switzerland
Address:	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland
Telephone:	+41 (71) 982 88 11
Email:	info@berlinger.com
Website address:	http://www.berlinger.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum sensor lead length (metres)	0.00	**Maximum number of sensor channels**	0.00
External dimensions height (mm)	11.00	**External dimensions length (mm)**	53.00
External dimensions width (mm)	39.00	**Activation mechanism**	Start button (one hour delay)
Material	ABS	**Fixing mechanism**	Adhesive
CE marking	Yes	**Minimum working temperature (°C)**	-30.00
Maximum working temperature (°C)	55.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Lithium coin cell	**Battery shelf life (year)**	60 mths from manufacture date
Activated battery life	60 mths from manufacture date	**Alarm type**	Visual
Programmability	Factory Programmed	**User interface**	LCD Start/Stop button
Display medium	LCD	**Recording medium**	Electronic
Ingress protection rating IP	67		

Comments	The small, handy multi-alarm shipping and storage temperature indicator Q-tag Quad can be programmed with 4 individual alarm limits from –25°C to +50°C. Its simple OK / ALARM display enables easy and immediate decision-making, while its long service life of up to 5 years is perfect for “last mile” use. Function: This irreversible temperature indicator consists of an electronic temperature measuring circuit with associated LCDdisplay. If the indicator is exposed to temperature below - 0.5°C for more than 60min the display will change from the "good" status symbol into the "alarm” status symbol. A small blinking dot in the right hand corner of the LCD display indicates that the device is functioning. Discounts apply for large orders

PRICE AND SHIPPING

Shipping volume (m3)	0.004	**Weight per Package (Kg)**	0.0160
Units per package	100.00	**Weight per Unit (Kg)**	1.7800
Minimum order	100.00	**Incoterms**	EXW
Price 1	Price at 100 units: 11.65 USD per unit	**Year of base price**	2022

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/IN03.1 Applicable PQS VP(s): E006/IN03-VP.1		

VERIFICATION

Verification Laboratory	Roth & CO AG	**Address**	asasasSwitzerland
Verification Report Reference	VA11-02742 A		

PRODUCT SITES

Organization name	Berlinger & Co. AG
Address	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Electronic shipping logger Q-tag CLm doc**
IMD-PQS Code:	E006-016
Status:	Prequalified
Date of acceptance:	07 Apr 2012
Appliance type:	E006
Product description:	Electronic shipping indicator Q-Tag CLm doc
Manufacturer:	Berlinger & Co. AG
Manufacturers Reference:	Electronic shipping logger Q-tag CLm doc
Country of Manufacture:	Switzerland
Address:	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland
Telephone:	+41 (71) 982 88 11
Email:	info@berlinger.com
Website address:	http://www.berlinger.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	1.00	**Maximum recording time (days)**	40.00
Maximum sensor lead length (metres)	0.00	**Maximum number of sensor channels**	0.00
External dimensions height (mm)	12.00	**External dimensions length (mm)**	94.00
External dimensions width (mm)	54.00	**Activation mechanism**	Tag breakage
Material	ABS	**Fixing mechanism**	Adhesive
CE marking	Yes	**Minimum working temperature (°C)**	-30.00
Maximum working temperature (°C)	60.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Lithium coin cell	**Battery shelf life (year)**	24 months from manufacture date
Activated battery life	40 days	**Alarm type**	Visual
Programmability	Factory Programmed	**User interface**	LCD
Display medium	LCD	**Recording medium**	Electronic
Ingress protection rating IP	65		

Comments	Multi-alarm shipping temperature USB monitor. The Q-tag CLm doc passively monitors just the relevant points during the transport. The multi-alarm shipping temperature USB monitor has a storage capacity of 1,500 measurements and is a single use device. When connected to a PC/Mac, the device automatically generates a secure PDF/A report showing the recorded data. Accessories: - Data verification with Berlinger Verifier - Data management with Berlinger Smartview All devices are delivered with NIST/LAC traceable certificate Discounts apply for large orders.

PRICE AND SHIPPING

Shipping volume (m3)	0.004	**Weight per Package (Kg)**	0.0360
Units per package	42.00	**Weight per Unit (Kg)**	1.6900
Minimum order	20.00	**Incoterms**	EXW

Price 1	Price at 20 units: 40.95 USD per unit	**Year of base price**	2020

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/TR07.1 Applicable PQS VP(s): E006/TR07-VP.1		

VERIFICATION

Verification Laboratory	Roth & CO AG	**Address**	asasasSwitzerland
Verification Report Reference	VA11-02742C1		

PRODUCT SITES

Organization name	Berlinger & Co. AG
Address	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Fridge-tag 2**
IMD-PQS Code:	E006-020
Status:	Prequalified
Date of acceptance:	31 Jan 2013
Appliance type:	E006
Product description:	30 day electronic temperature logger
Manufacturer:	Berlinger & Co. AG
Manufacturers Reference:	Fridge-tag 2
Country of Manufacture:	Switzerland
Address:	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland
Telephone:	+41 (71) 982 88 11
Email:	info@berlinger.com
Website address:	http://www.berlinger.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum recording time (days)	30.00	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	1.00	**External dimensions height (mm)**	19.00
External dimensions length (mm)	128.00	**External dimensions width (mm)**	75.00
Activation mechanism	Button activated	**Material**	Non-corrodible plastic (ABS)
Fixing mechanism	Adhesive	**CE marking**	Yes
Minimum working temperature (°C)	-40.00	**Maximum working temperature (°C)**	60.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Lithium coin cell	**Battery shelf life (year)**	42 months from manufacturing date
Activated battery life	42 months from manufacturing date	**Alarm type**	Visual
Programmability	Factory Programmed	**User interface**	LCD
Display medium	LCD	**Recording medium**	Electronic
Ingress protection rating IP	64		

Comments	Fridge-tag 2 is the temperature monitor for medical refrigerators or freezers. It measures the ambient temperature every minute and immediately issues an alert when your alarm limit is exceeded. The large OK / ALARM indicator on the display enables immediate decision making. Accurate temperature data from the last 60 days is presented in a PDF, which is automatically generated when the device is connected to a PC/Mac, without additional software. The Fridge-tag 2 is also available with a removable external temperature sensor (measures down to –40°C / –40°F). Default configurations are Type 1 and Type 2 (as per TR06.4); other configurations are also possible. FREE Apps: The Fridge Tag 2 has been verified to be compatible with the free Varo Android application , which reads out data from 30DTR loggers and sends it via email to user-defined recipients in a format that can be easily aggregated using a separate free application called Pogo LT . The Varo and Pogo LT apps are free. They are developed and maintained by a third party, not affiliated with Berlinger. However, we consider both apps a complementary value-add to our Fridge-tags that come for free. Discounts apply for large orders. Country of Manufacture: Switzerland/Malaysia

PRICE AND SHIPPING

Shipping volume (m3)	0.009	**Weight per Package (Kg)**	0.1090
Units per package	32.00	**Weight per Unit (Kg)**	4.6300
Minimum order	20.00	**Incoterms**	EXW
Price 1	48.00 USD per unit	**Year of base price**	2022

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/TR06.3 Applicable PQS VP(s): E006/TR06-VP.3		

VERIFICATION

Verification Laboratory	Roth & CO AG	**Address**	asasasSwitzerland
Verification Report Reference	VA 13-00120		

PRODUCT SITES

Organization name	Berlinger & Co. AG
Address	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**TIC20 - WA/B & TIC20 - WC**
IMD-PQS Code:	E006-021
Status:	Prequalified
Date of acceptance:	03 Jun 2013
Appliance type:	E006
Product description:	40 day electronic shipping indicator
Manufacturer:	LogTag North America Inc.
Manufacturers Reference:	TIC20 - WA/B & TIC20 - WC
Country of Manufacture:	China
Address:	TongFuYu Industrial Zone, Block NO.8, Jinghong Road, Shajing Town, Baoan 518117 ShenZhen, GuangDong China
Telephone:	+64 9 448 2311
Email:	sales@logtagrecorders.com
Website address:	www.logtagrecorders.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	6.00
Maximum recording time (days)	40.00	**Sensor type(s)**	Electronic thermistor
Maximum sensor lead length (metres)	0.00	**Maximum number of sensor channels**	1.00
External dimensions height (mm)	8.30	**External dimensions length (mm)**	73.30
External dimensions width (mm)	54.50	**Activation mechanism**	Start button
Material	Polycarbonate	**Fixing mechanism**	Adhesive
CE marking	Yes	**Minimum working temperature (°C)**	-30.00
Maximum working temperature (°C)	55.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	LiMg non replaceable	**Battery shelf life (year)**	1 1/2 year
Activated battery life	7 months	**Alarm type**	Visual
Programmability	Factory Programmed	**User interface**	LCD
Display medium	LCD	**Recording medium**	Electronic
Ingress protection rating IP	65		

Comments

The LogTag TIC20 is a irreversible electronic temperature indicator for use in monitoring temperature and time statistics in pharmaceutical transport applications of up to 40 days duration and is factory pre-configured to monitor a range of standard vaccines. Provides clear indication of temperature history/alarm status at all times. Push button Start and Stop. Push Review button to display daily statistics in sequence. Data can be downloaded via an interface cradle (docking station not included in price) to LogTag Analyzer software if required. Order codes : TIC20-WC : WHO Type C alarm configuration for freeze sensitive vaccines (DTP, DT, TT, Td, HepB, IPV, liquid Hib and combination vaccines, MenAfriVac, HPV, Pneumo (other than Prevenar)). TIC20-WA/B : WHO Type A/B alarm configuration suitable for the international shipment of BCG, lyophilized Hib, measles, MR, MMR, meningitis (polysaccharide), OPV, rabies, rotavirus (other than rotateq) and yellow fever vaccines shipped with frozen icepacks. TIC20-WR : WHO type Rotateq only TIC20-WP : WHO type Prevenar only for Prevenar 7-valent conjugated vaccine (4 packs = 200 units, 0.031m3, 8.5kg)

PRICE AND SHIPPING

Shipping volume (m3)	0.006	**Weight per Package (Kg)**	0.0293
Units per package	50.00	**Weight per Unit (Kg)**	2.0000
Minimum order	20.00	**Incoterms**	FOB
Price 1	20-49 units: 24.00 USD	**Price 2**	50+units: on request
Year of base price	2013		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E006/TR07.2 Applicable PQS VP(s): E006/TR07-VP.2		

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	7191045935-EEC12/02		

PRODUCT SITES

Organization name	LogTag North America Inc.
Address	TongFuYu Industrial Zone, Block NO.8, Jinghong Road, Shajing Town, Baoan 518117 ShenZhen, GuangDong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**LIBERO CB**
IMD-PQS Code:	E006-022
Status:	Prequalified
Date of acceptance:	07 Oct 2013
Appliance type:	E006
Product description:	User programmable temperature data logger CB
Manufacturer:	ELPRO-BUCHS AG
Manufacturers Reference:	LIBERO CB
Country of Manufacture:	Switzerland
Address:	Langaulistrasse 45 9470 Buchs Suisse Switzerland
Telephone:	+41 81 552 08 08
Email:	andrea.bischof@elpro.com
Website address:	http://www.elpro.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	60.00	**Maximum recording time (days)**	366.00
Sensor type(s)	NTC	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	1.00	**External dimensions height (mm)**	11.00
External dimensions length (mm)	96.00	**External dimensions width (mm)**	37.00
Activation mechanism	Start & stop buttons	**Material**	ABS
Fixing mechanism	None	**CE marking**	Yes
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	70.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.30	**Power source**	Non-replaceable battery
Battery type	CR Lithium	**Battery shelf life (year)**	min 1 year (no activation)
Activated battery life	12 months	**Alarm type**	Visual
Memory capacity (readings)	24200.00	**Programmability**	User Programed
User interface	USB for computer	**Display medium**	LCD
Recording medium	Electronic	**Ingress protection rating IP**	54

Comments

Accessories: * freeware - liberoCONFIG - Configuration Software* - LIBERO SmartStart - Quick Configuration Tool* - liberoMANAGER - Online Cold Chain Database - elproVIEWER - Analysis Software* - elproASSISTANT - Task Manager The LIBERO CB PDF Logger is a single use data logger that automatically generates an evaluation report in PDF format upon connection to a USB port. No equipment and no software required to read out logger. Release products based on the OK or ALARM status on the display, retrieve the PDF report and forward it to the sender for further analysis or archive it locally. Key features: - 2 temperature thresholds with alarm delay; - Alarm on Mean Kinetic Temperature (MKT) - Alarm on duration / logging time; - Customizable text area for additional information (e.g. shipment information, instructions for recipient, etc.); - Chart visualizing the temperature curve and alarm limits Maximum recording time (days): 6.11 to 366 days

PRICE AND SHIPPING

Shipping volume (m3)	0.003	**Weight per Package (Kg)**	0.0380
Units per package	40.00	**Weight per Unit (Kg)**	1.6700

Minimum order	40.00	**Incoterms**	EXW
Price 1	40+ = 31.06 USD; 120+ = 30.02USD	**Price 2**	600+ = 28.44; USD; 1000+ = on request
Year of base price	2023		

QUALITY STANDARD

Quality Standard	ISO 17025;Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/TR05.1 Applicable PQS VP(s): E006/TR05-VP.1		

VERIFICATION

Verification Laboratory	METAS	**Address**	Lindenweg 50 CH-3003 Bern-WabernSwitzerland
Email	anton.steiner@metas.ch	**Verification Report Reference**	SAS SCS 25 March 2010

PRODUCT SITES

Organization name	ELPRO-BUCHS AG
Address	Langaulistrasse 45 9470 Buchs Suisse Switzerland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**LIBERO CS**
IMD-PQS Code:	E006-023
Status:	Prequalified
Date of acceptance:	07 Nov 2013
Appliance type:	E006
Product description:	User programmable temperature data logger CS
Manufacturer:	ELPRO-BUCHS AG
Manufacturers Reference:	LIBERO CS
Country of Manufacture:	Switzerland
Address:	Langaulistrasse 45 9470 Buchs Suisse Switzerland
Telephone:	+41 81 552 08 08
Email:	andrea.bischof@elpro.com
Website address:	http://www.elpro.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	60.00	**Maximum recording time (days)**	366.00
Sensor type(s)	NTC	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	1.00	**External dimensions height (mm)**	11.00
External dimensions length (mm)	96.00	**External dimensions width (mm)**	37.00
Activation mechanism	Start / stop button	**Material**	ABS
Fixing mechanism	None	**CE marking**	Yes
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	70.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.30	**Power source**	Non-replaceable battery
Battery type	CR Lithium	**Battery shelf life (year)**	min 1 year (no activation)
Activated battery life	1 year	**Alarm type**	Visual
Memory capacity (readings)	24200.00	**Programmability**	User Programed
User interface	USB for computer	**Display medium**	LCD
Recording medium	Electronic	**Ingress protection rating IP**	IP 54

Comments

Accessories: * freeware - liberoCONFIG - Configuration Software* - LIBERO SmartStart - Quick Configuration Tool* - liberoMANAGER - Online Cold Chain Database - elproVIEWER - Analysis Software* - elproASSISTANT - Task Manager The LIBERO CS PDF Logger is a single use data logger with multiple alarm levels that automatically generates an evaluation report in PDF format upon connection to a USB port. No equipment and no software required to read out logger. Release products based on the OK or ALARM status on the display, retrieve the PDF report and forward it to the sender for further analysis or archive it locally. Key features: - up to 8 temperature alarm levels with single or cumulative delays; Alarm on Mean Kinetic Temperature (MKT); Alarm on duration / logging time; Customizable text area for additional information (e.g. shipment information, instructions for recipient, etc.); Chart visualizing the temperature curve and alarm limits

PRICE AND SHIPPING

Shipping volume (m3)	0.003	**Weight per Package (Kg)**	0.0380
Units per package	40.00	**Weight per Unit (Kg)**	1.6700

Minimum order	40.00	**Incoterms**	EXW
Price 1	40+ = 31.06 USD; 120+ = 30.02 USD	**Price 2**	600+ = 28.44 USD
Price 3	1000+ = on request to manufacturer	**Year of base price**	2023

QUALITY STANDARD

Quality Standard	ISO 17025;Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/TR05.1 Applicable PQS VP(s): E006/TR05-vp.1		

VERIFICATION

Verification Laboratory	METAS	**Address**	Lindenweg 50 CH-3003 Bern-WabernSwitzerland
Email	anton.steiner@metas.ch	**Verification Report Reference**	SAS SCS 122

PRODUCT SITES

Organization name	ELPRO-BUCHS AG
Address	Langaulistrasse 45 9470 Buchs Suisse Switzerland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**VaxAlertTM USB**
IMD-PQS Code:	E006-029
Status:	Prequalified
Date of acceptance:	18 Dec 2014
Appliance type:	E006
Product description:	40 day electronic shipping indicator
Manufacturer:	Sensitech Inc.
Manufacturers Reference:	VaxAlertTM USB
Country of Manufacture:	China
Address:	A Business Unit of Carrier Corporation, Suite 258X, 800 Cummings Center. Beverly, MA 01915 United States United States of America
Telephone:	+1 978 - 927- 7033
Email:	mmarks@carrier.com
Website address:	http://www.sensitech.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	2.00
Maximum recording time (days)	20.00	**Sensor type(s)**	Electronic digital
Maximum sensor lead length (metres)	0.00	**Maximum number of sensor channels**	1.00
External dimensions height (mm)	19.60	**External dimensions length (mm)**	101.00
External dimensions width (mm)	56.00	**Activation mechanism**	Start/Stop button
Material	ABS	**Fixing mechanism**	None
CE marking	Yes	**Minimum working temperature (°C)**	-30.00
Maximum working temperature (°C)	55.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	3.6V Lithium	**Battery shelf life (year)**	24 mths
Activated battery life	12 mths	**Alarm type**	Visual
Memory capacity (readings)	16000.00	**Programmability**	Factory Programmed
User interface	LCD and PC downloadable	**Display medium**	LCD
Recording medium	Electronic	**Ingress protection rating IP**	64

Comments	Sensitech Inc.’s most advanced electronic temperature shipping indicator integrates multi-alarm cold chain monitoring with detailed time-temperature alarm excursion history information. This advanced indicator enables logistics staff, receivers and quality assurance personnel to determine if and when cold chain breaks occur in the supply chain. The user-friendly liquid crystal display (LCD) combines complete alarm status information with an alarm time-stamp record and the maximum or minimum temperature. The indicators are factory configured with WHO established alarm profiles in support of UNICEF vaccine procurement and transport requirements. These cost-effective, single-use indicators monitor up to three time-temperature alarms, which can be tailored to specific cold chain transport monitoring requirements beyond WHO/UNICEF vaccine shipments. Its main features are: Automatic generation of Adobe® PDF cold chain data report; Integrated USB connector; Two types of alarms: (1) Single event alarms are triggered if temperature exceeds threshold for a contiguous time period, (2) Cumulative time event alarms are triggered if temperature exceeds threshold for a total sum of time. User-friendly three button interface and intuitive display enables immediate accept/reject decision making and detailed excursion history information. Alarm “time stamp” records elapsed time at point of alarm events, allowing supply chain partners to analyze variability and institute corrective actions. Accuracy: ±0.5°C between -5°C and +25°C Maximum Logging Intervals: Optional up to 2 hours

PRICE AND SHIPPING

Weight per Package (Kg)	0.0709	**Units per package**	20.00
Weight per Unit (Kg)	1.0400	**Minimum order**	20.00
Incoterms	EXW	**Price 1**	21.00€ per unit
Year of base price	2014		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/TR07.3 Applicable PQS VP(s): E006/TR07-VP.3		

VERIFICATION

Verification Report Reference	ACS-E14535

PRODUCT SITES

Organization name	Sensitech Inc.
Address	A Business Unit of Carrier Corporation, Suite 258X, 800 Cummings Center. Beverly, MA 01915 United States United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Q-tag® CLm doc L**
IMD-PQS Code:	E006-030
Status:	Prequalified
Date of acceptance:	17 Apr 2015
Appliance type:	E006
Product description:	Electronic Shipping Indicator
Manufacturer:	Berlinger & Co. AG
Manufacturers Reference:	Q-tag® CLm doc L
Country of Manufacture:	Switzerland
Address:	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland
Telephone:	+41 (71) 982 88 11
Email:	info@berlinger.com
Website address:	http://www.berlinger.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	60.00	**Maximum recording time (days)**	40.00
Sensor type(s)	Digital	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	1.00	**External dimensions height (mm)**	12.00
External dimensions length (mm)	94.00	**External dimensions width (mm)**	54.00
Activation mechanism	Start button	**Material**	ABS
Fixing mechanism	None	**CE marking**	Yes
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	60.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Lithium coin cell	**Battery shelf life (year)**	24 months from manufacture date
Activated battery life	40 days	**Alarm type**	Visual
Memory capacity (readings)	38000.00	**Programmability**	Factory Programmed
User interface	LCD + PC downloadable	**Display medium**	LCD
Recording medium	Electronic	**Ingress protection rating IP**	65

Comments	Multi-alarm shipping temperature USB logger. With an operating time of up to 365 days, the Q-tag CLm doc L multi-alarm shipping temperature logger is particularly durable monitor for your valuable goods. When connected to a computer, the logger automatically generates a secure PDF/A report showing the measured data including the temperature curve. The measurement interval is one minute and the memory has a capacity of 38,000. Accessories: - Data verification with Berlinger Verifier - Data management with Berlinger Smartview All devices are delivered with NIST/LAC traceable certificate Discounts apply for large orders

PRICE AND SHIPPING

Shipping volume (m3)	0.004	**Weight per Package (Kg)**	0.0360
Units per package	50.00	**Weight per Unit (Kg)**	1.9800
Minimum order	50.00	**Incoterms**	EXW

Price 1	Price at 20 units: 42.15 USD per unit	**Year of base price**	2022

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/TR07.1 Applicable PQS VP(s): E006/TR07-VP.1		

VERIFICATION

Verification Laboratory	Roth & CO AG	**Address**	asasasSwitzerland
Verification Report Reference	VA15-0238-10		

PRODUCT SITES

Organization name	Berlinger & Co. AG
Address	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**ICE3 - Model BC141**
IMD-PQS Code:	E006-036
Status:	Prequalified
Date of acceptance:	11 Nov 2015
Appliance type:	E006
Product description:	Remote Temperature Monitoring Device
Manufacturer:	Beyond Wireless Technology (Pty) Ltd
Manufacturers Reference:	ICE3 - Model BC141
Country of Manufacture:	South Africa
Address:	1st floor, Building 13, Woodlands Office Park, 20 Woodlands Drive, Woomead, Sandton 2191 South Africa
Telephone:	+27 (0)112432960/1
Email:	dion@beyondwireless.co.za
Website address:	http://beyondwireless.co.za/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	10.00	**Sensor type(s)**	NTC+'door-open' event sensor
Maximum sensor lead length (metres)	1.00	**Maximum number of sensor channels**	6.00
External dimensions height (mm)	75.00	**External dimensions length (mm)**	175.00
External dimensions width (mm)	40.00	**Material**	ABS
Fixing mechanism	Adhesive	**CE marking**	Yes
Minimum working temperature (°C)	-40.00	**Maximum working temperature (°C)**	105.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.20	**Power source**	Other
Power Source (Other)	Battery / Mains / Solar	**Battery type**	Lithium
Battery shelf life (year)	10 years	**Activated battery life**	Up to 1000 charge cycles
Alarm type	Aucostic	**Memory size (Mb)**	0.0232000000
Memory capacity (readings)	35000.00	**Programmability**	Other
Programmability (Other)	Remotely programmable	**User interface**	Membrane keypad, App, Internet browser
Display medium	Onboard LCD and Online (via internet browser)	**Recording medium**	Not applicable
Ingress protection rating IP	IP50 (logger); IP68 (probe)		

Comments	Remote monitoring / alarming device for cold-chain storage facilities and assets such as warehouses, fridges, freezers, walk-in cold rooms/freezers, incubators etc. The following are included: - Inputs: 4 x Temperature, 4 x digital e.g. door, power status - Built-in Ambient temperature / RH - Built-in power monitoring (Mains and OEM versions). - Magnetic mount (in addition to / instead of screw mounts) - Backup battery in case of mains failure, with alarm notification. - Global SIM with multi-network roaming - Real time SMS, email, smartphone app and on-line alarming notifications with multi-recipient escalation - Portal access for unlimited users - Smartphone App (Android, iOS and Huawei) - Multilayer, remotely configurable alarm parameters. - Real-time GIS dashboard. - Historic online cold chain reporting & performance analysis with detailed root-cause and corrective action analytics by region, site, asset, make and model - Full 30DTR functionality - Alarm types include: Buzzer. LED, LCD (at unit) and SMS, Email, App, ColdCloud portal (remotely) - Available in Battery, Mains, OEM and truck configurations. Options: => GPS (track asset including fridges, refriderated vehicles etc) => FreezeGuard (Automatically switch fridge off if temperature gets too cold) => Remote control (set fridge temperature remotely – replaces thermostat/controller in fridge)

PRICE AND SHIPPING

Shipping volume (m3)	0.0015	**Weight per Package (Kg)**	0.3000
Units per package	1.00	**Weight per Unit (Kg)**	0.3500
Minimum order	1.00	**Incoterms**	FCA
Price 1	$300 once-off and $360 per year	**Year of base price**	2015

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E006/TR03.2 Applicable PQS VP(s): E006/TR03-VP.2		

PRODUCT SITES

Organization name	Beyond Wireless Technology (Pty) Ltd
Address	1st floor, Building 13, Woodlands Office Park, 20 Woodlands Drive, Woomead, 1st floor, Building 13, Woodlands Office Park, 20 Woodlands Drive, Woomead, Sandton 2191 South Africa

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Ice3-Extra-BC440**
IMD-PQS Code:	E006-037
Status:	Prequalified
Date of acceptance:	11 Nov 2015
Appliance type:	E006
Product description:	Remote Temperature Monitoring Device
Manufacturer:	Beyond Wireless Technology (Pty) Ltd
Manufacturers Reference:	Ice3-Extra-BC440
Country of Manufacture:	South Africa
Address:	1st floor, Building 13, Woodlands Office Park, 20 Woodlands Drive, Woomead, Sandton 2191 South Africa
Telephone:	+27 (0)112432960/1
Email:	dion@beyondwireless.co.za
Website address:	http://beyondwireless.co.za/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Sensor type(s)	NTC+'door-open' event sensor	**Maximum sensor lead length (metres)**	1.00
Maximum number of sensor channels	14.00	**External dimensions height (mm)**	255.00
External dimensions length (mm)	230.00	**External dimensions width (mm)**	80.00
Material	ABS	**Fixing mechanism**	Screws
CE marking	Yes	**Minimum working temperature (°C)**	-200.00
Maximum working temperature (°C)	450.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.02	**Power source**	Other
Power Source (Other)	Batter / Mains / Solar	**Battery type**	Li-ion
Battery shelf life (year)	>10	**Activated battery life**	Up to 500 full charge cycles
Alarm type	Aucostic	**Memory capacity (readings)**	60000.00
Programmability	User Programed	**User interface**	Internet browser
Display medium	Onbaord LCD and online	**Recording medium**	Electronic
Ingress protection rating IP	IP50 (logger); IP68 (probe)		

Comments

Remote monitoring / alarming device for cold-chain storage facilities and assets such as warehouses, fridges, freezers (including -80°C and -200°C), walk-in cold rooms/freezers, incubators etc. The following are included: - Inputs: 8 x Temperature (or other), 8 x digital e.g. door, 8 x PT100 temperature (with add-on board) - Built-in Ambient temperature / RH - Onboard power monitoring and surge / spike protection. - Backup battery in case of mains failure, with alarm notification. - Global SIM with multi-network roaming - Real time SMS, email, smartphone app and on-line alarming notifications with multi-recipient escalation - Portal access for unlimited users - Smartphone App (Android, iOS and Huawei) - Multilayer, remotely configurable alarm parameters. - Real-time GIS dashboard. - Historic online cold chain reporting & performance analysis with detailed root-cause and corrective action analytics by region, site, asset, make and model - Alarm types include: Buzzer. LED, LCD (at unit) and SMS, Email, App, ColdCloud portal (remotely) OPTIONS: => Solar / DC input => Analogue inputs e.g. 0-10V, 4-20mA (for external sensors such as differential press, RH, dust etc.) => PT100 inputs (additional 8 channels) Accuracy: +/- 0.2°C at 25°C (NTC); +/- 0.15°C at 0°C (PT100)

PRICE AND SHIPPING

Shipping volume (m3)	0.011	**Weight per Package (Kg)**	1.0000
Units per package	1.00	**Weight per Unit (Kg)**	1.0000
Minimum order	1.00	**Incoterms**	FCA
Price 1	$580	**Price 2**	NTC temeprature probes $39
Price 3	Annual fee $480 per year	**Year of base price**	2015

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E006/TR03.2 Applicable PQS VP(s): E006/TR03-VP.2		

PRODUCT SITES

Organization name	Beyond Wireless Technology (Pty) Ltd
Address	1st floor, Building 13, Woodlands Office Park, 20 Woodlands Drive, Woomead, 1st floor, Building 13, Woodlands Office Park, 20 Woodlands Drive, Woomead, Sandton 2191 South Africa

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**TICT-iS0°Tag**
IMD-PQS Code:	E006-038
Status:	Prequalified
Date of acceptance:	25 Apr 2016
Appliance type:	E006
Product description:	Irreversible freeze indicator
Manufacturer:	LogTag North America Inc.
Manufacturers Reference:	TICT-iS0°Tag
Country of Manufacture:	China
Address:	TongFuYu Industrial Zone, Block NO.8, Jinghong Road, Shajing Town, Baoan 518117 ShenZhen, GuangDong China
Telephone:	+64 9 448 2311
Email:	sales@logtagrecorders.com
Website address:	www.logtagrecorders.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	5.00
Maximum logging intervals (mins)	5.00	**Sensor type(s)**	Electronic Thermistor
Maximum sensor lead length (metres)	0.00	**Maximum number of sensor channels**	0.00
External dimensions height (mm)	8.60	**External dimensions length (mm)**	71.50
External dimensions width (mm)	33.00	**Activation mechanism**	manual
Material	Polycarbonate	**Fixing mechanism**	Adhesive
CE marking	Yes	**Minimum working temperature (°C)**	-25.00
Maximum working temperature (°C)	60.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	3V Lithium Li-Mg coin cell	**Battery shelf life (year)**	3 years
Activated battery life	3 years	**Alarm type**	Visual
Programmability	Factory Programmed	**User interface**	LCD screen
Display medium	Custom LCD display	**Recording medium**	Not applicable
Ingress protection rating IP	64		

Comments	The LogTag® TICT iS0°Tag® is a single-use, electronic freeze indicator for monitoring temperature as well as recording statistics during the transportation and storage of chilled products, such as vaccines, food or specialty chemical products, designed to meet WHO PQS performance specification E06/IN03.1 for irreversible freeze indicators. The product is made from durable polycarbonate plastic and features an LCD display and a START/MARK button. The LogTag TICT iS0°Tag® can monitor and record statistics against a -0.5ºC temperature limit for up to 3 years, showing OK if environmental conditions remain at or above this limit. If, however, temperatures go below -0.5ºC for more than 60 minutes continuously, the LCD shows a REJECT symbol, indicating the goods require further checking. The indicator stops and cannot be reset, once an alarm has been generated. Memory capacity: 1096 MIN/MAX events, 540 real time measurements

PRICE AND SHIPPING

Shipping volume (m3)	0.017	**Weight per Package (Kg)**	0.0190

Units per package	200.00	**Weight per Unit (Kg)**	4.5000
Minimum order	50.00	**Incoterms**	EXW
Price 1	50-999 units: 6.5 $US	**Price 2**	more than 1000 units: POA
Year of base price	2016		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: PQS/E006/IN03.1 Applicable PQS VP(s): E006/IN03-VP.1		

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com
Verification Report Reference	7191129301-EEC16/NCH		

PRODUCT SITES

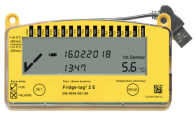
Organization name	LogTag North America Inc.
Address	TongFuYu Industrial Zone, Block NO.8, Jinghong Road, Shajing Town, Baoan 518117 ShenZhen, GuangDong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Fridge-tag 2 E**
IMD-PQS Code:	E006-040
Status:	Prequalified
Date of acceptance:	30 Oct 2016
Appliance type:	E006
Product description:	30-day electronic temperature logger
Manufacturer:	Berlinger & Co. AG
Manufacturers Reference:	Fridge-tag 2 E
Country of Manufacture:	Switzerland
Address:	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland
Telephone:	+41 (71) 982 88 11
Email:	info@berlinger.com
Website address:	http://www.berlinger.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum recording time (days)	60.00	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	1.00	**External dimensions height (mm)**	19.00
External dimensions length (mm)	128.00	**External dimensions width (mm)**	75.00
Activation mechanism	Button activated	**Material**	Non-corrodible plastic (ABS)
Fixing mechanism	Adhesive	**CE marking**	Yes
Minimum working temperature (°C)	-40.00	**Maximum working temperature (°C)**	60.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Lithium coin cell	**Battery shelf life (year)**	66 months from the manufacturing date
Activated battery life	66 months from the manufacturing date	**Alarm type**	Visual
Programmability	Factory Programmed	**User interface**	LCD
Display medium	LCD	**Recording medium**	Electronic
Ingress protection rating IP	64		

Comments	Fridge-tag 2 E, now with 5 years operating time, is the temperature monitor for medical refrigerators or freezers. It measures the ambient temperature every minute and immediately issues an alert when your alarm limit is exceeded. The large OK / ALARM indicator on the display enables immediate decisions to be made. Accurate temperature data from the last 60 days is presented in a PDF, which is automatically generated when the device is connected to a PC/Mac, without additional software. The Fridge-tag 2 E is also available with a removable external temperature sensor (measures up to –40°C / –40°F). Default configurations are Type 1 and Type 2 (as per TR06.4); other configurations are also possible. FREE Apps: The Fridge Tag 2 has been verified to be compatible with the free Varo Android application , which reads out data from 30DTR loggers and sends it via email to user-defined recipients in a format that can be easily aggregated using a separate free application called Pogo LT . The Varo and Pogo LT apps are free. They are developed and maintained by a third party, not affiliated with Berlinger. However, we consider both apps a complementary value-add to our Fridge-tags that come for free. Discounts apply for large orders Country of Manufacture: Switzerland/Malaysia

PRICE AND SHIPPING

Shipping volume (m3)	0.017	**Weight per Package (Kg)**	0.1120
Units per package	50.00	**Weight per Unit (Kg)**	8.0000
Minimum order	20.00	**Incoterms**	EXW
Price 1	For 20 units 78.50 USD per unit	**Year of base price**	2022

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: PQS/E006/TR06.3 Applicable PQS VP(s): E006/TR06-VP.3		

VERIFICATION

Verification Laboratory	Roth & CO AG	**Address**	asasasSwitzerland
Verification Report Reference	VA 16-01816		

PRODUCT SITES

Organization name	Berlinger & Co. AG
Address	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**HETL-01**
IMD-PQS Code:	E006-042
Status:	Prequalified
Date of acceptance:	14 Jul 2016
Appliance type:	E006
Product description:	30-day electronic temperature logger
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HETL-01
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	6.00
Maximum recording time (days)	30.00	**Sensor type(s)**	integrated sensor
Maximum sensor lead length (metres)	0.00	**Maximum number of sensor channels**	0.00
External dimensions height (mm)	131.00	**External dimensions width (mm)**	24.00
Activation mechanism	Press buttons	**Material**	ABS
Fixing mechanism	None	**CE marking**	Yes
Minimum working temperature (°C)	-20.00	**Maximum working temperature (°C)**	50.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Non-rechargeable lithium battery	**Battery shelf life (year)**	3 years
Activated battery life	2 years	**Alarm type**	Visual
Memory capacity (readings)	8192.00	**Programmability**	Factory Programmed
User interface	device itself	**Display medium**	LCD
Recording medium	Electronic	**Ingress protection rating IP**	IP65

Comments	30-day electronic refrigerator temperature logger, integrated sensor devices, reusable. It is used to monitor and log the vaccine and pharmacy storage environment, applied in vaccine refrigerators and cold rooms. This device can log the daily temperature data, and alarm indications displayed in the LCD display when the temperature exceeds. Data with 30 days can be viewed and downloaded by USB port to PC, and generate temperature charts

PRICE AND SHIPPING

Shipping volume (m3)	0.001	**Weight per Package (Kg)**	0.1400
Units per package	5.00	**Weight per Unit (Kg)**	0.1400
Minimum order	5.00	**Incoterms**	FCA
Price 1	1-100 units: USD 23.00	**Price 2**	101-200 units: USD 22.00; 201-500 units: USD 21.00
Price 3	>501 units: USD 20.00	**Year of base price**	2016

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E006/TR06.3 Applicable PQS VP(s): E006/TR06-VP.3		

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-16-243		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Weblogger II**
IMD-PQS Code:	E006-043
Status:	Prequalified
Date of acceptance:	03 Mar 2017
Appliance type:	E006
Product description:	User programmable temperature data logger
Manufacturer:	Temperature Sensitive Solutions AB
Manufacturers Reference:	Weblogger II
Country of Manufacture:	Sweden
Address:	Berzelius vag 25 171 65 Solna Sweden
Telephone:	+46790791229
Email:	andras.kalmar@tss.se
Website address:	http://www.tss.se
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	5760.00	**Sensor type(s)**	Internal Electronic Sensor
External dimensions height (mm)	11.50	**External dimensions length (mm)**	90.00
External dimensions width (mm)	43.00	**Activation mechanism**	Button or web interface
Material	ABS	**Fixing mechanism**	None
CE marking	Yes	**Minimum working temperature (°C)**	-30.00
Maximum working temperature (°C)	70.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	CR Lithium	**Battery shelf life (year)**	1 year
Activated battery life	12 months	**Alarm type**	Visual
Memory size (Mb)	0.5120000000	**Memory capacity (readings)**	16000.00
Programmability	User Programed	**User interface**	USB for computer
Recording medium	flash memory	**Ingress protection rating IP**	IP 65

Comments	The WebLogger II is a RoHs, CE and IATA compliant electronic temperature data logger. The logger can be individually configured and programmed or ordered preconfigured. It offers unique management of mission data, e.g. Shipping #, Origin, Destination, Carrier, and Data-Logger Location in the CCIS cloud. When the logger is plugged into a computer USB port, an HTM file is created containing the data. Clicking the file will display the result on a web dashboard and secure the mission data in the CCIS private secure cloud. Maximum Logging Intervals: 4 days

PRICE AND SHIPPING

Shipping volume (m3)	0.0104	**Weight per Package (Kg)**	0.0360
Units per package	100.00	**Weight per Unit (Kg)**	4.0000
Minimum order	100.00	**Incoterms**	FCA
Price 1	100-250: €39	**Price 2**	250+: €38
Price 3	1000+: on request to manufacturer	**Year of base price**	2017

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: PQS/E006/TR05.1 Applicable PQS VP(s): E006/TR05-VP.1		

PRODUCT SITES

Organization name	Temperature Sensitive Solutions AB
Address	Berzelius vag 25 171 65 Solna Sweden

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**ITAG4**
IMD-PQS Code:	E006-044
Status:	Prequalified
Date of acceptance:	10 Apr 2017
Appliance type:	E006
Product description:	User programmable temperature data logger
Manufacturer:	TempSen Electronics Company
Manufacturers Reference:	ITAG4
Country of Manufacture:	China
Address:	Building 17, No.66 Guangfulin Rd.(E) 201613 Shanghai China
Telephone:	+862167685210
Email:	info@tempsen.com
Website address:	www.tempsen.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	120.00	**Sensor type(s)**	Digital
Maximum sensor lead length (metres)	0.00	**Maximum number of sensor channels**	1.00
External dimensions height (mm)	7.00	**External dimensions length (mm)**	93.00
External dimensions width (mm)	45.00	**Activation mechanism**	Button activated
Material	Polycarbonate	**Fixing mechanism**	None
CE marking	Yes	**Minimum working temperature (°C)**	-30.00
Maximum working temperature (°C)	70.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	3 V Lithium metal battery	**Battery shelf life (year)**	2 years
Activated battery life	2 months	**Alarm type**	Visual
Memory capacity (readings)	7200.00	**Programmability**	User Programed
User interface	LCD	**Display medium**	LCD
Recording medium	Electronic	**Ingress protection rating IP**	IP 65

PRICE AND SHIPPING

Shipping volume (m3)	1.3E-6	**Weight per Package (Kg)**	0.0250
Units per package	20.00	**Weight per Unit (Kg)**	0.5700
Minimum order	20.00	**Incoterms**	EXW
Price 1	(10-100 units): 20.99 $	**Price 2**	>100 units: 19.49 $
Year of base price	2017		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: PQS/E006/TR05.1 Applicable PQS VP(s): E006/TR05-VP.1		

PRODUCT SITES

Organization name	TempSen Electronics Company
Address	Building 17, No.66 Guangfulin Rd.(E) 201613 Shanghai China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**ITAG4 Bio**
IMD-PQS Code:	E006-045
Status:	Prequalified
Date of acceptance:	10 Apr 2017
Appliance type:	E006
Product description:	User programmable temperature data logger
Manufacturer:	TempSen Electronics Company
Manufacturers Reference:	ITAG4 Bio
Country of Manufacture:	China
Address:	Building 17, No.66 Guangfulin Rd.(E) 201613 Shanghai China
Telephone:	+862167685210
Email:	info@tempsen.com
Website address:	www.tempsen.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Sensor type(s)	Digital	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	1.00	**External dimensions height (mm)**	7.00
External dimensions length (mm)	93.00	**External dimensions width (mm)**	45.00
Activation mechanism	Button activated	**Material**	Polycarbonate
Fixing mechanism	None	**CE marking**	Yes
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	70.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	3 V Lithium metal battery	**Battery shelf life (year)**	2 years
Activated battery life	2 months	**Alarm type**	Visual
Memory size (Mb)	0.0005120000	**Memory capacity (readings)**	7200.00
Programmability	User Programed	**User interface**	LCD
Display medium	LCD	**Recording medium**	Electronic
Ingress protection rating IP	IP 65		

PRICE AND SHIPPING

Shipping volume (m3)	1.3E-6	**Weight per Package (Kg)**	0.0250
Units per package	20.00	**Weight per Unit (Kg)**	0.5700
Minimum order	20.00	**Incoterms**	EXW
Price 1	(10-100 units): 23.99 $	**Price 2**	>100 units: 21.99 $
Year of base price	2017		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: PQS/E006/TR05.1 Applicable PQS VP(s): E006/TR05-VP.1		

PRODUCT SITES

Organization name	TempSen Electronics Company
Address	Building 17, No.66 Guangfulin Rd.(E) 201613 Shanghai China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**TempTale® Ultra**
IMD-PQS Code:	E006-046
Status:	Prequalified
Date of acceptance:	10 Apr 2017
Appliance type:	E006
Product description:	User programmable temperature data logger
Manufacturer:	Sensitech Inc.
Manufacturers Reference:	TempTale® Ultra
Country of Manufacture:	China
Address:	A Business Unit of Carrier Corporation, Suite 258X, 800 Cummings Center. Beverly, MA 01915 United States United States of America
Telephone:	+1 978 - 927- 7033
Email:	mmarks@carrier.com
Website address:	http://www.sensitech.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	0.00
Maximum logging intervals (mins)	120.00	**Sensor type(s)**	Digital Temperature sensor
Maximum sensor lead length (metres)	0.00	**Maximum number of sensor channels**	1.00
External dimensions height (mm)	12.50	**External dimensions length (mm)**	108.00
External dimensions width (mm)	50.00	**Activation mechanism**	Start button
Material	ABS	**Fixing mechanism**	Adhesive
CE marking	Yes	**Minimum working temperature (°C)**	-30.00
Maximum working temperature (°C)	70.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	3 V coin cell lithium battery	**Battery shelf life (year)**	1 year
Activated battery life	12 months	**Alarm type**	Visual
Memory size (Mb)	0.0160000000	**Memory capacity (readings)**	16000.00
Programmability	User Programed	**User interface**	LCD
Display medium	LCD	**Recording medium**	Electronic
Ingress protection rating IP	IP64		

PRICE AND SHIPPING

Shipping volume (m3)	0.0044	**Weight per Package (Kg)**	0.0510
Units per package	20.00	**Weight per Unit (Kg)**	1.0000
Minimum order	20.00	**Incoterms**	EXW
Price 1	(20-100 units): $ 40.00	**Price 2**	(101-500): $38.00
Price 3	501 - 1000 units: $36.00	**Year of base price**	2017

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: PQS/E006/TR05.1 Applicable PQS VP(s): E006/TR05-VP.1

PRODUCT SITES

Organization name	Sensitech Inc.
Address	A Business Unit of Carrier Corporation, Suite 258X, 800 Cummings Center. Beverly, MA 01915 United States United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**DeltaTrak Model 40527**
IMD-PQS Code:	E006-047
Status:	Prequalified
Date of acceptance:	12 Aug 2017
Appliance type:	E006
Product description:	User programmable temperature data logger
Manufacturer:	DeltaTrak Inc.
Manufacturers Reference:	DeltaTrak Model 40527
Country of Manufacture:	United States of America
Address:	1236 Doker Drive 95351 Modesto United States of America
Telephone:	+1 925 2492250
Email:	khadley@deltatrak.com
Website address:	http://www.deltatrak.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	0.00
Maximum logging intervals (mins)	1080.00	**Sensor type(s)**	Thermistor in 5 ml PETG* Sterile Bottle
Maximum sensor lead length (metres)	3.00	**Maximum number of sensor channels**	1.00
External dimensions height (mm)	24.00	**External dimensions length (mm)**	40.00
External dimensions width (mm)	93.00	**Activation mechanism**	Stop and Start button.
Material	ABS Plastic	**Fixing mechanism**	None
CE marking	Yes	**Minimum working temperature (°C)**	-50.00
Maximum working temperature (°C)	40.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Two AAA lithium batteries,	**Battery shelf life (year)**	2 years
Activated battery life	24 months	**Alarm type**	Aucostic
Memory size (Mb)	0.0000320000	**Memory capacity (readings)**	32496.00
Programmability	Other	**Programmability (Other)**	Factory and user programmable
User interface	LCD + PC downloadable	**Display medium**	LCD
Recording medium	Electronic	**Ingress protection rating IP**	IP64

Comments	The FlashLink® Certified Vaccine USB PDF Data Logger is compatible with WHO and CDC guidelines for monitoring temperature conditions inside storage units where vaccines and other temperature sensitive liquid medicines are kept. This reusable data logger features a large, easy-to-read LCD and an external probe sealed in a 5ml glycol bottle. The glycol prevents false alarms by buffering the probe against sudden and expected temperature fluctuations during normal use, such as frequent door openings and cycling of the refrigerator or freezer. The glycol also emulates temperature changes experienced by most common fluids in storage, to give more accurate readings. The logger attaches to the outside of the storage door, while the sensor bottle is placed inside, allowing users to read current and minimum/maximum temperatures without opening the unit. A red LED alarm and low battery indicator are visible on the display, and the logger also features an audible alarm when out-of-range conditions occur. All loggers come standard with a glycol bottle, and are pre-configured to user requirements with alarms set either for refrigerator or freezer monitoring. DeltaTrak's in-house calibration laboratory is ISO 17025 accredited, and can provide a 2-year ISO 17025 Certificate of Calibration for an additional charge of $50 perfreezer monitoring. A 2-year ISO 17025 Certificate of Calibration is available for each unit. DeltaTrak's in-house calibration laboratory is ISO 17025 accredited. unit. Accuracy: (±0.5°C from -50°C to 25°C)

PRICE AND SHIPPING

Shipping volume (m3)	0.768	**Weight per Package (Kg)**	0.0907
Units per package	1.00	**Weight per Unit (Kg)**	0.0910
Minimum order	1.00	**Incoterms**	FOB
Price 1	pricing upon request	**Year of base price**	2017

QUALITY STANDARD

Quality Standard	ISO 17025;Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E006/TR05.1 Applicable PQS VP(s): E006/TR05.VP.1		

PRODUCT SITES

Organization name	DeltaTrak Inc.
Address	1236 Doker Drive 95351 Modesto United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Blulog**
IMD-PQS Code:	E006-048
Status:	Prequalified
Date of acceptance:	04 Sep 2018
Appliance type:	E006
Product description:	Remote Temperature Monitoring Device
Manufacturer:	Blulog Sp. z o.o
Manufacturers Reference:	Blulog
Country of Manufacture:	Poland
Address:	Konarzewska 4 60-101 Poznan Poland
Telephone:	+48606641176
Email:	robert.neumann@blulog.eu
Website address:	http://blulog.eu/en/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	120.00	**Sensor type(s)**	Digital Temperature sensor
Maximum sensor lead length (metres)	3.00	**Maximum number of sensor channels**	2.00
External dimensions height (mm)	5.00	**External dimensions length (mm)**	85.00
External dimensions width (mm)	55.00	**Activation mechanism**	Press buttons
Material	metal, plastic	**Fixing mechanism**	Adhesive
CE marking	Yes	**Minimum working temperature (°C)**	-40.00
Maximum working temperature (°C)	60.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Lithium non-replaceable	**Battery shelf life (year)**	3 years
Activated battery life	3 years	**Alarm type**	Visual
Memory size (Mb)	0.0000080000	**Memory capacity (readings)**	5000.00
Programmability	Other	**Programmability (Other)**	temperature treshold, alert delay, start delay, measurement interval, alert sending
User interface	Web application, Adroid application, windows softw	**Display medium**	Lenovo Tablet
Recording medium	Electronic	**Ingress protection rating IP**	IP 67

PRICE AND SHIPPING

Shipping volume (m3)	0.005	**Weight per Package (Kg)**	0.0300
Units per package	5.00	**Weight per Unit (Kg)**	1.7000
Minimum order	5.00	**Incoterms**	EXW
Price 1	1-50 units: 210USD / Tablet + USB hub + holder	**Price 2**	50-500 units: 200USD / Tablet + USB hub + holder
Price 3	500 - 1000 units: 190USD / Tablet + USB hub + hold	**Year of base price**	2018

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008
Specification Reference	Applicable PQS specification: E006/TR03.2 Applicable PQS VP(s): E006/TR03-VP.2		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	EN 12830		

PRODUCT SITES

Organization name	Blulog Sp. z o.o
Address	Konarzewska 4 60-101 Poznan Poland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**HEATmarker® VVM 30**
IMD-PQS Code:	E006-050
Status:	Prequalified
Date of acceptance:	24 Mar 2007
Appliance type:	E006
Product description:	Vaccine Vial Monitor Type 30
Manufacturer:	Temptime Corporation, A Zebra Technologies Company
Manufacturers Reference:	HEATmarker® VVM 30
Address:	116 American Road, Morris Plains, NJ, 07950, United States United States of America
Telephone:	+1 973 630 6000
Email:	rorie.doty@zebra.com
Website address:	www.zebra.com/tempmonitoring
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Chemical	**Activation mechanism**	Always active
Fixing mechanism	Adhesive	**CE marking**	Yes
Time to endpoint at 37°C (days)	30.00	**Time to endpoint at 25°C (days)**	193.00
Time to endpoint at 5°C (days)	1460.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Passive device	**Battery type**	N/A
Alarm type	Visual	**Programmability**	Factory Programmed
Display medium	Color change	**Recording medium**	Not applicable

Comments	Full labels (typically white or clear liner) and dots (typically brown or clear liner) are made on lightweight litho/paper/film facestock offering exceptional printability and flexibility. The service temperature range for the adhesive is typically -40°F to 160°F, or wider. Liner (can either be PET or coated paper) is designed for high speed roll-to-roll and label dispensing applications. A clear film-based over-laminate is used for dots (brown liner) for added stability and protection. Custom solutions including a combination of approved litho/paper/film substrate and over-laminate (if applicable) are available upon request" Verification laboratory: Intertek UK, formerly WHO accredited

PRICE AND SHIPPING

Incoterms	EXW	**Year of base price**	2007

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/IN.05.1 Applicable PQS VP(s): E006/IN.05 VP.1		

PRODUCT SITES

Organization name	Temptime Corporation, A Zebra Technologies Company
Address	116 American Road, Morris Plains, NJ, 07950, United States United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices





Product name:	**HEATmarker®VVM 7**
IMD-PQS Code:	E006-051
Status:	Prequalified
Date of acceptance:	10 Aug 2007
Appliance type:	E006
Product description:	Vaccine Vial Monitor Type 7
Manufacturer:	Temptime Corporation, A Zebra Technologies Company
Manufacturers Reference:	HEATmarker®VVM 7
Country of Manufacture:	United States of America
Address:	116 American Road, Morris Plains, NJ, 07950, United States United States of America
Telephone:	+1 973 630 6000
Email:	rorie.doty@zebra.com
Website address:	www.zebra.com/tempmonitoring
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Chemical	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	0.00	**Activation mechanism**	Always active
Fixing mechanism	Adhesive	**CE marking**	Yes
Time to endpoint at 37°C (days)	7.00	**Time to endpoint at 25°C (days)**	45.00
Time to endpoint at 5°C (days)	730.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Passive device	**Battery type**	N/A
Alarm type	NA	**User interface**	Device itself
Display medium	Color change	**Recording medium**	Not applicable

Comments	Full labels (typically white or clear liner) and dots (typically brown or clear liner) are made on lightweight litho/paper/film facestock offering exceptional printability and flexibility. The service temperature range for the adhesive is typically -40°F to 160°F, or wider. Liner (can either be PET or coated paper) is designed for high-speed roll-to-roll and label dispensing applications. A clear film-based over-laminate is used for dots (brown liner) for added stability and protection. Custom solutions including a combination of approved litho/paper/film substrate and over-laminate (if applicable) are available upon request" Accreditation laboratory: Lisaline Lifescience Technologies, WHO accreditation forthcoming

PRICE AND SHIPPING

Incoterms	EXW	**Year of base price**	2007

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/IN.05.1 Applicable PQS VP(s): E006/IN.05 VP.1		

VERIFICATION

Verification Laboratory	0013X00004MI8OIQAJ	**Verification Report Reference**	LLTPL/TL/2018-01/01

PRODUCT SITES

Organization name	Temptime Corporation, A Zebra Technologies Company
Address	116 American Road, Morris Plains, NJ, 07950, United States United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices





Product name:	**HEATmarker® VVM 11**
IMD-PQS Code:	E006-052
Status:	Prequalified
Date of acceptance:	19 Jun 2018
Appliance type:	E006
Product description:	Vaccine Vial Monitor Type 11
Manufacturer:	Temptime Corporation, A Zebra Technologies Company
Manufacturers Reference:	HEATmarker® VVM 11
Country of Manufacture:	United States of America
Address:	116 American Road, Morris Plains, NJ, 07950, United States United States of America
Telephone:	+1 973 630 6000
Email:	rorie.doty@zebra.com
Website address:	www.zebra.com/tempmonitoring
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Chemical	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	0.00	**Activation mechanism**	Always active
Fixing mechanism	None	**CE marking**	Yes
Time to endpoint at 37°C (days)	11.00	**Time to endpoint at 25°C (days)**	71.00
Time to endpoint at 5°C (days)	730.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Passive device	**Battery type**	N/A
Alarm type	NA	**Recording medium**	Not applicable

Comments	Full labels (typically white or clear liner) and dots (typically brown or clear liner) are made on lightweight litho/paper/film facestock offering exceptional printability and flexibility. The service temperature range for the adhesive is typically -40°F to 160°F, or wider. Liner (can either be PET or coated paper) is designed for high-speed roll- to-roll and label dispensing applications. A clear film-based over-laminate is used for dots (brown liner) for added stability and protection. Custom solutions including a combination of approved litho/paper/film substrate and over-laminate (if applicable) are available upon request

PRICE AND SHIPPING

Incoterms	EXW	**Price 1**	On request to manufacturer
Year of base price	2007		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/IN.05.1 Applicable PQS VP(s): E006/IN.05 VP.1		

VERIFICATION

Verification Laboratory	0013X00004Ml8OlQAJ

PRODUCT SITES

Organization name	Temptime Corporation, A Zebra Technologies Company

Address	116 American Road, Morris Plains, NJ, 07950, United States United States of America		
Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**HEATmarker@ VVM 14**
IMD-PQS Code:	E006-054
Status:	Prequalified
Date of acceptance:	15 Jun 2018
Appliance type:	E006
Product description:	Vaccine Vial Monitor Type 14
Manufacturer:	Temptime Corporation, A Zebra Technologies Company
Manufacturers Reference:	HEATmarker@ VVM 14
Country of Manufacture:	United States of America
Address:	116 American Road, Morris Plains, NJ, 07950, United States United States of America
Telephone:	+1 973 630 6000
Email:	rorie.doty@zebra.com
Website address:	www.zebra.com/tempmonitoring
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Chemical	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	0.00	**Activation mechanism**	Always active
Fixing mechanism	Adhesive	**CE marking**	Yes
Time to endpoint at 37°C (days)	14.00	**Time to endpoint at 25°C (days)**	90.00
Time to endpoint at 5°C (days)	1095.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Passive device	**Battery type**	N/A
Alarm type	NA	**User interface**	device itself
Display medium	Color change	**Recording medium**	Not applicable

Comments	Full labels (typically white of clear liner) and dots (typically brown or clear liner) are made on lightweight litho/paper/film facestock offering exceptional printability and flexibility. The service temperature range for the adhesive is typically -40°F to 160°F, or wider. Liner (can either be PET or coated paper) is designed for high-speed roll-to-roll and label dispensing applications. A clear film-based over-laminate is used for dots (brown liner) for added stability and protection. This laminate is not intended to print on. Custom solutions, including a combination of approved litho/paper/film substrate and overlaminate (if applicable) are available upon request. Verification laboratory: Intertek UK, formerly WHO accredited.

PRICE AND SHIPPING

Minimum order	500000.00	**Incoterms**	EXW
Price 1	On request to manufacturer	**Year of base price**	2007

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: PQS/E006/IN05.3 Applicable PQS VP(s):		

VERIFICATION

Verification Report Reference	A65115

PRODUCT SITES

Organization name	Temptime Corporation, A Zebra Technologies Company
Address	116 American Road, Morris Plains, NJ, 07950, United States United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**LIMITmarker ® I-K**
IMD-PQS Code:	E006-057
Status:	Prequalified
Date of acceptance:	27 Mar 2019
Appliance type:	E006
Product description:	Threshold Indicator40
Manufacturer:	Temptime Corporation, A Zebra Technologies Company
Manufacturers Reference:	LIMITmarker ® I-K
Country of Manufacture:	United States of America
Address:	116 American Road, Morris Plains, NJ, 07950, United States United States of America
Telephone:	+1 973 630 6000
Email:	rorie.doty@zebra.com
Website address:	www.zebra.com/tempmonitoring
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Chemical	**Fixing mechanism**	None
CE marking	Yes		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Alarm type	NA	**Recording medium**	Not applicable

Comments	* LIMITmarker I-K Threshold Indicator is a single-use self-adhesive indicator that contains an active surface that signals by an irreversible color change from light to dark when the threshold temperature has been exceeded. LIMITmarker I-K Indicator dots (typically on a clear liner) are made on film facestock. The service temperature range for the adhesive is typically -40°C to 93°C. Liner PET is designed for high speed roll-to-roll and label dispensing applications. Standard Label Size: 10.5 mm dot (circle) Indicators per Roll: 10,000 (standard)

PRICE AND SHIPPING

Minimum order	50000.00	**Incoterms**	EXW
Price 1	On request to manufacturer	**Year of base price**	2019

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: PQS/E006/IN04.1 Applicable PQS VP(s): E006/IN04-VP.1		

VERIFICATION

Verification Report Reference	LLTPL/TL/2018-03

PRODUCT SITES

Organization name	Temptime Corporation, A Zebra Technologies Company
Address	116 American Road, Morris Plains, NJ, 07950, United States United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices





Product name:	**HEATmarker® VVM 250**
IMD-PQS Code:	E006-058
Status:	Prequalified
Date of acceptance:	27 Mar 2019
Appliance type:	E006
Product description:	Vaccine Vial Monitor Type 250
Manufacturer:	Temptime Corporation, A Zebra Technologies Company
Manufacturers Reference:	HEATmarker® VVM 250
Country of Manufacture:	United States of America
Address:	116 American Road, Morris Plains, NJ, 07950, United States United States of America
Telephone:	+1 973 630 6000
Email:	rorie.doty@zebra.com
Website address:	www.zebra.com/tempmonitoring
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Chemical	**Fixing mechanism**	None
CE marking	Yes	**Time to endpoint at 37°C (days)**	250.00
Time to endpoint at 25°C (days)	900.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Passive device	**Alarm type**	NA
Display medium	Color change	**Recording medium**	Not applicable

Comments	Title: Vaccine Vial Monitor Type 250 Dots (*on clear or brown liner) are made on film facestock. The service temperature range for the adhesive is typically -40°F to 200°F, or wider. Liner PET is designed for high speed roll-to-roll and label dispensing applications. Custom solutions including a combination of approved litho/paper/film substrate and over-laminate (if applicable) are available upon request. Note: - Time to endpoint at 25°C (days): > 900 days - Time to endpoint - VVM (Arrhenius) reaction rates determined at 55°C and 45°C; the values are approximate External dimensions (cm): 0

PRICE AND SHIPPING

Minimum order	50000.00	**Incoterms**	EXW
Year of base price	2019		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/IN05.3 Applicable PQS VP(s): E003/IN05-VP.3		

VERIFICATION

Verification Laboratory	0013X00004MI8OlQAJ	**Verification Report Reference**	LLTPL/TL/2018-02

PRODUCT SITES

Organization name	Temptime Corporation, A Zebra Technologies Company
Address	116 American Road, Morris Plains, NJ, 07950, United States United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**HEATmarker® VVM+250**
IMD-PQS Code:	E006-059
Status:	Prequalified
Date of acceptance:	28 Mar 2019
Appliance type:	E006
Product description:	Combined VVM250 and Threshold Indicator40
Manufacturer:	Temptime Corporation, A Zebra Technologies Company
Manufacturers Reference:	HEATmarker® VVM+250
Country of Manufacture:	United States of America
Address:	116 American Road, Morris Plains, NJ, 07950, United States United States of America
Telephone:	+1 973 630 6000
Email:	rorie.doty@zebra.com
Website address:	www.zebra.com/tempmonitoring
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Chemical	**Fixing mechanism**	None
CE marking	Yes	**Time to endpoint at 37°C (days)**	250.00
Time to endpoint at 25°C (days)	900.00	**Time to endpoint at 5°C (days)**	10000.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Passive device	**Alarm type**	NA
Display medium	Color change	**Recording medium**	Not applicable

Comments	The VVM+ Indicator is a single-use, self-adhesive combined indicator that contains an active surface that signals by an irreversible color change from light to dark when either the defined threshold temperature profile has been exceeded or the cumulative heat exposure have been exceeded. Dots (on a clear liner) are made on film facestock. The service temperature range for the adhesive is typically -40°F to 200°F, or wider. Liner PET is designed for high speed roll-to-roll and label dispensing applications. Standard Label Size: 10.5 mm dot (circle) Indicators per Roll: 10,000 (standard)

PRICE AND SHIPPING

Minimum order	50000.00	**Incoterms**	EXW
Price 1	On request to manufacturer		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: PQS/E006/IN06.1 Applicable PQS VP(s): E006/IN06-VP.1		

VERIFICATION

Verification Laboratory	0013X00004MI8OlQAJ	**Verification Report Reference**	LLTPL/TL/2018-02 LLTPL/TL/2018-03

PRODUCT SITES

Organization name	Temptime Corporation, A Zebra Technologies Company
Address	116 American Road, Morris Plains, NJ, 07950, United States United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Haier U-Cool**
IMD-PQS Code:	E006-060
Status:	Prequalified
Date of acceptance:	07 Oct 2019
Appliance type:	E006
Product description:	Remote Temperature Monitoring Device
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	Haier U-Cool
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum recording time (days)	30.00	**Sensor type(s)**	NTC/PT100
Maximum sensor lead length (metres)	3.00	**Maximum number of sensor channels**	2.00
External dimensions height (mm)	22.00	**External dimensions length (mm)**	115.00
External dimensions width (mm)	72.00	**Activation mechanism**	Remotley online
Material	ABS PLASTIC	**Fixing mechanism**	Screws
CE marking	Yes	**Minimum working temperature (°C)**	-40.00
Maximum working temperature (°C)	65.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Replaceable battery
Battery type	Li-ion	**Battery shelf life (year)**	2 years
Activated battery life	36 months	**Alarm type**	Aucostic
Memory capacity (readings)	260000.00	**Programmability**	User Programed
User interface	LCD screen	**Display medium**	LCD
Recording medium	Not applicable	**Ingress protection rating IP**	IP66

Comments	"Haier U-COOL Remote Temperature Monitoring Device, providing on-time on-line temperature data monotoring, and the alarms can be received via audio, visial, SMS, WEB and e-mail. In case of no internet, 30 days temperature data can be store locally and can be downloaded to the computer. The device can transfer the data via GPRS and SIM card from local to the cloud. The price include the hardware and service charges(SIM card and portal service)."

PRICE AND SHIPPING

Weight per Package (Kg)	0.2000	**Year of base price**	2019

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2008

Specification Reference	Applicable PQS specification: E006/TR03.2 Applicable PQS VP(s): E006/TR03-VP.2

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**VM1000**
IMD-PQS Code:	E006-061
Status:	Prequalified
Date of acceptance:	31 Jul 2019
Appliance type:	E006
Product description:	Remote Temperature Monitoring Device
Manufacturer:	My fridge online (IKHAYA Automation systems)
Manufacturers Reference:	VM1000
Country of Manufacture:	South Africa
Address:	I33 Torwood Drive Hayfields 3201 Pietermaritzburg South Africa
Telephone:	+27 0861 111 105
Email:	praba@myfridgeonline.com
Website address:	www.mfol.co.za
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	1440.00	**Maximum recording time (days)**	90.00
Sensor type(s)	digital	**Maximum sensor lead length (metres)**	80.00
Maximum number of sensor channels	4.00	**External dimensions height (mm)**	50.00
External dimensions length (mm)	135.00	**External dimensions width (mm)**	100.00
Activation mechanism	Factory or user	**Material**	ABS PLASTIC
Fixing mechanism	None	**CE marking**	Yes
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	55.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Mains+Battery
Battery type	Li-ion	**Battery shelf life (year)**	3 YEARS
Activated battery life	36 months	**Alarm type**	NA
Memory capacity (readings)	14000.00	**Programmability**	Other
Programmability (Other)	Factory or online configurable	**User interface**	Web based + LCD
Display medium	LCD or any internet enabled device	**Recording medium**	Not applicable
Ingress protection rating IP	IP54		

Comments	Ikhaya Automation Systems provides a plug and play Remote Temperature Monitoring Solution (RTMS) which is used to monitor Fridges, Freezers, Cold Chain Logistics, Incubators, Cryo's and any other temperature sensitive environment. A RTMS kit comes standard with: 1 x VM 1000 (RTMS) 1 x Digital Temperature Probe 1 x Internal Temperature and Humidity Sensor 1 x GPS location monitoring 2 x Internal Lithium Ion Batteries 1 x 2 Pin universal power adaptor 1 x Door Sensor 2 x Velcro Strips We offer flexibility such as: 1. We could provide a universal sim card that suits your specific requirements or you could provide your own local sim card. 2. Interactive Display - past and present alarms can be viewed by interactive LCD display or web platform 3. The standard VM1000 can accept 4 digital probes while the radio version VM1000R can accept 4 wired and 4 wireless probes 4. The wireless probes can do Temperature and Humidity, Pulse counting or take in a 4-20mA input The RTMS can be configured into 2 states: Option 1 Local SMS capable standalone data logger which can download the data via USB using an intelligent user friendly PC application and alert multiple users in the event of an excursion. An SD Card will be supplied with the unit at an extra cost and the PC application will be provided free of charge to be utilize of any windows computer. No yearly fee is required for this option. Option 2 Real-time monitoring system with interactive web service consisting of Dashboard, Reports, Alerts and Graphs, remote viewing of current status. Alerts can be set up on all variables being monitored by the VM1000; to mention a few Temperature, Humidity, Door Status, Power Failure and etc. These alerts can be customized by device and variable name together with thresholds and specific duration periods. The alerts are Audible, SMS, Email or a combination of each/all. SMS's alerts are generated from the device itself which eliminates the use of any 3rd party sms providers. Our dashboard is color coded depicting the status of the variable being measured while our graphing service allows you to Zoom, pan, print or save. Automated reports are generated daily, weekly, monthly or over a customized period using our playback option. This includes: 1. Detailed summary of variables with a graph 2. Logs for the pre-defined period 3. Exceptions for variables that have exceeded their threshold 4. Alarm history for alerts that have been dispatched to it recipients Pricing Standard RTMS kit for a quantity of 1-49 units = $250 at an annual service fee of $240 using our international sim card or $156 your own sim card

PRICE AND SHIPPING

Shipping volume (m3)	0.003	**Weight per Package (Kg)**	0.4500
Units per package	1.00	**Weight per Unit (Kg)**	0.7000
Minimum order	1.00	**Incoterms**	EXW
Price 1	$250: 1 -49 units	**Price 2**	$225: 50 - 99 units
Price 3	$202: >100 units	**Year of base price**	2019

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: PQS/E006/TR03.2 Applicable PQS VP(s): E006/TR03-VP.2		

PRODUCT SITES

Organization name	My fridge online (IKHAYA Automation systems)
Address	33 Torwood Drive Hayfields 3201 Pietermaritzburg South Africa

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Endicate Freeze**
IMD-PQS Code:	E006-062
Status:	Prequalified
Date of acceptance:	30 Sep 2019
Appliance type:	E006
Product description:	Electronic Freeze Indicator
Manufacturer:	American Thermal Instruments
Manufacturers Reference:	Endicate Freeze
Country of Manufacture:	Switzerland
Address:	2400 E River Road, Dayton, OH 45439 United States of America
Telephone:	+1 937 429 2114
Email:	orders@americanthermal.com
Website address:	www.americanthermal.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Chemical	**Minimum logging intervals (mins)**	1.00
External dimensions height (mm)	8.00	**External dimensions length (mm)**	45.00
External dimensions width (mm)	45.00	**Fixing mechanism**	None
CE marking	Yes	**Minimum working temperature (°C)**	-20.00
Maximum working temperature (°C)	70.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Passive device
Battery type	CR2025	**Battery shelf life (year)**	2 years
Activated battery life	2 months	**Alarm type**	Visual
Programmability	Factory Programmed	**User interface**	LCD
Display medium	LCD	**Recording medium**	Not applicable
Ingress protection rating IP	IP64		

Comments	Typr freezer device -0.5°C for 1 hour

PRICE AND SHIPPING

Weight per Package (Kg)	0.0150	**Minimum order**	10.00
Price 1	EUR 20	**Year of base price**	2024

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

PRODUCT SITES

Organization name	American Thermal Instruments
Address	2400 E River Road, Dayton, OH 45439 United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Endicate Type 1**
IMD-PQS Code:	E006-063
Status:	Prequalified
Date of acceptance:	30 Sep 2019
Appliance type:	E006
Product description:	Electronic Shipping Indicator Type 1
Manufacturer:	American Thermal Instruments
Manufacturers Reference:	Endicate Type 1
Country of Manufacture:	Switzerland
Address:	2400 E River Road, Dayton, OH 45439 United States of America
Telephone:	+1 937 429 2114
Email:	orders@americanthermal.com
Website address:	www.americanthermal.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
External dimensions height (mm)	8.00	**External dimensions length (mm)**	45.00
External dimensions width (mm)	45.00	**Material**	Plastic
Fixing mechanism	None	**CE marking**	Yes
Minimum working temperature (°C)	-20.00	**Maximum working temperature (°C)**	70.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Passive device
Battery type	CR2025	**Battery shelf life (year)**	2 years
Activated battery life	2 months	**Alarm type**	Visual
User interface	LCD	**Display medium**	LCD
Recording medium	Not applicable	**Ingress protection rating IP**	64

Comments	TYPE 1 DEVICE: >45°C FOR 1 HOUR >30°C FOR 10 HOURS

PRICE AND SHIPPING

Weight per Package (Kg)	0.0150	**Minimum order**	10.00
Price 1	20 $USD	**Year of base price**	2024

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

PRODUCT SITES

Organization name	American Thermal Instruments
Address	2400 E River Road, Dayton, OH 45439 United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Endicate Type 2**
IMD-PQS Code:	E006-064
Status:	Prequalified
Date of acceptance:	30 Sep 2019
Appliance type:	E006
Product description:	Electronic Shipping Indicator Type 2
Manufacturer:	American Thermal Instruments
Manufacturers Reference:	Endicate Type 2
Address:	2400 E River Road, Dayton, OH 45439 United States of America
Telephone:	+1 937 429 2114
Email:	orders@americanthermal.com
Website address:	www.americanthermal.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Sensor type(s)	Thermistor	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	1.00	**External dimensions height (mm)**	8.00
External dimensions length (mm)	44.00	**External dimensions width (mm)**	44.00
Activation mechanism	button	**Material**	Plastic
Fixing mechanism	None	**CE marking**	Yes
Minimum working temperature (°C)	-20.00	**Maximum working temperature (°C)**	70.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Passive device
Battery type	CR 2025	**Battery shelf life (year)**	2 years
Activated battery life	2 months	**Alarm type**	Visual
User interface	LCD screen	**Display medium**	LCD
Recording medium	Not applicable	**Ingress protection rating IP**	64

Comments	Type 2 device > 45°C for 1 hour, > 30°C for 10 hours, >10°C for 20 hours

PRICE AND SHIPPING

Weight per Package (Kg)	0.0150	**Price 1**	20 $USD
Year of base price	2024		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

PRODUCT SITES

Organization name	American Thermal Instruments
Address	2400 E River Road, Dayton, OH 45439 United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**BT360**
IMD-PQS Code:	E006-065
Status:	Prequalified
Date of acceptance:	30 Sep 2019
Appliance type:	E006
Product description:	User Programable data logger
Manufacturer:	American Thermal Instruments
Manufacturers Reference:	BT360
Country of Manufacture:	United States of America
Address:	2400 E River Road, Dayton, OH 45439 United States of America
Telephone:	+1 937 429 2114
Email:	orders@americanthermal.com
Website address:	www.americanthermal.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Sensor type(s)	digital	**External dimensions height (mm)**	25.00
External dimensions length (mm)	49.00	**External dimensions width (mm)**	70.00
Material	PLASTIC	**Fixing mechanism**	None
CE marking	Yes	**Minimum working temperature (°C)**	-20.00
Maximum working temperature (°C)	70.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	LITHIUM COIN CELL	**Battery shelf life (year)**	1 YEARS
Activated battery life	UPTO 1 YEAR	**Alarm type**	Visual
Memory size (Mb)	0.0320000000	**Programmability**	Other
Programmability (Other)	Manufacturer OR User	**User interface**	LCD
Display medium	LCD	**Recording medium**	Electronic
Ingress protection rating IP	IP67		

Comments	Memory size: 32,000 Shipping volume per package (m3): 50 CM3 External dimensions (cm): 49 x 70 x 25 mm

PRICE AND SHIPPING

Shipping volume (m3)	50.0	**Units per package**	10.00
Weight per Unit (Kg)	29.0000	**Minimum order**	10.00
Price 1	125 $USD	**Year of base price**	2024

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

PRODUCT SITES

Organization name	American Thermal Instruments
Address	2400 E River Road, Dayton, OH 45439 United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**FREEZEmarker® L**
IMD-PQS Code:	E006-067
Status:	Prequalified
Date of acceptance:	08 May 2020
Appliance type:	E006
Product description:	Chemical Freeze Indicator
Manufacturer:	Temptime Corporation, A Zebra Technologies Company
Manufacturers Reference:	FREEZEmarker® L
Country of Manufacture:	United States of America
Address:	116 American Road, Morris Plains, NJ, 07950, United States United States of America
Telephone:	+1 973 630 6000
Email:	rorie.doty@zebra.com
Website address:	www.zebra.com/tempmonitoring
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Chemical	**External dimensions height (mm)**	20.00
External dimensions width (mm)	29.00	**Fixing mechanism**	Adhesive
CE marking	Yes		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Passive device	**Alarm type**	NA
Display medium	Color Change Indicator	**Recording medium**	Not applicable

Comments

The FREEZEmarker® Indicator is designed as a single-use self-adhesive indicator that provides an easy-to-read visual signal when there has been exposure to a freeze event. They can be ordered on rolls for label dispensing applications, or on a backing card. The TransTracker® backing card is an example of a single-use unit for monitoring temperature during transportation or short-term storage. The visible surface of the freeze indicator contains an area of color-changing liquid encapsulated in a blister. The FREEZEmarker varies in appearance: Before a Freeze Event, it is a clear liquid covering a green circle with a white checkmark inside the circle; at the Endpoint after a Freeze Event, the liquid will partially or completely change to appear white opaque/cloudy inside the blister. If uncertain whether the Endpoint has been reached, press the Active Zone with your fingertips to evenly distribute the white particles. The surface to which the FREEZEmarker will be applied (carton, card, glass, etc.) must be above 2°C (35.6°F). Standard backing cards with an indicator applied are 86 mm x 54 mm and provided in boxes of 200. Specification: -0.5°C ± 1°C, 60 minutes (maximum) Minimum order: 1 roll Indicators per Roll: 1,000 (standard)

PRICE AND SHIPPING

Minimum order	1.00	**Price 1**	On request to manufacturer

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: PQS/E006/IN07.1 Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	0013X00004Ml8OlQAJ	**Verification Report Reference**	LLTPL/TL/2019-02

PRODUCT SITES

Organization name	Temptime Corporation, A Zebra Technologies Company
Address	116 American Road, Morris Plains, NJ, 07950, United States United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Trek Pro**
IMD-PQS Code:	E006-069
Status:	Prequalified
Date of acceptance:	28 Sep 2020
Appliance type:	E006
Product description:	User Programable data logger
Manufacturer:	e-Health Africa (eHA - formerly Parsyl Inc.)
Manufacturers Reference:	Trek Pro
Country of Manufacture:	China
Address:	4-6 Independence Road, Kano Nigeria
Telephone:	+66 2420-2888
Email:	ssawadogo@parsyl.com
Website address:	https://forth-ems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	0.00
Maximum logging intervals (mins)	360.00	**Maximum recording time (days)**	1095.00
Sensor type(s)	Internal sensor	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	0.00	**External dimensions height (mm)**	99.80
External dimensions length (mm)	201.00	**External dimensions width (mm)**	38.10
Activation mechanism	Physical switch, software	**Material**	Polycarbonate + ABS
Fixing mechanism	Screws	**CE marking**	Yes
Minimum working temperature (°C)	-40.00	**Maximum working temperature (°C)**	70.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.10	**Power source**	Non-replaceable battery
Battery type	3V LiFeS2	**Battery shelf life (year)**	10 years
Activated battery life	36 months	**Alarm type**	Aucostic
Memory capacity (readings)	500000.00	**Programmability**	User Programed
User interface	Switch, button, LEDs, audible alarms, mobile app	**Display medium**	LEDs
Recording medium	Electronic	**Ingress protection rating IP**	IP67

Comments	Maximum recording time (days): 1095 (10 minute intervals)

PRICE AND SHIPPING

Shipping volume (m3)	0.02	**Weight per Package (Kg)**	0.0650
Units per package	80.00	**Weight per Unit (Kg)**	5.2000
Minimum order	80.00	**Incoterms**	EXW
Price 1	pricing upon request	**Year of base price**	2020

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015

Specification Reference	Applicable PQS specification: PQS/E006/TR05.1 Applicable PQS VP(s): E006/TR05.1

PRODUCT SITES

Organization name	e-Health Africa (eHA - formerly Parsyl Inc.)
Address	4-6 Independence Road, Kano Nigeria

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**USRID-16WC and USRID-16WA/B**
IMD-PQS Code:	E006-070
Status:	Prequalified
Date of acceptance:	10 Jan 2020
Appliance type:	E006
Product description:	40 day Electronic Shipping Indicator
Manufacturer:	LogTag North America Inc.
Manufacturers Reference:	USRID-16WC and USRID-16WA/B
Country of Manufacture:	Vietnam
Address:	TongFuYu Industrial Zone, Block NO.8, Jinghong Road, Shajing Town, Baoan 518117 ShenZhen, GuangDong China
Telephone:	+64 9 448 2311
Email:	sales@logtagrecorders.com
Website address:	www.logtagrecorders.com
Valid until:	31 May 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	5.00
Maximum logging intervals (mins)	5.00	**Maximum recording time (days)**	40.00
Sensor type(s)	Thermistor	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	1.00	**External dimensions height (mm)**	8.60
External dimensions length (mm)	93.00	**External dimensions width (mm)**	54.50
Activation mechanism	button	**Material**	Polycarbonate with Lexan label
Fixing mechanism	Adhesive	**CE marking**	Yes
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	70.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Non-replaceable battery	**Battery type**	3V LiMnO2 Button cell
Battery shelf life (year)	18 Months	**Activated battery life**	7 months
Alarm type	Visual	**Memory capacity (readings)**	5760.00
Programmability	Factory Programmed	**User interface**	LCD screen
Display medium	LCD	**Recording medium**	Electronic
Ingress protection rating IP	IP64		

Comments	"The LogTag USRID-16W is an irreversible electronic temperature indicator and recorder for use in monitoring temperature in pharmaceutical transport applications of up to 40 days duration. Each model is factory pre-configured for a range of standard vaccines and provides a clear indication of the shipment's temperature alarm status at all times via the built-in display. The indicator can be started and stopped via push button, and alarms can be reviewed once the trip has been completed. A configurable PDF report with a trip and alarm summary, a chart and a data listing is available when plugged into any PC with a USB port and PDF reader software. Data can also be downloaded to LogTag Analyzer software for detailed analysis if required." Accuracy: Better than ±0.5 °C for -20 °C to +40 °C, better than ±0.7 °C outside this range

PRICE AND SHIPPING

Shipping volume (m3)	0.006	**Weight per Package (Kg)**	0.0390
Units per package	50.00	**Weight per Unit (Kg)**	2.3000

Minimum order	20.00	**Incoterms**	FOB
Price 1	$27.50 US for 20 - 99 pieces	**Year of base price**	2020

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: PQS/E006/TR07.3 Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com

PRODUCT SITES

Organization name	LogTag North America Inc.
Address	TongFuYu Industrial Zone, Block NO.8, Jinghong Road, Shajing Town, Baoan 518117 ShenZhen, GuangDong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices





Product name:	**HEATmarker® VVM1**
IMD-PQS Code:	E006-071
Status:	Prequalified
Date of acceptance:	01 Nov 2021
Appliance type:	E006
Product description:	Vaccine Vial Monitor Type 1
Manufacturer:	Temptime Corporation, A Zebra Technologies Company
Manufacturers Reference:	HEATmarker® VVM1
Country of Manufacture:	United States of America
Address:	116 American Road, Morris Plains, NJ, 07950, United States United States of America
Telephone:	+1 973 630 6000
Email:	rorie.doty@zebra.com
Website address:	www.zebra.com/tempmonitoring
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Chemical	**Activation mechanism**	Always active
Fixing mechanism	Adhesive	**CE marking**	Yes
Time to endpoint at 37°C (days)	1.00	**Time to endpoint at 5°C (days)**	100.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Passive device	**Alarm type**	NA
Memory size (Mb)	32.0000000000	**Display medium**	Color change
Recording medium	Not applicable		

Comments	Full labels (typically white or clear liner) and dots (typically brown or clear liner) are made on lightweight litho/paper/film facestock offering exceptional printability and flexibility. The service temperature range for the adhesive is typically -40°F to 160°F, or wider. Liner (can either be PET or coated paper) is designed for label dispensing applications. A clear film-based over-laminate is used for dots (brown liner) for added stability and protection. Custom solutions including a combination of approved litho/paper/film substrate and over-laminate (if applicable) are available upon request

PRICE AND SHIPPING

Minimum order	500000.00	**Incoterms**	EXW
Price 1	On request to manufacturer	**Year of base price**	2021

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/IN05.4 Applicable PQS VP(s): E006/IN05-VP.4		

VERIFICATION

Verification Laboratory	0013X00004Ml8OlQAJ	**Verification Report Reference**	LLTPL/2021/06-01

PRODUCT SITES

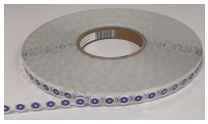
Organization name	Temptime Corporation, A Zebra Technologies Company
Address	116 American Road, Morris Plains, NJ, 07950, United States United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**HEATmarker® VVM+30**
IMD-PQS Code:	E006-072
Status:	Prequalified
Date of acceptance:	15 Jan 2021
Appliance type:	E006
Product description:	Combined VVM30 & Threshold Indicator40
Manufacturer:	Temptime Corporation, A Zebra Technologies Company
Manufacturers Reference:	HEATmarker® VVM+30
Country of Manufacture:	United States of America
Address:	116 American Road, Morris Plains, NJ, 07950, United States United States of America
Telephone:	+1 973 630 6000
Email:	rorie.doty@zebra.com
Website address:	www.zebra.com/tempmonitoring
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Chemical	**Fixing mechanism**	Adhesive
CE marking	Yes	**Time to endpoint at 37°C (days)**	30.00
Time to endpoint at 25°C (days)	193.00	**Time to endpoint at 5°C (days)**	1460.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Passive device	**Alarm type**	NA
Memory size (Mb)	16.1290000000	**Display medium**	Color change
Recording medium	Not applicable		

Comments	The VVM+ Indicator is a single-use, self-adhesive combined indicator that contains an active surface that signals by an irreversible color change from light to dark when either the defined threshold temperature profile has been exceeded or the cumulative heat exposure has been exceeded. Dots (on a clear liner) are made on film facestock. The service temperature range for the adhesive is typically -40°F to 200°F, or wider. Liner PET is designed for high speed roll-to-roll and label dispensing applications.

PRICE AND SHIPPING

Minimum order	50000.00	**Incoterms**	EXW
Year of base price	2021		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/IN06.1 Applicable PQS VP(s): E006/IN06 -VP.1		

VERIFICATION

Verification Laboratory	0013X00004MI8OIQAJ

PRODUCT SITES

Organization name	Temptime Corporation, A Zebra Technologies Company
Address	116 American Road, Morris Plains, NJ, 07950, United States United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**NT TEMPERATURE DATA LOGGER**
IMD-PQS Code:	E006-074
Status:	Prequalified
Date of acceptance:	02 Aug 2021
Appliance type:	E006
Product description:	USER PROGRAMMABLE DATA LOGGER
Manufacturer:	BPRO LABS PVT LTD
Manufacturers Reference:	NT TEMPERATURE DATA LOGGER
Country of Manufacture:	India
Address:	A1 Deju Plaza , No. 2 South Avenue, Srinagar Colony, Saidapet, Chennai TN-600 015, INDIA India
Telephone:	(+91) 44 79697741
Email:	prasath@bprolabs.com
Website address:	www.bprolabs.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	1440.00	**Maximum recording time (days)**	365.00
Sensor type(s)	ntc temperature sensor	**Maximum number of sensor channels**	1.00
External dimensions height (mm)	23.00	**External dimensions length (mm)**	97.00
External dimensions width (mm)	49.00	**Activation mechanism**	manual
Material	ABS	**Fixing mechanism**	Screws
CE marking	Yes	**Minimum working temperature (°C)**	-30.00
Maximum working temperature (°C)	70.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Other	**Power Source (Other)**	3.6V DC user replaceable Battery
Battery type	Li-SOCl2 Lithium	**Battery shelf life (year)**	2 years
Activated battery life	12-15 months	**Alarm type**	Visual
Memory capacity (readings)	32000.00	**Programmability**	User Programed
User interface	LCD DISPLAY	**Display medium**	LCD Display
Recording medium	Electronic	**Ingress protection rating IP**	IP54

Comments	User Replacable Battery, Shadow Logging Feature, Alarm Log Report etc. Accuracy: +/-0.5°C (-30°C to +50°C) and +/-1.0°C(+50°C - 70°C)

PRICE AND SHIPPING

Weight per Package (Kg)	0.0750	**Minimum order**	1.00
Incoterms	EXW	**Price 1**	$17 for MOQ of 100 Nos
Year of base price	2021		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015

Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	Techbio Solutions	**Address**	Module 18, 1st Floor, SIDCO Industrial Complex, SIDCO Industrial Estate, Thirumazhisai, Chennai, Tamilnadu – 600124 INDIAIndia
Telephone	+914426811025	**Email**	vikram@techbiosol.com

PRODUCT SITES

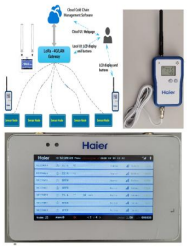
Organization name	BPRO LABS PVT LTD
Address	A1 Deju Plaza , No. 2 South Avenue, Srinagar Colony, Saidapet, Chennai TN-600 015, INDIA India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**U-COOL-LORA**
IMD-PQS Code:	E006-075
Status:	Prequalified
Date of acceptance:	02 Aug 2021
Appliance type:	E006
Product description:	Remote Temperature Monitoring Device
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	U-COOL-LORA
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	1440.00	**Maximum recording time (days)**	30.00
Sensor type(s)	temperature probe; Door On-off; Power Outage	**Maximum number of sensor channels**	1.00
External dimensions height (mm)	33.00	**External dimensions length (mm)**	160.00
External dimensions width (mm)	100.00	**Activation mechanism**	manual
Material	Gateway: Aluminium frame; Logger: ABS	**Fixing mechanism**	Adhesive
CE marking	Yes	**Minimum working temperature (°C)**	-40.00
Maximum working temperature (°C)	80.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Mains+Battery
Battery type	Lithium	**Battery shelf life (year)**	3 years
Activated battery life	36 months	**Alarm type**	Visual
User interface	LCD DISPLAY	**Display medium**	LCD Display
Recording medium	Electronic	**Ingress protection rating IP**	IP50

Comments

1X Gateway,4X Temperature sensor,1X Door On-off sensor,1X Power Outage sensor The whole system consists of repeaters and different collectors: Four Temperature collectors, One Power on-off collector, One Door open-close collector. The software fee includes annual subscription fees, portal access fee, SIM card startup fee. The collector sends the collected data to the repeater through LoRa(Long Range Radio) signal, and the repeater sends the data to the cloud platform through GPRS signal. A repeater can be automatically connected with about 60 collectors. Users do not need any settings for the hardware devices, and can operate after starting up. Users only need to set the alarm threshold, user information and device name on the cloud platform. Weight per package (Kg): 1X Gateway: 0.64Kg

PRICE AND SHIPPING

Shipping volume (m3)	0.023	**Weight per Package (Kg)**	0.6400

Units per package	1.00	**Weight per Unit (Kg)**	0.6400
Minimum order	1.00	**Incoterms**	FCA
Price 1	The software fee: 200 USD to 300 per year	**Price 2**	The hardware fee: 1350USD (1-50 units)
Price 3	The hardware fee: 1300USD (51-100 unit)	**Year of base price**	2021

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**UTRID-16**
IMD-PQS Code:	E006-076
Status:	Prequalified
Date of acceptance:	18 Mar 2021
Appliance type:	E006
Product description:	User programmable data logger
Manufacturer:	LogTag North America Inc.
Manufacturers Reference:	UTRID-16
Country of Manufacture:	Vietnam
Address:	TongFuYu Industrial Zone, Block NO.8, Jinghong Road, Shajing Town, Baoan 518117 ShenZhen, GuangDong China
Telephone:	+64 9 448 2311
Email:	sales@logtagrecorders.com
Website address:	www.logtagrecorders.com
Valid until:	31 May 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	1080.00	**Sensor type(s)**	Electronic Thermistor
Maximum number of sensor channels	1.00	**External dimensions height (mm)**	8.60
External dimensions length (mm)	93.00	**External dimensions width (mm)**	54.50
Activation mechanism	Start button, or start at configured date and time	**Material**	Polycarbonate
Fixing mechanism	Screws	**CE marking**	Yes
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	65.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Non-replaceable battery	**Battery type**	CR2450 3V Li-MnO2 UN38.3 approved coin cell
Battery shelf life (year)	12 months	**Activated battery life**	24 months
Alarm type	Visual	**Memory size (Mb)**	4.0000000000
Memory capacity (readings)	16129.00	**User interface**	USB / Display / Buttons
Display medium	LCD Display	**Recording medium**	EEPROM, non-volatile
Ingress protection rating IP	IP65		

Comments	LogTag's UTRID-16 is a fully configurable, multi-use USB PDF temperature recorder with a built-in display, that can create temperature reports without the need to install proprietary software or hardware at the destination. Select statistical data can be reviewed directly on the display without the need for a PC. The recorder can be configured using LogTag® Analyzer, and is then placed with the goods to be monitored. At the end of the trip, the UTRID-16 can be plugged straight into a computer's USB port and generates a PDF file, which can be accessed using PDF software such as Acrobat Reader. Accuracy: Better than ±0.5 °C for -20 °C to +40 °C, better than ±0.7 °C for -30 °C to -20 °C and +40 °C to +60

PRICE AND SHIPPING

Shipping volume (m3)	0.028	**Weight per Package (Kg)**	0.0390
Units per package	50.00	**Weight per Unit (Kg)**	2.3000
Minimum order	20.00	**Incoterms**	EXW

Price 1	48 USD	**Year of base price**	2021

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	TUV SUD PSB Pte Ltd	**Address**	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	**Email**	xin-pei.kee@tuvsud.com

PRODUCT SITES

Organization name	LogTag North America Inc.
Address	TongFuYu Industrial Zone, Block NO.8, Jinghong Road, Shajing Town, Baoan 518117 ShenZhen, GuangDong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Parsyl Trek Tab**
IMD-PQS Code:	E006-077
Status:	Prequalified
Date of acceptance:	26 Apr 2021
Appliance type:	E006
Product description:	Electronic Shipping Indicator
Manufacturer:	e-Health Africa (eHA - formerly Parsyl Inc.)
Manufacturers Reference:	Parsyl Trek Tab
Address:	4-6 Independence Road, Kano Nigeria
Telephone:	+66 2420-2888
Email:	ssawadogo@parsyl.com
Website address:	https://forth-ems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	0.00
Maximum logging intervals (mins)	360.00	**Maximum recording time (days)**	100.00
Maximum sensor lead length (metres)	0.00	**Maximum number of sensor channels**	1.00
External dimensions height (mm)	5.30	**External dimensions length (mm)**	51.00
External dimensions width (mm)	26.00	**Activation mechanism**	manual
Material	Polycarbonate + ABS	**Fixing mechanism**	None
CE marking	Yes	**Minimum working temperature (°C)**	-30.00
Maximum working temperature (°C)	70.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.40	**Power source**	Non-replaceable battery
Battery type	3V LiMnO2	**Battery shelf life (year)**	2 years
Activated battery life	3 months	**Alarm type**	NA
Memory capacity (readings)	14400.00	**User interface**	mobile app, LED
Display medium	Mobile device	**Recording medium**	flash memory
Ingress protection rating IP	IP67		

Comments	Memory size: 30 days on device

PRICE AND SHIPPING

Shipping volume (m3)	0.021609	**Weight per Package (Kg)**	0.0090
Units per package	50.00	**Weight per Unit (Kg)**	5.2000
Minimum order	50.00	**Incoterms**	EXW
Price 1	Pricing models vary	**Year of base price**	2021

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: PQS-E006-TR07.4 Applicable PQS VP(s): E006-TR07-VP.3		

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ

PRODUCT SITES

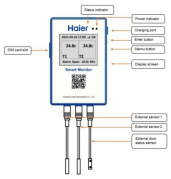
Organization name	e-Health Africa (eHA - formerly Parsyl Inc.)
Address	4-6 Independence Road, Kano Nigeria

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**U-COOL Pro**
IMD-PQS Code:	E006-078
Status:	Prequalified
Date of acceptance:	06 Aug 2021
Appliance type:	E006
Product description:	Remote Temperature Monitoring Device
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	U-COOL Pro
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Sensor type(s)	NTC	**Maximum number of sensor channels**	1.00
External dimensions height (mm)	21.00	**External dimensions length (mm)**	112.00
External dimensions width (mm)	75.00	**Material**	ABS
Fixing mechanism	None	**CE marking**	Yes
Minimum working temperature (°C)	-40.00	**Maximum working temperature (°C)**	65.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Replaceable battery
Battery shelf life (year)	2 years	**Activated battery life**	36 months
Alarm type	Aucostic	**User interface**	LCD screen
Display medium	LCD Display	**Recording medium**	Electronic

Comments	The device measures and records the temperature of refrigerator and the state of door , and transmits them to the platform through GPRS, realizing remote platform monitoring. External dimensions (cm): 112mm*75mm*21mm

PRICE AND SHIPPING

Weight per Package (Kg)	0.2000	**Year of base price**	2021

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/TR03.2 Applicable PQS VP(s): E006/ TR07-VP.3		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd

Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety



E006: Temperature monitoring devices

IMD-PQS Code:	**E006-079**
Status:	Suspended
Date of acceptance:	07 Jun 2021
Appliance type:	E006

Specifications

Current PQS status:	*Suspended*	**Valid until:**	

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Parsyl Trek Pro & Passport**
IMD-PQS Code:	E006-080
Status:	Prequalified
Date of acceptance:	24 Mar 2022
Appliance type:	E006
Product description:	Remote Temperature Monitoring Device
Manufacturer:	e-Health Africa (eHA - formerly Parsyl Inc.)
Manufacturers Reference:	Parsyl Trek Pro & Passport
Country of Manufacture:	Thailand
Address:	4-6 Independence Road, Kano Nigeria
Telephone:	+66 2420-2888
Email:	ssawadogo@parsyl.com
Website address:	https://forth-ems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	166667.00
Material	Polycarbonate + ABS	**Fixing mechanism**	None
CE marking	Yes	**Minimum working temperature (°C)**	-40.00
Maximum working temperature (°C)	70.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.10	**Power source**	Mains+Battery
Battery type	3V LiFeS2	**Battery shelf life (year)**	10 years
Activated battery life	36 months	**Alarm type**	NA
Programmability	User Programed	**User interface**	Switch, button, LEDs, audible alarms, mobile appli
Display medium	LED and mobile phone	**Recording medium**	Not applicable

Comments	Parsyl's combined hardware and software solution provides reliable remote monitoring of sensitive health commodities as they move through the supply chain, both in transit and storage. Pricing for the Parsyl Trek Pro and Passport includes: Global SIM data, access to the Parsyl platform, 3 year warranty, and SMS/email notifications. External dimensions (cm): 2.0x3.9x10 cm (Trek Pro), 4.2x9.8x11.7 cm (Passport)

PRICE AND SHIPPING

Shipping volume (m3)	0.021609	**Weight per Package (Kg)**	0.5790
Units per package	2.00	**Weight per Unit (Kg)**	0.0247
Minimum order	1.00	**Incoterms**	FCA
Price 1	$400	**Year of base price**	2022

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/TR03.2 Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	Tektronix Service Solutions	**Address**	7 Sterling Road, North Billerica, MA 01862, USAUnited States of America
Telephone	+1 781 743 0244	**Email**	bill.briggs@tektronix.com

PRODUCT SITES

Organization name	e-Health Africa (eHA - formerly Parsyl Inc.)
Address	4-6 Independence Road, Kano Nigeria

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**LM-XS Pro E006**
IMD-PQS Code:	E006-081
Status:	Prequalified
Date of acceptance:	26 Apr 2022
Appliance type:	E006
Product description:	30 Day Temperature Logger
Manufacturer:	G-Tek Corporation Private Limited
Manufacturers Reference:	LM-XS Pro E006
Country of Manufacture:	India
Address:	Gunaji House", Plot No. 25/1, Besides Status Bungalow, Padra Road, Vadodara Gujarat India
Telephone:	+91 98 242 61702
Email:	sonam.chauhan@gtek-india.com
Website address:	www.gtek-india.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	540.00	**Maximum recording time (days)**	120.00
Sensor type(s)	External Thermistor 10K NTC	**Maximum sensor lead length (metres)**	3.00
Maximum number of sensor channels	1.00	**External dimensions height (mm)**	20.00
External dimensions length (mm)	128.00	**External dimensions width (mm)**	60.00
Activation mechanism	by long press of "UP" key for more than 10 seconds	**Material**	Polycarbonate plastic; non-breakable, non-corrodible
Fixing mechanism	Screws	**CE marking**	Yes
Minimum working temperature (°C)	-40.00	**Maximum working temperature (°C)**	60.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	"Non-Replaceable 3.0 V 950mAH; CR2477 Panasonic	**Battery shelf life (year)**	5
Activated battery life	60 months	**Alarm type**	Visual
Memory capacity (readings)	17280.00	**Programmability**	Factory Programmed
User interface	LCD	**Display medium**	LCD Display
Recording medium	Flash Memory	**Ingress protection rating IP**	IP64

Comments	The LM-XSPro E006 is an External sensor data logger with two options to choose from Type-1 and Type-2 configurations. Direct PDF/CSV Summary Report of maximum 60 days can be generated by connecting the device with PC. For the detailed data analysis and report, windows based software application is available. It displays “Tick mark” if the temperature has remained within the recommended limits. It displays “Cross mark” if there are any heat or freeze temperature violations, for a period beyond recommended limits. It gives a visual alarm for any violations of temperature. It stores the data up to 60 days and user can see the history data up to last 30 days without downloading or connecting the device to the computer. For more details, refer to the operating manual and quick start guide (1) Manual Start, on long press of UP key (2) Start delay of 10 minutes (3) Once started device cannot be stopped. (4) Device can be PAUSED to exclude data from alarm, min/max statistics for 15 min. But recording will continue. (5) Auto resume from PAUSE after 15 mins. (6) User can view last 30 days of history data on display using keyboard. (7) Total of 120 days of storage. (8) Memory Roll-over after 120 days of storage. (9) Multi digit, character LCD display to indicate various functions, parameters and values (10) Display dimension: 22 x 42 mm; 0.35” HTN Reflective; (11) Display Auto-off; after 1min of non-access of Keyboard (12) LED status indicator for RUN and STOP mode (13) Three front panel keys to perform various functions For more details refer to the operating manual and quick start guide.

PRICE AND SHIPPING

Shipping volume (m3)	0.038	**Weight per Package (Kg)**	0.1000
Units per package	30.00	**Weight per Unit (Kg)**	8.0000
Minimum order	1.00	**Incoterms**	EXW
Price 1	1-100 units: US$75 per unit	**Price 2**	101-250 units: US$55 per unit
Price 3	> 250 units :Consult Factory	**Year of base price**	2022

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: PQS-E006-TR07.4 Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	LLTPL/TL/2025-02/01

PRODUCT SITES

Organization name	G-Tek Corporation Private Limited
Address	Gunaji House”, Plot No. 25/1, Besides Status Bungalow, Padra Road, Vadodara Gujarat India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Vac-TL-01**
IMD-PQS Code:	E006-082
Status:	Prequalified
Date of acceptance:	26 Apr 2022
Appliance type:	E006
Product description:	USER PROGRAMMABLE DATA LOGGER
Manufacturer:	Inspired Technology LtD
Manufacturers Reference:	Vac-TL-01
Country of Manufacture:	China
Address:	1 Huangshan Road, Tongshan Economic Development Zone, Xuzhou Jiangsu, China 221116 China
Telephone:	+971559127380
Email:	mohamed@inspiredtechnology.com
Website address:	http://www.inspiredtechnology.co
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Maximum logging intervals (mins)**	10.00
Maximum recording time (days)	111.00	**External dimensions height (mm)**	80.00
External dimensions length (mm)	97.00	**External dimensions width (mm)**	53.00
Activation mechanism	Start Button or Scheduled Start	**Material**	Polycarbonate
Fixing mechanism	Adhesive	**CE marking**	Yes
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	70.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Non-replaceable battery	**Battery type**	Coin Cell Battery 3V
Battery shelf life (year)	2 Years	**Alarm type**	Visual
Memory capacity (readings)	1000.00	**Programmability**	User Programed
User interface	LCD DISPLAY	**Display medium**	LCD
Recording medium	Electronic	**Ingress protection rating IP**	IP65

Comments	The Vac-TL-01 is a user programmable temperature data logger with low power LCD and USB connector that allows quick access to PDF data report without use of any software or cable. The logger can be individually configured and programmed or order preconfigured. Vac-TL-01 is supplied with InspiredOne software. InspiredOne software has FDA 21 CFR Part 11 compliance mode,and an option to download a temporary PDF in recording mode. Accuracy: `+/- 0.5°C (-20°C to +40°C); +/- 1.0°C(other range) Memory size: 1000 data points

PRICE AND SHIPPING

Shipping volume (m3)	0.004	**Weight per Package (Kg)**	0.0650
Units per package	30.00	**Weight per Unit (Kg)**	1.8000
Minimum order	30.00	**Incoterms**	EXW
Price 1	Price per unit : $20EA	**Price 2**	Price per 10 units : $20EA
Price 3	100+ units: $19 EA; 500+ units on request.	**Year of base price**	2022

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015

Specification Reference	Applicable PQS specification: Applicable PQS VP(s):

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ

PRODUCT SITES

Organization name	Inspired Technology LtD
Address	1 Huangshan Road, Tongshan Economic Development Zone, Xuzhou Jiangsu, China 221116 China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**LogEt 1**
IMD-PQS Code:	E006-083
Status:	Prequalified
Date of acceptance:	06 Feb 2022
Appliance type:	E006
Product description:	User programmable data logger
Manufacturer:	Jiangsu Jingchuang Electronics Co.,Ltd
Manufacturers Reference:	LogEt 1
Country of Manufacture:	China
Address:	No,21 East Zhujiang Rd, Tongshan EconomicDevelopment Zone, Xuzhou, Xuzhou Jiangsu China
Telephone:	0086 0516 18796337208
Email:	zhangbo@e-elitech.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	0.00
Maximum logging intervals (mins)	1440.00	**Maximum recording time (days)**	180.00
Sensor type(s)	digital sensor	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	0.00	**External dimensions height (mm)**	80.00
External dimensions length (mm)	97.00	**External dimensions width (mm)**	53.00
Activation mechanism	button	**Material**	Polycarbonate
Fixing mechanism	Adhesive	**CE marking**	Yes
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	70.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Coin Cell Battery 3V	**Battery shelf life (year)**	2 years
Activated battery life	6 months	**Alarm type**	Visual
Memory capacity (readings)	300000.00	**Programmability**	User Programed
User interface	LCD DISPLAY	**Display medium**	LCD
Recording medium	Electronic	**Ingress protection rating IP**	IP67

Comments	"*User-Programmable. Software-free online configuration or use free Elitechlog software. No hidden costs. *Easy to use. Create PDF reports without software or cable, The PDF Report is available at any time without stopping the Logger. *Damage control. Up to 5 levels of limit values can be set. *Light Intensity/Illuminance (Lux). Detect whether a parcel has been opened or not during a shipment. *Back up shadow log, prevent data from being lost *Password protection, protect data safety and prevent misuse. *Humidity sensor is optional

PRICE AND SHIPPING

Shipping volume (m3)	0.0043	**Weight per Package (Kg)**	0.0650
Units per package	30.00	**Weight per Unit (Kg)**	1.8000
Minimum order	30.00	**Incoterms**	EXW
Price 1	30-100 units: 18.50 USD	**Price 2**	100-500 units:17.50 USD

Price 3	>500 units: on request to manufacturer	**Year of base price**	2022

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

VERIFICATION

Verification Report Reference		TUV E8A 114320 0001 Rev. 00	

PRODUCT SITES

Organization name	Elitech Technology Inc.
Address	2528 Qume Dr. Ste 2, San Jose, CA 95131 China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Parsyl Trek Tab**
IMD-PQS Code:	E006-084
Status:	Prequalified
Date of acceptance:	06 Feb 2022
Appliance type:	E006
Product description:	User programmable data logger
Manufacturer:	e-Health Africa (eHA - formerly Parsyl Inc.)
Manufacturers Reference:	Parsyl Trek Tab
Country of Manufacture:	Thailand
Address:	4-6 Independence Road, Kano Nigeria
Telephone:	+66 2420-2888
Email:	ssawadogo@parsyl.com
Website address:	https://forth-ems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	0.00
Maximum logging intervals (mins)	360.00	**Maximum recording time (days)**	365.00
Sensor type(s)	internal sensor	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	1.00	**External dimensions height (mm)**	5.30
External dimensions length (mm)	51.00	**External dimensions width (mm)**	26.00
Activation mechanism	button	**Material**	Polycarbonate + ABS
Fixing mechanism	None	**CE marking**	Yes

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	3V LiMnO2	**Battery shelf life (year)**	2 years
Activated battery life	12 Months (min)	**Alarm type**	NA
Memory capacity (readings)	10000.00	**User interface**	mobile app, LED
Recording medium	Flash Memory		

Comments	Parsyl's combined hardware and software solution provides reliable remote monitoring of sensitive health commodities as they move through the supply chain, both in transit and storage. • The Trek Tab device includes temperature sensor. • Users can configure multiple visual alarms to alert them when a threshold has been breached. • Data is collected and stored even in low and no connectivity environments, meaning that no data will be lost even when power and cell service is inconsistent or unavailable. • Data is transferred via Bluetooth Low Energy (BLE) to the Parsyl mobile app, where users can view the alarms and additional metrics. Data can also be transferred via the optional Parsyl Gateway, which automatically transfers data for nearby devices via cellular or wi-fi. • Offloaded data is automatically uploaded to the Parsyl web platform. • Parsyl sensor data collected is processed into actionable insights allowing health care workers to take remedial actions which can be recorded in the Parsyl mobile application. • The Parsyl web application provides timelines and details of excursions that help to prevent the same issues from happening again in the future. Memory size: 16,000 data points

PRICE AND SHIPPING

Shipping volume (m3)	0.02	**Weight per Package (Kg)**	0.0090
Units per package	50.00	**Weight per Unit (Kg)**	5.2000
Minimum order	50.00	**Incoterms**	EXW

Price 1	$12	**Year of base price**	2022

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory		0013X00004Ml8OaQAJ	

PRODUCT SITES

Organization name	e-Health Africa (eHA - formerly Parsyl Inc.)
Address	4-6 Independence Road, Kano Nigeria

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**testo 184 T3**
IMD-PQS Code:	E006-085
Status:	Prequalified
Date of acceptance:	07 Jan 2022
Appliance type:	E006
Product description:	User programmable data logger
Manufacturer:	Testo SE & Co. KGaA
Manufacturers Reference:	testo 184 T3
Country of Manufacture:	China
Address:	Celsiusstr. 2 79822 Titisee-Neustadt Germany Germany
Telephone:	+49 7653 681 – 700
Email:	chschwaer@testo.de
Website address:	www.testo.de
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	1440.00	**Maximum recording time (days)**	500.00
Sensor type(s)	NTC	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	1.00	**External dimensions height (mm)**	40.00
External dimensions length (mm)	97.00	**External dimensions width (mm)**	12.00
Activation mechanism	Start button; Start Date/Time; Software	**Material**	ABS
Fixing mechanism	None	**CE marking**	Yes
Minimum working temperature (°C)	-35.00	**Maximum working temperature (°C)**	70.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Replaceable battery
Battery type	CR2450 3V	**Battery shelf life (year)**	10 years
Activated battery life	3 months	**Alarm type**	NA
Memory capacity (readings)	40000.00	**Programmability**	User Programed
User interface	2 buttons, 3 LED, 1 display	**Display medium**	LCD Display
Recording medium	Not applicable	**Ingress protection rating IP**	IP67

Comments

With the temperature data loggers testo 184 T3, you monitor the transport of sensitive goods such as pharmaceuticals, foods or electronics, over an unlimited period. More info on applications. At their destination, a glance at the display or the LEDs tells you whether the configured limit values have been adhered to. In order to obtain detailed information, it is sufficient to connect the logger to a PC – a PDF report is immediately generated with all relevant data. In order for you to be able to work even more efficiently and conveniently with the data loggers, all required files and information are stored directly and securely in the testo 184 T3: Configuration file, acceptance test certificate 3.1 according to DIN ISO 10204, instruction manual and PDF report of your recorded data. The measurement value store of the temperature data logger testo 184 T3 has a capacity of 40000 measurement values. The measurement rate is freely selectable from 1 min to 24 h. The battery has a life of 500 days. The temperature data logger testo 184 T3 is supplied by a standard battery which can be exchanged by the user. testo 184 T3 is compliant with GxP, 21 CFR Part 11, HACCP and EN 12830. Testo is an ISO 9001-certified company, and ensures the adherence to the norms through internal audits as well as accredited external audits. Memory size: 16000 data points

PRICE AND SHIPPING

Weight per Package (Kg)	0.0450	**Price 1**	108 euros
Year of base price	2022		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: E006/TR05.1 Applicable PQS VP(s):		

PRODUCT SITES

Organization name	Testo SE & Co. KGaA
Address	Celsiusstr. 2 79822 Titisee-Neustadt Germany Germany

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Vax Ultima**
IMD-PQS Code:	E006-086
Status:	Prequalified
Date of acceptance:	14 Sep 2022
Appliance type:	E006
Product description:	Electronic Shipping Indicator
Manufacturer:	Inspired Technology LtD
Manufacturers Reference:	Vax Ultima
Address:	1 Huangshan Road, Tongshan Economic Development Zone, Xuzhou Jiangsu, China 221116 China
Telephone:	+971559127380
Email:	mohamed@inspiredtechnology.com
Website address:	http://www.inspiredtechnology.co
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	0.00
Maximum logging intervals (mins)	1080.00	**Maximum recording time (days)**	111.00
Sensor type(s)	digital sensor	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	0.00	**External dimensions height (mm)**	7.80
External dimensions length (mm)	95.00	**External dimensions width (mm)**	49.00
Activation mechanism	Start/Stop button	**Material**	ABS
Fixing mechanism	Adhesive	**CE marking**	Yes
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	60.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Coin Cell Battery 3V	**Battery shelf life (year)**	2 years
Activated battery life	12 Months (min)	**Alarm type**	Visual
Memory capacity (readings)	32000.00	**User interface**	LCD and PC downloadable
Display medium	LCD	**Recording medium**	Not applicable
Ingress protection rating IP	IP65		

Comments	Vax Ultima is the Single use pre-programmed electronic shipping indicator with non-replaceable battery to accompany vaccine shipments from the vaccine manufacturer’s warehouse to the receiving country’s primary vaccine store. Vax Ultima displays the shipment’s time-temperature exposure on the LCD display, without need for downloading to a PC and without need for a separate reading device. Additional to that it has an USB, to download the comprehensive time and temperature detailed report without any additional software required. Vax Ultima-Electronic shipping indicator is supplied Pre-programmed four versions : • Type C: Programmed with alarm settings suitable for the international shipment of DTP, DT, TT, Td, HepB, IPV, liquid Hib and combination vaccines, MenAfriVac, HPV, Pneumo (other than Prevenar). • Type A/B: Programmed with alarm settings suitable for the international shipment of BCG, lyophilized Hib, measles, MR, MMR, meningitis (polysaccharide), OPV, rabies, rotavirus (other than rotateq) and yellow fever vaccines shipped with frozen water-ice packs. • Type Rotateq: Rotateq only • Type Prevenar: only for Prevenar 7 and 13 -valent conjugated vaccine. Each version is offered with 111 days recording period @ 5 minutes recording interval and 222 days recording period @ 10 minutes recording interval. A legible photocopy is possible in VaxUltima’s LCD display as a permanent record for shipment’s arrival is stable on the display once the logger is stopped. Maximum recording time (days): 111 days @ 5 minutes logging interval Memory size: 30 days overview on the display/ PDF report up to 120

PRICE AND SHIPPING

Shipping volume (m3)	0.002	**Weight per Package (Kg)**	0.0300
Units per package	20.00	**Weight per Unit (Kg)**	0.6500
Minimum order	20.00	**Incoterms**	EXW
Price 1	$21	**Year of base price**	2022

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	Techbio Solutions	**Address**	Module 18, 1st Floor, SIDCO Industrial Complex, SIDCO Industrial Estate, Thirumazhisai, Chennai, Tamilnadu – 600124 INDIAIndia
Telephone	+914426811025	**Email**	vikram@techbiosol.com

PRODUCT SITES

Organization name	Inspired Technology LtD
Address	1 Huangshan Road, Tongshan Economic Development Zone, Xuzhou Jiangsu, China 221116 China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**SmartMonitor SITE L**
IMD-PQS Code:	E006-087
Status:	Prequalified
Date of acceptance:	29 Jan 2023
Appliance type:	E006
Product description:	Remote Temperature Monitoring Device
Manufacturer:	Berlinger & Co. AG
Manufacturers Reference:	SmartMonitor SITE L
Country of Manufacture:	Sri Lanka
Address:	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland
Telephone:	+41 (71) 982 88 11
Email:	info@berlinger.com
Website address:	http://www.berlinger.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	5.00
Maximum logging intervals (mins)	240.00	**Maximum recording time (days)**	7.00
Sensor type(s)	electronic	**Maximum sensor lead length (metres)**	2.00
Maximum number of sensor channels	4.00	**External dimensions height (mm)**	20.00
External dimensions length (mm)	72.00	**External dimensions width (mm)**	125.00
Activation mechanism	Display & cloud interface	**Material**	plastic housing
Fixing mechanism	Adhesive	**CE marking**	Yes
Minimum working temperature (°C)	-40.00	**Maximum working temperature (°C)**	75.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Mains+Battery
Battery type	Ni-MH battery pack	**Battery shelf life (year)**	0
Activated battery life	7 days	**Alarm type**	Aucostic
Memory capacity (readings)	1000.00	**Programmability**	User Programed
User interface	USB & cloud	**Display medium**	Liquid Crystal
Recording medium	Non-volatile EEPROM memory	**Ingress protection rating IP**	UIP65

Comments	Remote temperature monitoring of refrigerators and freezers. As part of the SmartSystem, the SmartMonitor SITE L provides real- time monitoring of temperature alarms and doors left open through visual and acoustic alarms on the device for immediate action. Simultaneously, the monitoring status is shown in the central dashboard platform SmartView, which displays all measurement data, trends and alarms. SmartView is web-based and can be used without installing additional software. Multiple users can have access. Alarm notifications are sent to users' cell phones or emails. In addition, users can receive warnings when the temperature is on the trajectory towards a breach. This powerful warning enables corrective action before an alarm occurs. The temperature ranges from -200°C to +75°C is covered, with up to 24 individually programmable alarm rules for temperature and humidity. The open-door detection provides an additional check to avoid temperature excursions. SmartSystem includes: SmartView dashboard software, SmartMonitor SITE L, global mobile network coverage (cellular). The communication technologies included are Cellular LTE Cat M1 (4G/5G), NB–IoT, 2G; WiFi; GNSS. Easy integration of data between SmartView and other systems via an API. Accessories: - SmartCradle for secure mounting of the SmartMonitor SITE L - SmartSensor extension cable for efficient and reliable installation (1m). More information: https://www.berlinger.com/temperature-monitoring/services/smartsystem-user-support Accuracy: +/- 0.5°C in the range of [-10°C, +45°C] Memory size: 1000 data points

PRICE AND SHIPPING

Shipping volume (m3)	0.023	**Weight per Package (Kg)**	0.1800
Units per package	10.00	**Weight per Unit (Kg)**	2.0000
Minimum order	10.00	**Incoterms**	FCA
Price 1	USD 325	**Year of base price**	2023

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

PRODUCT SITES

Organization name	Berlinger & Co. AG
Address	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Q-tag CLm doc D**
IMD-PQS Code:	E006-088
Status:	Prequalified
Date of acceptance:	16 Feb 2023
Appliance type:	E006
Product description:	Electronic Shipping Indicator - ULT
Manufacturer:	Berlinger & Co. AG
Manufacturers Reference:	Q-tag CLm doc D
Country of Manufacture:	Switzerland
Address:	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland
Telephone:	+41 (71) 982 88 11
Email:	info@berlinger.com
Website address:	http://www.berlinger.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	99.00	**Maximum recording time (days)**	40.00
Sensor type(s)	electronic	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	0.00	**External dimensions height (mm)**	20.00
External dimensions length (mm)	94.00	**External dimensions width (mm)**	54.00
Activation mechanism	Start button	**Material**	Plastic housing
Fixing mechanism	None	**CE marking**	Yes
Minimum working temperature (°C)	-96.00	**Maximum working temperature (°C)**	30.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Non-replaceable battery	**Battery shelf life (year)**	1 1/2 year
Activated battery life	1.3 months	**Alarm type**	Visual
Memory capacity (readings)	38000.00	**User interface**	LCD DISPLAY
Display medium	LCD Display	**Recording medium**	Not applicable
Ingress protection rating IP	IP65		

Comments	Dry ice multi-alarm shipping temperature USB monitor Ideal for shipments between –96°C to +30°C. The dry-ice multi-alarm shipping logger has a storage capacity of 38,000 measurements and is single use. When connected to a computer, the logger automatically generates a secure PDF report showing the measured data including the temperature curve. Accessories: - Data management with Berlinger Smartview - Data verification with Berlinger Verifier Calibration traceable to ILAC recognised international standard (e.g. SAS, NIST) upon request Open mSupply compatible (validated) Discounts apply for large orders Accuracy: +/- 0.5°C from –30°C to +30°C | +/- 1.5°C from –96°C to –30°C

PRICE AND SHIPPING

Shipping volume (m3)	0.0045	**Weight per Package (Kg)**	0.0540
Units per package	25.00	**Weight per Unit (Kg)**	1.6800
Minimum order	20.00	**Incoterms**	EXW
Price 1	$98.50	**Year of base price**	2023

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	Roth & CO AG	**Address**	asasasSwitzerland
Verification Report Reference	VA15-00564 / VA18-02042		

PRODUCT SITES

Organization name	Berlinger & Co. AG
Address	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Q-tag CLm doc Ice**
IMD-PQS Code:	E006-089
Status:	Prequalified
Date of acceptance:	16 Feb 2023
Appliance type:	E006
Product description:	Electronic Shipping Indicator
Manufacturer:	Berlinger & Co. AG
Manufacturers Reference:	Q-tag CLm doc Ice
Country of Manufacture:	Switzerland
Address:	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland
Telephone:	+41 (71) 982 88 11
Email:	info@berlinger.com
Website address:	http://www.berlinger.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	99.00	**Maximum recording time (days)**	40.00
Sensor type(s)	electronic	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	0.00	**External dimensions height (mm)**	20.00
External dimensions length (mm)	94.00	**External dimensions width (mm)**	54.00
Activation mechanism	button	**Material**	Plastic housing
Fixing mechanism	None	**CE marking**	Yes
Minimum working temperature (°C)	-40.00	**Maximum working temperature (°C)**	60.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Battery type**	LTC
Battery shelf life (year)	1 1/2 year	**Activated battery life**	1.3 months
Alarm type	Visual	**Memory capacity (readings)**	38000.00
Programmability	Factory Programmed	**User interface**	LCD
Display medium	Liquid Crystal	**Recording medium**	Electronic
Ingress protection rating IP	IP65		

Comments	Freeze multi-alarm shipping temperature USB logger For shipments between –40°C to +60°C with a large memory capacity of 38,000 measurements and is single use. When connected to a computer, it automatically creates a PDF and ASCII file with all measured temperatures and time data. Accessories: - Data management with Berlinger Smartview - Data verification with Berlinger Verifier Calibration traceable to ILAC recognised international standard (e.g. SAS, NIST) upon request Open mSupply compatible (validated) Discounts apply for large orders Accuracy: +/- 0.5°C from –30°C to +40°C

PRICE AND SHIPPING

Shipping volume (m3)	0.0045	**Weight per Package (Kg)**	0.0540
Units per package	25.00	**Weight per Unit (Kg)**	1.6800
Minimum order	20.00	**Incoterms**	EXW
Price 1	$USD 92.10	**Year of base price**	2023

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	Roth & CO AG	**Address**	asasasSwitzerland
Verification Report Reference	VA15-00564		

PRODUCT SITES

Organization name	Berlinger & Co. AG
Address	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Q-tag CLm doc Ice R**
IMD-PQS Code:	E006-090
Status:	Prequalified
Date of acceptance:	17 Feb 2023
Appliance type:	E006
Product description:	Electronic Shipping Indicator
Manufacturer:	Berlinger & Co. AG
Manufacturers Reference:	Q-tag CLm doc Ice R
Country of Manufacture:	Switzerland
Address:	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland
Telephone:	+41 (71) 982 88 11
Email:	info@berlinger.com
Website address:	http://www.berlinger.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	99.00	**Maximum recording time (days)**	40.00
Sensor type(s)	electronic	**Maximum sensor lead length (metres)**	0.00
Maximum number of sensor channels	0.00	**External dimensions height (mm)**	20.00
External dimensions length (mm)	94.00	**External dimensions width (mm)**	54.00
Activation mechanism	Button activated	**Material**	plastic housing
Fixing mechanism	None	**CE marking**	Yes
Minimum working temperature (°C)	-40.00	**Maximum working temperature (°C)**	60.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.80	**Power source**	Non-replaceable battery
Battery shelf life (year)	1 1/2 year	**Activated battery life**	1.3 months
Alarm type	Visual	**Memory capacity (readings)**	38000.00
Programmability	Factory Programmed	**User interface**	LCD DISPLAY
Display medium	LCD Display	**Recording medium**	Not applicable
Ingress protection rating IP	IP65		

Comments	Reusable freeze multi-alarm shipping temperature USB logger For reoccuring shipments between –40°C to +60°C with a large memory capacity of 38,000 measurements (reusable). When connected to a computer, it automatically creates a PDF and ASCII file with all measured temperatures and time data. Accessories: - Data management with Berlinger Smartview - Data verification with Berlinger Verifier Calibration traceable to ILAC recognised international standard (e.g. SAS, NIST) upon request Open mSupply compatible (validated) Discounts apply for large orders Accuracy: +/- 0.8°C from –40°C to +60°C

PRICE AND SHIPPING

Shipping volume (m3)	0.0045	**Weight per Package (Kg)**	0.0540
Units per package	25.00	**Weight per Unit (Kg)**	1.6800
Minimum order	20.00	**Incoterms**	EXW
Price 1	122.4	**Year of base price**	2023

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

VERIFICATION

Verification Laboratory	Roth & CO AG	**Address**	asasasSwitzerland
Verification Report Reference	VA15-00564		

PRODUCT SITES

Organization name	Berlinger & Co. AG
Address	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**CTX**
IMD-PQS Code:	E006-091
Status:	Prequalified
Date of acceptance:	14 Apr 2023
Appliance type:	E006
Product description:	Remote Temperature Monitoring System
Manufacturer:	Nexleaf Analytics
Manufacturers Reference:	CTX
Country of Manufacture:	India
Address:	Global Innovation Park CP-07 IMT Manesar Rd Road name & number: Sector 8, Imt Manesar, Manesar Delhi India
Telephone:	+91 8882223132
Email:	info@nexleaf.org.invalid
Website address:	https://www.vvdntech.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
External dimensions height (mm)	25.00	**External dimensions length (mm)**	155.00
External dimensions width (mm)	120.00	**Material**	Polycarbonate
Fixing mechanism	None	**CE marking**	Yes
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	55.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Replaceable battery
Battery type	Lithium	**Battery shelf life (year)**	2 years
Activated battery life	60 mths from manufacture date	**Alarm type**	Other
Alarm Type (Other)	Acoustic & visual LED	**Memory capacity (readings)**	18000.00
Programmability	Other	**Programmability (Other)**	Remotely programmable
User interface	LCD, buttons, LED, phone app	**Display medium**	LCD Display
Recording medium	Not applicable	**Ingress protection rating IP**	IP50

Comments	ColdTrace X (CTX) is a universal wireless remote temperature monitoring (RTM) solution for end-to-end vaccine cold chain equipment management and visibility. CTX provides electronic real-time temperature monitoring for storagerooms, freezers, walk-in cold rooms, and refrigerators, equipped with: - Advanced & Customizable Monitoring Capabilities: Each CTX base station can pair with up to 16 wireless temperature sensors and 6 open-door sensors, ensuring comprehensive monitoring for any cold chain equipment configuration. - Cutting-edge Technology: The base station boasts 2G, NBIoT, and WiFi capabilities along with ambient temperature and humidity sensors, providing seamless connectivity and accurate data readings. Plus, the Bluetooth Low Energy (BLE) 5.0 sensors can be conveniently operated from mobile phones. - Versatile Deployment: From clinic fridges to national cold rooms, CTX's modular design allows for easy deployment in any storage facility. Its scalability and cost-effectiveness make it an ideal choice for your team's needs. - Reliability Guaranteed: Backed by Nexleaf's 5-year warranty, CTX offers long-term reliability and peace of mind. You can trust CTX to overcome the toughest RTM challenges with its robust hardware and strong network capabilities for continuous monitoring without data disruptions. - Empowering Tools: The ColdTrace.org data portal is used to examine temperature plots, create and schedule custom reports, and remotely configure devices, providing actionable insights for both healthcare workers and policymakers. With customizable SMS (text message) alerts and a user-friendly data portal, users can manage valuable vaccine and cold chain equipment resources and access analytics tools for informed decision-making. Through years of design and iteration, CTX solves the toughest RTM challenges: - Common hardware means one common training curriculum, - Wireless sensors prevent broken sensor cables and stay out of the way, - Installation workflow simplifies adding new devices or equipment to the network, - Strong batteries, robust power adapters, and caching prevent data outages. Additional CTX features include: 1. 3-year warranty with purchase of 3-year data package, 5-year warranty with 5-year data package 2. Data subscription: Access to data & analytics via web dashboard & mobile app, including emailed reports. Data will continue to be accessible after subscription expiration 3. Connectivity subscription: Global SIM card with access to most networks 4. SMS package: SMS alerts for cold chain equipment power and temperature 5. LMIS interoperability: Single sign-on (SSO), WHO PQS E006/DS01.1, and custom integrations

PRICE AND SHIPPING

Weight per Package (Kg)	0.4250	**Minimum order**	1.00
Incoterms	EXW	**Price 1**	1000+ kits: $460.70
Price 2	50 too 999 kits: $478.3	**Price 3**	1 to 49 kits: $489.00 5-year all-in price includes a 5-year warranty and 10% discount on data package fees. Contact for 4x fridge kit, WIC kit, 2x WIC kit, 3x WIC kit pricing.
Year of base price	2023		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ

PRODUCT SITES

Organization name	Nexleaf Analytics
Address	Global Innovation Park CP-07 IMT Manesar Rd Road name & number: Sector 8, Imt Manesar, 122052 Manesar India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**LM Pro IN031**
IMD-PQS Code:	E006-092
Status:	Prequalified
Date of acceptance:	15 May 2023
Appliance type:	E006
Product description:	Irreversible Freeze Indicator
Manufacturer:	G-Tek Corporation Private Limited
Manufacturers Reference:	LM Pro IN031
Country of Manufacture:	India
Address:	Gunaji House", Plot No. 25/1, Besides Status Bungalow, Padra Road, Vadodara Gujarat India
Telephone:	+91 98 242 61702
Email:	sonam.chauhan@gtek-india.com
Website address:	www.gtek-india.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**External dimensions height (mm)**	13.00
External dimensions length (mm)	70.00	**External dimensions width (mm)**	35.00
Material	Polycarbonate plastic	**Fixing mechanism**	None
CE marking	Yes	**Minimum working temperature (°C)**	-20.00
Maximum working temperature (°C)	50.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Lithium Coin Cell Battery	**Battery shelf life (year)**	3
Activated battery life	42 months	**Alarm type**	NA
Memory capacity (readings)	38000.00	**User interface**	LCD
Display medium	LCD	**Recording medium**	Electronic

Comments	1) Device is delivered in sleep mode. (2) Activate the device by long press of key for 10 seconds. (3) Ensure the display Shows a check mark/tick mark before placing it with vaccine (4) If the device is exposed to temperature of -0.5 °C, ± 0.5 °C for 60 minutes ± 5 minutes (or as specified for the TYPE A/B/C), alarm is activated and display shows "X". This is irreversible. (5) For more details refer to the Quick start guide. Memory size: 38,000 data points

PRICE AND SHIPPING

Shipping volume (m3)	0.0072	**Weight per Package (Kg)**	0.0300
Weight per Unit (Kg)	5.0000	**Minimum order**	100.00
Incoterms	EXW	**Price 1**	$6 for 100 units
Year of base price	2023		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015

PRODUCT SITES

Organization name	G-Tek Corporation Private Limited
Address	Gunaji House", Plot No. 25/1, Besides Status Bungalow, Padra Road, Vadodara Gujarat India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Fridge-tag 2L**
IMD-PQS Code:	E006-093
Status:	Prequalified
Date of acceptance:	16 May 2023
Appliance type:	E006
Product description:	30-Day Electronic Temperature logger
Manufacturer:	Berlinger & Co. AG
Manufacturers Reference:	Fridge-tag 2L
Country of Manufacture:	Malaysia
Address:	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland
Telephone:	+41 (71) 982 88 11
Email:	info@berlinger.com
Website address:	http://www.berlinger.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	5.00
External dimensions height (mm)	19.00	**External dimensions length (mm)**	128.00
External dimensions width (mm)	75.00	**Material**	Plastic housing
Fixing mechanism	None	**CE marking**	Yes

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Lithium Button Cell	**Battery shelf life (year)**	1 year
Activated battery life	24 months	**Alarm type**	NA
User interface	LCD display	**Recording medium**	Not applicable

Comments	Fridge-tag 2L is the temperature monitor for medical refrigerators or freezers. It measures the ambient temperature every minute and immediately issues an alert when the alarm limit is exceeded. The audio and visual alarm on the display enables immediate decision making. Accurate temperature data from the last 60 days is presented in a PDF, which is automatically generated when the device is connected to a computer, without additional software. The Fridge-tag 2L is also available with a removable external temperature sensor (measures down to –40°C / –40°F). Default configurations are Type 1 and Type 2 (as per TR06.4); other configurations are also possible. The Fridge Tag 2L has been verified to be compatible with: - Berlinger SmartView software - the free Varo app - the free Pogo LT app - Open mSupply (LMIS solution) Discounts apply for large orders

PRICE AND SHIPPING

Shipping weight per carton(kg)	8	**Shipping volume (m3)**	0.017
Weight per Package (Kg)	0.1120	**Units per package**	50.00
Minimum order	10.00	**Incoterms**	EXW
Price 1	$US 79.90	**Year of base price**	2023

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015

VERIFICATION

Verification Laboratory	Roth & CO AG	**Address**	asasasSwitzerland
Verification Report Reference	VA16-00070		

PRODUCT SITES

Organization name	Berlinger & Co. AG
Address	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland Switzerland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**TempSir-VC**
IMD-PQS Code:	E006-094
Status:	Prequalified
Date of acceptance:	25 Jul 2023
Appliance type:	E006
Product description:	Electronic Shipping Indicator
Manufacturer:	Sichuan Etomatoes Technology Co Ltd
Manufacturers Reference:	TempSir-VC
Country of Manufacture:	China
Address:	88 Tianchen Road, High-tech West District Chengdu Sichuan China
Telephone:	+86 13684059332
Email:	cg@etomatoes.com
Website address:	etomatoes.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	30.00	**Maximum recording time (days)**	180.00
Sensor type(s)	electronic	**Maximum number of sensor channels**	1.00
External dimensions height (mm)	16.00	**External dimensions length (mm)**	102.50
External dimensions width (mm)	52.00	**Activation mechanism**	a ‘start’ button
Material	Non-corrodible plastics	**Fixing mechanism**	Adhesive
CE marking	Yes	**Minimum working temperature (°C)**	-30.00
Maximum working temperature (°C)	70.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	3 V Lithium	**Battery shelf life (year)**	2 years
Activated battery life	6 months	**Alarm type**	Visual;Other
Alarm Type (Other)	Acoustic and/or visual	**Memory capacity (readings)**	28800.00
Programmability	Factory Programmed	**User interface**	LCD display screen, with LEDs
Display medium	LCD Display	**Recording medium**	Electronic
Ingress protection rating IP	IP65		

Comments	Memory size: 28800 data points

PRICE AND SHIPPING

Shipping volume (m3)	0.001078	**Weight per Package (Kg)**	0.0570
Units per package	15.00	**Weight per Unit (Kg)**	0.9200
Minimum order	15.00	**Incoterms**	EXW
Price 1	25~100 units: 18.0 USD	**Price 2**	101~500 units:17.0 USD
Year of base price	2023		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-22-0018		

PRODUCT SITES

Organization name	Sichuan Etomatoes Technology Co Ltd
Address	88 Tianchen Road, High-tech West District Chengdu Sichuan China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety



E006: Temperature monitoring devices

IMD-PQS Code:	**E006-095**
Status:	Suspended
Date of acceptance:	01 Jan 2024

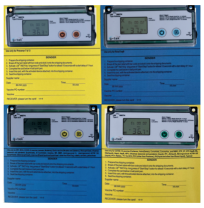
Specifications

Current PQS status:	*Suspended*	**Valid until:**

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**LM Pro IN074**
IMD-PQS Code:	E006-096
Status:	Prequalified
Date of acceptance:	02 Feb 2024
Product description:	Electronic Shipping Indicator
Manufacturer:	G-Tek Corporation Private Limited
Manufacturers Reference:	LM Pro IN074
Country of Manufacture:	India
Address:	Gunaji House", Plot No. 25/1, Besides Status Bungalow, Padra Road, Vadodara Gujarat India
Telephone:	+91 98 242 61702
Email:	sonam.chauhan@gtek-india.com
Website address:	www.gtek-india.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
External dimensions height (mm)	16.00	**External dimensions length (mm)**	128.00
External dimensions width (mm)	60.00	**Material**	Polycarbonate plastic; non-breakable, non- corrodible
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	60.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Lithium Coin Cell Battery	**Battery shelf life (year)**	1
Activated battery life	8 years	**Alarm type**	Visual
Memory capacity (readings)	11520.00	**Programmability**	Factory Programmed
User interface	Keyboard Interface	**Display medium**	LCD display
Ingress protection rating IP	IP65		

Comments	Accuracy: ± 0.5 °C for the range -30 °C to +45 °C ± 0.7 °C otherwise The LMPro IN074 series are single use, cost effective and reliable Electronic Shipping Indicator in support of vaccine procurement and transport requirement. It shows if a vaccine is exposed to time-temperature limits beyond stipulated by WHO/PQS/E06/TR07.4 . There are 4 models to choose from, based on the vaccines being transported – Type Prevenar, Type Rotateq, Type A/B and Type C. An electronic temperature sensor along with LCD display indicates OK symbol ""Tick"" if the product has remained within exposure limits. If the product is exposed beyond time- temperature limits as specified based on the type of vaccine, the display shows NOK symbol "Cross". It stores the data up to 40 days and user can see the history data of entire journey of vaccine using keyboard and display. For easy photocopying, the display is non-flashing. It is accompanied by a Shipment Information Card. User can generate the pdf report which provides a detailed temperature history of the trip for transportation records. Time stamps on alarm events allow supply chain partners to analyze variability and institute corrective measures based on elapsed time. All the parameters and alarm limits are pre-configured as per the requirement of guidelines. It comes with individual NABL traceable calibration certificate.

PRICE AND SHIPPING

Shipping weight per carton(kg)	8	**Shipping volume (m3)**	0.038
Units per package	30.00	**Minimum order**	1.00

Price 1	For 1-10 units US$21 per unit	**Price 2**	For 101-250 units US$18.5 per unit
Price 3	For more than 250 units: Consult Factory	**Year of base price**	2024

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015

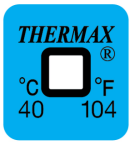
VERIFICATION

Verification Laboratory	0013X00004Ml8OlQAJ	**Verification Report Reference**	LLTPL/TL/2023-10/01
Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Thermax Encap 40C**
IMD-PQS Code:	E006-097
Status:	Prequalified
Date of acceptance:	11 Jul 2024
Product description:	Threshold Indicator 40
Manufacturer:	Thermographic Measurements, Ltd (Spotsee)
Manufacturers Reference:	Thermax Encap 40C
Country of Manufacture:	United States of America
Address:	Riverside Buildings CH5 4DS Dock Road Industrial Estate, Connahs Quay United Kingdom of Great Britain and Northern Ireland
Telephone:	01244818348
Email:	mmcwilliams@spotsee.io
Website address:	www.spotsee.io
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Chemical	**External dimensions height (mm)**	12.00
External dimensions length (mm)	13.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	1.00	**Power source**	Passive device
Comments	The Thermax Encap is a single-use, self-adhesive surface temperature indicator that responds within seconds with a visual white to gray/black color change when the defined temperature threshold has been met or exceeded. Minimum order: 5 packs or 1 roll		

PRICE AND SHIPPING

Units per package	50.00	**Minimum order**	5.00
Price 1	On request to manufacturer	**Year of base price**	2024

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**Frigga V5**
IMD-PQS Code:	E006-098
Status:	Prequalified
Date of acceptance:	30 Sep 2024
Product description:	30 day electronic refrigerator temperature logger
Manufacturer:	Shanghai Dewav IoT Technology Co. , Ltd.
Manufacturers Reference:	Frigga V5
Country of Manufacture:	China
Telephone:	+86 21 58820022
Email:	lian.nie@dewav.com
Website address:	www.friggatech.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
External dimensions height (mm)	103.00	**External dimensions length (mm)**	613.00
External dimensions width (mm)	23.00	**Material**	Plastic housing
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	70.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Lithium battery	**Battery shelf life (year)**	1
Activated battery life	4 Months	**Alarm type**	Visual
Memory capacity (readings)	28800.00	**Programmability**	User Programmed
User interface	Display	**Display medium**	Display
Ingress protection rating IP	IP64		

Comments	User-programmable real time temperature data logger (Type 1) Accuracy: ±0.5°C(-20°C~ +40°C); ±1°C other range 1. Real-Time Temperature Monitor 2. Real-time alerts to receivers via Email, SMS, APP (Android and iOS) 3. Dual system design: PDF report can be downloaded via USB port or remotely through the Frigga cloud platform 4. Large-capacity local storage, keep recording and storing data in offline mode. Zero data loss. 5. Support remote parameter setting, modify alarm threshold, etc. Digital display, easy to use.

PRICE AND SHIPPING

Shipping weight per carton(kg)	8	**Shipping volume (m3)**	0.028
Units per package	60.00	**Minimum order**	1.00
Incoterms	EXW	**Price 1**	1~100 unit:199 USD
Price 2	101~500 unit:189 USD	**Price 3**	>500 unit:On request to manufacturer
Year of base price	2024		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina

Telephone	+86 1063162443	**Email**	gongcx@cheari.com
Verification Report Reference	WB-23-0163		
Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**VaxTag +**
IMD-PQS Code:	E006-099
Status:	Prequalified
Date of acceptance:	07 Oct 2024
Product description:	30 day temperature logger
Manufacturer:	LogTag North America Inc.
Manufacturers Reference:	VaxTag +
Country of Manufacture:	Vietnam
Address:	TongFuYu Industrial Zone, Block NO.8, Jinghong Road, Shajing Town, Baoan 518117 ShenZhen, GuangDong China
Telephone:	+64 9 448 2311
Email:	sales@logtagrecorders.com
Website address:	www.logtagrecorders.com
Valid until:	31 May 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Maximum logging intervals (mins)**	1.00
External dimensions height (mm)	10.70	**External dimensions length (mm)**	8.60
External dimensions width (mm)	54.50	**Material**	Polycarbonate
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	65.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	Lithium Button Cell	**Battery shelf life (year)**	4
Activated battery life	24	**Alarm type**	Visual
Memory capacity (readings)	16129.00	**Programmability**	Factory Programmed
User interface	Push button operation	**Display medium**	Built-in LCD
Ingress protection rating IP	IP65		

Comments

Minimum logging interval: 30 seconds (fixed at 6 minutes for type 1) LogTag® vaxtag+ is an advanced temperature monitoring device specifically designed for the safe storage of vaccines in healthcare facilities and intermediate storage areas. Fully compliant with World Health Organization (WHO) standards under PQS specification E006/TR06.4, the vaxtag+ monitors storage conditions to safeguard vaccine integrity. The vaxtag+ stores up to 16,129 temperature readings to ensure the continuous monitoring for up to 67 days using the 6 minute logging interval. Default configuration is Type 1 (as per TR06.4); other configurations are also possible. Users can easily inspect violation history directly on the display or view charts and statistics, downloading the on-board PDF via the built-in USB connector. The data is compatible with the free LogTag Analyzer software, which allows users to visualize data in various formats, facilitating effective data management and archiving. The LCD display provides a clear view of current and historical temperature readings, including a 30-day summary of the highest and lowest temperatures. The vaxtag+ is also supported by LogTag Online, LogTag's 21CFRPart11 compliant data management system. Trust the reliability of the LogTag® vaxtag+ to maintain the safety and efficacy of your vaccination programs.

PRICE AND SHIPPING

Shipping volume (m3)	0.0051	**Units per package**	50.00
Minimum order	20.00	**Incoterms**	EXW
Price 1	20- 99 unit:40.80 USD	**Price 2**	> 100 unit:on request to manufacturer
Year of base price	2024		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	A66604, Issue1
Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**LMPro T051**
IMD-PQS Code:	E006-100
Status:	Prequalified
Date of acceptance:	25 Nov 2024
Product description:	User-programmable temperature data logger
Manufacturer:	G-Tek Corporation Private Limited
Manufacturers Reference:	LMPro T051
Country of Manufacture:	India
Address:	Gunaji House", Plot No. 25/1, Besides Status Bungalow, Padra Road, Vadodara Gujarat India
Telephone:	+91 98 242 61702
Email:	sonam.chauhan@gtek-india.com
Website address:	www.gtek-india.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	0.00
External dimensions height (mm)	95.50	**External dimensions length (mm)**	13.80
External dimensions width (mm)	45.00	**Material**	Polycarbonate plastic; non-breakable, non-corrodible
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	60.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Power source	Other	**Power Source (Other)**	Lithium Coin Cell Battery
Battery type	User Replaceable 3.0 V 225 mAH; CR2032 Panasonic	**Battery shelf life (year)**	1
Activated battery life	12 months	**Alarm type**	Visual
Memory capacity (readings)	50000.00	**Programmability**	User Programmed
User interface	Keyboard interface	**Ingress protection rating IP**	IP 54

Comments	± 0.5 °C for -20 to +30 °C ± 0.7 °C Otherwise LMPro T051 User Programmable Temperature Data logger is an Internal sensor data logger meeting the requirements of WHO PQS E006/TR05.1. It can store up to 50000 data records. User can fully configure parameters like – Start delay, alarm high/low with corresponding alarm delay, alarm event type- single/cumulative, temperature unit, UTC time zone, store interval, Batch type- Stop on full or memory rollover etc. User can also set the information like, username and job description. It displays OK symbol "Tick" if the temperature has remained within the recommended limits and NOK symbol "Cross" if there are violations for the set alarm limits. User can also download data from multiple data loggers in single file and generate report in pdf format or export data as a csv file.

PRICE AND SHIPPING

Shipping weight per carton(kg)	2.5	**Shipping volume (m3)**	0.018
Units per package	25.00	**Minimum order**	1.00
Incoterms	EXW	**Price 1**	For 1-10 units US$49 per unit
Price 2	For 100-250 units US$34 per unit	**Price 3**	For more than 250 units :Consult Factory
Year of base price	2024		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001:2015

VERIFICATION

Verification Laboratory	0013X00004MI8OIQAJ	**Verification Report Reference**	LLTPL/TL/2024-02/01
Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**LMPro FZT (Type-1)**
IMD-PQS Code:	E006-101
Status:	Prequalified
Date of acceptance:	28 Mar 2025
Manufacturer:	G-Tek Corporation Private Limited
Manufacturers Reference:	LMPro FZT (Type-1)
Country of Manufacture:	India
Address:	Gunaji House", Plot No. 25/1, Besides Status Bungalow, Padra Road, Vadodara Gujarat India
Telephone:	+91 98 242 61702
Email:	sonam.chauhan@gtek-india.com
Website address:	www.gtek-india.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Electronic	**Minimum logging intervals (mins)**	1.00
Maximum logging intervals (mins)	4.00	**Maximum recording time (days)**	60.00
Sensor type(s)	Integrated Thermistor 10K NTC	**Maximum number of sensor channels**	1.00
External dimensions height (mm)	2.20	**External dimensions length (mm)**	12.80
External dimensions width (mm)	6.00	**Activation mechanism**	Device activation by long press of "Up" key for about 2 seconds. Please refer to the operating manual for more details.
Material	Polycarbonate plastic; non-breakable, non- corrodible housing	**Fixing mechanism**	Screw mounted (2 holes (M4 screw) provided on enclosure)
Associated system components	USB cable and Device calibration certificate	**CE marking**	Compliant
Minimum working temperature (°C)	-30.00	**Maximum working temperature (°C)**	60.00

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Non-replaceable battery
Battery type	3.0 V 950 mAH; CR2477 Panasonic (or Equivalent) Lithium Coin Cell Battery	**Battery shelf life (year)**	5
Activated battery life	5	**Alarm function(s)**	Visual: In case of high/low breach, flashing temperature reading on display along with ? or ? arrow for high or low alarm with bell symbol. Alarm day markers for last 30 days on LCD display.
Alarm type	Visual	**Memory capacity (readings)**	17280.00
Programmability	Factory Programmed	**User interface**	Keyboard interface
Display medium	LCD display	**Recording medium**	Flash Memory
Ingress protection rating IP	IP 64		

Comments	The LMPro FZT (Type-1) Data logger is an Integrated Sensor 30 days temperature logger meeting the requirements of WHO/PQS/E006/TR06.4 specification protocol. 1. Manual Start, by pressing “Up” key for about 2 seconds. 2. Start delay of 30 minutes 3. Once started device cannot be stopped 4. Device can be PAUSED to exclude data from alarm, min/max statistics for 15 minutes while recording will continues, auto resume from PAUSE after 15 minutes 5. Direct PDF/CSV Summary Report of maximum 60 days can be generated by connecting the device with PC using USB2.0 Type C data cable 6. User can view last 30 days of history data on the device display using keyboard 7. Total of 60 days of storage 8. Memory Roll-over after 60 days of storage 9. Multi digit, character LCD display to indicate various functions, parameters and values 10. Display dimension: 22 x 42 mm; 0.35” HTN Reflective 11. Display Auto-off; after 20 seconds of non-access of Keyboard 12. LED status indicator for RUN mode 13. Three front panel keys to perform various functions For more details refer to the operating manual and quick start guide Additional product information: Accuracy: ± 0.5 °C for the range -30 °C to + 30 °C ± 0.7 °C otherwise. Memory size: 30 days overview on the display/ PDF report up to 60 days at store interval of 5 minutes.

PRICE AND SHIPPING

Shipping volume (m3)	0.049	**Weight per Package (Kg)**	9.0000
Units per package	40.00	**Weight per Unit (Kg)**	0.1000
Minimum order	1.00	**Incoterms**	EXW
Price 1	For 1-100 units US$65 per unit	**Price 2**	For 101-250 units: Consult Factory
Price 3	For more than 250 units: Consult Factory	**Year of base price**	2025

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	IS0 9001:2015; ISO 14001:2015
Specification Reference	E006/TR06.4		

VERIFICATION

Verification Laboratory	0013X00004Ml8OlQAJ	**Verification Report Reference**	PQS verification protocol E006/TR06.VP.4 Lisaline Lifescience Technologies Pvt. Ltd., PQS report no.: LLTPL/TL/2024-08/01 (Issued date: 30th August 2024)

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E006: Temperature monitoring devices



Product name:	**ColdTrace Transport**
IMD-PQS Code:	E006-102
Status:	Prequalified
Date of acceptance:	05 Aug 2025
Manufacturer:	Nexleaf Analytics
Manufacturers Reference:	ColdTrace Transport
Country of Manufacture:	India
Address:	Global Innovation Park CP-07 IMT Manesar Rd Road name & number: Sector 8, Imt Manesar, Manesar Delhi India
Telephone:	+91 8882223132
Email:	info@nexleaf.org.invalid
Website address:	https://www.vvdntech.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Mode of operation	Other	**Mode of operation (Other)**	Wireless Bluetooth transmission to mobile app + cloud upload
Minimum logging intervals (mins)	1.00	**Maximum logging intervals (mins)**	60.00
Maximum recording time (days)	125.00	**Sensor type(s)**	Single Internal Electronic Temperature Sensor
Maximum number of sensor channels	1.00	**External dimensions height (mm)**	70.00
External dimensions length (mm)	54.00	**External dimensions width (mm)**	30.00
Activation mechanism	Power button	**Material**	Polycarbonate
Fixing mechanism	Cradle with 3M VHB Tape and zip tie	**Associated system components**	ColdTrace Toolkit and Transport Apps, ColdTrace Analytics dashboard
CE marking	Yes	**Minimum working temperature (°C)**	-30.00
Maximum working temperature (°C)	55.00		

MECHANICAL AND ELECTRONIC DEVICES ONLY

Accuracy (+/- °C)	0.50	**Power source**	Replaceable battery
Battery type	Manganese dioxide lithium battery	**Battery shelf life (year)**	7
Activated battery life	60 months	**Alarm function(s)**	Mobile alerts, visual LED status
Alarm type	Other	**Alarm Type (Other)**	LED indicators + in-app notification
Memory size (Mb)	0.2560000000	**Memory capacity (readings)**	18135.00
Programmability	Other	**Programmability (Other)**	Configurable via mobile app
User interface	LED indicators, button, and Android app (ColdTrace Toolkit app & ColdTrace Transport app)	**Display medium**	Smartphone screen & LED indicators
Recording medium	Internal flash memory	**Ingress protection rating IP**	IP67

Comments	ColdTrace Transport extends Nexleaf's remote temperature monitoring capabilities into the vaccine distribution segment, providing real-time visibility during transport. The system consists of a compact Bluetooth Low Energy (BLE) sensor placed inside vaccine carriers, which transmits data to a smartphone application. This enables continuous temperature logging at up to 1-minute intervals, immediate alerts for temperature excursions, and GPS-tagged trip summaries. The sensor is accurate to ±0.5°C and operates on a long-life lithium battery designed to last up to 5 years under typical usage. The mobile app allows users to view historical reports, manage device configurations, and integrates seamlessly with the ColdTrace Analytics platform for centralized oversight. Designed for ease of use, durability, and scalability, ColdTrace Transport supports ministries in optimizing vaccine handling, route planning, and transport equipment performance closing a critical visibility gap in the last mile of immunization efforts. Unlimited run time (until batteries run out), old data is overwritten after 125 days at 10 min sampling interval

PRICE AND SHIPPING

Shipping weight per carton(kg)	0.063	**Shipping volume (m3)**	2.1E-4
Weight per Package (Kg)	0.1000	**Units per package**	1.00
Incoterms	EXW	**Price 1**	USD 119 (Inclusive of Access to app & dashboard)
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 9001: 2000;Other	**Quality standard (Other)**	ISO 14001:2015, Calibration Certificate, WEEE, CE Cert, EMC
Specification Reference	E006/TR05.1		

VERIFICATION

Verification Laboratory	0013X00004Ml8OaQAJ	**Verification Report Reference**	CE-JOB-NDA-24-001717-001

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

E007
Cold Chain Accessories

The products in this category include miscellaneous cold chain accessories. IMD-PQS specifications for single-phase and three-phase voltage stabilizers and energy harvest systems have now been published and manufacturers have been invited to submit products for prequalification.

Details regarding the products included in each sub-category of E007, as well as guidelines, performance specifications and verification protocols for this category, can be accessed through the drop-down sections below.

E007.1: Voltage stabilizers for refrigerators and freezers

Fluctuations in the voltage and frequency of mains supply power can cause serious damage to refrigerators, freezers and other powered appliances and devices. Frequent episodes of under- and overvoltage can compromise the functioning of critical refrigerator components like the compressor, electronic controls and thermostat.

To protect such appliances from damage, voltage stabilizers are used to reduce and correct fluctuations of input voltage and frequency and to thereby ensure a stable, safe electricity supply for refrigerators and freezers.

WHO requires every mains-powered refrigerator and freezer to be provided with either an integrated or a standalone voltage stabilizer. Single-phase voltage stabilizers must be prequalified to WHO IMD-PQS specification E007/VS01.6 or latest version. Three-phase voltage stabilizers must be prequalified to WHO IMD-PQS specification E007/VS02.1 or latest version.

E007.1.1: Voltage stabilizer types

There are several different types of technology for automatic voltage stabilization, with the most common being electromechanical for small single-phase appliances, and three-phase voltage stabilizers for Walk-in Cold/Freezer Rooms.

Tap-changing voltage stabilizers are commonly used and suitable for refrigeration equipment. Two common types of tap-changing technology are relay-based and servo-based voltage stabilization. Solid state relay-based tap changing technology has no moving parts

and uses switching relays and a transformer to correct input voltage. Servo-based devices use motors to change the taps on the transformer to correct the voltage.

Given relay-based devices have no moving parts, they are less subject to mechanical breakdown and may require less maintenance compared to servo-based devices. However, servo-based devices have benefits over relay-based devices, including higher correction speed, higher precision of output voltage and greater ability to withstand inrush currents.

For single-phase devices, the simplest arrangement is to supply one single-outlet unit with each appliance. NEVER use an adaptor to connect more than one appliance to a regulator's electrical outlet and never use an adaptor to connect more than one regulator to a wall socket. Under IMD-PQS, all models are prequalified for powering both compression and absorption types of equipment.

For three-phase stabilizers, the device may be configured for star of delta connections in various different national grid utility tensions in countries.

Any associated electronic temperature monitoring equipment and computers should, ideally, be connected to a separate voltage-regulated circuit; this type of equipment is particularly sensitive to voltage fluctuations and to lightning-induced power spikes.

E007.2: Solar direct drive surplus energy harvest controls

Energy harvest is a new technology that provides a limited amount of electricity to health facilities where there is unreliable electricity (weak-grid) or no electrical service (off-grid). Weak-grid facilities may use energy harvest as a backup power system for lights, communications and more. Off-grid facilities may use energy harvest as their only sure source of electricity.

During the course of most days, solar direct drive (SDD) vaccine refrigerators and/or water-pack freezers (i.e. appliances) cannot consume all the solar electricity available. That excess solar electricity is wasted unless it can either be captured and used immediately, or stored for later use. Energy harvesting was developed to capture this excess energy. This technology now enables facilities to power fans directly, recharge batteries in cell phones and lights and store power for nights in separate batteries that can be used in many ways, including equipment monitoring systems (EMS) and select medical devices.

Energy harvesting is an option only with some SDD appliances. In order to be granted IMD-PQS prequalified status, an Energy Harvest Control device (EHC) must be coupled to a specific IMD-PQS prequalified SDD, and the combination of EHC-SDD must then also pass laboratory tests and field evaluation. Four general types of EHC systems are currently available: (1) a standalone "kit" including some electrical devices (e.g. a battery, cabling, lights and other electrical consuming load devices); (2) basic "integrated" functionality (i.e. users to provide plug-in devices for USB, 12 Volt or other loads); or (3) "custom" where the surplus electricity can be directed for other uses (e.g. 12-volt battery recharging to power user supplied 5 vdc and 12 vdc loads or an inverter to power limited 120/220 vac user

supplier loads, or (4) "basic USB" which is strictly limited ti a 1A 5 vdc (maximum of 5W) USB-A port integrated into the appliance. Energy production from the EHC can be as little as 5 to 60 Wh/day for a "Basic USB" EHC, to over 500 WH/day for a "kit" or "custom" EHC. All types must be tested and prequalified. However, only “kits” will be identified with an IMD-PQS code number. IMD-PQS does not lab-test load devices like lights, fans, other peripheral optional items or customized systems (e.g. inverters, medical equipment).

Additional information is provided in the "Comments" section of the relevant SDD product data sheet(s). Product data sheets can be found in the IMD-PQS Catalogue section E003: Refrigerators and freezers.

Furthermore, it is technically possible to increase the energy harvest (Wh/days) both with more efficient harvest of single compressor appliances, harvest from dual compressor appliances as well as multiple SDD + EHC harvesting in parallel (e.g. to charge a larger battery or run other motors).

E007.3: Refrigerator and freezer spare parts and kits

Refrigerator and freezer spare parts are listed in the IMD-PQS Catalogue on the same page of each relevant prequalified appliance.

CATEGORY DOCUMENTATION, GUIDANCE FOR MANUFACTURERS/SUPPLIERS & SUPPORTING INFORMATION FOR USERS

Performance specifications

PQS performance specification E007/EHC01.1: Solar direct drive surplus energy harvest control

PQS performance specification E007/EHC02.1: Solar Direct Drive Basic Energy Harvest Control devices

PQS performance specification E007/VS01.6: Single-phase voltage stabilizer for AC-powered refrigerators and freezers

PQS performance specification E007/VS02.1: Three-phase voltage stabilizer for AC powered Walk-In Cold & Freezer Rooms

Verification protocols

PQS Self-testing verification protocol E007/VS02-VP.1: Three-Phase Voltage Stabilizers for AC powered Walk-In Cold and Freezer Rooms

PQS independent type-testing protocol E007/VS01-VP.6: Single-phase voltage stabilizer for AC-powered refrigerators and freezers

PQS independent type-testing protocol E007/EHC02-VP.2: Solar Direct Drive Basic Energy Harvest Control devices

PQS independent type-testing protocol E007/EHC01-VP.1: Solar direct drive surplus energy harvest control devices

Guidance for manufacturers or suppliers

IMD-PQS Guidelines for Prequalification Holders

Generic guide for the field evaluation of new technologies for WHO PQS prequalification GENERIC/GUIDE 1.1

Supporting information for users

Solarization: Access to modern energy services for health facilities in resource-constrained settings

WHO Immunisation Devices - Performance, Quality & Safety

E007 EHC: Cold chain accessories



Product name:	**Health Centre Kit**
IMD-PQS Code:	E007-001
Status:	Prequalified
Date of acceptance:	13 Jun 2018
Appliance type:	E007
Product description:	Energy Harvest Control
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	Health Centre Kit
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	**Nominal Power (W)**	55.00
Solar radiation ref period (kWh/m2/day)	3.50	**Min Average Daily Energy (Wh)**	450.00
Max Energy on Battery (Wh)	120.00		

PRODUCT SPECIFICATIONS - POWER OUTLETS

Cooling Appliance Max (V)	47.00	**Cooling Appliance Nominal (V)**	47.00
Cooling Appliance Number of Port	1.00	**USB Ports Max (A)**	1.00
USB Ports Nominal (A)	1.00	**USB ports Number of ports**	2.00
Car Socket Maximum (V)	14.70	**Car socket Nominal (V)**	12.60
Car socket ports Number of ports	1.00	**Fan Connector**	Included in load
Fan Connector Max (V)	14.70	**Fan Connector Nominal (V)**	12.60
Fan connector ports Number of ports	1.00	**LED lights portable**	Included in load
Harvesting LED Lights Max (V)	18.00	**Harvesting LED Lights Nominal (V)**	17.00
Harvesting LED Lights Number of ports	2.00	**Mode of operation**	Other

PRODUCT SPECIFICATIONS - AVAILABLE ENERGY HARVEST

Connected load 1	2 xLED + fan	**Run Time At Night 1 (hours)**	4.00
Run Time per Day 1 (hours)	16.00		

Comments	Solar panel voltage: 47 V Max Harvesting_LED_lights_nominal: yes Dust_and_Water_Ingress_Protection: 54 Input voltage regulation range V: 0 Input frequency regulation range (Hz): 0 Mode of operation: Servo-Induction Mechanical tap-changing

PRICE AND SHIPPING

Shipping volume (m3)	0.433	**Shipping weight (kg)**	44.00
Price	> 100 units 1281 Euros	**Year of base price**	2025
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	CE marking; ISO 9001:2015; ISO 14001:2015
Specification Reference	Applicable PQS specification: EHC01.1 Applicable PQS VP(s): EHC01-VP.1		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	**Address**	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	**Email**	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 17-003		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei L-9809 Hosingen Luxembourg Luxembourg

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E007 VS: Cold chain accessories



Product name:	**SVS04E-22**
IMD-PQS Code:	E007-004
Status:	Prequalified
Date of acceptance:	23 May 2019
Appliance type:	E007
Product description:	Single Phase Voltage Stabiliser - Extended Range
Manufacturer:	Sollatek (UK) Limited
Manufacturers Reference:	SVS04E-22
Country of Manufacture:	United Kingdom
Address:	Sollatek House, Waterside Drive, Langley SL3 6EZ, United Kingdom United Kingdom of Great Britain and Northern Ireland
Telephone:	+441753214500
Email:	maan.allos@sollatek.com
Website address:	www.sollatek.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - ADDITIONAL

Nominal Input Frequency (Hz)	60.00	**Nominal Input Voltage (V)**	155.00
Nominal Output Frequency (Hz)	60.00	**Nominal Output Voltage (V)**	285.00
Power Rating (kVA)	1.00	**CE marking**	Yes

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E007/VS01.5 Applicable PQS VP(s): E007/VS01_VP.5

PRODUCT SITES

Organization name	Sollatek (UK) Limited
Address	Sollatek House, Waterside Drive, Langley SL3 6EZ, United Kingdom United Kingdom of Great Britain and Northern Ireland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E007 VS: Cold chain accessories



Product name:	**HVS-1000**
IMD-PQS Code:	E007-005
Status:	Prequalified
Date of acceptance:	11 May 2019
Appliance type:	E007
Product description:	Single Phase Voltage Stabiliser
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HVS-1000
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - ADDITIONAL

Nominal Input Frequency (Hz)	60.00	**Nominal Input Voltage (V)**	230.00
Mode of operation	Other	**Mode of operation (Other)**	Servo-Induction Mechanical tap-changing
CE marking	Yes		

PRICE AND SHIPPING

Price	70 USD	**Year of base price**	2021

QUALITY STANDARD

Specification Reference	Applicable PQS specification: PQS/E007/VS01.5 Applicable PQS VP(s): E007/VS01-VP.5

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E007 VS: Cold chain accessories



Product name:	**WHT-230ER**
IMD-PQS Code:	E007-007
Status:	Prequalified
Date of acceptance:	26 Apr 2022
Appliance type:	E007
Product description:	Single Phase Voltage Stabiliser - Extended Range
Manufacturer:	SAGAR ELECTRICALS
Manufacturers Reference:	WHT-230ER
Country of Manufacture:	India
Address:	14A Industrial Estate, Jagadhri Road, Ambala Cantt, Haryana 133001, India India
Telephone:	+91 171 2699445
Email:	nkthapar@electrogard.com
Website address:	www.electrogard.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - ADDITIONAL

Nominal Input Frequency (Hz)	50.00	**Nominal Input Voltage (V)**	230.00
Nominal Output Frequency (Hz)	50.00	**Nominal Output Voltage (V)**	230.00
Input frequency regulation range (Hz)	50-60	**Input Voltage Regulation Range (V)**	110-274
Output Current (A)	4.40	**Short Circuit Protection Type**	MCB Type C
Overload Protection Type	CT actuated electronic shut-down with auto reset after 3-6 minutes	**Overvoltage Endurance Electrical Withstand (V)**	415.00
Impulsive Transient Protection (kA)	8.00	**Power Rating (kVA)**	1.00
Ingress protection rating IP	IP21	**Maximum Rated Ambient Temp (°C)**	43.00
Minimum Rated Ambient Temp (°C)	-5.00	**External dimensions height (mm)**	129.00
External dimensions length (mm)	325.00	**External dimensions width (mm)**	238.00
Power Lead Length (m)	1.50	**Mode of operation**	Other
Mode of operation (Other)	Servo-Induction Mechanical tap-changing	**Control Panel Display**	Indicators for Mains Present :RED & Output Present: Green
Display medium	LED	**CE marking**	Yes
Efficiency Percentage (%)	0.90	**Relative Humidity Rating (%)**	0.95

Comments	Input frequency regulation range (Hz): 50-60Hz Input_voltage_regulation_range_v: 110-274 V Output_voltage_accuracy_pct: 230V +10% or -15%

PRICE AND SHIPPING

Shipping weight (kg)	9.50

QUALITY STANDARD

Specification Reference	Applicable PQS specification: E007/VS01.5 Applicable PQS VP(s): E007/VS01-VP.5

PRODUCT SITES

Organization name	SAGAR ELECTRICALS

Address	14A Industrial Estate, Jagadhri Road, Ambala Cantt, Haryana 133001, India India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E007 VS: Cold chain accessories



Product name:	**PPS MFS-100Lw**
IMD-PQS Code:	E007-008
Status:	Prequalified
Date of acceptance:	17 Feb 2023
Appliance type:	E007
Product description:	Voltage Stabiliser (Integrated)
Manufacturer:	Thyratron Electronic Applictions SA
Manufacturers Reference:	PPS MFS-100Lw
Country of Manufacture:	Greece
Address:	Kydonies, Erymanthos, Achaia 25008 Patra Greece
Telephone:	+30 2694 062 010
Email:	christos@thyratron.gr
Website address:	https://www.thyratron.gr
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - ADDITIONAL

Nominal Input Frequency (Hz)	60.00	**Nominal Input Voltage (V)**	230.00
Nominal Output Frequency (Hz)	60.00	**Nominal Output Voltage (V)**	230.00
Output Current (A)	3.20	**Power Rating (kVA)**	0.73
Mode of operation	Other	**Mode of operation (Other)**	Servo-Induction Mechanical tap-changing
CE marking	Yes		

Comments	Shipping Volume: ECU: 36 pcs/Carton, Transformers: 6 pcs/Carton Shipping Weight: ECU: 7Kg/carton, Transformers: 25Kg/Carton Input_voltage_regulation_range_v: 110-285 V

PRICE AND SHIPPING

Price	70 USD	**Year of base price**	2025
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO9001:2015; ISO14001:2015
Specification Reference	WHO/PQS/E007/VS01.5		

VERIFICATION

Verification Laboratory	Labor SA	**Address**	Ethnikis Antistaseos 84, Pallini, P.C. 15351, GreeceGreece
Telephone	+30 2106033377	**Email**	labor@labor.gr
Verification Report Reference	VoC 0565.006.3.02		

PRODUCT SITES

Organization name	Thyratron Electronic Applictions SA
Address	Kydonies, Erymanthos, Achaia 25008 Patra Greece

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E007 VS: Cold chain accessories



Product name:	**HSV1000U**
IMD-PQS Code:	E007-009
Status:	Prequalified
Date of acceptance:	24 Oct 2023
Product description:	Voltage Stabiliser
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HSV1000U
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - ADDITIONAL

Nominal Input Voltage (V)	230.00	**Nominal Output Voltage (V)**	230.00
Input frequency regulation range (Hz)	47-63	**Input Voltage Regulation Range (V)**	110-264
Output Current (A)	4.40	**Output Voltage Accuracy (%)**	10.00
Impulsive Transient Protection (kA)	4.00	**Power Rating (kVA)**	1000.00
Ingress protection rating IP	IP31	**Maximum Rated Ambient Temp (°C)**	45.00
Minimum Rated Ambient Temp (°C)	-15.00	**External dimensions height (mm)**	20.00
External dimensions length (mm)	34.00	**External dimensions width (mm)**	15.00
Power Lead Length (m)	1.70	**CE marking**	Yes
Efficiency Percentage (%)	100.00	**Relative Humidity Rating (%)**	95.00

Comments	Nominal input frequency: 50-60 Hz Nominal output frequency: 47-63 Hz Overvoltage_endurance_Electrical_withstand: 60-500 V

PRICE AND SHIPPING

Shipping volume (m3)	0.01	**Weight per Package (Kg)**	12.0000
Minimum order	5.00	**Units per package**	1.00
Price	240	**Year of base price**	2023
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001

VERIFICATION

Verification Laboratory	CHEARI	**Address**	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	**Email**	gongcx@cheari.com

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E007 VS: Cold chain accessories



Product name:	**PPS_MFS-100Lw [v1.6]**
IMD-PQS Code:	E007-010
Status:	Prequalified
Date of acceptance:	14 Jun 2024
Product description:	Voltage Stabiliser (Integrated)
Manufacturer:	Thyratron Electronic Applictions SA
Manufacturers Reference:	PPS_MFS-100Lw [v1.6]
Country of Manufacture:	Greece
Address:	Kydonies, Erymanthos, Achaia 25008 Patra Greece
Telephone:	+30 2694 062 010
Email:	christos@thyratron.gr
Website address:	https://www.thyratron.gr
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Power Input (W)	0.73

PRODUCT SPECIFICATIONS - ADDITIONAL

Nominal Input Voltage (V)	230.00	**Nominal Output Voltage (V)**	230.00
Input frequency regulation range (Hz)	47-63	**Input Voltage Regulation Range (V)**	110-285
Output Current (A)	3.20	**Short Circuit Protection Type**	Internal
Overload Protection Type	Internal	**Impulsive Transient Protection (kA)**	10.00
Power Rating (kVA)	73.00	**Ingress protection rating IP**	4X
Maximum Rated Ambient Temp (°C)	43.00	**Minimum Rated Ambient Temp (°C)**	-5.00
Mode of operation	Other	**Mode of operation (Other)**	AC to AC voltage stabilizer
CE marking	Yes		

Comments	Shipping Volume: ECU: 36 pcs/Carton, Transformers: 6 pcs/Carton Shipping Weight: ECU: 11Kg/carton, Transformers: 25Kg/Carton Output Voltage Accuracy (%): +10% or -15% Nominal Input Frequency (Hz): 50 or 60 Hz Nominal Output Frequency (Hz): 50 - 60 Hz Relative Humidity Rating (%): 5 - 95% RH, non-condensing Weight per Unit (Kg): 0.270Kg ECUs, 3.970Kg Transformer, Total 4.240Kg Units per package 36 ECUs/carton, 6 Transformers/carton OverVolt.EnduranceElectricalWithstand(V): 60 - 500VAC Weight per Package (Kg): 10.5kg ECUs(36qty)/carton, 24.5kg Transformers(6qty)/carton External dimensions height (mm) 32.5mm/ECU, 131mm/Transformer External dimensions length (mm) 121mm/ECU, 94.5mm/Transformer External dimensions width (mm) 114mm/ECU, 108.5mm/Transformer

PRICE AND SHIPPING

Minimum order	1.00	**Price**	90 $US
Year of base price	2025	**Incoterms**	EXW

QUALITY STANDARD

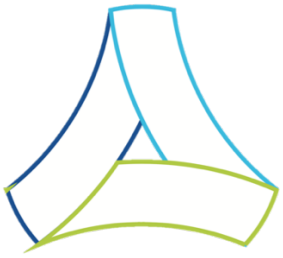
Quality Standard	Other	**Quality standard (Other)**	ISO9001:2015; ISO14001:2015
Specification Reference	WHO/PQS/E007/VS01.6		

VERIFICATION

Verification Laboratory	Labor SA	**Address**	Ethnikis Antistaseos 84, Pallini, P.C. 15351, GreeceGreece
Telephone	+30 2106033377	**Email**	labor@labor.gr
Verification Report Reference	VoC 0565.011.3.05		

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



E008
Single-use Injection Devices

The products listed in this section are auto-disable (AD) syringes used to administer vaccines. WHO strongly recommends the systematic and exclusive use of auto-disable (AD) syringes only (and not disposable and reusable syringes) for either the administration or reconstitution of vaccines.

The correct use of injection devices for immunization is described in the WHO's Immunization in practice: A practical guide for health staff.

Currently, auto-disable syringes are the only equipment that WHO strongly recommends for the administration of injectable vaccines. Performance standards for AD syringes are defined in ISO 7886-3.

Details regarding the products included in each sub-category of E008, as well as guidelines, performance specifications and verification protocols for this category, can be accessed through the drop-down sections below.

E008.1: Auto-disable syringes

WHO-prequalified syringes must comply with ISO 7886-3 – Sterile hypodermic syringes for single use – Part 3: Auto-disable syringes for fixed-dose immunization.

The auto-disable syringe is the only type of single-use equipment that may be used for the administration of vaccines in all settings; it carries the lowest risk of person-to-person transmission of blood-borne pathogens because it cannot be reused. Refer to the Safety of injections : WHO-UNICEF-UNFPA joint statement on the use of auto-disable syringes in immunization services, 2nd rev-.

Compliance with the IMD-PQS Product Specification and Verification Protocol is required (refer to "Category Documentation" below).

E008.2: Standard disposal syringes

WHO strongly recommends the systematic and exclusive use of auto-disable (AD) syringes only (and not disposable and reusable syringes) for either the administration or reconstitution of vaccines in the context of immunization. Refer to the Joint Policy

Statement: Promoting the exclusive use of injection safety devices for all immunization activities.

WARNING: There is clear evidence that the reuse of disposable syringes is widespread globally. WHO warns governments and donor agencies that the reuse of standard disposable syringes and needles places the general public at high risk of disease and death. Refer to the WHO guideline on the use of safety-engineered syringes for intramuscular, intradermal and subcutaneous injections in health care settings.

E008.3: Needle-free syringe injectors

Needle-free jet injectors deliver a sterile, single dose of liquid medication by pressurizing the dose in a chamber from which it is ejected through a small orifice on an auto-disabling syringe with sufficient force to penetrate human tissues. It is intended for clinical use by medical personnel on humans. It may be used to deliver intra-dermal (ID) and/or subcutaneous (SC) and/or intra-muscular (IM) injections.

Single-use and auto-disabling refer to the needle-free syringe/cartridge, not the injector itself.

Compliance with the IMD-PQS Product Specification PQS performance specification E008/JI01: Single-use auto-disable needle-free syringe injectors and Verification Protocol PQS type-examination protocol E008/JI01-VP.1: Single-use auto-disable needle-free syringe injectors is required.

E008.4: Disposal of injection equipment

Additional equipment is necessary to ensure the safety of the contaminated waste stream.

Compliance with the IMD-PQS Product Specification E010/SB01.1: Safety boxes for the collection of used syringes, needles and sharps and Verification Protocol PQS independent type-testing protocol E010/SB01-VP.1: Safety box for the disposal of used sharps is required.

CATEGORY DOCUMENTATION, GUIDANCE FOR MANUFACTURERS/SUPPLIERS & SUPPORTING INFORMATION FOR USERS

Performance specifications

PQS performance specification E008/JI01: Single-use auto-disable needle-free syringe injectors

ISO 7886-3 – Sterile hypodermic syringes for single use – Part 3: Auto-disable syringes for fixed-dose immunization.

E010/SB01.1: Safety boxes for the collection of used syringes, needles and sharps.

Verification protocols

PQS type-examination protocol E008/JI01-VP.1: Single-use auto-disable needle-free syringe injectors

PQS independent type-testing protocol E010/SB01-VP.1: Safety box for the disposal of used sharps

Guidance for manufacturers or suppliers

Generic guide for the field evaluation of new technologies for WHO PQS prequalification GENERIC/GUIDE 1.1

IMD-PQS Guidelines for Prequalification Holders

Supporting information for users

Guiding principles to ensure injection device security

Immunization in practice: a practical guide for health staff – 2015 update

Safety of injections: WHO-UNICEF-UNFPA joint statement on the use of auto-disable syringes in immunization services

Joint Policy Statement: Promoting the exclusive use of injection safety devices for all immunization activities

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**MEDECO® INJECT AD 0.5 ml**
IMD-PQS Code:	E008-004
Status:	Prequalified
Date of acceptance:	25 Sep 2005
Appliance type:	E008
Product description:	AD syringe 0.5 ml
Manufacturer:	Abu Dhabi Medical Devices Co. L.L.C
Manufacturers Reference:	MEDECO® INJECT AD 0.5 ml
Country of Manufacture:	United Arab Emirates
Address:	MUSSAFAH INDUSTRIAL AREA, M-43, PLOT 124, 30485, ABU DHABI United Arab Emirates
Telephone:	+971-2-6199100
Email:	info@admd.ae
Website address:	http://www.admd.ae
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark 1639	**RUP mechanism**	valve in the syringe hub
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	1300.00	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

Comments	available in two carton sizes, 1,400pcs and 3,000 pcs Minimum order (units): 1400 or 3000 Shipping volume (m3): 1,400 pcs 0.055 m3, 3,000 0.112m3 Weight per package (kg): 1,400 pcs 5.7 kg, 3,000 11.1kg

PRICE AND SHIPPING

Pieces per package	1400	**Price 1**	100 000 units and more: 0.054 US$ per piece
Year of base price	2016	**Incoterms**	EXW

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001; ISO 7886-3
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	Abu Dhabi Medical Devices Co. L.L.C
Address	MUSSAFAH INDUSTRIAL AREA, M-43, PLOT 124, 30485, ABU DHABI United Arab Emirates

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Kojak Selinge 0.5ml**
IMD-PQS Code:	E008-007
Status:	Prequalified
Date of acceptance:	22 Dec 2004
Appliance type:	E008
Product description:	AD syringe 0.5ml
Manufacturer:	Hindustan Syringes & Medical Devices Ltd.
Manufacturers Reference:	Kojak Selinge 0.5ml
Country of Manufacture:	India
Address:	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India
Telephone:	+91 129-4289000
Email:	hmduk@hmdhealthcare.com
Website address:	www.hmdhealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
RUP mechanism	Locked / broken plunger	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Units per package**	100.00
AD Number pieces	3 pieces	**Auto-disabling at:**	End of injection
Needle Size	23Gx1" (0.60 x 25 mm)	**AD Sub Category**	Simple AD
AD Primary packaging	Blister & ribbon pack		

Comments	Option: Two types of packs with 100 units or 200 units

PRICE AND SHIPPING

Shipping volume (m3)	0.09	**Weight per package (Kg)**	13.7000
Pieces per package	2000	**Minimum order (unit)**	20000.00
Price 1	USD 3.5/100 Pcs	**Year of base price**	2025
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	Hindustan Syringes & Medical Devices Ltd.
Address	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**K1 OneJect AD 0.5ml**
IMD-PQS Code:	E008-019
Status:	Prequalified
Date of acceptance:	10 Dec 2005
Appliance type:	E008
Product description:	AD syringe 0.5ml
Manufacturer:	PT Oneject Indonesia
Manufacturers Reference:	K1 OneJect AD 0.5ml
Country of Manufacture:	Indonesia
Address:	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia
Telephone:	+62 21 879 17 422
Email:	niken.permatasari@oneject.co.id
Website address:	www.oneject.co.id
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE 0044	**RUP mechanism**	Locked / broken plunger
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	1600.00	**AD Number pieces**	3 pieces
Auto-disabling at:	End of injection	**Needle Size**	24Gx1" (0.55 x 25 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.06	**Weight per package (Kg)**	7.7000
Pieces per package	1600	**Minimum order (unit)**	16000.00
Price 1	Upon request to manufacturer	**Year of base price**	2005
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 7886-3
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	PT Oneject Indonesia
Address	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Yushou® AD syringe 0.5ml**
IMD-PQS Code:	E008-020
Status:	Prequalified
Date of acceptance:	22 Sep 2005
Appliance type:	E008
Product description:	AD syringe 0.5ml
Manufacturer:	Wuxi Yushou Medical Appliances Co., Ltd
Manufacturers Reference:	Yushou® AD syringe 0.5ml
Country of Manufacture:	China
Address:	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China
Telephone:	+86 (510)3777555
Email:	mike@chinasyringe.com
Website address:	http://www.chinasyringe.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**RUP mechanism**	Clip locking plunger at start
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	200.00	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.088	**Weight per package (Kg)**	11.0000
Pieces per package	3000	**Minimum order (unit)**	200000.00
Price 1	Price available on request	**Year of base price**	2005
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 7886-3
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	Wuxi Yushou Medical Appliances Co., Ltd
Address	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**VanishPoint II® Retractable AD syringe 0.5ml**
IMD-PQS Code:	E008-025
Status:	Prequalified
Date of acceptance:	15 Jun 2005
Appliance type:	E008
Product description:	Retractable AD syringe 0.5ml
Manufacturer:	Retractable Technologies, Inc.
Manufacturers Reference:	VanishPoint II® Retractable AD syringe 0.5ml
Country of Manufacture:	China
Address:	511 Lobo Lane, Little Elm, TX 75068 United States of America
Telephone:	+1 972 294 1010
Email:	kduesman@retractable.com
Website address:	www.retractable.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
RUP mechanism	Retraction of needle into barrel by spring	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Units per package**	100.00
AD Number pieces	3 pieces	**Auto-disabling at:**	End of injection
Needle Size	23Gx1" (0.60 x 25 mm)	**AD Sub Category**	Retractable
AD Primary packaging	Blister pack		

Comments	The retraction of the needle is a reuse prevention feature (RUP) and a sharp injury Protection (SIP)

PRICE AND SHIPPING

Shipping volume (m3)	0.0432	**Weight per package (Kg)**	4.5000
Pieces per package	800	**Minimum order (unit)**	800.00
Price 1	On request	**Year of base price**	2005
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3

PRODUCT SITES

Organization name	Retractable Technologies, Inc.
Address	511 Lobo Lane, Little Elm, TX 75068 United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety



E008: Injection devices for immunization

IMD-PQS Code:	**E008-026**
Status:	Suspended
Date of acceptance:	14 Jul 2006
Appliance type:	E008

Specifications

Current PQS status:	*Suspended*	**Valid until:**	

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**K1 Oneject 0.05 ml**
IMD-PQS Code:	E008-030
Status:	Prequalified
Date of acceptance:	21 May 2007
Appliance type:	E008
Product description:	AD syringe 0.05 ml
Manufacturer:	PT Oneject Indonesia
Manufacturers Reference:	K1 Oneject 0.05 ml
Country of Manufacture:	Indonesia
Address:	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia
Telephone:	+62 21 879 17 422
Email:	niken.permatasari@oneject.co.id
Website address:	www.oneject.co.id
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.05	**Graduations (ml)**	0.05
Markings	CE 0044	**RUP mechanism**	Locked / broken plunger
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	3 pieces
Auto-disabling at:	End of injection	**Needle Size**	26Gx3/8" (0.45 x 10 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.06	**Weight per package (Kg)**	6.3000
Pieces per package	1600	**Minimum order (unit)**	16000.00
Price 1	On request	**Year of base price**	2007
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 7886-3
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	PT Oneject Indonesia
Address	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**YUSHOU® AD syringe 0.1ml**
IMD-PQS Code:	E008-032
Status:	Prequalified
Date of acceptance:	01 May 2009
Appliance type:	E008
Product description:	AD syringe 0.1ml
Manufacturer:	Wuxi Yushou Medical Appliances Co., Ltd
Manufacturers Reference:	YUSHOU® AD syringe 0.1ml
Country of Manufacture:	China
Address:	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China
Telephone:	+86 (510)3777555
Email:	mike@chinasyringe.com
Website address:	http://www.chinasyringe.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.10	**Graduations (ml)**	0.10
Markings	CE mark	**RUP mechanism**	locking clip, locked trapped piston
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	200.00	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	27Gx3/8" (0.40 x 10 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.088	**Weight per package (Kg)**	11.0000
Pieces per package	3000	**Minimum order (unit)**	200000.00
Price 1	On request	**Year of base price**	2008
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 7886-3
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	Wuxi Yushou Medical Appliances Co., Ltd
Address	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Yushou® AD syringe 0.05ml**
IMD-PQS Code:	E008-033
Status:	Prequalified
Date of acceptance:	01 May 2009
Appliance type:	E008
Product description:	AD syringe 0.05ml
Manufacturer:	Wuxi Yushou Medical Appliances Co., Ltd
Manufacturers Reference:	Yushou® AD syringe 0.05ml
Country of Manufacture:	China
Address:	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China
Telephone:	+86 (510)3777555
Email:	mike@chinasyringe.com
Website address:	http://www.chinasyringe.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.05	**Graduations (ml)**	0.05
Markings	CE mark	**RUP mechanism**	locking clip, locked trapped piston
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	200.00	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	27Gx3/8" (0.40 x 10 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.088	**Weight per package (Kg)**	11.0000
Pieces per package	3000	**Minimum order (unit)**	200000.00
Price 1	On request	**Year of base price**	2008
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 7886-3
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	Wuxi Yushou Medical Appliances Co., Ltd
Address	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**AD syringe 0.5 ml SKIFA**
IMD-PQS Code:	E008-034
Status:	Prequalified
Date of acceptance:	14 Jan 2009
Appliance type:	E008
Product description:	AD syringe 0.5 ml
Manufacturer:	Mitra Rajawali Banjaran, PT
Manufacturers Reference:	AD syringe 0.5 ml SKIFA
Country of Manufacture:	Indonesia
Address:	JL. Raya Banjaran KM16 Bandung, Jawa Barat Indonesia Indonesia
Telephone:	+62 22 594 0151
Email:	nurasfiyahqo@gmail.com
Website address:	http://www.mrb.co.id
Valid until:	31 May 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**RUP mechanism**	locked middle injection -broken plunger
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	3 pieces
Auto-disabling at:	Middle of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Plastic ribbon

PRICE AND SHIPPING

Shipping volume (m3)	0.071	**Weight per package (Kg)**	9.6400
Pieces per package	2000	**Minimum order (unit)**	10000.00
Price 1	On request	**Year of base price**	2008
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 7886-3
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	Mitra Rajawali Banjaran, PT
Address	JL. Raya Banjaran KM16 Bandung, Jawa Barat Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Auto-disable syringe 0.5ml BD SoloShot™ Mini**
IMD-PQS Code:	E008-035
Status:	Prequalified
Date of acceptance:	04 Aug 2009
Appliance type:	E008
Product description:	AD syringe 0.5ml
Manufacturer:	Becton Dickinson
Manufacturers Reference:	Auto-disable syringe 0.5ml BD SoloShot™ Mini
Country of Manufacture:	Spain
Address:	Crtra. Mequinenza (N-211) S/N, 22520, Fraga (Huesca) Spain
Telephone:	+34 974470900
Email:	kathy.cooman@bd.com
Website address:	http://www.bd.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**RUP mechanism**	locking clip; locked trapped piston
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	2 pieces
Auto-disabling at:	Start of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

Comments	Product is available in 100 pc, 200 pc and 240 pcs per shelf pack, which results respectively in 3300 pcs and 4320 pcs per carton Minimum order (units): 3300 / 3600 /4320 Weight per package (kg): 10.45 / 10.20 kg

PRICE AND SHIPPING

Shipping volume (m3)	0.102	**Pieces per package**	3300
Price 1	On request	**Year of base price**	2009
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001, ISO 7886-3
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

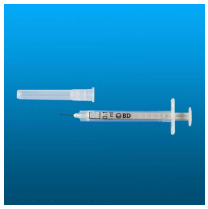
Organization name	Becton Dickinson
Address	Crtra. Mequinenza (N-211) S/N, 22520, Fraga (Huesca) United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**AD syringe 0.1ml BD SoloShot™ Mini**
IMD-PQS Code:	E008-036
Status:	Prequalified
Date of acceptance:	04 Aug 2009
Appliance type:	E008
Product description:	AD syringe 0.1ml
Manufacturer:	Becton Dickinson
Manufacturers Reference:	AD syringe 0.1ml BD SoloShot™ Mini
Country of Manufacture:	Spain
Address:	Crtra. Mequinenza (N-211) S/N, 22520, Fraga (Huesca) Spain
Telephone:	+34 974470900
Email:	kathy.cooman@bd.com
Website address:	http://www.bd.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.10	**Graduations (ml)**	0.10
Markings	CE mark	**RUP mechanism**	locking clip; locked trapped piston
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	2 pieces
Auto-disabling at:	Start of injection	**Needle Size**	27Gx3/8" (0.40 x 10 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

Comments	Product is available in 100pc per shelf pack, which results respectively in 3300 pcs per carton. Minimum order (units): 3300 / 3600 Weight per package (kg): 10.45 kg / 10.2 kg

PRICE AND SHIPPING

Shipping volume (m3)	0.102	**Pieces per package**	3300
Price 1	On request	**Year of base price**	2009
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001, ISO 7886-3
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	Becton Dickinson
Address	Crtra. Mequinenza (N-211) S/N, 22520, Fraga (Huesca) United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**AD syringe 0.05ml BD SoloShot™ Mini**
IMD-PQS Code:	E008-037
Status:	Prequalified
Date of acceptance:	04 Aug 2009
Appliance type:	E008
Product description:	AD syringe 0.05ml
Manufacturer:	Becton Dickinson
Manufacturers Reference:	AD syringe 0.05ml BD SoloShot™ Mini
Country of Manufacture:	Spain
Address:	Crtra. Mequinenza (N-211) S/N, 22520, Fraga (Huesca) Spain
Telephone:	+34 974470900
Email:	kathy.cooman@bd.com
Website address:	http://www.bd.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.05	**Graduations (ml)**	0.05
Markings	CE mark	**RUP mechanism**	locking clip; locked trapped piston
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	2 pieces
Auto-disabling at:	Start of injection	**Needle Size**	27Gx3/8" (0.40 x 10 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

Comments	Product is available in 100 pcper shelf pack, which results in 3300 pcs per carton. Weight per package (kg): 10.45 kg / 10.2 kg

PRICE AND SHIPPING

Shipping volume (m3)	0.102	**Pieces per package**	3300
Minimum order (unit)	3300.00	**Price 1**	On request
Year of base price	2009	**Incoterms**	FCA

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001, ISO 7886-3
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	Becton Dickinson
Address	Crtra. Mequinenza (N-211) S/N, 22520, Fraga (Huesca) United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**KOJAK SELINGE 0.5ml**
IMD-PQS Code:	E008-039
Status:	Prequalified
Date of acceptance:	15 Apr 2009
Appliance type:	E008
Product description:	AD syringe 0.5 ml
Manufacturer:	Hindustan Syringes & Medical Devices Ltd.
Manufacturers Reference:	KOJAK SELINGE 0.5ml
Country of Manufacture:	India
Address:	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India
Telephone:	+91 129-4289000
Email:	hmduk@hmdhealthcare.com
Website address:	www.hmdhealthcare.com
Valid until:	31 May 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
RUP mechanism	locked / broken plunger	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Units per package**	100.00
AD Number pieces	3 pieces	**Auto-disabling at:**	Start of injection
Needle Size	23Gx1" (0.60 x 25 mm)	**AD Sub Category**	Simple AD
AD Primary packaging	Blister & ribbon pack		

Comments	Two types of packs with 100 units or 200 units

PRICE AND SHIPPING

Shipping volume (m3)	0.09	**Weight per package (Kg)**	13.7000
Pieces per package	2000	**Minimum order (unit)**	20000.00
Price 1	USD 3.5/100 Pcs	**Year of base price**	2025
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	Hindustan Syringes & Medical Devices Ltd.
Address	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**AD Syringe 0.5ml - Revital CADY**
IMD-PQS Code:	E008-040
Status:	Prequalified
Date of acceptance:	10 Aug 2009
Appliance type:	E008
Product description:	AD Syringe 0.5ml
Manufacturer:	Revital Health Care (EPZ) Limited
Manufacturers Reference:	AD Syringe 0.5ml - Revital CADY
Country of Manufacture:	Kenya
Address:	P.O. BOX 80713-80100 MOMBASA LR No. 5025/1239, Takaungu 80100 Mombasa Kenya Kenya
Telephone:	+254722412900
Email:	qa@rhcare-epz.com
Website address:	www.revitalhcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE 0123	**RUP mechanism**	Plunger Disables/breaks
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	2 pieces
Auto-disabling at:	End of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Sub Category	Simple AD	**AD Mechanism**	Locked / Broken Plunger
AD Primary packaging	Blister pack		

Comments	Pieces per carton 4,000/3600 Shipper cartons of 8600 boxes of 100 pieces Note: this syringe is to be used with caution by health care workers as per instructions of use. Shipping volume (m3): 0.134/0.112

PRICE AND SHIPPING

Shipping volume (m3)	0.134	**Weight per package (Kg)**	6.0000
Pieces per package	3600	**Minimum order (unit)**	860000.00
Price 1	Per unit: 0.06 €	**Year of base price**	2008
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3

PRODUCT SITES

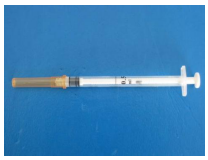
Organization name	Revital Health Care (EPZ) Limited
Address	P.O. BOX 80713-80100 MOMBASA LR No. 5025/1239, Takaungu 80100 Mombasa Kenya Kenya

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**AD syringe 0.5ml**
IMD-PQS Code:	E008-041
Status:	Prequalified
Date of acceptance:	11 Dec 2009
Appliance type:	E008
Product description:	AD syringe 0.5ml
Manufacturer:	Anhui Tiankang Medical Technology Co., Ltd
Manufacturers Reference:	AD syringe 0.5ml
Country of Manufacture:	China
Address:	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China
Telephone:	+86 550 7308592
Email:	marshall988@163.net
Website address:	http://www.tkmedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**RUP mechanism**	Clip blocking plunger
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

Comments	Cartons of 7680 boxes of 100 pieces Shipping volume (m3): Container 28 m3

PRICE AND SHIPPING

Shipping volume (m3)	28.0	**Weight per package (Kg)**	3840.0000
Pieces per package	7680	**Minimum order (unit)**	768000.00
Price 1	Up to 768 000 units: 0.0405 €	**Price 2**	Up to 1 590 000 units: 0.0378 €
Year of base price	2008	**Incoterms**	FCA

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 7886-3
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	Anhui Tiankang Medical Technology Co., Ltd
Address	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**AD syringe 0.5ml**
IMD-PQS Code:	E008-043
Status:	Prequalified
Date of acceptance:	09 Feb 2010
Appliance type:	E008
Product description:	AD syringe 0.5ml
Manufacturer:	Jiangxi Sanxin Medtec Co.,Ltd
Manufacturers Reference:	AD syringe 0.5ml
Country of Manufacture:	China
Address:	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China
Telephone:	+86 791 85988111
Email:	fgb@sanxin-med.com
Website address:	www.sanxin-med.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**RUP mechanism**	Plunger lock
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	3 pieces
Auto-disabling at:	End of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.1	**Weight per package (Kg)**	15.0000
Pieces per package	3000	**Minimum order (unit)**	2000.00
Price 1	On request	**Year of base price**	2009
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 7886-3
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	Jiangxi Sanxin Medtec Co.,Ltd
Address	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Kojak AD syringe 0.1ml**
IMD-PQS Code:	E008-045
Status:	Prequalified
Date of acceptance:	05 Oct 2011
Appliance type:	E008
Product description:	AD syringe 0.1ml
Manufacturer:	Hindustan Syringes & Medical Devices Ltd.
Manufacturers Reference:	Kojak AD syringe 0.1ml
Country of Manufacture:	India
Address:	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India
Telephone:	+91 129-4289000
Email:	hmduk@hmdhealthcare.com
Website address:	www.hmdhealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.10	**Graduations (ml)**	0.10
RUP mechanism	Locked / broken plunger	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Units per package**	100.00
AD Number pieces	3 pieces	**Auto-disabling at:**	End of injection
Needle Size	26Gx3/8" (0.45 x 10 mm)	**AD Sub Category**	Simple AD
AD Primary packaging	Blister pack		

Comments	Two types of packs with 100 units or 200 units

PRICE AND SHIPPING

Shipping volume (m3)	0.09	**Weight per package (Kg)**	12.2000
Pieces per package	3200	**Minimum order (unit)**	32000.00
Price 1	USD 4/100 Pcs	**Year of base price**	2025
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	Hindustan Syringes & Medical Devices Ltd.
Address	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Apple K1 AD syringe**
IMD-PQS Code:	E008-048
Status:	Prequalified
Date of acceptance:	11 Feb 2012
Appliance type:	E008
Product description:	AD syringe 0.5ml
Manufacturer:	AMSON VACCINES & PHARMA (PVT) LTD.
Manufacturers Reference:	Apple K1 AD syringe
Country of Manufacture:	Pakistan
Address:	115, Industrial Triangle, Kahuta road, Islamabad Pakistan Pakistan
Telephone:	+92 51 4492022
Email:	naveed@amson.org.pk
Website address:	www.amson.org.pk
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**RUP mechanism**	Locked / broken plunger
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
AD Number pieces	3 pieces	**Auto-disabling at:**	End of injection
Needle Size	24Gx1" (0.55 x 25 mm)	**AD Sub Category**	Simple AD
AD Primary packaging	Blister pack		

PRICE AND SHIPPING

Shipping volume (m3)	0.07	**Weight per package (Kg)**	8.6200
Pieces per package	1200	**Minimum order (unit)**	100000.00
Price 1	On request to manufacturer	**Year of base price**	2012
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001; ISO 7886-3
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	AMSON VACCINES & PHARMA (PVT) LTD.
Address	115, Industrial Triangle, Kahuta road, Islamabad Pakistan Pakistan

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Yi Xin 0.1ml**
IMD-PQS Code:	E008-049
Status:	Prequalified
Date of acceptance:	13 Jan 2013
Appliance type:	E008
Product description:	AD syringe 0.1ml
Manufacturer:	Jiangxi Sanxin Medtec Co.,Ltd
Manufacturers Reference:	Yi Xin 0.1ml
Country of Manufacture:	China
Address:	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China
Telephone:	+86 791 85988111
Email:	fgb@sanxin-med.com
Website address:	www.sanxin-med.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.10	**Graduations (ml)**	0.10
Markings	CE mark	**RUP mechanism**	Plunger lock
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	3 pieces
Auto-disabling at:	End of injection	**Needle Size**	26Gx3/8" (0.45 x 10 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.104	**Weight per package (Kg)**	11.0000
Pieces per package	3000	**Minimum order (unit)**	100000.00
Year of base price	2013	**Incoterms**	FOB

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 7886-3
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	Jiangxi Sanxin Medtec Co.,Ltd
Address	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Pharmajet Stratis®**
IMD-PQS Code:	E008-050
Status:	Prequalified
Date of acceptance:	31 Jan 2013
Appliance type:	E008
Product description:	single-use auto-disable needle-free jet injector
Manufacturer:	PharmaJet, Inc.
Manufacturers Reference:	Pharmajet Stratis®
Country of Manufacture:	United States of America
Address:	400 Corporate Circle, Suite N Golden, Colorado 80401 USA United States of America
Telephone:	+1 303 526-4278
Email:	brent.carpenter@pharmajet.com
Website address:	http://www.pharmajet.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	FDA 510(k); CE 556625	**RUP mechanism**	Plunger break
Packaging & Sterility Assurance	Yes	**Other needle size options**	No
AD Number pieces	2 pieces	**Auto-disabling at:**	Start of injection
AD Sub Category	Jet injector	**AD Primary packaging**	Blister pack

Comments	Single-use auto-disable needle-free jet injector Note: Jet Injectors (single-use auto-disable needle-free syringe injectors) as medical devices (Class II) are regulated by National Regulatory Authorities. A Jet injector prequalified by the WHO PQS programme to deliver medications and vaccines is to be used according to label to deliver ONLY those medications and vaccines that have been approved by the relevant Authorities. Reset station Injector: Reference manufacturer C501-20 Needle free syringe: Reference manufacturer C501-32 & C501-34 Filling adapter: Reference manufacturer C501-43 & C501-46 Injector: Reference manufacturer C501-10 Minimum order (units): 1 set Units per package: Syringes, 250/box; adaptors, 75/box

PRICE AND SHIPPING

Shipping volume (m3)	0.037	**Weight per package (Kg)**	3.2300
Pieces per package	1	**Price 1**	Upon request to mfr
Year of base price	2012	**Incoterms**	EXW

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: E008/JI01.1 Applicable PQS VP(s): E008/JI01-VP.1

PRODUCT SITES

Organization name	PharmaJet, Inc.
Address	400 Corporate Circle, Suite N Golden, Colorado 80401 USA United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety



E008: Injection devices for immunization

Product name:	**JMI AD syringe 0.5ml**
IMD-PQS Code:	E008-051
Status:	Prequalified
Date of acceptance:	29 May 2013
Appliance type:	E008
Product description:	AD syringe 0.5ml
Manufacturer:	JMI Syringes & Medical Devices Ltd.
Manufacturers Reference:	JMI AD syringe 0.5ml
Country of Manufacture:	Bangladesh
Address:	Unique Heights 117 Kazi Nazrul Islam Avenue Dhaka-1217 Bangladesh. Bangladesh
Telephone:	+88 01939909332
Email:	hasan.pmd@jmigroup-bd.com
Website address:	http://www.jmisyringe.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**RUP mechanism**	Plunger lock
Packaging & Sterility Assurance	Yes	**Other needle size options**	No
Units per package	200.00	**AD Number pieces**	3 pieces
Auto-disabling at:	End of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.133	**Weight per package (Kg)**	15.6000
Pieces per package	2400	**Minimum order (unit)**	192000.00
Price 1	Upon request to manufacturer	**Year of base price**	2013
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3

PRODUCT SITES

Organization name	JMI Syringes & Medical Devices Ltd.
Address	Noapara, Chauddagram, Cumilla, Bangladesh 3550, Cumilla, Bangladesh Bangladesh

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**OnejectII 0.05ml AD syringe**
IMD-PQS Code:	E008-052
Status:	Prequalified
Date of acceptance:	06 May 2013
Appliance type:	E008
Product description:	AD syringe 0.05ml
Manufacturer:	PT Oneject Indonesia
Manufacturers Reference:	OnejectII 0.05ml AD syringe
Country of Manufacture:	Indonesia
Address:	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia
Telephone:	+62 21 879 17 422
Email:	niken.permatasari@oneject.co.id
Website address:	www.oneject.co.id
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.05	**Graduations (ml)**	0.05
Markings	CE mark	**RUP mechanism**	Locked / broken plunger
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	3 pieces
Auto-disabling at:	End of injection	**Needle Size**	27Gx3/8" (0.40 x 10 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.051	**Weight per package (Kg)**	8.2300
Pieces per package	1600	**Minimum order (unit)**	16000.00
Price 1	Upon request to manufacturer	**Year of base price**	2013
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 7886-3
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	PT Oneject Indonesia
Address	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**OnejectII 0.5 ml AD syringe**
IMD-PQS Code:	E008-053
Status:	Prequalified
Date of acceptance:	06 May 2013
Appliance type:	E008
Product description:	AD syringe 0.5ml
Manufacturer:	PT Oneject Indonesia
Manufacturers Reference:	OnejectII 0.5 ml AD syringe
Country of Manufacture:	Indonesia
Address:	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia
Telephone:	+62 21 879 17 422
Email:	niken.permatasari@oneject.co.id
Website address:	www.oneject.co.id
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**RUP mechanism**	Locked / broken plunger
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	3 pieces
Auto-disabling at:	End of injection	**Needle Size**	24Gx1" (0.55 x 25 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.052	**Weight per package (Kg)**	7.6600
Pieces per package	1600	**Minimum order (unit)**	16000.00
Price 1	Upon request to manufacturer	**Year of base price**	2013
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3

PRODUCT SITES

Organization name	PT Oneject Indonesia
Address	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Haiou Retractable auto disable syringe 0.5ml**
IMD-PQS Code:	E008-056
Status:	Prequalified
Date of acceptance:	29 Jul 2013
Appliance type:	E008
Product description:	Retractable AD syringe 0.5ml
Manufacturer:	Guangdong Haiou Medical Apparatus Co., Ltd
Manufacturers Reference:	Haiou Retractable auto disable syringe 0.5ml
Country of Manufacture:	China
Address:	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China
Telephone:	+86-663-2758666
Email:	market01@haiou.net.cn
Website address:	http://www.haiou.net.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**RUP mechanism**	Plunger lock / needle retraction
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	3 pieces
Auto-disabling at:	End of injection	**Needle Size**	27Gx3/8" (0.40 x 10 mm)
AD Sub Category	Retractable	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.087	**Weight per package (Kg)**	13.0000
Pieces per package	3000	**Minimum order (unit)**	100000.00
Price 1	Upon request to manufacturer	**Year of base price**	2013
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3

PRODUCT SITES

Organization name	Guangdong Haiou Medical Apparatus Co., Ltd
Address	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**AD syringe 0.05ml**
IMD-PQS Code:	E008-057
Status:	Prequalified
Date of acceptance:	29 Jul 2013
Appliance type:	E008
Product description:	AD syringe 0.05ml
Manufacturer:	Anhui Tiankang Medical Technology Co., Ltd
Manufacturers Reference:	AD syringe 0.05ml
Country of Manufacture:	China
Address:	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China
Telephone:	+86 550 7308592
Email:	marshall988@163.net
Website address:	http://www.tkmedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.05	**Graduations (ml)**	0.05
Markings	CE mark	**RUP mechanism**	Plunger lock by stainless jaw at start of injection
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	27Gx3/8" (0.40 x 10 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.069	**Weight per package (Kg)**	10.0000
Pieces per package	2000	**Minimum order (unit)**	200000.00
Price 1	Upon request	**Year of base price**	2013
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3

PRODUCT SITES

Organization name	Anhui Tiankang Medical Technology Co., Ltd
Address	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Auto-disable syringe 0.25ml**
IMD-PQS Code:	E008-058
Status:	Prequalified
Date of acceptance:	29 Jul 2013
Appliance type:	E008
Product description:	AD syringe 0.25ml
Manufacturer:	Anhui Tiankang Medical Technology Co., Ltd
Manufacturers Reference:	Auto-disable syringe 0.25ml
Country of Manufacture:	China
Address:	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China
Telephone:	+86 550 7308592
Email:	marshall988@163.net
Website address:	http://www.tkmedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.25	**Graduations (ml)**	0.25
Markings	CE mark	**RUP mechanism**	Plunger lock by stainless steel jaw at start of injection
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	27Gx3/8" (0.40 x 10 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.069	**Weight per package (Kg)**	10.0000
Pieces per package	2000	**Minimum order (unit)**	200000.00
Price 1	Upon request	**Year of base price**	2013
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3

PRODUCT SITES

Organization name	Anhui Tiankang Medical Technology Co., Ltd
Address	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Destroject 0.5ml AD (1000) syringe**
IMD-PQS Code:	E008-060
Status:	Prequalified
Date of acceptance:	04 Jan 2014
Appliance type:	E008
Product description:	AD syringe 0.5ml
Manufacturer:	AMSON VACCINES & PHARMA (PVT) LTD.
Manufacturers Reference:	Destroject 0.5ml AD (1000) syringe
Country of Manufacture:	Pakistan
Address:	115, Industrial Triangle, Kahuta road, Islamabad Pakistan Pakistan
Telephone:	+92 51 4492022
Email:	naveed@amson.org.pk
Website address:	www.amson.org.pk
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**RUP mechanism**	Plunger lock by cremaillere at start
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	2000.00	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.097	**Weight per package (Kg)**	12.5000
Pieces per package	100	**Minimum order (unit)**	32000.00
Price 1	Upon request	**Year of base price**	2014
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	AMSON VACCINES & PHARMA (PVT) LTD.
Address	115, Industrial Triangle, Kahuta road, Islamabad Pakistan Pakistan

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**AD syringe 0.5mL**
IMD-PQS Code:	E008-062
Status:	Prequalified
Date of acceptance:	07 Jan 2015
Appliance type:	E008
Product description:	AD syringe 0.5mL
Manufacturer:	Sanavita Pharmaceuticals GMBH
Manufacturers Reference:	AD syringe 0.5mL
Country of Manufacture:	China
Address:	Spaldingstr. 110B D- 20097 Hamburg Germany Germany
Telephone:	+49 40 730 8853-0
Email:	guenter.kunde@sanavita.net
Website address:	www.sanavita.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**RUP mechanism**	metal clip
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	3000.00	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.087	**Weight per package (Kg)**	13.0000
Pieces per package	3000	**Minimum order (unit)**	3000.00
Price 1	Upon request to manufacturer	**Year of base price**	2015
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3

PRODUCT SITES

Organization name	Sanavita Pharmaceuticals GMBH
Address	Spaldingstr. 110B D- 20097 Hamburg Germany Germany

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**AD syringe 0.05mL**
IMD-PQS Code:	E008-063
Status:	Prequalified
Date of acceptance:	07 Jan 2015
Appliance type:	E008
Product description:	AD syringe 0.05mL
Manufacturer:	Sanavita Pharmaceuticals GMBH
Manufacturers Reference:	AD syringe 0.05mL
Country of Manufacture:	China
Address:	Spaldingstr. 110B D- 20097 Hamburg Germany Germany
Telephone:	+49 40 730 8853-0
Email:	guenter.kunde@sanavita.net
Website address:	www.sanavita.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.05	**Graduations (ml)**	0.05
Markings	CE mark	**RUP mechanism**	metal clip
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	3000.00	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	27Gx3/8" (0.40 x 10 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.087	**Weight per package (Kg)**	13.0000
Pieces per package	3000	**Minimum order (unit)**	3000.00
Price 1	Upon request to manufacturer	**Year of base price**	2015
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3

PRODUCT SITES

Organization name	Sanavita Pharmaceuticals GMBH
Address	Spaldingstr. 110B D- 20097 Hamburg Germany Germany

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**AD syringe 0.1mL**
IMD-PQS Code:	E008-064
Status:	Prequalified
Date of acceptance:	07 Jan 2015
Appliance type:	E008
Product description:	AD syringe 0.1mL
Manufacturer:	Sanavita Pharmaceuticals GMBH
Manufacturers Reference:	AD syringe 0.1mL
Country of Manufacture:	China
Address:	Spaldingstr. 110B D- 20097 Hamburg Germany Germany
Telephone:	+49 40 730 8853-0
Email:	guenter.kunde@sanavita.net
Website address:	www.sanavita.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.10	**Graduations (ml)**	0.10
Markings	CE mark	**RUP mechanism**	metal clip
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	3000.00	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	27Gx3/8" (0.40 x 10 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.087	**Weight per package (Kg)**	13.0000
Pieces per package	3000	**Minimum order (unit)**	3000.00
Price 1	Upon request to manufacturer	**Year of base price**	2015
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3

PRODUCT SITES

Organization name	Sanavita Pharmaceuticals GMBH
Address	Spaldingstr. 110B D- 20097 Hamburg Germany Germany

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Oneject II AD Syringe 0.1 mL**
IMD-PQS Code:	E008-065
Status:	Prequalified
Date of acceptance:	09 Dec 2015
Appliance type:	E008
Product description:	AD Syringe 0.1 mL
Manufacturer:	PT Oneject Indonesia
Manufacturers Reference:	Oneject II AD Syringe 0.1 mL
Country of Manufacture:	Indonesia
Address:	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia
Telephone:	+62 21 879 17 422
Email:	niken.permatasari@oneject.co.id
Website address:	www.oneject.co.id
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.10	**Graduations (ml)**	0.10
Markings	CE mark	**RUP mechanism**	Locked / broken plunger
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	1600.00	**Auto-disabling at:**	End of injection
Needle Size	27Gx3/8" (0.40 x 10 mm)	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.09	**Weight per package (Kg)**	10.6000
Pieces per package	1600	**Minimum order (unit)**	1600.00
Price 1	Upon request to manufacturer	**Year of base price**	2015
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	PT Oneject Indonesia
Address	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Haiou Retractable auto disable syringe 0.05ml**
IMD-PQS Code:	E008-068
Status:	Prequalified
Date of acceptance:	06 Jan 2017
Appliance type:	E008
Product description:	Retractabale 0.05ml Auto Disable Syringe
Manufacturer:	Guangdong Haiou Medical Apparatus Co., Ltd
Manufacturers Reference:	Haiou Retractable auto disable syringe 0.05ml
Country of Manufacture:	China
Address:	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China
Telephone:	+86-663-2758666
Email:	market01@haiou.net.cn
Website address:	http://www.haiou.net.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.05	**Graduations (ml)**	0.05
Markings	CE mark	**RUP mechanism**	Manual retractable
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
AD Number pieces	3 pieces	**Auto-disabling at:**	End of injection
Needle Size	27Gx3/8" (0.40 x 10 mm)	**AD Sub Category**	Retractable
AD Primary packaging	Blister pack		

PRICE AND SHIPPING

Shipping volume (m3)	0.094	**Weight per package (Kg)**	15.0000
Pieces per package	3600	**Minimum order (unit)**	100000.00
Price 1	On request	**Year of base price**	2017
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3

PRODUCT SITES

Organization name	Guangdong Haiou Medical Apparatus Co., Ltd
Address	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**MEDECO INJECT AD 0.05ml BCG**
IMD-PQS Code:	E008-069
Status:	Prequalified
Date of acceptance:	06 Jan 2017
Appliance type:	E008
Product description:	0.05mlAD BCG syringe
Manufacturer:	Abu Dhabi Medical Devices Co. L.L.C
Manufacturers Reference:	MEDECO INJECT AD 0.05ml BCG
Country of Manufacture:	United Arab Emirates
Address:	MUSSAFAH INDUSTRIAL AREA, M-43, PLOT 124, 30485, ABU DHABI United Arab Emirates
Telephone:	+971-2-6199100
Email:	info@admd.ae
Website address:	http://www.admd.ae
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.05	**Graduations (ml)**	0.05
Markings	CE mark	**Syringe material(s)**	Polypropylene
RUP mechanism	One way valve auto disable mechanism	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	27Gx3/8" (0.40 x 10 mm)
AD Primary packaging	Blister pack		

Comments	Available in 1400 Pcs or 3000 Pcs per carton Minimum order (units): 1400 or 3000 Shipping volume (m3): 0.053 M3 for 1400 Pcs pack. 0.112 M3 for 3000 Pcs Weight per package (kg): 5.46 Kg for 1400 Pcs pack and 11.1 Kg for 3000 Pcs

PRICE AND SHIPPING

Pieces per package	1400	**Price 1**	0.068 USD
Year of base price	2017	**Incoterms**	EXW

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	Abu Dhabi Medical Devices Co. L.L.C
Address	MUSSAFAH INDUSTRIAL AREA, M-43, PLOT 124, 30485, ABU DHABI United Arab Emirates

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**MEDECO INJECT AD 0.1ml BCG**
IMD-PQS Code:	E008-070
Status:	Prequalified
Date of acceptance:	06 Jan 2017
Appliance type:	E008
Product description:	0.1ml AD BCG syringe
Manufacturer:	Abu Dhabi Medical Devices Co. L.L.C
Manufacturers Reference:	MEDECO INJECT AD 0.1ml BCG
Country of Manufacture:	United Arab Emirates
Address:	MUSSAFAH INDUSTRIAL AREA, M-43, PLOT 124, 30485, ABU DHABI United Arab Emirates
Telephone:	+971-2-6199100
Email:	info@admd.ae
Website address:	http://www.admd.ae
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.10	**Graduations (ml)**	0.10
Markings	CE mark	**Syringe material(s)**	Polypropylene
RUP mechanism	One way valve auto-disable mechanism	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	27Gx3/8" (0.40 x 10 mm)
AD Primary packaging	Blister pack		

Comments	Available in two carton sizes 1400 Pcs or 3000 Pcs Shipping volume (m3): 0.053 M3 for 1400 Pcs pack. 0.112 M3 for 3000 Pcs Units per package: 1400 or 3000 Weight per package (kg): 5.46 Kg for 1400 Pcs pack and 11.1 Kg for 3000 Pcs

PRICE AND SHIPPING

Pieces per package	1400	**Minimum order (unit)**	1400.00
Price 1	0.068 USD	**Year of base price**	2017
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	Abu Dhabi Medical Devices Co. L.L.C
Address	MUSSAFAH INDUSTRIAL AREA, M-43, PLOT 124, 30485, ABU DHABI United Arab Emirates

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**PharmaJet® Tropis®**
IMD-PQS Code:	E008-071
Status:	Prequalified
Date of acceptance:	06 Apr 2018
Appliance type:	E008
Product description:	Single Use auto-disable needle-free jet injector
Manufacturer:	PharmaJet, Inc.
Manufacturers Reference:	PharmaJet® Tropis®
Country of Manufacture:	United States of America
Address:	400 Corporate Circle, Suite N Golden, Colorado 80401 USA United States of America
Telephone:	+1 303 526-4278
Email:	brent.carpenter@pharmajet.com
Website address:	http://www.pharmajet.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.10	**Markings**	-----
Packaging & Sterility Assurance	Yes	**Auto-disabling at:**	End of injection
AD Sub Category	Jet injector	**AD Primary packaging**	Blister pack

Comments	Single-use auto-disable needle-free jet injector Note: Jet Injectors (single-use auto-disable needle-free syringe injectors) as medical devices (Class II) are regulated by National Regulatory Authorities. A Jet injector prequalified by the WHO PQS programme to deliver medications and vaccines is to be used according to label to deliver ONLY those medications and vaccines that have been approved by the relevant Authorities.

PRICE AND SHIPPING

Price 1	Contact manufacturer	**Year of base price**	2018

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: E008/JI01.1 Applicable PQS VP(s): E008/JI01-VP.1

PRODUCT SITES

Organization name	PharmaJet, Inc.
Address	400 Corporate Circle, Suite N Golden, Colorado 80401 USA United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Hongda 0.05ml AD syringe**
IMD-PQS Code:	E008-074
Status:	Prequalified
Date of acceptance:	07 Aug 2019
Appliance type:	E008
Product description:	0.05ml AD syringe
Manufacturer:	Jiangxi Hongda Medical Equipment Group Ltd
Manufacturers Reference:	Hongda 0.05ml AD syringe
Country of Manufacture:	China
Address:	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China
Telephone:	+86 791 85628828
Email:	hongda008@jxhd.cn
Website address:	http://www.jxhd.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.05	**Graduations (ml)**	0.05
Markings	CE mark	**Syringe material(s)**	Polypropylene
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
AD Number pieces	3 pieces	**Auto-disabling at:**	End of injection
Needle Size	27Gx3/8" (0.40 x 10 mm)	**AD Primary packaging**	Blister pack

Comments	Available in cartons of 1,500 & 2,000 Units per package: 1,500/2,000

PRICE AND SHIPPING

Shipping volume (m3)	0.097954	**Weight per package (Kg)**	19.0000
Pieces per package	1500	**Minimum order (unit)**	1000000.00
Price 1	available on request	**Year of base price**	2019
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: 7886-3 Applicable PQS VP(s):

PRODUCT SITES

Organization name	Jiangxi Hongda Medical Equipment Group Ltd
Address	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Apple K-1 3ring AD syringe**
IMD-PQS Code:	E008-075
Status:	Prequalified
Date of acceptance:	16 Jul 2019
Appliance type:	E008
Product description:	0.5ml Auto Disable syringe
Manufacturer:	AMSON VACCINES & PHARMA (PVT) LTD.
Manufacturers Reference:	Apple K-1 3ring AD syringe
Country of Manufacture:	Pakistan
Address:	115, Industrial Triangle, Kahuta road, Islamabad Pakistan Pakistan
Telephone:	+92 51 4492022
Email:	naveed@amson.org.pk
Website address:	www.amson.org.pk
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**Syringe material(s)**	Polypropylene
RUP mechanism	Locked/broken Plunger	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Primary packaging	Blister pack		

PRICE AND SHIPPING

Shipping volume (m3)	0.07	**Weight per package (Kg)**	8.6200
Pieces per package	1200	**Minimum order (unit)**	1000000.00
Price 1	Price available on request	**Year of base price**	2019
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: 7883-3 Applicable PQS VP(s):		

PRODUCT SITES

Organization name	AMSON VACCINES & PHARMA (PVT) LTD.
Address	115, Industrial Triangle, Kahuta road, Islamabad Pakistan Pakistan

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Haiou 0.5ml Auto Disable Syringe**
IMD-PQS Code:	E008-076
Status:	Prequalified
Date of acceptance:	11 Apr 2019
Appliance type:	E008
Product description:	0.5ml Auto Disable Syringe
Manufacturer:	Guangdong Haiou Medical Apparatus Co., Ltd
Manufacturers Reference:	Haiou 0.5ml Auto Disable Syringe
Country of Manufacture:	China
Address:	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China
Telephone:	+86-663-2758666
Email:	market01@haiou.net.cn
Website address:	http://www.haiou.net.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**Syringe material(s)**	Polypropylene
RUP mechanism	Plunger break	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**AD Number pieces**	3 pieces
Auto-disabling at:	End of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Primary packaging	Blister pack		

Comments	Title: 0.5ml Auto Disbale Syringe Product standard: ISO 7886-3

PRICE AND SHIPPING

Shipping volume (m3)	0.086	**Weight per package (Kg)**	13.0000
Pieces per package	3000	**Minimum order (unit)**	100000.00
Price 1	on request	**Price 2**	on request
Year of base price	2019	**Incoterms**	FOB

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s):

PRODUCT SITES

Organization name	Guangdong Haiou Medical Apparatus Co., Ltd
Address	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Haiou 0.05ml Auto Disable Syringe**
IMD-PQS Code:	E008-078
Status:	Prequalified
Date of acceptance:	11 Oct 2020
Appliance type:	E008
Product description:	0.05ml AD syringe
Manufacturer:	Guangdong Haiou Medical Apparatus Co., Ltd
Manufacturers Reference:	Haiou 0.05ml Auto Disable Syringe
Country of Manufacture:	China
Address:	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China
Telephone:	+86-663-2758666
Email:	market01@haiou.net.cn
Website address:	http://www.haiou.net.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.05	**Graduations (ml)**	0.05
Markings	CE mark	**Syringe material(s)**	Polypropylene
RUP mechanism	Broken plunger	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**AD Number pieces**	3 pieces
Auto-disabling at:	End of injection	**Needle Size**	27Gx3/8" (0.40 x 10 mm)
AD Primary packaging	Blister pack		

PRICE AND SHIPPING

Shipping volume (m3)	0.086	**Weight per package (Kg)**	13.0000
Pieces per package	3000	**Minimum order (unit)**	100000.00
Price 1	Price available on request	**Year of base price**	2020
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3

PRODUCT SITES

Organization name	Guangdong Haiou Medical Apparatus Co., Ltd
Address	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**0.3ml AD syringe**
IMD-PQS Code:	E008-080
Status:	Prequalified
Date of acceptance:	31 Dec 2020
Appliance type:	E008
Product description:	0.3ml AD syringe
Manufacturer:	Wuxi Yushou Medical Appliances Co., Ltd
Manufacturers Reference:	0.3ml AD syringe
Country of Manufacture:	China
Address:	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China
Telephone:	+86 (510)3777555
Email:	mike@chinasyringe.com
Website address:	http://www.chinasyringe.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.30	**Markings**	CE mark
RUP mechanism	AD	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Units per package**	3000.00
AD Number pieces	3 pieces	**Auto-disabling at:**	Start of injection
Needle Size	23Gx1" (0.60 x 25 mm)	**AD Primary packaging**	Blister pack

Comments	Average deadspace 0.0056mL

PRICE AND SHIPPING

Weight per package (Kg)	11.0000	**Pieces per package**	3000
Minimum order (unit)	200000.00	**Price 1**	On request to manufacturer
Year of base price	2020	**Incoterms**	FOB

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: 7883-3 Applicable PQS VP(s): 7886-3

PRODUCT SITES

Organization name	Wuxi Yushou Medical Appliances Co., Ltd
Address	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**MEDECO INJECT AD 0.3ml**
IMD-PQS Code:	E008-081
Status:	Prequalified
Date of acceptance:	13 Jan 2021
Appliance type:	E008
Product description:	0.3ml AD syringe
Manufacturer:	Abu Dhabi Medical Devices Co. L.L.C
Manufacturers Reference:	MEDECO INJECT AD 0.3ml
Country of Manufacture:	United Arab Emirates
Address:	MUSSAFAH INDUSTRIAL AREA, M-43, PLOT 124, 30485, ABU DHABI United Arab Emirates
Telephone:	+971-2-6199100
Email:	info@admd.ae
Website address:	http://www.admd.ae
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.30	**Markings**	CE mark
Syringe material(s)	Polypropylene	**RUP mechanism**	Valve in the syringe hub
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	3000.00	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Primary packaging	Blister pack		

Comments	Graduation 0.3ml. Average deadspace 0.0231mL

PRICE AND SHIPPING

Shipping volume (m3)	0.1	**Weight per package (Kg)**	11.5000
Pieces per package	3000	**Minimum order (unit)**	100000.00
Price 1	0.054 USD	**Year of base price**	2021
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: 7883-3 Applicable PQS VP(s): 78863-3

PRODUCT SITES

Organization name	Abu Dhabi Medical Devices Co. L.L.C
Address	MUSSAFAH INDUSTRIAL AREA, M-43, PLOT 124, 30485, ABU DHABI United Arab Emirates

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**0.3mL AD Soloshot Mini**
IMD-PQS Code:	E008-082
Status:	Prequalified
Date of acceptance:	29 Jan 2021
Appliance type:	E008
Product description:	0.3mL AD
Manufacturer:	Becton Dickinson
Manufacturers Reference:	0.3mL AD Soloshot Mini
Country of Manufacture:	Spain
Address:	Crtra. Mequinenza (N-211) S/N, 22520, Fraga (Huesca) Spain
Telephone:	+34 974470900
Email:	kathy.cooman@bd.com
Website address:	http://www.bd.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.30	**Markings**	CE mark
RUP mechanism	locking clip; locked trapped piston	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**AD Number pieces**	2 pieces
Auto-disabling at:	Start of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Primary packaging	Blister pack		

Comments	Average deadspace 0.0069mL

PRICE AND SHIPPING

Shipping volume (m3)	0.1032	**Weight per package (Kg)**	10.2890
Pieces per package	200	**Minimum order (unit)**	3600.00
Price 1	price on request	**Year of base price**	2021

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 7886-3
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s):		

PRODUCT SITES

Organization name	Becton Dickinson
Address	Crtra. Mequinenza (N-211) S/N, 22520, Fraga (Huesca) United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**TKMD 0.3ml AD syringe with fixed needle**
IMD-PQS Code:	E008-083
Status:	Prequalified
Date of acceptance:	04 Aug 2021
Appliance type:	E008
Product description:	0.3ml AD syringe
Manufacturer:	Anhui Tiankang Medical Technology Co., Ltd
Manufacturers Reference:	TKMD 0.3ml AD syringe with fixed needle
Country of Manufacture:	China
Address:	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China
Telephone:	+86 550 7308592
Email:	marshall988@163.net
Website address:	http://www.tkmedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.30	**Markings**	CE mark
Syringe material(s)	Polypropylene	**RUP mechanism**	Plunger lock by stainless steel jaw at
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
AD Number pieces	3 pieces	**Auto-disabling at:**	End of injection
Needle Size	23Gx1" (0.60 x 25 mm)	**AD Primary packaging**	Blister pack

Comments	Graduation 0.3ml. Average deadspace 0.005mL

PRICE AND SHIPPING

Shipping volume (m3)	0.068656	**Weight per package (Kg)**	10.0000
Pieces per package	2000	**Minimum order (unit)**	200000.00
Price 1	price on request	**Year of base price**	2021
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: 7886-3 Applicable PQS VP(s):

PRODUCT SITES

Organization name	Anhui Tiankang Medical Technology Co., Ltd
Address	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Kojak Selinge 0.3ml**
IMD-PQS Code:	E008-084
Status:	Prequalified
Date of acceptance:	30 Apr 2021
Appliance type:	E008
Product description:	0.3ml AD syringe
Manufacturer:	Hindustan Syringes & Medical Devices Ltd.
Manufacturers Reference:	Kojak Selinge 0.3ml
Country of Manufacture:	India
Address:	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India
Telephone:	+91 129-4289000
Email:	hmduk@hmdhealthcare.com
Website address:	www.hmdhealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.30	**RUP mechanism**	Locked/broken plunger
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
AD Number pieces	3 pieces	**Auto-disabling at:**	Start of injection
Needle Size	23Gx1" (0.60 x 25 mm)	**AD Primary packaging**	Blister & ribbon pack

Comments	Average deadspace 0.025mL

PRICE AND SHIPPING

Shipping volume (m3)	0.07	**Weight per package (Kg)**	9.8100
Pieces per package	2000	**Minimum order (unit)**	20000.00
Price 1	USD 4.50/100 Pcs	**Year of base price**	2025
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: 7883-3 Applicable PQS VP(s):		

PRODUCT SITES

Organization name	Hindustan Syringes & Medical Devices Ltd.
Address	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Haiou AD Syringe 0.3ml**
IMD-PQS Code:	E008-085
Status:	Prequalified
Date of acceptance:	06 Nov 2021
Appliance type:	E008
Product description:	AD Syringe 0.3ml
Manufacturer:	Guangdong Haiou Medical Apparatus Co., Ltd
Manufacturers Reference:	Haiou AD Syringe 0.3ml
Country of Manufacture:	China
Address:	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China
Telephone:	+86-663-2758666
Email:	market01@haiou.net.cn
Website address:	http://www.haiou.net.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.30	**Markings**	CE mark
Syringe material(s)	Polypropylene	**RUP mechanism**	Broken plunger
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	3 pieces
Auto-disabling at:	End of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.086	**Weight per package (Kg)**	13.0000
Pieces per package	3000	**Minimum order (unit)**	100000.00
Price 1	price available on request	**Year of base price**	2021
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3

PRODUCT SITES

Organization name	Guangdong Haiou Medical Apparatus Co., Ltd
Address	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Oneject 0.3ml AD**
IMD-PQS Code:	E008-086
Status:	Prequalified
Date of acceptance:	31 Aug 2021
Appliance type:	E008
Product description:	Oneject 0.3ml AD
Manufacturer:	PT Oneject Indonesia
Manufacturers Reference:	Oneject 0.3ml AD
Country of Manufacture:	Indonesia
Address:	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia
Telephone:	+62 21 879 17 422
Email:	niken.permatasari@oneject.co.id
Website address:	www.oneject.co.id
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.30	**Markings**	CE mark
Syringe material(s)	Polypropylene	**RUP mechanism**	Locked / broken plunger
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
AD Number pieces	3 pieces	**Auto-disabling at:**	End of injection
Needle Size	24Gx1" (0.55 x 25 mm)	**AD Sub Category**	Simple AD
AD Primary packaging	Blister pack		

Comments	Graduation 0.3mL. Average deadspace 0.021mL

PRICE AND SHIPPING

Shipping volume (m3)	0.057	**Weight per package (Kg)**	7.8000
Pieces per package	1600	**Minimum order (unit)**	16000.00
Price 1	Upon request to manufacturer	**Year of base price**	2021
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886/3 Applicable PQS VP(s):

PRODUCT SITES

Organization name	PT Oneject Indonesia
Address	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**SOL-GUARD Auto-Disable Syringe 0.3ml**
IMD-PQS Code:	E008-088
Status:	Prequalified
Date of acceptance:	17 Feb 2022
Appliance type:	E008
Product description:	Auto-Disable Syringe 0.3ml
Manufacturer:	Sol-Millennium Medical Inc.
Manufacturers Reference:	SOL-GUARD Auto-Disable Syringe 0.3ml
Country of Manufacture:	China
Address:	311 South Wacker Drive, Suite 4100 Chicago 60606 Illinois United States of America
Telephone:	+41 76 675 65 86
Email:	jwang@sol-m.com
Website address:	www.sol-m.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.30	**Markings**	Device license (Canada)
Syringe material(s)	Polypropylene	**RUP mechanism**	AD
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
AD Number pieces	3 pieces	**Auto-disabling at:**	Start of injection
Needle Size	23Gx1" (0.60 x 25 mm)	**AD Primary packaging**	Blister pack

Comments	Graduation 0.3mL. Average deadspace 0.003mL

PRICE AND SHIPPING

Shipping volume (m3)	0.088	**Weight per package (Kg)**	9.6000
Pieces per package	2400	**Minimum order (unit)**	100800.00
Price 1	price on request	**Year of base price**	2022
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s): ISO 7886-3		

PRODUCT SITES

Organization name	Sol-Millennium Medical Inc.
Address	311 South Wacker Drive, Suite 4100 Chicago 60606 Illinois United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Sol-Guard 0.5mL Auto Disable syringe**
IMD-PQS Code:	E008-090
Status:	Prequalified
Date of acceptance:	20 Apr 2022
Appliance type:	E008
Product description:	0.5mL Auto Disable syringe
Manufacturer:	Sol-Millennium Medical Inc.
Manufacturers Reference:	Sol-Guard 0.5mL Auto Disable syringe
Country of Manufacture:	China
Address:	311 South Wacker Drive, Suite 4100 Chicago 60606 Illinois United States of America
Telephone:	+41 76 675 65 86
Email:	jwang@sol-m.com
Website address:	www.sol-m.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	Device license (Canada)	**Syringe material(s)**	Polypropylene
RUP mechanism	locking clip, locked trapped plunger	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Primary packaging	Blister pack		

PRICE AND SHIPPING

Shipping volume (m3)	0.088	**Weight per package (Kg)**	9.6000
Pieces per package	2400	**Minimum order (unit)**	100800.00
Price 1	price available on request	**Year of base price**	2022
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: 7886-3 Applicable PQS VP(s):

PRODUCT SITES

Organization name	Sol-Millennium Medical Inc.
Address	311 South Wacker Drive, Suite 4100 Chicago 60606 Illinois United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**0.1 mL AD syringe**
IMD-PQS Code:	E008-091
Status:	Prequalified
Date of acceptance:	17 May 2022
Appliance type:	E008
Product description:	0.1 mL AD syringe
Manufacturer:	Zhejiang Lingyang Medical Apparatus Co., Ltd
Manufacturers Reference:	0.1 mL AD syringe
Country of Manufacture:	China
Address:	Bai Shuiyang 317031 Linhai Peoples's Republic of China China
Telephone:	+86-576 85800258
Email:	lingyangmedical@163.com
Website address:	www.ly-medical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.10	**Graduations (ml)**	0.10
Markings	-----	**Syringe material(s)**	Polypropylene
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	4000.00	**AD Number pieces**	3 pieces
Auto-disabling at:	End of injection	**Needle Size**	26Gx3/8" (0.45 x 10 mm)
AD Primary packaging	Blister pack		

PRICE AND SHIPPING

Shipping volume (m3)	0.138	**Weight per package (Kg)**	16.6000
Pieces per package	4000	**Minimum order (unit)**	4000.00
Price 1	Price available on request	**Year of base price**	2022
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s):

PRODUCT SITES

Organization name	Zhejiang Lingyang Medical Apparatus Co., Ltd
Address	Bai Shuiyang 317031 Linhai Peoples's Republic of China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**KOJAK SELINGE 0.2 ml**
IMD-PQS Code:	E008-092
Status:	Prequalified
Date of acceptance:	17 May 2022
Appliance type:	E008
Product description:	AD Syringe 0.2 ml
Manufacturer:	Hindustan Syringes & Medical Devices Ltd.
Manufacturers Reference:	KOJAK SELINGE 0.2 ml
Country of Manufacture:	India
Address:	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India
Telephone:	+91 129-4289000
Email:	hmduk@hmdhealthcare.com
Website address:	www.hmdhealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.20	**RUP mechanism**	Locked / Broken Plunger
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	2000.00	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Primary packaging	Blister & ribbon pack		

Comments	Average deadspace 0.021mL

PRICE AND SHIPPING

Shipping volume (m3)	0.07	**Weight per package (Kg)**	9.8100
Pieces per package	2000	**Minimum order (unit)**	20000.00
Price 1	USD 4.70/100 Pcs	**Year of base price**	2025
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s):		

PRODUCT SITES

Organization name	Hindustan Syringes & Medical Devices Ltd.
Address	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**KOJAK SELINGE 0.25 ml**
IMD-PQS Code:	E008-095
Status:	Prequalified
Date of acceptance:	06 Feb 2022
Appliance type:	E008
Product description:	0.25 ml AD syringe
Manufacturer:	Hindustan Syringes & Medical Devices Ltd.
Manufacturers Reference:	KOJAK SELINGE 0.25 ml
Country of Manufacture:	India
Address:	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India
Telephone:	+91 129-4289000
Email:	hmduk@hmdhealthcare.com
Website address:	www.hmdhealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.25	**Graduations (ml)**	0.25
RUP mechanism	Locked / Broken Plunger	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**AD Number pieces**	3 pieces
Auto-disabling at:	Start of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Primary packaging	Blister & ribbon pack		

Comments	Average deadspace 0.021mL

PRICE AND SHIPPING

Shipping volume (m3)	0.07	**Weight per package (Kg)**	9.8100
Pieces per package	2000	**Minimum order (unit)**	20000.00
Price 1	USD 4.70/100 Pcs	**Year of base price**	2025
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-3 Applicable PQS VP(s):		

PRODUCT SITES

Organization name	Hindustan Syringes & Medical Devices Ltd.
Address	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Revital Cady 0.5ml 3piece Autodisable Syringe**
IMD-PQS Code:	E008-097
Status:	Prequalified
Date of acceptance:	16 Jun 2023
Appliance type:	E008
Product description:	0.5mL AD syringe
Manufacturer:	Revital Health Care (EPZ) Limited
Manufacturers Reference:	Revital Cady 0.5ml 3piece Autodisable Syringe
Country of Manufacture:	Kenya
Address:	P.O. BOX 80713-80100 MOMBASA LR No. 5025/1239, Takaungu 80100 Mombasa Kenya Kenya
Telephone:	+254722412900
Email:	qa@rhcare-epz.com
Website address:	www.revitalhcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**RUP mechanism**	Plunger disables / breaks
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
AD Number pieces	3 pieces	**Auto-disabling at:**	Start of injection
Needle Size	23Gx1" (0.60 x 25 mm)	**AD Mechanism**	Locked / Broken Plunger
AD Primary packaging	Blister pack		

Comments	Units per package: 4000/3600

PRICE AND SHIPPING

Shipping volume (m3)	0.1031	**Weight per package (Kg)**	11.6000
Pieces per package	4000	**Minimum order (unit)**	640000.00
Price 1	POA	**Year of base price**	2022
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485

PRODUCT SITES

Organization name	Revital Health Care (EPZ) Limited
Address	P.O. BOX 80713-80100 MOMBASA LR No. 5025/1239, Takaungu 80100 Mombasa Kenya Kenya

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Iscon 0.5mL AD syringe**
IMD-PQS Code:	E008-098
Status:	Prequalified
Date of acceptance:	07 May 2023
Appliance type:	E008
Product description:	Auto Disable Syringe for fixed-dose immunization
Manufacturer:	ISCON SURGICALS LTD.
Manufacturers Reference:	Iscon 0.5mL AD syringe
Country of Manufacture:	India
Address:	B-70 Marudhar Ind. Area, MIA 2nd Phase, Basni, Jodhpur, Rajasthan 342005, India India
Telephone:	+91 291 2740558
Email:	nitin@pricon.co.in
Website address:	https://www.isconsurgicals.net/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**Syringe material(s)**	Polypropylene
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	2000.00	**AD Number pieces**	3 pieces
Auto-disabling at:	Middle of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Primary packaging	Blister pack		

PRICE AND SHIPPING

Shipping volume (m3)	0.08	**Weight per package (Kg)**	9.8000
Pieces per package	2000	**Minimum order (unit)**	2000.00
Price 1	upto 100,000 / 4.75$ per 100	**Price 2**	upto 500,000 / 4.50$ per 100
Price 3	above 500,00 / 4.25$ per 100	**Year of base price**	2023
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485

PRODUCT SITES

Organization name	ISCON SURGICALS LTD.
Address	B-70 Marudhar Ind. Area, MIA 2nd Phase, Basni, Jodhpur, Rajasthan 342005, India India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Oneject 0.5 AD**
IMD-PQS Code:	E008-099
Status:	Prequalified
Date of acceptance:	25 Sep 2023
Appliance type:	E008
Product description:	0.5mL AD syringe
Manufacturer:	PT Oneject Indonesia
Manufacturers Reference:	Oneject 0.5 AD
Country of Manufacture:	Indonesia
Address:	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia
Telephone:	+62 21 879 17 422
Email:	niken.permatasari@oneject.co.id
Website address:	www.oneject.co.id
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**Syringe material(s)**	Polypropylene
RUP mechanism	Locked / broken Plunger	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Units per package**	200.00
AD Number pieces	3 pieces	**Auto-disabling at:**	Start of injection
Needle Size	23Gx1" (0.60 x 25 mm)	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.007	**Weight per package (Kg)**	0.8000
Pieces per package	200	**Minimum order (unit)**	1000.00
Price 1	Upon request to manufacturer	**Year of base price**	2023
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485

PRODUCT SITES

Organization name	PT Oneject Indonesia
Address	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**REVITAL CADY 0.3ML 2PC AD SYRINGE**
IMD-PQS Code:	E008-100
Status:	Prequalified
Date of acceptance:	25 Oct 2023
Product description:	0.3mL AD syringe
Manufacturer:	Revital Health Care (EPZ) Limited
Manufacturers Reference:	REVITAL CADY 0.3ML 2PC AD SYRINGE
Country of Manufacture:	Kenya
Address:	P.O. BOX 80713-80100 MOMBASA LR No. 5025/1239, Takaungu 80100 Mombasa Kenya Kenya
Telephone:	+254722412900
Email:	qa@rhcare-epz.com
Website address:	www.revitalhcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Graduations (ml)	0.30	**Markings**	CE mark
Syringe material(s)	Polypropylene	**Other needle size options**	Yes
Auto-disabling at:	End of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Mechanism	Locked / Broken Plunger	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.112	**Weight per package (Kg)**	11.5700
Pieces per package	3600	**Minimum order (unit)**	648000.00
Price 1	on request	**Year of base price**	2023
Incoterms	FCA		

QUALITY STANDARD

Quality Standard		ISO 13485	

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**KOJAK SELINGE 0.5ml AD Syringe with S.I.P. feature**
IMD-PQS Code:	E008-101
Status:	Prequalified
Date of acceptance:	15 Nov 2023
Product description:	0.5ml AD Syringe with SIP feature
Manufacturer:	Hindustan Syringes & Medical Devices Ltd.
Manufacturers Reference:	KOJAK SELINGE 0.5ml AD Syringe with S.I.P. feature
Country of Manufacture:	India
Address:	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India
Telephone:	+91 129-4289000
Email:	hmduk@hmdhealthcare.com
Website address:	www.hmdhealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Graduations (ml)	0.50	**Syringe material(s)**	Polypropylene
Other needle size options	Yes	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD location	Start of injection	**AD Mechanism**	Locked / Broken Plunger
AD Primary packaging	Blister pack		

PRICE AND SHIPPING

Pieces per package	2000	**Price 1**	USD 7.50/100 Pcs
Year of base price	2025	**Incoterms**	FCA

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 7886-3; ISO 23908

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**KOJAK SELINGE 1ml AD Syringe with S.I.P. feature**
IMD-PQS Code:	E008-102
Status:	Prequalified
Date of acceptance:	25 May 2024
Product description:	1ml AD Syringe with SIP feature
Manufacturer:	Hindustan Syringes & Medical Devices Ltd.
Manufacturers Reference:	KOJAK SELINGE 1ml AD Syringe with S.I.P. feature
Country of Manufacture:	India
Address:	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India
Telephone:	+91 129-4289000
Email:	hmduk@hmdhealthcare.com
Website address:	www.hmdhealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Syringe material(s)	Polypropylene	**Other needle size options**	Yes
Needle Size	23Gx1" (0.60 x 25 mm)	**AD location**	Start of injection
AD Mechanism	Locked / Broken Plunger	**AD Primary packaging**	Blister & ribbon pack

Comments	Kojak Selinge 1ml AD Syringe with S.I.P. feature having dual safety feature. One for the patient safety by preventing the Syringe from re-use with the AD mechnisam and second for the healthcare personnels from accidental needle stick injury by using Safety feature (SIP) in needle cover. (Complies with ISO 7886-3 & ISO 23908) Graduations: 1ml

PRICE AND SHIPPING

Shipping volume (m3)	0.09	**Weight per package (Kg)**	16.4600
Pieces per package	2000	**Price 1**	USD 7.50/100 Pcs
Year of base price	2025	**Incoterms**	FCA

QUALITY STANDARD

Quality Standard	ISO 9001: 2000;ISO 13485

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Iscon 0.1ml AD syringe**
IMD-PQS Code:	E008-103
Status:	Prequalified
Date of acceptance:	21 Oct 2024
Product description:	0.1ml AD syringe
Manufacturer:	ISCON SURGICALS LTD.
Manufacturers Reference:	Iscon 0.1ml AD syringe
Country of Manufacture:	India
Address:	B-70 Marudhar Ind. Area, MIA 2nd Phase, Basni, Jodhpur, Rajasthan 342005, India India
Telephone:	+91 291 2740558
Email:	nitin@pricon.co.in
Website address:	https://www.isconsurgicals.net/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Graduations (ml)	0.10	**Markings**	CE mark
Syringe material(s)	Polypropylene	**Other needle size options**	Yes
Needle Size	26Gx3/8" (0.45 x 10 mm)	**AD location**	Middle of injection
AD Mechanism	Locked / Broken Plunger	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.109	**Weight per package (Kg)**	12.3500
Pieces per package	3200	**Minimum order (unit)**	32000.00
Price 1	3.9$ upto 32,000pcs	**Price 2**	3.8$ 32,000 to 160,000pcs
Price 3	3.7$ 160,000 and above	**Year of base price**	2024
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Jiangxi 0.5ml AD syringe**
IMD-PQS Code:	E008-104
Status:	Prequalified
Date of acceptance:	21 Oct 2024
Product description:	0.5ml AD syringe
Manufacturer:	Jiangxi Sanxin Medtec Co.,Ltd
Manufacturers Reference:	Jiangxi 0.5ml AD syringe
Country of Manufacture:	China
Address:	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China
Telephone:	+86 791 85988111
Email:	fgb@sanxin-med.com
Website address:	www.sanxin-med.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Graduations (ml)	0.50	**Markings**	CE mark
Syringe material(s)	Polypropylene	**Other needle size options**	Yes
Needle Size	23Gx1" (0.60 x 25 mm)	**AD location**	Start of injection
AD Mechanism	Clip locking plunger	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.1	**Weight per package (Kg)**	15.0000
Pieces per package	3000	**Minimum order (unit)**	870000.00
Price 1	0.03-0.04	**Year of base price**	2024
Incoterms	FOB		

QUALITY STANDARD

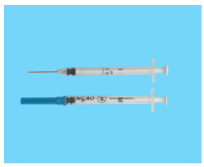
Quality Standard		ISO 13485	

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**TKMD 0.5ml AD syringe**
IMD-PQS Code:	E008-105
Status:	Prequalified
Date of acceptance:	12 Nov 2024
Product description:	TKMD 0.5ml AD syringe
Manufacturer:	TKMD RWANDA Ltd.
Manufacturers Reference:	TKMD 0.5ml AD syringe
Country of Manufacture:	Rwanda
Telephone:	+250798685288
Email:	development@tkmedical.com
Website address:	https://www.tkmedical.com/
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Graduations (ml)	0.50	**Markings**	CE mark
Syringe material(s)	Polypropylene	**Other needle size options**	Yes
Needle Size	23Gx1" (0.60 x 25 mm)	**AD location**	Start of injection
AD Mechanism	Clip locking plunger	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.055	**Weight per package (Kg)**	8.8000
Pieces per package	1800	**Minimum order (unit)**	500000.00
Year of base price	2024	**Incoterms**	FCA

QUALITY STANDARD

Quality Standard		ISO 13485	

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



IMD-PQS Code:	**E008-106**
Status:	Prequalified
Date of acceptance:	19 Nov 2024
Product description:	AD Syringe 0.25ml
Manufacturer:	Abu Dhabi Medical Devices Co. L.L.C
Address:	MUSSAFAH INDUSTRIAL AREA, M-43, PLOT 124, 30485, ABU DHABI United Arab Emirates
Telephone:	+971-2-6199100
Email:	info@admd.ae
Website address:	http://www.admd.ae
Valid until:	31 May 2026

Specifications

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Shandong 0.3mL AD syringe**
IMD-PQS Code:	E008-107
Status:	Prequalified
Date of acceptance:	25 Nov 2024
Product description:	0.3mL AD syringe
Manufacturer:	Shangdong Ande Healthcare Apparatus Co., Ltd
Manufacturers Reference:	Shandong 0.3mL AD syringe
Country of Manufacture:	China
Telephone:	+86-533-3917816
Email:	trade@andemed.com
Website address:	www.andehealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Markings	CE	**Syringe material(s)**	Polypropylene
Other needle size options	Yes	**AD Number pieces**	3
Auto-disabling at:	Start of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Mechanism	Metal clip	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.087	**Weight per package (Kg)**	11.0000
Pieces per package	2000	**Minimum order (unit)**	2000.00
Year of base price	2024	**Incoterms**	FOB

QUALITY STANDARD

Quality Standard		ISO 13485	

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Shandong 0.5mL AD syringe**
IMD-PQS Code:	E008-108
Status:	Prequalified
Date of acceptance:	25 Nov 2024
Product description:	0.5mL AD syringe
Manufacturer:	Shangdong Ande Healthcare Apparatus Co., Ltd
Manufacturers Reference:	Shandong 0.5mL AD syringe
Country of Manufacture:	China
Telephone:	+86-533-3917816
Email:	trade@andemed.com
Website address:	www.andehealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Graduations (ml)	0.50	**Markings**	CE Mark
Syringe material(s)	Polypropylene	**Other needle size options**	Yes
Needle Size	21Gx1" (0.80 x 25 mm)	**AD location**	Start of injection
AD Mechanism	Locking clip	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.0926	**Weight per package (Kg)**	11.0000
Pieces per package	2000	**Minimum order (unit)**	2000.00
Price 1	On request	**Year of base price**	2024
Incoterms	FOB		

QUALITY STANDARD

Quality Standard		ISO 13485	

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Safety Syringe 0.05 ml Auto Disable**
IMD-PQS Code:	E008-109
Status:	Prequalified
Date of acceptance:	10 Dec 2024
Manufacturer:	International Company for Medical Necessities
Manufacturers Reference:	Safety Syringe 0.05 ml Auto Disable
Country of Manufacture:	Egypt, Arab Rep.
Address:	Industrial Zone Block No. 19&67 Abu Tig Assuit Egypt Egypt
Telephone:	+2 (088) 49 50200 - 202 - 250
Email:	mak@medical-ico.com
Website address:	www.medical-ico.com & aak@medical-ico.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Graduations (ml)	0.05	**Markings**	CE mark
Syringe material(s)	Polypropylene	**Other needle size options**	Yes
Needle Size	26Gx3/8" (0.45 x 10 mm)	**AD location**	Start of injection
AD Mechanism	Locked / Broken Plunger	**AD Primary packaging**	Blister pack

Comments	Number of components: 3

PRICE AND SHIPPING

Shipping volume (m3)	0.08	**Weight per Unit (Kg)**	13.2000
Pieces per package	2000	**Minimum order (unit)**	500000.00
Price 1	100,000 units .039 $	**Price 2**	1,000,000 units 0.038 $
Price 3	10,000,000 units 0.037 $	**Year of base price**	2022

QUALITY STANDARD

Quality Standard		ISO 13485	

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Revital Cady 0.5ml 3 piece Autodisable Syringe**
IMD-PQS Code:	E008-110
Status:	Prequalified
Date of acceptance:	11 Nov 2024
Manufacturer:	Revital Health Care (EPZ) Limited
Manufacturers Reference:	Revital Cady 0.5ml 3 piece Autodisable Syringe
Country of Manufacture:	Kenya
Address:	P.O. BOX 80713-80100 MOMBASA LR No. 5025/1239, Takaungu 80100 Mombasa Kenya Kenya
Telephone:	+254722412900
Email:	qa@rhcare-epz.com
Website address:	www.revitalhcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**Syringe material(s)**	Polypropylene
Other needle size options	Yes	**Auto-disabling at:**	End of injection
Needle Size	23Gx1" (0.60 x 25 mm)	**AD location**	Upon completion of injection
AD Mechanism	Locked / Broken Plunger	**AD Primary packaging**	Blister pack

Comments	Number of components: 3

PRICE AND SHIPPING

Shipping volume (m3)	0.1031	**Weight per package (Kg)**	15.9200
Pieces per package	4000	**Minimum order (unit)**	640000.00
Price 1	POA	**Year of base price**	2024
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



IMD-PQS Code:	**E008-112**
Status:	Prequalified
Date of acceptance:	07 May 2025
Product description:	AD syringe 0.5ml
Manufacturer:	PT Oneject Indonesia
Country of Manufacture:	Indonesia
Address:	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia
Telephone:	+62 21 879 17 422
Email:	niken.permatasari@oneject.co.id
Website address:	www.oneject.co.id
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Syringe material(s)	Polypropylene	**RUP mechanism**	Locked / Broken plunger
Other needle size options	Yes	**Units per package**	100.00
AD Number pieces	3	**Auto-disabling at:**	Start of injection
Needle Size	23Gx1" (0.60 x 25 mm)	**AD Primary packaging**	Blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.0048	**Weight per Unit (Kg)**	0.6420
Minimum order (unit)	1000.00	**Price 1**	Upon request to manufacturer
Year of base price	2025	**Incoterms**	FOB

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	MDSAP
Specification Reference	1. EN ISO 13485 : 2016 (MD 760987) 2. US 21 CFR part 820 3. GMP-MD Indonesia by Ministry of Health		

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**KOJAK SELINGE 0.5ml**
IMD-PQS Code:	E008-114
Status:	Prequalified
Date of acceptance:	07 May 2025
Product description:	AD Syringe 0.5ml
Manufacturer:	Hindustan Syringes & Medical Devices Ltd.
Manufacturers Reference:	KOJAK SELINGE 0.5ml
Country of Manufacture:	India
Address:	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India
Telephone:	+91 129-4289000
Email:	hmduk@hmdhealthcare.com
Website address:	www.hmdhealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE	**Syringe material(s)**	Polypropylene
RUP mechanism	Locked / Broken plunger	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Units per package**	2000.00
AD Number pieces	3	**Auto-disabling at:**	Start of injection
Needle Size	23Gx1" (0.60 x 25 mm)	**AD Sub Category**	Simple AD
AD Primary packaging	Blister pack		

Comments	1. Average Dead Space= 0.03 ml. 2. Other Needle Sizes available on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.09	**Weight per package (Kg)**	13.1000
Minimum order (unit)	20000.00	**Price 1**	Over 1 million - USD 4.50/100 Pcs
Price 2	Over 10 millions - USD 4.00/100 Pcs	**Price 3**	Over 50 millions - USD 3.75/100 Pcs
Year of base price	2025	**Incoterms**	FCA

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015; MDSAP

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Hongda 0.1ml AD syringe**
IMD-PQS Code:	E008-122
Status:	Prequalified
Date of acceptance:	10 Dec 2018
Appliance type:	E008
Product description:	0.1ml AD syringe
Manufacturer:	Jiangxi Hongda Medical Equipment Group Ltd
Manufacturers Reference:	Hongda 0.1ml AD syringe
Country of Manufacture:	China
Address:	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China
Telephone:	+86 791 85628828
Email:	hongda008@jxhd.cn
Website address:	http://www.jxhd.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.10	**Graduations (ml)**	0.10
Markings	CE mark	**RUP mechanism**	AD
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	3 pieces
Auto-disabling at:	End of injection	**Needle Size**	25Gx3/4" (0.50 x 19 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack
Comments	Pieces per carton: 1500 or other quantity. Other quantities per carton available.		

PRICE AND SHIPPING

Shipping volume (m3)	0.0979	**Weight per package (Kg)**	19.0000
Pieces per package	1500	**Minimum order (unit)**	100000.00
Price 1	price available on request	**Year of base price**	2017
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 7886-3
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

PRODUCT SITES

Organization name	Jiangxi Hongda Medical Equipment Group Ltd
Address	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**Hongda 0.5ml AD syringe**
IMD-PQS Code:	E008-123
Status:	Prequalified
Date of acceptance:	10 Dec 2018
Appliance type:	E008
Product description:	0.5ml AD syringe
Manufacturer:	Jiangxi Hongda Medical Equipment Group Ltd
Manufacturers Reference:	Hongda 0.5ml AD syringe
Country of Manufacture:	China
Address:	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China
Telephone:	+86 791 85628828
Email:	hongda008@jxhd.cn
Website address:	http://www.jxhd.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**RUP mechanism**	Locked/broken plunger
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Units per package	100.00	**AD Number pieces**	3 pieces
Auto-disabling at:	End of injection	**Needle Size**	23Gx1" (0.60 x 25 mm)
AD Sub Category	Simple AD	**AD Primary packaging**	Blister pack

Comments	Pieces per carton: Pieces per carton: 1500 or other quantity available.

PRICE AND SHIPPING

Shipping volume (m3)	0.0979	**Weight per package (Kg)**	19.0000
Pieces per package	1500	**Minimum order (unit)**	100000.00
Price 1	price available on request	**Year of base price**	2017
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: 7889-3 Applicable PQS VP(s):

PRODUCT SITES

Organization name	Jiangxi Hongda Medical Equipment Group Ltd
Address	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E008: Injection devices for immunization



Product name:	**ICO 0.5ml Auto Disable syringe**
IMD-PQS Code:	E008-124
Status:	Prequalified
Date of acceptance:	30 Apr 2019
Appliance type:	E008
Product description:	0.5ml Auto Disable syringe
Manufacturer:	International Company for Medical Necessities
Manufacturers Reference:	ICO 0.5ml Auto Disable syringe
Country of Manufacture:	Egypt, Arab Rep.
Address:	Industrial Zone Block No. 19&67 Abu Tig Assuit Egypt Egypt
Telephone:	+2 (088) 49 50200 - 202 - 250
Email:	mak@medical-ico.com
Website address:	www.medical-ico.com & aak@medical-ico.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	0.50	**Graduations (ml)**	0.50
Markings	CE mark	**Syringe material(s)**	Polypropylene
RUP mechanism	Locking plunger	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Units per package**	2000.00
AD Number pieces	3 pieces	**Auto-disabling at:**	End of injection
Needle Size	23Gx1" (0.60 x 25 mm)	**AD Primary packaging**	Blister pack

Comments	Shipping volume (m3): 0.710 x 0.385 x 0.308

PRICE AND SHIPPING

Weight per package (Kg)	13.2000	**Pieces per package**	2000
Minimum order (unit)	500000.00	**Price 1**	100,000 US$0.039
Price 2	1,000,000 US$0.038	**Price 3**	>1,000,000 US$0.0378
Year of base price	2019	**Incoterms**	EXW

QUALITY STANDARD

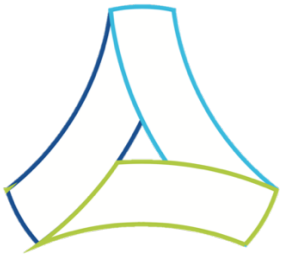
Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: Applicable PQS VP(s):

PRODUCT SITES

Organization name	International Company for Medical Necessities
Address	Industrial Zone Block No. 19&67 Abu Tig Assuit Egypt Egypt

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



E010
Waste-management Equipment

This category of products includes safety boxes, needle cutters and disablers and small-scale incinerators or autoclaves. Waste disposal is a key element of any immunization programme. Poorly managed waste from immunization sessions exposes heath workers and the community to injury and infection. Guidelines for safe delivery of immunization injections and safe disposal of used syringes and needles can be found in WHO's Immunization in practice: Module 3: Ensuring safe injections.

The cost of waste disposal must be incorporated into the national budget for immunization activities and training curricula should include waste disposal procedures.

Details regarding the products included in each sub-category of E010, as well as guidelines, performance specifications and verification protocols for this category, can be accessed through the drop-down sections below.

E010.1: Safety boxes

Puncture-resistant containers for the collection and disposal of auto-disable syringes, needles and other injection materials must be provided and used for all immunization activities. These containers reduce the risk posed by contaminated needles and syringes both to health staff and the community. Containers are available in a range of sizes.

Guidelines for the procurement, capacity needs and use of safety boxes can found in the WHO Guidelines for estimating costs of introducing new vaccines into the national immunization system.

Training for health workers on the management of sharps waste can be in available in the Training Health Workers in the Management of Sharps Waste: Guide for Training Injection Providers from PATH and the WHOs Training for mid-level managers (MLM): 3. Immunization safety.

A guidance document on Designing safe syringe disposal systems for immunization services is also available from PATH.

CATEGORY DOCUMENTATION, GUIDANCE FOR MANUFACTURERS/SUPPLIERS & SUPPORTING INFORMATION FOR USERS

Performance specifications

PQS performance specification E010/NC01.1: Needle cutter for health waste management

PQS performance specification E010/SB01.1: Safety box for the disposal of used sharps

Verification protocols

PQS independent type-testing protocol E010/NC.1-VP.1: Needle cutter for health waste management

PQS independent type-testing protocol E010/SB01-VP.1: Safety box for the disposal of used sharps

Guidance for manufacturers/suppliers

Generic guide for the field evaluation of new technologies for WHO PQS prequalification GENERIC/GUIDE 1.1

IMD-PQS Guidelines for Prequalification Holders

Designing safe syringe disposal systems for immunization services

Supporting information for users

Guidelines for estimating costs of introducing new vaccines into the national immunization system

Training Health Workers in the Management of Sharps Waste: Guide for Training Injection Providers

Training for mid-level managers (MLM): 3. Immunization safety

WHO Immunisation Devices - Performance, Quality & Safety

E010: Waste management equipment



Product name:	**POLYSAFE® 5L**
IMD-PQS Code:	E010-001
Status:	Prequalified
Date of acceptance:	07 Oct 2008
Appliance type:	E010
Product description:	Safety box 5L
Manufacturer:	POLYNOR AS
Manufacturers Reference:	POLYSAFE® 5L
Country of Manufacture:	Norway
Address:	Oslo Science Park Gaustadalléen 21 N- 0349 Oslo Norway Norway
Telephone:	+47 932 59 486
Email:	maria@polynor.no
Website address:	http://www.polynor.no
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Volume (Litre)	5.00	**Temperature Zones**	Temperate
Capacity (# units)	155.00	**Diameter syringe hole (mm)**	38.00
Material	recycled carton board	**Colour**	White
Walls thickness (mm)	1.30	**Weight fully assembled (grams)**	300.00
Ext.Dimension After Assembly Height(mm)	274.00	**Ext.Dimension After Assembly Length(mm)**	155.00
Ext.Dimension After Assembly Width(mm)	121.00	**Ext.Dimension Before Assembly Height(mm)**	5.00
Ext.Dimension Before Assembly Length(mm)	590.00	**Ext.Dimension Before Assembly Width(mm)**	280.00

PRICE AND SHIPPING

Shipping volume (m3)	0.02	**Weight per Unit (Kg)**	8.0000
Pieces per package	25 units	**Minimum order**	25.00
Price 1	On request	**Year of base price**	2008
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: E010/SB01.1 Applicable PQS VP(s): E010/SB0-VP.1		

VERIFICATION

Verification Laboratory	ForceTechnology	**Address**	FORCE Technology Brøndby Park Allé 345 2605 Brøndby DenmarkDenmark
Telephone	+45 43250591	**Email**	njs@force.dk
Verification Report Reference	115-26166.e rev.1		

PRODUCT SITES

Organization name	POLYNOR AS
Address	Oslo Science Park Gaustadalléen 21 N- 0349 Oslo Norway Norway

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E010: Waste management equipment



Product name:	**POLYSAFE® 15L**
IMD-PQS Code:	E010-003
Status:	Prequalified
Date of acceptance:	07 Oct 2008
Appliance type:	E010
Product description:	Safety box 15L
Manufacturer:	POLYNOR AS
Manufacturers Reference:	POLYSAFE® 15L
Country of Manufacture:	Norway
Address:	Oslo Science Park Gaustadalléen 21 N- 0349 Oslo Norway Norway
Telephone:	+47 932 59 486
Email:	maria@polynor.no
Website address:	http://www.polynor.no
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Volume (Litre)	15.00	**Capacity (# units)**	450.00
Diameter syringe hole (mm)	39.00	**Material**	Recycled carton board, water resistant
Colour	White	**Walls thickness (mm)**	1.30
Weight fully assembled (grams)	680.00	**Ext.Dimension After Assembly Height(mm)**	210.00
Ext.Dimension After Assembly Length(mm)	310.00	**Ext.Dimension After Assembly Width(mm)**	240.00
Ext.Dimension Before Assembly Height(mm)	6.00	**Ext.Dimension Before Assembly Length(mm)**	775.00
Ext.Dimension Before Assembly Width(mm)	445.00		

PRICE AND SHIPPING

Shipping volume (m3)	0.02	**Weight per Unit (Kg)**	8.1000
Pieces per package	10 units per carton	**Minimum order**	10.00
Price 1	On request	**Year of base price**	2008
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: E010/CB01.1 Applicable PQS VP(s): E010/CB-VP.1		

VERIFICATION

Verification Laboratory	ForceTechnology	**Address**	FORCE Technology Brøndby Park Allé 345 2605 Brøndby DenmarkDenmark
Telephone	+45 43250591	**Email**	njs@force.dk
Verification Report Reference	108-21912-3		

PRODUCT SITES

Organization name	POLYNOR AS
Address	Oslo Science Park Gaustadalléen 21 N- 0349 Oslo Norway Norway

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E010: Waste management equipment



Product name:	**Kojak safety box 5L**
IMD-PQS Code:	E010-006
Status:	Prequalified
Date of acceptance:	28 Apr 2009
Appliance type:	E010
Product description:	Safety box 5L
Manufacturer:	Hindustan Syringes & Medical Devices Ltd.
Manufacturers Reference:	Kojak safety box 5L
Country of Manufacture:	India
Address:	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India
Telephone:	+91 129-4289000
Email:	hmduk@hmdhealthcare.com
Website address:	www.hmdhealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Volume (Litre)	5.00	**Capacity (# units)**	100.00
Diameter syringe hole (mm)	38.00	**Material**	Yellow duplex kraft board
Colour	Yellow	**Walls thickness (mm)**	1.10
Weight fully assembled (grams)	275.00	**Ext.Dimension After Assembly Height(mm)**	125.00
Ext.Dimension After Assembly Length(mm)	285.00	**Ext.Dimension After Assembly Width(mm)**	160.00
Ext.Dimension Before Assembly Height(mm)	4.00	**Ext.Dimension Before Assembly Length(mm)**	585.00
Ext.Dimension Before Assembly Width(mm)	285.00		

PRICE AND SHIPPING

Shipping volume (m3)	0.016	**Weight per Unit (Kg)**	8.1000
Pieces per package	25 units	**Minimum order**	25.00
Price 1	0.60 USD/pc	**Year of base price**	2025
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: E010/CB01.1 Applicable PQS VP(s): E010/CB-VP.1		

VERIFICATION

Verification Laboratory	ForceTechnology	**Address**	FORCE Technology Brøndby Park Allé 345 2605 Brøndby DenmarkDenmark
Telephone	+45 43250591	**Email**	njs@force.dk
Verification Report Reference	108-32733-(20 April 2009)		

PRODUCT SITES

Organization name	Hindustan Syringes & Medical Devices Ltd.
Address	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E010: Waste management equipment



Product name:	**Medibest Disposafe 2.5L**
IMD-PQS Code:	E010-008
Status:	Prequalified
Date of acceptance:	24 Jul 2009
Appliance type:	E010
Product description:	Safety box 2.5L
Manufacturer:	PT.Medibest Indonesia
Manufacturers Reference:	Medibest Disposafe 2.5L
Country of Manufacture:	Indonesia
Address:	The Manhattan Square Mid. Tower 21st Floor, Jl. TB. Simatupang Kav. 1S, Cilandak Timur, Jakarta Selatan, Indonesia 12650 Indonesia
Telephone:	+62 21 29406858 / +62 21 29406859
Email:	info@medibestgroup.com
Website address:	http://www.medibestgroup.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Volume (Litre)	2.50	**Capacity (# units)**	81.00
Diameter syringe hole (mm)	40.00	**Material**	recycled board and virgin fiber
Colour	Yellow	**Walls thickness (mm)**	1.10
Weight fully assembled (grams)	290.00	**Ext.Dimension After Assembly Height(mm)**	116.00
Ext.Dimension After Assembly Length(mm)	238.00	**Ext.Dimension After Assembly Width(mm)**	127.00
Ext.Dimension Before Assembly Height(mm)	2.00	**Ext.Dimension Before Assembly Length(mm)**	551.00
Ext.Dimension Before Assembly Width(mm)	238.00		

Comments	Carton of 25 units; custom made printing on demand

PRICE AND SHIPPING

Shipping volume (m3)	0.024	**Weight per Unit (Kg)**	7.5000
Pieces per package	25 units	**Minimum order**	25.00
Price 1	On request	**Year of base price**	2009
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: E010/CB01.1 Applicable PQS VP(s): E010/CB-VP.1		

VERIFICATION

Verification Laboratory	ForceTechnology	**Address**	FORCE Technology Brøndby Park Allé 345 2605 Brøndby DenmarkDenmark
Telephone	+45 43250591	**Email**	njs@force.dk
Verification Report Reference	109-24758-1 (May 2009)		

PRODUCT SITES

Organization name	PT.Medibest Indonesia
Address	The Manhattan Square Mid. Tower 21st Floor, Jl. TB. Simatupang Kav. 1S, Cilandak Timur, Jakarta Selatan, Indonesia 12650 Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E010: Waste management equipment



Product name:	**Medibest Disposafe 5L**
IMD-PQS Code:	E010-009
Status:	Prequalified
Date of acceptance:	24 Jul 2009
Appliance type:	E010
Product description:	Safety box 5L
Manufacturer:	PT.Medibest Indonesia
Manufacturers Reference:	Medibest Disposafe 5L
Country of Manufacture:	Indonesia
Address:	The Manhattan Square Mid. Tower 21st Floor, Jl. TB. Simatupang Kav. 1S, Cilandak Timur, Jakarta Selatan, Indonesia 12650 Indonesia
Telephone:	+62 21 29406858 / +62 21 29406859
Email:	info@medibestgroup.com
Website address:	http://www.medibestgroup.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Volume (Litre)	5.00	**Capacity (# units)**	142.00
Diameter syringe hole (mm)	40.00	**Material**	recycled carton board and virgin fiber
Colour	Yellow	**Walls thickness (mm)**	1.00
Weight fully assembled (grams)	376.00	**Ext.Dimension After Assembly Height(mm)**	130.00
Ext.Dimension After Assembly Length(mm)	290.00	**Ext.Dimension After Assembly Width(mm)**	158.00
Ext.Dimension Before Assembly Height(mm)	2.00	**Ext.Dimension Before Assembly Length(mm)**	660.00
Ext.Dimension Before Assembly Width(mm)	238.00		

Comments	Carton of 25 units; custom printing on demand

PRICE AND SHIPPING

Shipping volume (m3)	0.029	**Weight per Unit (Kg)**	9.0000
Pieces per package	25 units	**Minimum order**	25.00
Price 1	On request	**Year of base price**	2009
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: E010/CB01.1 Applicable PQS VP(s): E010/CB-VP.1		

VERIFICATION

Verification Laboratory	ForceTechnology	**Address**	FORCE Technology Brøndby Park Allé 345 2605 Brøndby DenmarkDenmark
Telephone	+45 43250591	**Email**	njs@force.dk
Verification Report Reference	109-24758.b (June 2009)		

PRODUCT SITES

Organization name	PT.Medibest Indonesia
Address	The Manhattan Square Mid. Tower 21st Floor, Jl. TB. Simatupang Kav. 1S, Cilandak Timur, Jakarta Selatan, Indonesia 12650 Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E010: Waste management equipment



Product name:	**Sol-Millennium Safety Box 5L**
IMD-PQS Code:	E010-010
Status:	Prequalified
Date of acceptance:	11 Jan 2010
Appliance type:	E010
Product description:	Safety box 5L
Manufacturer:	Shanghai Sol-Millennium Medical Products Co. Ltd.
Manufacturers Reference:	Sol-Millennium Safety Box 5L
Country of Manufacture:	China
Address:	Unit 2501-2506, No. 2 Grand Gateway No. 3 Hongqiao Road Xuhui District 20030 Shanghai China
Telephone:	+86-21-68622586-17
Email:	ichen@solm.com
Website address:	www.sol-m.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Volume (Litre)	5.00	**Capacity (# units)**	150.00
Diameter syringe hole (mm)	38.00	**Material**	cardboard
Colour	Brown	**Walls thickness (mm)**	1.30
Weight fully assembled (grams)	270.00	**Ext.Dimension After Assembly Height(mm)**	130.00
Ext.Dimension After Assembly Length(mm)	288.00	**Ext.Dimension After Assembly Width(mm)**	165.00
Ext.Dimension Before Assembly Height(mm)	5.00	**Ext.Dimension Before Assembly Length(mm)**	600.00
Ext.Dimension Before Assembly Width(mm)	280.00		

PRICE AND SHIPPING

Shipping volume (m3)	0.018	**Weight per Unit (Kg)**	8.0000
Pieces per package	25	**Minimum order**	5000.00
Price 1	On request	**Year of base price**	2010
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: E010/SB01.1 Applicable PQS VP(s): E010/SB01-VP.1		

VERIFICATION

Verification Laboratory	ForceTechnology	**Address**	FORCE Technology Brøndby Park Allé 345 2605 Brøndby DenmarkDenmark
Telephone	+45 43250591	**Email**	njs@force.dk
Verification Report Reference	110-29507 (August 2010)		

PRODUCT SITES

Organization name	Shanghai Sol-Millennium Medical Products Co. Ltd.
Address	Unit 2501-2506, No. 2 Grand Gateway No. 3 Hongqiao Road Xuhui District 20030 Shanghai China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E010: Waste management equipment



Product name:	**SB TimSafe 5L NE**
IMD-PQS Code:	E010-011
Status:	Prequalified
Date of acceptance:	24 Sep 2013
Appliance type:	E010
Product description:	Safety box 5L
Manufacturer:	Smurfit Westrock Sverige AB
Manufacturers Reference:	SB TimSafe 5L NE
Country of Manufacture:	Sweden
Address:	Bruksvägen 31G SE-285 40 Markaryd, Sweden Sweden
Telephone:	+46 433 18100
Email:	lina.harrysson@smurfitkappa.se
Website address:	http://www.timboard.se
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Volume (Litre)	5.00	**Capacity (# units)**	150.00
Diameter syringe hole (mm)	38.00	**Material**	Recycled board and virgin fiber
Colour	White	**Walls thickness (mm)**	1.20
Weight fully assembled (grams)	250.00	**Ext.Dimension After Assembly Height(mm)**	315.00
Ext.Dimension After Assembly Length(mm)	154.00	**Ext.Dimension After Assembly Width(mm)**	113.00
Ext.Dimension Before Assembly Height(mm)	4.00	**Ext.Dimension Before Assembly Length(mm)**	468.00
Ext.Dimension Before Assembly Width(mm)	260.00		

PRICE AND SHIPPING

Shipping volume (m3)	0.013	**Weight per Unit (Kg)**	6.5400
Pieces per package	25 units	**Minimum order**	100.00
Price 1	0.89 €	**Price 2**	22.25 € per 25 pack
Year of base price	2018	**Incoterms**	EXW

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: E010/SB01.1 Applicable PQS VP(s): E010/SB01-VP.1		

VERIFICATION

Verification Laboratory	ForceTechnology	**Address**	FORCE Technology Brøndby Park Allé 345 2605 Brøndby DenmarkDenmark
Telephone	+45 43250591	**Email**	njs@force.dk
Verification Report Reference	113-28810		

PRODUCT SITES

Organization name	Smurfit Westrock Sverige AB
Address	Bruksvägen 31G SE-285 40 Markaryd, Sweden Sweden

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E010: Waste management equipment



Product name:	**2.5L Safety Box**
IMD-PQS Code:	E010-013
Status:	Prequalified
Date of acceptance:	18 Aug 2017
Product description:	2.5L Safety Box
Manufacturer:	PT. Tonnindo Eramulya
Manufacturers Reference:	2.5L Safety Box
Country of Manufacture:	Indonesia
Address:	Jl. AKBP R.Agil Kusumadya No.203 59346 Kudus – Jawa Tengah Indonesia
Telephone:	+62 291 444361 / 444363
Email:	tonnindo@cbn.net.id
Website address:	www.puragroup.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Volume (Litre)	2.50	**Capacity (# units)**	80.00
Diameter syringe hole (mm)	42.00	**Material**	recycled board and virgin fibre, water resistant
Colour	yellow	**Weight empty (g)**	227.0000
Ext.Dimension After Assembly Height(mm)	235.00	**Ext.Dimension After Assembly Length(mm)**	120.00
Ext.Dimension After Assembly Width(mm)	110.00	**Ext.Dimension Before Assembly Height(mm)**	530.00
Ext.Dimension Before Assembly Length(mm)	230.00	**Ext.Dimension Before Assembly Width(mm)**	28.00

PRICE AND SHIPPING

Shipping volume (m3)	0.001	**Weight per Unit (Kg)**	9.0000
Pieces per package	25	**Minimum order**	100.00
Price 1	> 10,000 USD 2.46	**Price 2**	>1,000 USD 2.93
Price 3		**Year of base price**	2017
Incoterms	DDP		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001

VERIFICATION

Verification Laboratory	ForceTechnology	**Address**	FORCE Technology Brøndby Park Allé 345 2605 Brøndby DenmarkDenmark
Telephone	+45 43250591	**Email**	njs@force.dk

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E010: Waste management equipment



Product name:	**5L Safety Box**
IMD-PQS Code:	E010-015
Status:	Prequalified
Date of acceptance:	18 Aug 2017
Product description:	Safety box 5L
Manufacturer:	PT. Tonnindo Eramulya
Manufacturers Reference:	5L Safety Box
Country of Manufacture:	Indonesia
Address:	Jl. AKBP R.Agil Kusumadya No.203 59346 Kudus – Jawa Tengah Indonesia
Telephone:	+62 291 444361 / 444363
Email:	tonnindo@cbn.net.id
Website address:	www.puragroup.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Volume (Litre)	5.00	**Capacity (# units)**	171.00
Diameter syringe hole (mm)	38.00	**Material**	recycled board and virgin fibre, water resistant
Colour	yellow	**Weight empty (g)**	357.0000
Ext.Dimension After Assembly Height(mm)	290.00	**Ext.Dimension After Assembly Length(mm)**	150.00
Ext.Dimension After Assembly Width(mm)	120.00	**Ext.Dimension Before Assembly Height(mm)**	584.00
Ext.Dimension Before Assembly Length(mm)	270.00	**Ext.Dimension Before Assembly Width(mm)**	28.00

PRICE AND SHIPPING

Shipping volume (m3)	0.00163	**Weight per Unit (Kg)**	12.5000
Pieces per package	25	**Minimum order**	100.00
Price 1	>10,000 USD 3.46	**Price 2**	>1,000 USD 3.92
Price 3	>100 USD 3.98	**Year of base price**	2017
Incoterms	DDP		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001

VERIFICATION

Verification Laboratory	ForceTechnology	**Address**	FORCE Technology Brøndby Park Allé 345 2605 Brøndby DenmarkDenmark
Telephone	+45 43250591	**Email**	njs@force.dk
Verification Report Reference	117-24734.b rev.1		

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E010: Waste management equipment



Product name:	**Medeco Safety Box 5L**
IMD-PQS Code:	E010-016
Status:	Prequalified
Date of acceptance:	15 Feb 2019
Product description:	5L Safety box
Manufacturer:	Abu Dhabi Medical Devices Co. L.L.C
Manufacturers Reference:	Medeco Safety Box 5L
Address:	MUSSAFAH INDUSTRIAL AREA, M-43, PLOT 124, 30485, ABU DHABI United Arab Emirates
Telephone:	+971-2-6199100
Email:	info@admd.ae
Website address:	http://www.admd.ae
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Volume (Litre)	5.00	**Capacity (# units)**	377.00
Diameter syringe hole (mm)	39.00	**Material**	recyclable cardboard
Colour	yellow	**Weight empty (g)**	215.0000
Ext.Dimension After Assembly Height(mm)	310.00	**Ext.Dimension After Assembly Length(mm)**	150.00
Ext.Dimension After Assembly Width(mm)	10.00	**Ext.Dimension Before Assembly Height(mm)**	465.00
Ext.Dimension Before Assembly Length(mm)	255.00	**Ext.Dimension Before Assembly Width(mm)**	5.00

PRICE AND SHIPPING

Shipping volume (m3)	0.02	**Weight per Unit (Kg)**	6.5000
Pieces per package	25	**Minimum order**	25.00
Price 1	1USD	**Year of base price**	2019
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001

VERIFICATION

Verification Report Reference	7191172189-EEC17-WBH

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E010: Waste management equipment



Product name:	**SAFE5L4K**
IMD-PQS Code:	E010-017
Status:	Prequalified
Date of acceptance:	07 May 2019
Appliance type:	E010
Product description:	5L Safety box
Manufacturer:	Pa-Hu Oy
Manufacturers Reference:	SAFE5L4K
Country of Manufacture:	Finland
Address:	Teollisuustie 2, FIN-02880 Veikkola, Finland Finland
Telephone:	+358-20 789 1000
Email:	ilkka.raikamo@pa-hu.fi
Website address:	http://www.pa-hu.fi
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Volume (Litre)	5.00	**Capacity (# units)**	150.00
Diameter syringe hole (mm)	38.00	**Material**	carton
Colour	brown	**Walls thickness (mm)**	1.20
Weight fully assembled (grams)	210.00	**Ext.Dimension After Assembly Height(mm)**	153.00
Ext.Dimension After Assembly Length(mm)	305.00	**Ext.Dimension After Assembly Width(mm)**	113.00
Ext.Dimension Before Assembly Height(mm)	4.00	**Ext.Dimension Before Assembly Length(mm)**	460.00
Ext.Dimension Before Assembly Width(mm)	260.00		

PRICE AND SHIPPING

Shipping volume (m3)	0.014	**Weight per Unit (Kg)**	5.8000
Pieces per package	25	**Minimum order**	2000.00
Price 1	2000 pieces 0.86€/pc	**Price 2**	> 46,000 pc 0.82€/pc
Price 3	>96,000 0.77€/pc	**Year of base price**	2025
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: E10/SB01-VP.1 Applicable PQS VP(s): E10/SB01.1		

VERIFICATION

Verification Laboratory	ForceTechnology	**Address**	FORCE Technology Brøndby Park Allé 345 2605 Brøndby DenmarkDenmark
Telephone	+45 43250591	**Email**	njs@force.dk
Verification Report Reference	123-28428.b 30.11.2023		

PRODUCT SITES

Organization name	Pa-Hu Oy
Address	Teollisuustie 2, FIN-02880 Veikkola, Finland Finland

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E010: Waste management equipment



Product name:	**5 litre Safety box “LeSafe”**
IMD-PQS Code:	E010-018
Status:	Prequalified
Date of acceptance:	03 Mar 2022
Appliance type:	E010
Product description:	Safety Box 5L
Manufacturer:	Qingdao Leff International Trading Co Ltd
Manufacturers Reference:	5 litre Safety box “LeSafe”
Country of Manufacture:	China
Address:	10, Yan er’dao Road Qingdao 266000 P.R.China China
Telephone:	+ 86 373 7116885
Email:	david@lefftrade.org
Website address:	www.lefftrade.org
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Volume (Litre)	5.00	**Capacity (# units)**	171.00
Diameter syringe hole (mm)	39.00	**Material**	cardboard
Colour	brown	**Walls thickness (mm)**	1.30
Weight fully assembled (grams)	254.00	**Ext.Dimension After Assembly Height(mm)**	112.00
Ext.Dimension After Assembly Length(mm)	310.00	**Ext.Dimension After Assembly Width(mm)**	150.00
Ext.Dimension Before Assembly Height(mm)	4.00	**Ext.Dimension Before Assembly Length(mm)**	595.00
Ext.Dimension Before Assembly Width(mm)	255.00		

PRICE AND SHIPPING

Shipping volume (m3)	0.016	**Weight per Unit (Kg)**	7.2000
Pieces per package	25	**Minimum order**	100.00
Price 1	100 units: USD 0.98	**Price 2**	1000 units: USD 0.97
Price 3	10000 units: USD 0.89	**Year of base price**	2022
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: E10/SB01.1 Applicable PQS VP(s): E10/SB01-VP.1		

VERIFICATION

Verification Laboratory	ForceTechnology	**Address**	FORCE Technology Brøndby Park Allé 345 2605 Brøndby DenmarkDenmark
Telephone	+45 43250591	**Email**	njs@force.dk
Verification Report Reference	122-21633 rev.2, dated on Apr. 8th, 2022		

PRODUCT SITES

Organization name	Qingdao Leff International Trading Co Ltd

Address	10, Yan er’dao Road Qingdao 266000 P.R.China China		
Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E010: Waste management equipment



Product name:	**HFD-5L**
IMD-PQS Code:	E010-019
Status:	Prequalified
Date of acceptance:	18 Jan 2023
Appliance type:	E010
Product description:	5L Safety box
Manufacturer:	Qingdao Hengfengda EPT INC.
Manufacturers Reference:	HFD-5L
Country of Manufacture:	China
Address:	Room 1502, Unit 2, Building 26, No. 37 Xintun Road, Huangdao District Quingdao City Shandong Province 266000 China
Telephone:	86-152 752 666 81
Email:	alex@qdhfdept.com.invalid
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Volume (Litre)	5.00	**Capacity (# units)**	150.00
Diameter syringe hole (mm)	38.00	**Material**	cardboard
Colour	brown	**Walls thickness (mm)**	1.40
Weight fully assembled (grams)	332.00	**Ext.Dimension After Assembly Height(mm)**	125.00
Ext.Dimension After Assembly Length(mm)	325.00	**Ext.Dimension After Assembly Width(mm)**	162.00
Ext.Dimension Before Assembly Height(mm)	4.00	**Ext.Dimension Before Assembly Length(mm)**	568.00
Ext.Dimension Before Assembly Width(mm)	281.00		

PRICE AND SHIPPING

Shipping volume (m3)	0.016	**Weight per Unit (Kg)**	9.0000
Pieces per package	25	**Minimum order**	100.00
Price 1	1,000 units USD 0.93	**Price 2**	10,000 units: USD 0.86
Price 3	1,000,000 units: USD 0.72	**Year of base price**	2023

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: WHO/PQS/E10/SB0 Applicable PQS VP(s): WHO/PQS/E10/SB0		

VERIFICATION

Verification Laboratory	ForceTechnology	**Address**	FORCE Technology Brøndby Park Allé 345 2605 Brøndby DenmarkDenmark
Telephone	+45 43250591	**Email**	njs@force.dk
Verification Report Reference	122-30007		

PRODUCT SITES

Organization name	Qingdao Hengfengda EPT INC.

Address	Room 1502, Unit 2, Building 26, No. 37 Xintun Road, Huangdao District Quingdao City Shandong Province 266000 China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E010: Waste management equipment



Product name:	**PT. Tonnindo Eramulya 2.5L Safety Box**
IMD-PQS Code:	E10 013
Status:	Prequalified
Date of acceptance:	18 Aug 2017
Appliance type:	E010
Product description:	2.5L Safety Box
Manufacturer:	PT. Tonnindo Eramulya
Manufacturers Reference:	PT. Tonnindo Eramulya 2.5L Safety Box
Country of Manufacture:	Indonesia
Address:	Jl. AKBP R.Agil Kusumadya No.203 59346 Kudus – Jawa Tengah Indonesia
Telephone:	+62 291 444361 / 444363
Email:	tonnindo@cbn.net.id
Website address:	www.puragroup.com
Valid until:	31 May 2024

Specifications

PRODUCT SPECIFICATIONS - MAIN

Volume (Litre)	2.50	**Capacity (# units)**	80.00
Diameter syringe hole (mm)	42.00	**Material**	recycled board and virgin fibre, water resistant
Colour	yellow	**Walls thickness (mm)**	1.80
Weight fully assembled (grams)	227.00	**Ext.Dimension After Assembly Height(mm)**	110.00
Ext.Dimension After Assembly Length(mm)	235.00	**Ext.Dimension After Assembly Width(mm)**	120.00
Ext.Dimension Before Assembly Height(mm)	28.00	**Ext.Dimension Before Assembly Length(mm)**	530.00
Ext.Dimension Before Assembly Width(mm)	230.00		

Comments	Title: 2.5L Safety Box

PRICE AND SHIPPING

Shipping volume (m3)	0.001	**Weight per Unit (Kg)**	9.0000
Pieces per package	25	**Minimum order**	100.00
Price 1	> 10,000 USD 2.46	**Price 2**	>1,000 USD 2.93
Price 3		**Year of base price**	2017
Incoterms	DDP		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: E10/SB01.1 Applicable PQS VP(s): E10/SB01-VP.1		

VERIFICATION

Verification Laboratory	ForceTechnology	**Address**	FORCE Technology Brøndby Park Allé 345 2605 Brøndby DenmarkDenmark
Telephone	+45 43250591	**Email**	njs@force.dk
Verification Report Reference	0		

PRODUCT SITES

Organization name	PT. Tonnindo Eramulya
Address	Jl.Pembangunan III # 14E. Jakarta 10130 Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E010: Waste management equipment



Product name:	**PT. Tonnindo Eramulya 5L Safety Box**
IMD-PQS Code:	E10 015
Status:	Prequalified
Date of acceptance:	10 Mar 2017
Appliance type:	E010
Product description:	5L Safety Box
Manufacturer:	PT. Tonnindo Eramulya
Manufacturers Reference:	PT. Tonnindo Eramulya 5L Safety Box
Country of Manufacture:	Indonesia
Address:	Jl. AKBP R.Agil Kusumadya No.203 59346 Kudus – Jawa Tengah Indonesia
Telephone:	+62 291 444361 / 444363
Email:	tonnindo@cbn.net.id
Website address:	www.puragroup.com
Valid until:	31 May 2024

Specifications

PRODUCT SPECIFICATIONS - MAIN

Volume (Litre)	5.00	**Capacity (# units)**	171.00
Diameter syringe hole (mm)	38.00	**Material**	recycled board and virgin fibre, water resistant
Colour	yellow	**Walls thickness (mm)**	1.80
Weight fully assembled (grams)	357.00	**Ext.Dimension After Assembly Height(mm)**	120.00
Ext.Dimension After Assembly Length(mm)	290.00	**Ext.Dimension After Assembly Width(mm)**	150.00
Ext.Dimension Before Assembly Height(mm)	28.00	**Ext.Dimension Before Assembly Length(mm)**	584.00
Ext.Dimension Before Assembly Width(mm)	270.00		

Comments	Title: 5L Safety Box

PRICE AND SHIPPING

Shipping volume (m3)	0.00163	**Weight per Unit (Kg)**	12.5000
Pieces per package	25	**Minimum order**	100.00
Price 1	>10,000 USD 3.46	**Price 2**	>1,000 USD 3.92
Price 3	>100 USD 3.98	**Year of base price**	2017
Incoterms	DDP		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: E10/SB01.1 Applicable PQS VP(s): E10/SB01-VP.1		

VERIFICATION

Verification Laboratory	ForceTechnology	**Address**	FORCE Technology Brøndby Park Allé 345 2605 Brøndby DenmarkDenmark
Telephone	+45 43250591	**Email**	njs@force.dk
Verification Report Reference	117-24734.b rev.1		

PRODUCT SITES

Organization name	PT. Tonnindo Eramulya
Address	Jl.Pembangunan III # 14E. Jakarta 10130 Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

E013

Injection Devices for Therapeutic Uses

The products listed in this new section include single-use Re-use prevention (RUP) syringes for therapeutic use. All prequalified syringes in this category comply with ISO 7886-4 – Sterile hypodermic syringes for single use – Part 4: Syringes with re-use prevention feature.

Guidelines for safe delivery of immunization injection and safe disposal of used syringes and needles can be found in WHO's Immunization in practice: Module 4: Ensuring safe injections.

The performance specification and or verification protocol for this category are currently under development by WHO IMD-PQS for this category. For guidance at the current time, manufacturers and suppliers may refer to to ISO 7886-4 – Sterile hypodermic syringes for single use – Part 4: Syringes with re-use prevention feature.

CATEGORY DOCUMENTATION, GUIDANCE FOR MANUFACTURERS/SUPPLIERS & SUPPORTING INFORMATION FOR USERS

Performance specifications

No WHO IMD-PQS specifications currently available.

ISO 7886-4 – Sterile hypodermic syringes for single use – Part 4: Syringes with re-use prevention feature.

Verification protocols

No WHO IMD-PQS verification protocols currently available.

Guidance for manufacturers/suppliers

Generic guide for the field evaluation of new technologies for WHO PQS prequalification GENERIC/GUIDE 1.1

IMD-PQS Guidelines for Prequalification Holders

Supporting information for users

Guiding principles to ensure injection device security

Immunization in practice: a practical guide for health staff – 2015 update

Safety of injections: WHO-UNICEF-UNFPA joint statement on the use of auto-disable syringes in immunization services

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Kojak Selinge 2ml**
IMD-PQS Code:	E013-001
Status:	Prequalified
Date of acceptance:	24 Mar 2007
Appliance type:	E013
Product description:	RUP syringe 2ml
Manufacturer:	Hindustan Syringes & Medical Devices Ltd.
Manufacturers Reference:	Kojak Selinge 2ml
Country of Manufacture:	India
Address:	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India
Telephone:	+91 129-4289000
Email:	hmduk@hmdhealthcare.com
Website address:	www.hmdhealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Vaccine capacity (mL)	2.00	**Graduations (ml)**	0.10
Needle Size	Other	**Needle Size (Other)**	23G x 1" (0.60 x 25.4 mm)
Needle Fixation	Fixed	**Nominal capacity (ml)**	2.00
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Plunger aspiration	Yes	**Number of pieces**	3.00
RUP mechanism	Locked/broken plunger	**RUP Type**	Plunger lock
Location RUP activation	End of injection	**RUP Needle Fixation**	Fixed
RUP Needle Sizes	23G x 1" (25 mm)	**RUP Nominal Capacity (ml)**	2.00
RUP plunger Aspiration	Multiple	**RUP Primary Packaging**	Paper or Ribbon pack
RUP Sub-category	Simple RUP	**CE marking**	Yes

Comments	Packs of 100 units

PRICE AND SHIPPING

Shipping volume (m3)	0.09	**Shipping weight (kg)**	14.50
Pieces per package	2000	**Minimum order**	20000.00
Price 1	USD 3.70/100 Pcs	**Year of base price**	2025
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

Organization name	Hindustan Syringes & Medical Devices Ltd.
Address	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**VanishPoint II® Retractable syringe 3 ml**
IMD-PQS Code:	E013-002
Status:	Prequalified
Date of acceptance:	15 Jun 2005
Appliance type:	E013
Product description:	RUP Retractable 3 ml
Manufacturer:	Retractable Technologies, Inc.
Manufacturers Reference:	VanishPoint II® Retractable syringe 3 ml
Country of Manufacture:	United States of America
Address:	511 Lobo Lane, Little Elm, TX 75068 United States of America
Telephone:	+1 972 294 1010
Email:	kduesman@retractable.com
Website address:	www.retractable.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	None
Vaccine capacity (mL)	3.00	**Graduations (ml)**	0.10
Needle Size	Other	**Needle Size (Other)**	23G x 1" (25mm)
Needle Fixation	Fixed	**Nominal capacity (ml)**	3.00
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Plunger aspiration	Yes	**Number of pieces**	3.00
RUP mechanism	Retraction of needle into barrel by spring	**RUP Type**	Other
Location RUP activation	End of injection	**RUP Needle Fixation**	Fixed
RUP Needle Sizes	23G x 1" (25 mm)	**RUP Nominal Capacity (ml)**	3.00
RUP plunger Aspiration	Multiple	**RUP Primary Packaging**	Paper blister pack
RUP Sub-category	Retractable RUP		

PRICE AND SHIPPING

Shipping volume (m3)	0.0432	**Shipping weight (kg)**	5.90
Pieces per package	600	**Minimum order**	600.00
Price 1	On request	**Year of base price**	2005
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Retractable Technologies, Inc.
Address	511 Lobo Lane, Little Elm, TX 75068 United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**VanishPoint II® Retractable 1 ml Tuberculin**
IMD-PQS Code:	E013-005
Status:	Prequalified
Date of acceptance:	16 Jun 2005
Appliance type:	E013
Product description:	RUP Retractable 1ml
Manufacturer:	Retractable Technologies, Inc.
Manufacturers Reference:	VanishPoint II® Retractable 1 ml Tuberculin
Country of Manufacture:	United States of America
Address:	511 Lobo Lane, Little Elm, TX 75068 United States of America
Telephone:	+1 972 294 1010
Email:	kduesman@retractable.com
Website address:	www.retractable.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	None
Graduations (ml)	0.01	**Needle Size**	Other
Needle Size (Other)	27 g x 12.7 mm	**Needle Fixation**	Fixed
Nominal capacity (ml)	1.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Retraction of needle into barrel by spring
RUP Type	Other	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	27G x 3/8" (10 mm)
RUP Nominal Capacity (ml)	1.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Paper blister pack	**RUP Sub-category**	Retractable RUP
Comments	The retraction of the needle is a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)		

PRICE AND SHIPPING

Shipping volume (m3)	0.0432	**Shipping weight (kg)**	4.59
Pieces per package	800	**Minimum order**	800.00
Price 1	on request	**Year of base price**	2005
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Retractable Technologies, Inc.
Address	511 Lobo Lane, Little Elm, TX 75068 United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**VanishPoint II® Retractable 1 ml**
IMD-PQS Code:	E013-006
Status:	Prequalified
Date of acceptance:	15 Jun 2005
Appliance type:	E013
Product description:	RUP retractable 1ml
Manufacturer:	Retractable Technologies, Inc.
Manufacturers Reference:	VanishPoint II® Retractable 1 ml
Country of Manufacture:	China
Address:	511 Lobo Lane, Little Elm, TX 75068 United States of America
Telephone:	+1 972 294 1010
Email:	kduesman@retractable.com
Website address:	www.retractable.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	None
Vaccine capacity (mL)	1.00	**Graduations (ml)**	0.01
Needle Size	Other	**Needle Size (Other)**	27G x 12.7 mm
Needle Fixation	Fixed	**Nominal capacity (ml)**	1.00
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Plunger aspiration	Yes	**Number of pieces**	3.00
RUP mechanism	Retraction of needle into barrel by spring	**RUP Type**	Other
Location RUP activation	End of injection	**RUP Needle Fixation**	Fixed
RUP Needle Sizes	27G x 3/8" (10 mm)	**RUP Nominal Capacity (ml)**	1.00
RUP plunger Aspiration	Multiple	**RUP Primary Packaging**	Paper blister pack
RUP Sub-category	Retractable RUP		

Comments	The retraction of the needle is a reuse prevention feature (RUP) and a sharp injury Protection (SIP)

PRICE AND SHIPPING

Shipping volume (m3)	0.0432	**Shipping weight (kg)**	4.50
Pieces per package	800	**Minimum order**	800.00
Price 1	On request	**Year of base price**	2005
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Retractable Technologies, Inc.
Address	511 Lobo Lane, Little Elm, TX 75068 United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Vanishpoint® Retractable 10ml**
IMD-PQS Code:	E013-007
Status:	Prequalified
Date of acceptance:	15 Jun 2005
Appliance type:	E013
Product description:	RUP Retractable 10ml
Manufacturer:	Retractable Technologies, Inc.
Manufacturers Reference:	Vanishpoint® Retractable 10ml
Country of Manufacture:	China
Address:	511 Lobo Lane, Little Elm, TX 75068 United States of America
Telephone:	+1 972 294 1010
Email:	kduesman@retractable.com
Website address:	www.retractable.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	None
Vaccine capacity (mL)	10.00	**Graduations (ml)**	0.20
Needle Size	Other	**Needle Size (Other)**	21Gx1.5" (38mm)
Needle Fixation	Fixed	**Nominal capacity (ml)**	10.00
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Plunger aspiration	Yes	**Number of pieces**	3.00
RUP mechanism	Retraction of needle into barrel by spring	**RUP Type**	Other
Location RUP activation	End of injection	**RUP Needle Fixation**	Fixed
RUP Needle Sizes	21G x 1 1/2" (38 mm)	**RUP Nominal Capacity (ml)**	10.00
RUP plunger Aspiration	Multiple	**RUP Primary Packaging**	Paper blister pack
RUP Sub-category	Retractable RUP		

PRICE AND SHIPPING

Shipping volume (m3)	0.068	**Shipping weight (kg)**	9.70
Pieces per package	600	**Minimum order**	600.00
Price 1	On request	**Year of base price**	2005
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Retractable Technologies, Inc.
Address	511 Lobo Lane, Little Elm, TX 75068 United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**VanishPoint II® Retractable 5ml**
IMD-PQS Code:	E013-008
Status:	Prequalified
Date of acceptance:	16 Jun 2005
Appliance type:	E013
Product description:	RUP Retractable 5ml
Manufacturer:	Retractable Technologies, Inc.
Manufacturers Reference:	VanishPoint II® Retractable 5ml
Country of Manufacture:	China
Address:	511 Lobo Lane, Little Elm, TX 75068 United States of America
Telephone:	+1 972 294 1010
Email:	kduesman@retractable.com
Website address:	www.retractable.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	None
Vaccine capacity (mL)	5.00	**Graduations (ml)**	0.20
Needle Size	Other	**Needle Size (Other)**	21Gx1.5" (38mm)
Needle Fixation	Fixed	**Nominal capacity (ml)**	5.00
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Plunger aspiration	Yes	**Number of pieces**	3.00
RUP mechanism	Retraction of needle into barrel by spring	**RUP Type**	Other
Location RUP activation	End of injection	**RUP Needle Fixation**	Fixed
RUP Needle Sizes	21G x 1 1/2" (38 mm)	**RUP Nominal Capacity (ml)**	5.00
RUP plunger Aspiration	Multiple	**RUP Primary Packaging**	Paper blister pack
RUP Sub-category	Retractable RUP		

Comments	The retraction of the needle is considered as a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)

PRICE AND SHIPPING

Shipping volume (m3)	0.045	**Shipping weight (kg)**	8.20
Pieces per package	600	**Minimum order**	600.00
Price 1	On request	**Year of base price**	2005
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Retractable Technologies, Inc.
Address	511 Lobo Lane, Little Elm, TX 75068 United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Vanishpoint® Retractable 3ml**
IMD-PQS Code:	E013-009
Status:	Prequalified
Date of acceptance:	16 Jun 2005
Appliance type:	E013
Product description:	RUP retractable 3ml
Manufacturer:	Retractable Technologies, Inc.
Manufacturers Reference:	Vanishpoint® Retractable 3ml
Country of Manufacture:	China
Address:	511 Lobo Lane, Little Elm, TX 75068 United States of America
Telephone:	+1 972 294 1010
Email:	kduesman@retractable.com
Website address:	www.retractable.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	None
Vaccine capacity (mL)	3.00	**Graduations (ml)**	0.10
Needle Size	Other	**Needle Size (Other)**	23Gx1" (25mm)
Needle Fixation	Fixed	**Nominal capacity (ml)**	3.00
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Plunger aspiration	Yes	**Number of pieces**	3.00
RUP mechanism	Needle retraction into barrel by spring	**RUP Type**	Other
Location RUP activation	End of injection	**RUP Needle Fixation**	Fixed
RUP Needle Sizes	23G x 1" (25 mm)	**RUP Nominal Capacity (ml)**	3.00
RUP plunger Aspiration	Multiple	**RUP Primary Packaging**	Paper blister pack
RUP Sub-category	Retractable RUP		

Comments	The retraction of the needle is considered as a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)

PRICE AND SHIPPING

Shipping volume (m3)	0.0432	**Shipping weight (kg)**	5.90
Pieces per package	600	**Minimum order**	600.00
Price 1	On request	**Year of base price**	2005
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Retractable Technologies, Inc.
Address	511 Lobo Lane, Little Elm, TX 75068 United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**VanishPoint II® Retractable 1 ml Insulin**
IMD-PQS Code:	E013-014
Status:	Prequalified
Date of acceptance:	15 Jun 2005
Appliance type:	E013
Product description:	RUP retractable 1ml Insulin
Manufacturer:	Retractable Technologies, Inc.
Manufacturers Reference:	VanishPoint II® Retractable 1 ml Insulin
Country of Manufacture:	United States of America
Address:	511 Lobo Lane, Little Elm, TX 75068 United States of America
Telephone:	+1 972 294 1010
Email:	kduesman@retractable.com
Website address:	www.retractable.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication fixed dose administration	**Restrictive use for**	Insulin administration
Vaccine capacity (mL)	1.00	**Needle Size**	Other
Needle Size (Other)	29G x 12.7 mm	**Needle Fixation**	Fixed
Nominal capacity (ml)	1.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Retraction of needle into barrel by spring
RUP Type	Other	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	29G x 3/8" (10 mm)
RUP Nominal Capacity (ml)	1.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Paper blister pack	**RUP Sub-category**	Retractable RUP

Comments	The retraction of the needle is a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)

PRICE AND SHIPPING

Shipping volume (m3)	0.0432	**Shipping weight (kg)**	4.50
Pieces per package	800	**Minimum order**	800.00
Price 1	On request	**Year of base price**	2005
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Retractable Technologies, Inc.
Address	511 Lobo Lane, Little Elm, TX 75068 United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**VanishPoint II® Retractable 1ml insulin**
IMD-PQS Code:	E013-015
Status:	Prequalified
Date of acceptance:	15 Jun 2005
Appliance type:	E013
Product description:	RUP retractable 1ml Insulin
Manufacturer:	Retractable Technologies, Inc.
Manufacturers Reference:	VanishPoint II® Retractable 1ml insulin
Country of Manufacture:	China
Address:	511 Lobo Lane, Little Elm, TX 75068 United States of America
Telephone:	+1 972 294 1010
Email:	kduesman@retractable.com
Website address:	www.retractable.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	Insulin administration
Graduations (ml)	1.00	**Needle Size**	Other
Needle Size (Other)	29G x 12.7 mm	**Needle Fixation**	Fixed
Nominal capacity (ml)	1.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Retraction of needle into barrel by spring
RUP Type	Other	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	29G x 3/8" (10 mm)
RUP Nominal Capacity (ml)	1.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Paper blister pack	**RUP Sub-category**	Retractable RUP
Comments	The retraction of the needle is a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)		

PRICE AND SHIPPING

Shipping volume (m3)	0.0432	**Shipping weight (kg)**	4.50
Pieces per package	800	**Minimum order**	800.00
Price 1	On request	**Year of base price**	2005
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Retractable Technologies, Inc.
Address	511 Lobo Lane, Little Elm, TX 75068 United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Kojak Selinge 5ml**
IMD-PQS Code:	E013-018
Status:	Prequalified
Date of acceptance:	24 Feb 2008
Appliance type:	E013
Product description:	RUP syringe 5ml
Manufacturer:	Hindustan Syringes & Medical Devices Ltd.
Manufacturers Reference:	Kojak Selinge 5ml
Country of Manufacture:	India
Address:	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India
Telephone:	+91 129-4289000
Email:	hmduk@hmdhealthcare.com
Website address:	www.hmdhealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Vaccine capacity (mL)	5.00	**Graduations (ml)**	0.20
Needle Size	Other	**Needle Size (Other)**	21G x 1 1/2" (0.80 x 38 mm)
Needle Fixation	Fixed	**Nominal capacity (ml)**	5.00
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Plunger aspiration	Yes	**Number of pieces**	3.00
RUP mechanism	locked/broken plunger	**RUP Type**	Plunger lock
Location RUP activation	End of injection	**RUP Needle Fixation**	Fixed
RUP Needle Sizes	21G x 1 1/2" (38 mm)	**RUP Nominal Capacity (ml)**	5.00
RUP plunger Aspiration	Multiple	**RUP Primary Packaging**	Paper or Ribbon pack
RUP Sub-category	Simple RUP	**CE marking**	Yes

Comments	Packs of 100 units

PRICE AND SHIPPING

Shipping volume (m3)	0.08	**Shipping weight (kg)**	12.60
Pieces per package	200	**Minimum order**	2000.00
Price 1	USD 4.05/100 Pcs	**Year of base price**	2025
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

Organization name	Hindustan Syringes & Medical Devices Ltd.
Address	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Oneject K1 3ml**
IMD-PQS Code:	E013-019
Status:	Prequalified
Date of acceptance:	05 Jul 2007
Appliance type:	E013
Product description:	RUP syringe 3ml
Manufacturer:	PT Oneject Indonesia
Manufacturers Reference:	Oneject K1 3ml
Country of Manufacture:	Indonesia
Address:	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia
Telephone:	+62 21 879 17 422
Email:	niken.permatasari@oneject.co.id
Website address:	www.oneject.co.id
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G x 1 1/4"	**Needle Fixation**	Fixed
Nominal capacity (ml)	3.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Locked & broken plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	23G x 1" (25 mm)
RUP Nominal Capacity (ml)	3.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.11	**Shipping weight (kg)**	13.60
Pieces per package	1800	**Minimum order**	18000.00
Price 1	On request to manufacturer	**Year of base price**	2010
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

Organization name	PT Oneject Indonesia
Address	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Kojak Selinge 10 ml**
IMD-PQS Code:	E013-020
Status:	Prequalified
Date of acceptance:	03 Aug 2007
Appliance type:	E013
Product description:	RUP syringe 10ml
Manufacturer:	Hindustan Syringes & Medical Devices Ltd.
Manufacturers Reference:	Kojak Selinge 10 ml
Country of Manufacture:	India
Address:	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India
Telephone:	+91 129-4289000
Email:	hmduk@hmdhealthcare.com
Website address:	www.hmdhealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Vaccine capacity (mL)	10.00	**Graduations (ml)**	0.50
Needle Size	Other	**Needle Size (Other)**	21G x 1 1/2" (0.80 x 38mm)
Needle Fixation	Detached	**Nominal capacity (ml)**	10.00
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Plunger aspiration	Yes	**Number of pieces**	3.00
RUP mechanism	Locked/broken plunger	**RUP Type**	Plunger lock
Location RUP activation	End of injection	**RUP Needle Fixation**	Not Fixed
RUP Needle Sizes	21G x 1 1/2" (38 mm)	**RUP Nominal Capacity (ml)**	10.00
RUP plunger Aspiration	Multiple	**RUP Primary Packaging**	Paper or Ribbon pack
RUP Sub-category	Simple RUP	**CE marking**	Yes

Comments	Packs of 50 units or 100 units

PRICE AND SHIPPING

Shipping volume (m3)	0.09	**Shipping weight (kg)**	13.40
Pieces per package	900	**Minimum order**	9000.00
Price 1	USD 4,80/100 Pcs	**Year of base price**	2025
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

Organization name	Hindustan Syringes & Medical Devices Ltd.
Address	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Oneject K1 1ml**
IMD-PQS Code:	E013-023
Status:	Prequalified
Date of acceptance:	05 Jul 2007
Appliance type:	E013
Product description:	RUP syringe 1ml
Manufacturer:	PT Oneject Indonesia
Manufacturers Reference:	Oneject K1 1ml
Country of Manufacture:	Indonesia
Address:	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia
Telephone:	+62 21 879 17 422
Email:	niken.permatasari@oneject.co.id
Website address:	www.oneject.co.id
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication fixed dose administration;Medication fixed dose reconstitution	**Restrictive use for**	Fixed dose 1ml
Graduations (ml)	1.00	**Needle Size**	Other
Needle Size (Other)	23G x 1"	**Needle Fixation**	Fixed
Nominal capacity (ml)	1.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Locked & broken plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	23G x 1" (25 mm)
RUP Nominal Capacity (ml)	1.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.11	**Shipping weight (kg)**	13.60
Pieces per package	1800	**Minimum order**	18000.00
Price 1	On request to manufacturer	**Year of base price**	2010
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

Organization name	PT Oneject Indonesia
Address	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Oneject K1 5ml**
IMD-PQS Code:	E013-024
Status:	Prequalified
Date of acceptance:	21 May 2007
Appliance type:	E013
Product description:	RUP syringe 5ml
Manufacturer:	PT Oneject Indonesia
Manufacturers Reference:	Oneject K1 5ml
Country of Manufacture:	Indonesia
Address:	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia
Telephone:	+62 21 879 17 422
Email:	niken.permatasari@oneject.co.id
Website address:	www.oneject.co.id
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	21G x 1 1/2"	**Needle Fixation**	Detached
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger locked and broken
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.09	**Shipping weight (kg)**	11.10
Pieces per package	1200	**Minimum order**	12000.00
Price 1	On request to manufacturer	**Year of base price**	2008
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

Organization name	PT Oneject Indonesia
Address	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Yushou 3ml**
IMD-PQS Code:	E013-029
Status:	Prequalified
Date of acceptance:	27 May 2008
Appliance type:	E013
Product description:	RUP syringe 3ml
Manufacturer:	Wuxi Yushou Medical Appliances Co., Ltd
Manufacturers Reference:	Yushou 3ml
Country of Manufacture:	China
Address:	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China
Telephone:	+86 (510)3777555
Email:	mike@chinasyringe.com
Website address:	http://www.chinasyringe.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G x 1 1/4"	**Needle Fixation**	Detached
Nominal capacity (ml)	3.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger lock with clip
RUP Type	Plunger lock	**Location RUP activation**	Start of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	23G x 1 1/4" (30 mm)
RUP Nominal Capacity (ml)	3.00	**RUP plunger Aspiration**	Single
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping weight (kg)	13.00	**Pieces per package**	2400
Minimum order	200000.00	**Price 1**	On request to manufacturer
Year of base price	2021	**Incoterms**	FOB

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Wuxi Yushou Medical Appliances Co., Ltd
Address	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Haiou syringe 2ml**
IMD-PQS Code:	E013-034
Status:	Prequalified
Date of acceptance:	30 Apr 2009
Appliance type:	E013
Product description:	RUP syringe 2ml
Manufacturer:	Guangdong Haiou Medical Apparatus Co., Ltd
Manufacturers Reference:	Haiou syringe 2ml
Country of Manufacture:	China
Address:	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China
Telephone:	+86-663-2758666
Email:	market01@haiou.net.cn
Website address:	http://www.haiou.net.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G x 25mm	**Needle Fixation**	Detached
Nominal capacity (ml)	2.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger break
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	23G x 1" (25 mm)
RUP Nominal Capacity (ml)	2.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.118	**Shipping weight (kg)**	15.50
Pieces per package	2400	**Minimum order**	100000.00
Price 1	On request	**Year of base price**	2008
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Guangdong Haiou Medical Apparatus Co., Ltd
Address	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Haiou syringe 5ml**
IMD-PQS Code:	E013-035
Status:	Prequalified
Date of acceptance:	30 Apr 2009
Appliance type:	E013
Product description:	RUP syringe 5ml
Manufacturer:	Guangdong Haiou Medical Apparatus Co., Ltd
Manufacturers Reference:	Haiou syringe 5ml
Country of Manufacture:	China
Address:	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China
Telephone:	+86-663-2758666
Email:	market01@haiou.net.cn
Website address:	http://www.haiou.net.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	21G x 40mm	**Needle Fixation**	Detached
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger break
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.116	**Shipping weight (kg)**	16.00
Pieces per package	1800	**Minimum order**	100000.00
Price 1	On request	**Year of base price**	2008
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Guangdong Haiou Medical Apparatus Co., Ltd
Address	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Haiou syringe 10ml**
IMD-PQS Code:	E013-036
Status:	Prequalified
Date of acceptance:	30 Apr 2009
Appliance type:	E013
Product description:	RUP syringe 10ml
Manufacturer:	Guangdong Haiou Medical Apparatus Co., Ltd
Manufacturers Reference:	Haiou syringe 10ml
Country of Manufacture:	China
Address:	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China
Telephone:	+86-663-2758666
Email:	market01@haiou.net.cn
Website address:	http://www.haiou.net.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	1.00	**Needle Size**	Other
Needle Size (Other)	21G x 40mm	**Needle Fixation**	Detached
Nominal capacity (ml)	10.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger break
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	10.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.11	**Shipping weight (kg)**	15.50
Pieces per package	1200	**Minimum order**	100000.00
Price 1	On request	**Year of base price**	2008
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Guangdong Haiou Medical Apparatus Co., Ltd
Address	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety



E013: Injection devices for therapeutic purposes

IMD-PQS Code:	**E013-037**
Status:	Suspended
Date of acceptance:	21 May 2009
Appliance type:	E013

Specifications

Current PQS status:	*Suspended*	**Valid until:**	

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety



E013: Injection devices for therapeutic purposes

IMD-PQS Code:	**E013-038**
Status:	Suspended
Date of acceptance:	21 May 2009
Appliance type:	E013

Specifications

Current PQS status:	*Suspended*	**Valid until:**	

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Kojak Selinge 20ml**
IMD-PQS Code:	E013-039
Status:	Prequalified
Date of acceptance:	18 Jun 2009
Appliance type:	E013
Product description:	RUP syringe 20ml
Manufacturer:	Hindustan Syringes & Medical Devices Ltd.
Manufacturers Reference:	Kojak Selinge 20ml
Country of Manufacture:	India
Address:	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India
Telephone:	+91 129-4289000
Email:	hmduk@hmdhealthcare.com
Website address:	www.hmdhealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Vaccine capacity (mL)	20.00	**Graduations (ml)**	1.00
Needle Size	Other	**Needle Size (Other)**	21G x 1 1/2" (0.80 x 38 mm)
Needle Fixation	Detached	**Nominal capacity (ml)**	20.00
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Plunger aspiration	Yes	**Number of pieces**	3.00
RUP mechanism	locked/broken plunger	**RUP Type**	Plunger lock
Location RUP activation	End of injection	**RUP Needle Fixation**	Not Fixed
RUP Needle Sizes	21G x 1 1/2" (38 mm)	**RUP Nominal Capacity (ml)**	20.00
RUP plunger Aspiration	Multiple	**RUP Primary Packaging**	Paper or Ribbon pack
RUP Sub-category	Simple RUP	**CE marking**	Yes

Comments	Packs of 25 units

PRICE AND SHIPPING

Shipping volume (m3)	0.103	**Shipping weight (kg)**	13.00
Pieces per package	400	**Minimum order**	4000.00
Price 1	USD 9.50/100 Pcs	**Year of base price**	2025
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

Organization name	Hindustan Syringes & Medical Devices Ltd.
Address	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Revital 5ml (3 piece)**
IMD-PQS Code:	E013-040
Status:	Prequalified
Date of acceptance:	09 Feb 2009
Appliance type:	E013
Product description:	RUP syringe 5ml
Manufacturer:	Revital Health Care (EPZ) Limited
Manufacturers Reference:	Revital 5ml (3 piece)
Country of Manufacture:	Kenya
Address:	P.O. BOX 80713-80100 MOMBASA LR No. 5025/1239, Takaungu 80100 Mombasa Kenya Kenya
Telephone:	+254722412900
Email:	qa@rhcare-epz.com
Website address:	www.revitalhcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	21Gx1 ½" (38mm)	**Needle Fixation**	Detached
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger (gasket) lock
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Paper blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

Comments	Plunger gasket can be provided in black or whit

PRICE AND SHIPPING

Shipping volume (m3)	0.141	**Shipping weight (kg)**	21.50
Pieces per package	2500	**Minimum order**	500000.00
Price 1	0.05 US$	**Year of base price**	2008
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Revital Health Care (EPZ) Limited
Address	P.O. BOX 80713-80100 MOMBASA LR No. 5025/1239, Takaungu 80100 Mombasa Kenya Kenya

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Yushou Syringe 1ml**
IMD-PQS Code:	E013-041
Status:	Prequalified
Date of acceptance:	15 Sep 2009
Appliance type:	E013
Product description:	RUP syringe 1ml
Manufacturer:	Wuxi Yushou Medical Appliances Co., Ltd
Manufacturers Reference:	Yushou Syringe 1ml
Country of Manufacture:	China
Address:	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China
Telephone:	+86 (510)3777555
Email:	mike@chinasyringe.com
Website address:	http://www.chinasyringe.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Vaccine capacity (mL)	1.00	**Graduations (ml)**	0.05
Needle Size	Other	**Needle Size (Other)**	25G x 20mm
Needle Fixation	Fixed	**Nominal capacity (ml)**	1.00
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Plunger aspiration	Yes	**Number of pieces**	3.00
RUP mechanism	Plunger lock with metallic clip	**RUP Type**	Plunger lock
Location RUP activation	Start of injection	**RUP Needle Fixation**	Fixed
RUP Needle Sizes	25G x 3/4" (20 mm)	**RUP Nominal Capacity (ml)**	1.00
RUP plunger Aspiration	Single	**RUP Primary Packaging**	Paper blister pack
RUP Sub-category	Simple RUP	**CE marking**	Yes

Comments	Plunger aspiration: Single

PRICE AND SHIPPING

Shipping volume (m3)	0.094	**Shipping weight (kg)**	11.00
Pieces per package	2400	**Minimum order**	200000.00
Price 1	On request	**Year of base price**	2008
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Wuxi Yushou Medical Appliances Co., Ltd
Address	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Revital 2ml (3 piece)**
IMD-PQS Code:	E013-042
Status:	Prequalified
Date of acceptance:	01 Aug 2009
Appliance type:	E013
Product description:	2ml 3 piece RUP syringe
Manufacturer:	Revital Health Care (EPZ) Limited
Manufacturers Reference:	Revital 2ml (3 piece)
Country of Manufacture:	Kenya
Address:	P.O. BOX 80713-80100 MOMBASA LR No. 5025/1239, Takaungu 80100 Mombasa Kenya Kenya
Telephone:	+254722412900
Email:	qa@rhcare-epz.com
Website address:	www.revitalhcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G x 1"	**Needle Fixation**	Detached
Nominal capacity (ml)	2.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger block and break
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	23G x 1" (25 mm)
RUP Nominal Capacity (ml)	2.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Paper blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.13	**Shipping weight (kg)**	19.50
Pieces per package	3500	**Minimum order**	700000.00
Price 1	Per unit: 0.027 US$	**Year of base price**	2008
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Revital Health Care (EPZ) Limited
Address	P.O. BOX 80713-80100 MOMBASA LR No. 5025/1239, Takaungu 80100 Mombasa Kenya Kenya

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Revital 5ml (2 piece)**
IMD-PQS Code:	E013-043
Status:	Prequalified
Date of acceptance:	01 Aug 2009
Appliance type:	E013
Product description:	RUP syringe 5ml
Manufacturer:	Revital Health Care (EPZ) Limited
Manufacturers Reference:	Revital 5ml (2 piece)
Country of Manufacture:	Kenya
Address:	P.O. BOX 80713-80100 MOMBASA LR No. 5025/1239, Takaungu 80100 Mombasa Kenya Kenya
Telephone:	+254722412900
Email:	qa@rhcare-epz.com
Website address:	www.revitalhcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	21Gx1 ½" (38mm)	**Needle Fixation**	Detached
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	2.00	**RUP mechanism**	Plunger lock and break
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Paper blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.128	**Shipping weight (kg)**	17.60
Pieces per package	2500	**Minimum order**	500000.00
Price 1	Per unit: 0.0295 US$	**Year of base price**	2008
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Revital Health Care (EPZ) Limited
Address	P.O. BOX 80713-80100 MOMBASA LR No. 5025/1239, Takaungu 80100 Mombasa Kenya Kenya

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Safegard Retractable safety syringe 1ml Tuberculin**
IMD-PQS Code:	E013-044
Status:	Prequalified
Date of acceptance:	22 Feb 2010
Appliance type:	E013
Product description:	RUP retractable 1ml Tuberculin
Manufacturer:	Safegard Medical (Hungary) Kft
Manufacturers Reference:	Safegard Retractable safety syringe 1ml Tuberculin
Country of Manufacture:	Hungary
Address:	Jószerencsét tér 15 3608 Farkaslyuk Hungary
Telephone:	+36 48 470758
Email:	zoltan.farkas@safegardmedical.hu
Website address:	www.safegardmedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	Tuberculin administration
Graduations (ml)	0.01	**Needle Size**	Other
Needle Size (Other)	27G x 1/2"	**Needle Fixation**	Fixed
Nominal capacity (ml)	1.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Needle retraction
RUP Type	Other	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	27G x 3/8" (10 mm)
RUP Nominal Capacity (ml)	1.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Retractable RUP
CE marking	Yes		

Comments	The retraction of the needle is considered as a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)

PRICE AND SHIPPING

Shipping volume (m3)	0.056	**Shipping weight (kg)**	5.40
Pieces per package	100	**Minimum order**	1000.00
Price 1	0.08 US$/pc	**Year of base price**	2016
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Safegard Medical (Hungary) Kft
Address	Jószerencsét tér 15 3608 Farkaslyuk Hungary

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Safegard Retractable Safety syringe 3ml**
IMD-PQS Code:	E013-045
Status:	Prequalified
Date of acceptance:	22 Feb 2010
Appliance type:	E013
Product description:	RUP retractable 3ml
Manufacturer:	Safegard Medical (Hungary) Kft
Manufacturers Reference:	Safegard Retractable Safety syringe 3ml
Country of Manufacture:	Hungary
Address:	Jószerencsét tér 15 3608 Farkaslyuk Hungary
Telephone:	+36 48 470758
Email:	zoltan.farkas@safegardmedical.hu
Website address:	www.safegardmedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G x 1/2"	**Needle Fixation**	Fixed
Nominal capacity (ml)	3.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Needle retraction
RUP Type	Other	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	23G x 3/8" (10 mm)
RUP Nominal Capacity (ml)	3.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Retractable RUP
CE marking	Yes		

Comments	The retraction of the needle is considered as a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)

PRICE AND SHIPPING

Shipping volume (m3)	0.07	**Shipping weight (kg)**	7.30
Pieces per package	100	**Minimum order**	1000.00
Price 1	0.085 US$/pc	**Year of base price**	2016
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Safegard Medical (Hungary) Kft
Address	Jószerencsét tér 15 3608 Farkaslyuk Hungary

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Safegard Retractable Safety Syringe 5ml**
IMD-PQS Code:	E013-046
Status:	Prequalified
Date of acceptance:	22 Feb 2010
Appliance type:	E013
Product description:	RUP retractable 5ml
Manufacturer:	Safegard Medical (Hungary) Kft
Manufacturers Reference:	Safegard Retractable Safety Syringe 5ml
Country of Manufacture:	Hungary
Address:	Jószerencsét tér 15 3608 Farkaslyuk Hungary
Telephone:	+36 48 470758
Email:	zoltan.farkas@safegardmedical.hu
Website address:	www.safegardmedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	21G x 1 1/4"	**Needle Fixation**	Fixed
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Needle retraction into barrel
RUP Type	Other	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	21G x 1 1/4" (30 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Retractable RUP
CE marking	Yes		

Comments	The retraction of the needle is considered as a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)

PRICE AND SHIPPING

Shipping volume (m3)	0.12	**Shipping weight (kg)**	9.68
Pieces per package	100	**Minimum order**	1000.00
Price 1	0.09 US$/pc	**Year of base price**	2016
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Safegard Medical (Hungary) Kft
Address	Jószerencsét tér 15 3608 Farkaslyuk Hungary

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Revital 2ml (2 piece)**
IMD-PQS Code:	E013-051
Status:	Prequalified
Date of acceptance:	26 Apr 2010
Appliance type:	E013
Product description:	RUP syringe 2ml
Manufacturer:	Revital Health Care (EPZ) Limited
Manufacturers Reference:	Revital 2ml (2 piece)
Country of Manufacture:	Kenya
Address:	P.O. BOX 80713-80100 MOMBASA LR No. 5025/1239, Takaungu 80100 Mombasa Kenya Kenya
Telephone:	+254722412900
Email:	qa@rhcare-epz.com
Website address:	www.revitalhcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G x 1"	**Needle Fixation**	Detached
Nominal capacity (ml)	2.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	2.00	**RUP mechanism**	Plunger lock and break
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	23G x 1" (25 mm)
RUP Nominal Capacity (ml)	2.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Paper blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.13	**Shipping weight (kg)**	17.50
Pieces per package	3500	**Minimum order**	700000.00
Price 1	Up to 5 millions: 0.028 US$	**Price 2**	Up to 10 millions: 0.0275 US$
Year of base price	2008	**Incoterms**	FCA

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Revital Health Care (EPZ) Limited
Address	P.O. BOX 80713-80100 MOMBASA LR No. 5025/1239, Takaungu 80100 Mombasa Kenya Kenya

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Hongda syringe 2ml SD02L**
IMD-PQS Code:	E013-053
Status:	Prequalified
Date of acceptance:	06 Sep 2010
Appliance type:	E013
Product description:	RUP syringe 2ml
Manufacturer:	Jiangxi Hongda Medical Equipment Group Ltd
Manufacturers Reference:	Hongda syringe 2ml SD02L
Country of Manufacture:	China
Address:	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China
Telephone:	+86 791 85628828
Email:	hongda008@jxhd.cn
Website address:	http://www.jxhd.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	21G x 38mm	**Needle Fixation**	Detached
Nominal capacity (ml)	2.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	gasket lock/ plunger break
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	2.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

Comments	Option 2000 or 2400 per cartons Needle at side available Fixed needle option available Graduations:with scale interval of 0.1ml and 0.5ml increment between graduation lines to be numbered.

PRICE AND SHIPPING

Shipping volume (m3)	0.106	**Shipping weight (kg)**	17.00
Pieces per package	2500	**Minimum order**	525000.00
Price 1	On request	**Year of base price**	2016
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Jiangxi Hongda Medical Equipment Group Ltd
Address	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Hongda syringe 5ml SD05L**
IMD-PQS Code:	E013-054
Status:	Prequalified
Date of acceptance:	06 Sep 2010
Appliance type:	E013
Product description:	RUP syringe 5ml
Manufacturer:	Jiangxi Hongda Medical Equipment Group Ltd
Manufacturers Reference:	Hongda syringe 5ml SD05L
Country of Manufacture:	China
Address:	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China
Telephone:	+86 791 85628828
Email:	hongda008@jxhd.cn
Website address:	http://www.jxhd.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	21G x 38mm	**Needle Fixation**	Detached
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	gasket lock/ plunger break
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

Comments	Option of 2000 pieces per carton Fixed needles are also an option Needle at side available Pieces per carton: 2000 or 1800 Graduations: with scale interval of 0.2ml and 1ml increment between graduation lines to be numbered.

PRICE AND SHIPPING

Shipping volume (m3)	0.124	**Shipping weight (kg)**	19.00
Pieces per package	1500	**Minimum order**	525000.00
Price 1	On request	**Year of base price**	2009
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

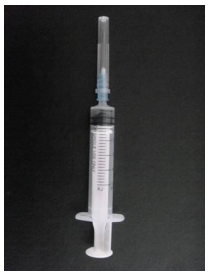
Organization name	Jiangxi Hongda Medical Equipment Group Ltd
Address	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Nisa RUP syringe 5ml**
IMD-PQS Code:	E013-055
Status:	Prequalified
Date of acceptance:	30 Aug 2010
Appliance type:	E013
Product description:	RUP syringe 5ml
Manufacturer:	Chengdu Xinjin Shifeng Medical Apparatus Co, Ltd
Manufacturers Reference:	Nisa RUP syringe 5ml
Country of Manufacture:	China
Address:	NO. 51, 4th Group Wanjie Village, Baodun Town, Xinjin District 611438 Chengdu China
Telephone:	+86 2885157183
Email:	sfyx_1998@163.com
Website address:	www.xjshifeng,com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	23G x 1"	**Needle Fixation**	Detached
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Locked broken plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	23G x 1" (25 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.122	**Shipping weight (kg)**	17.00
Pieces per package	1600	**Minimum order**	1600.00
Price 1	0.055 USD	**Year of base price**	2009
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

Organization name	Chengdu Xinjin Shifeng Medical Apparatus Co, Ltd
Address	NO. 51, 4th Group Wanjie Village, Baodun Town, Xinjin District 611438 Chengdu China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Kojak Selinge 1 ml**
IMD-PQS Code:	E013-056
Status:	Prequalified
Date of acceptance:	16 Sep 2010
Appliance type:	E013
Product description:	RUP 1ml fixed dose
Manufacturer:	Hindustan Syringes & Medical Devices Ltd.
Manufacturers Reference:	Kojak Selinge 1 ml
Country of Manufacture:	India
Address:	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India
Telephone:	+91 129-4289000
Email:	hmduk@hmdhealthcare.com
Website address:	www.hmdhealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication fixed dose administration;Medication fixed dose reconstitution	**Restrictive use for**	Fixed dose 1ml
Vaccine capacity (mL)	1.00	**Graduations (ml)**	1.00
Needle Size	Other	**Needle Size (Other)**	24G x 25mm
Needle Fixation	Fixed	**Nominal capacity (ml)**	1.00
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Plunger aspiration	Yes	**Number of pieces**	3.00
RUP mechanism	Locked/broken plunger	**RUP Type**	Plunger lock
Location RUP activation	End of injection	**RUP Needle Fixation**	Fixed
RUP Needle Sizes	24G x 1" (25 mm)	**RUP Nominal Capacity (ml)**	1.00
RUP plunger Aspiration	Multiple	**RUP Primary Packaging**	Paper or Ribbon pack
RUP Sub-category	Simple RUP	**CE marking**	Yes

Comments	Packs of 100 units

PRICE AND SHIPPING

Shipping volume (m3)	0.09	**Shipping weight (kg)**	13.70
Pieces per package	2000	**Minimum order**	20000.00
Price 1	USD 3.75/100 Pcs	**Year of base price**	2025
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

PRODUCT SITES

Organization name	Hindustan Syringes & Medical Devices Ltd.
Address	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**YIXIN 1 ml**
IMD-PQS Code:	E013-057
Status:	Prequalified
Date of acceptance:	09 Feb 2010
Appliance type:	E013
Product description:	RUP 1ml Sanxin
Manufacturer:	Jiangxi Sanxin Medtec Co.,Ltd
Manufacturers Reference:	YIXIN 1 ml
Country of Manufacture:	China
Address:	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China
Telephone:	+86 791 85988111
Email:	fgb@sanxin-med.com
Website address:	www.sanxin-med.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication fixed dose administration;Medication fixed dose reconstitution	**Restrictive use for**	Fixed dose 1ml
Graduations (ml)	1.00	**Needle Size**	Other
Needle Size (Other)	25G x 19 mm	**Needle Fixation**	Fixed
Nominal capacity (ml)	1.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger locked
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	25G x 2/3" (17 mm)
RUP Nominal Capacity (ml)	1.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.12	**Shipping weight (kg)**	15.00
Pieces per package	3000	**Minimum order**	200000.00
Price 1	0.0395 USD	**Year of base price**	2012
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Jiangxi Sanxin Medtec Co.,Ltd
Address	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Yushou® RUP 5ml**
IMD-PQS Code:	E013-058
Status:	Prequalified
Date of acceptance:	03 Jul 2011
Appliance type:	E013
Product description:	RUP syringe 5ml
Manufacturer:	Wuxi Yushou Medical Appliances Co., Ltd
Manufacturers Reference:	Yushou® RUP 5ml
Address:	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China
Telephone:	+86 (510)3777555
Email:	mike@chinasyringe.com
Website address:	http://www.chinasyringe.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	21G x 1 1/2'	**Needle Fixation**	Fixed
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Locked / broken plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.103	**Shipping weight (kg)**	13.00
Pieces per package	1800	**Minimum order**	200000.00
Price 1	Upon request to manufacturer	**Year of base price**	2021
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: Applicable PQS VP(s):

PRODUCT SITES

Organization name	Wuxi Yushou Medical Appliances Co., Ltd
Address	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Revital® RUP 10ml 2 piece syringe**
IMD-PQS Code:	E013-062
Status:	Prequalified
Date of acceptance:	05 Sep 2011
Appliance type:	E013
Product description:	RUP 10ml (2 piece)
Manufacturer:	Revital Health Care (EPZ) Limited
Manufacturers Reference:	Revital® RUP 10ml 2 piece syringe
Address:	P.O. BOX 80713-80100 MOMBASA LR No. 5025/1239, Takaungu 80100 Mombasa Kenya Kenya
Telephone:	+254722412900
Email:	qa@rhcare-epz.com
Website address:	www.revitalhcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.50	**Needle Size**	Other
Needle Size (Other)	21G x 1.5"	**Needle Fixation**	Detached
Syringe material(s)	Other	**Syringe Material(s) (Other)**	PPE, Polyethylene
Nominal capacity (ml)	10.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	2.00	**RUP mechanism**	locked, broken plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	10.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Plastic ribbon	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.1874	**Shipping weight (kg)**	19.80
Pieces per package	2500	**Minimum order**	500000.00
Price 1	Over 1 million: 6.80 USD per pack	**Price 2**	Over 5 millions: 6.60 USD per pack
Price 3	Over 10 millions: 6.50 USD per pack	**Year of base price**	2011
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Revital Health Care (EPZ) Limited
Address	P.O. BOX 80713-80100 MOMBASA LR No. 5025/1239, Takaungu 80100 Mombasa Kenya Kenya

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Sanzhong® 1ml**
IMD-PQS Code:	E013-064
Status:	Prequalified
Date of acceptance:	14 Sep 2011
Appliance type:	E013
Product description:	RUP syringe 1ml
Manufacturer:	Anhui Tiankang Medical Technology Co., Ltd
Manufacturers Reference:	Sanzhong® 1ml
Country of Manufacture:	China
Address:	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China
Telephone:	+86 550 7308592
Email:	marshall988@163.net
Website address:	http://www.tkmedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.05	**Needle Size**	Other
Needle Size (Other)	27G x 1/2"	**Needle Fixation**	Detached
Nominal capacity (ml)	1.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger locked at end of injection
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	27G x 3/8" (10 mm)
RUP Nominal Capacity (ml)	1.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.072	**Shipping weight (kg)**	10.00
Pieces per package	2000	**Minimum order**	200000.00
Price 1	Over 200 000 units: 0.0407 USD per unit	**Price 2**	Over 1 000 000 units: 0.0399 USD per unit
Price 3	Over 5 000 000 units: 0.0387 USD per unit	**Year of base price**	2011
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Anhui Tiankang Medical Technology Co., Ltd
Address	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Sanzhong® 2ml**
IMD-PQS Code:	E013-065
Status:	Prequalified
Date of acceptance:	14 Sep 2011
Appliance type:	E013
Product description:	RUP syringe 2ml
Manufacturer:	Anhui Tiankang Medical Technology Co., Ltd
Manufacturers Reference:	Sanzhong® 2ml
Country of Manufacture:	China
Address:	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China
Telephone:	+86 550 7308592
Email:	marshall988@163.net
Website address:	http://www.tkmedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G x 1"	**Needle Fixation**	Detached
Nominal capacity (ml)	2.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Locked plunger at the end of injection
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	23G x 1" (25 mm)
RUP Nominal Capacity (ml)	2.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.0927	**Shipping weight (kg)**	11.00
Pieces per package	1800	**Minimum order**	200000.00
Price 1	Over 200000 units: 0.0407 USD per unit	**Price 2**	Over 1000000 units: 0.0399 USD per unit
Price 3	Over 5000000 units: 0.0387 USD per unit	**Year of base price**	2011
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Anhui Tiankang Medical Technology Co., Ltd
Address	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Sanzhong® 5ml**
IMD-PQS Code:	E013-066
Status:	Prequalified
Date of acceptance:	14 Sep 2011
Appliance type:	E013
Product description:	RUP syringe 5ml
Manufacturer:	Anhui Tiankang Medical Technology Co., Ltd
Manufacturers Reference:	Sanzhong® 5ml
Country of Manufacture:	China
Address:	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China
Telephone:	+86 550 7308592
Email:	marshall988@163.net
Website address:	http://www.tkmedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	22G x 1 1/4"	**Needle Fixation**	Detached
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Locked plunger at end of injection
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	22G x 1 1/4" (30 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.075	**Shipping weight (kg)**	11.00
Pieces per package	1200	**Minimum order**	200000.00
Price 1	Over 200000 units: 0.0421 USD per unit	**Price 2**	Over 1000000 units: 0.0412 USD per unit
Price 3	Over 5000000 units: 0.0400 USD per unit	**Year of base price**	2011
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Anhui Tiankang Medical Technology Co., Ltd
Address	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Sanzhong® 10ml**
IMD-PQS Code:	E013-067
Status:	Prequalified
Date of acceptance:	14 Sep 2011
Appliance type:	E013
Product description:	RUP syringe 10ml
Manufacturer:	Anhui Tiankang Medical Technology Co., Ltd
Manufacturers Reference:	Sanzhong® 10ml
Country of Manufacture:	China
Address:	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China
Telephone:	+86 550 7308592
Email:	marshall988@163.net
Website address:	http://www.tkmedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.50	**Needle Size**	Other
Needle Size (Other)	21G x 1 1/2"	**Needle Fixation**	Detached
Nominal capacity (ml)	10.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Locked plunger at the end of injection
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	10.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.075	**Shipping weight (kg)**	14.00
Pieces per package	1200	**Minimum order**	200000.00
Price 1	Over 200,000 units: 0.0556 USD per unit	**Price 2**	Over 1,000,000 units: 0.0545 USD per unit
Price 3	Over 5,000,000 units: 0.0529 USD per unit	**Year of base price**	2011
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Anhui Tiankang Medical Technology Co., Ltd
Address	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**SKIFA RUP syringe 3ml**
IMD-PQS Code:	E013-069
Status:	Prequalified
Date of acceptance:	12 Jan 2011
Appliance type:	E013
Product description:	RUP syringe 3ml
Manufacturer:	Mitra Rajawali Banjaran, PT
Manufacturers Reference:	SKIFA RUP syringe 3ml
Country of Manufacture:	Indonesia
Address:	JL. Raya Banjaran KM16 Bandung, Jawa Barat Indonesia Indonesia
Telephone:	+62 22 594 0151
Email:	nurasfiyahqo@gmail.com
Website address:	http://www.mrb.co.id
Valid until:	31 May 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G x 32mm	**Needle Fixation**	Detached
Nominal capacity (ml)	3.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger locked at end of injection
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	23G x 1 1/4" (30 mm)
RUP Nominal Capacity (ml)	3.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	No		

PRICE AND SHIPPING

Shipping volume (m3)	0.17	**Shipping weight (kg)**	15.00
Pieces per package	2000	**Minimum order**	20000.00
Price 1	upon request to manufacturer	**Year of base price**	2011
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

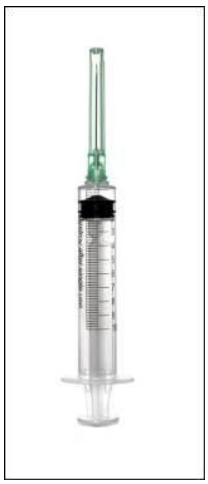
Organization name	Mitra Rajawali Banjaran, PT
Address	JL. Raya Banjaran KM16 Bandung, Jawa Barat Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**RUP 10ml**
IMD-PQS Code:	E013-073
Status:	Prequalified
Date of acceptance:	18 Jul 2012
Appliance type:	E013
Product description:	RUP syringe 10ml
Manufacturer:	Wuxi Yushou Medical Appliances Co., Ltd
Manufacturers Reference:	RUP 10ml
Address:	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China
Telephone:	+86 (510)3777555
Email:	mike@chinasyringe.com
Website address:	http://www.chinasyringe.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	21G x 1 1/2"	**Needle Fixation**	Fixed
Nominal capacity (ml)	10.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger lock and break
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	10.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.12	**Shipping weight (kg)**	13.00
Pieces per package	1200	**Minimum order**	200000.00
Price 1	Upon request to manufacturer	**Year of base price**	2012
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Wuxi Yushou Medical Appliances Co., Ltd
Address	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**RUP retractable syringe 1ml**
IMD-PQS Code:	E013-074
Status:	Prequalified
Date of acceptance:	25 Jun 2012
Appliance type:	E013
Product description:	RUP retractable syringe 1ml
Manufacturer:	Anhui Tiankang Medical Technology Co., Ltd
Manufacturers Reference:	RUP retractable syringe 1ml
Address:	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China
Telephone:	+86 550 7308592
Email:	marshall988@163.net
Website address:	http://www.tkmedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.05	**Needle Size**	Other
Needle Size (Other)	27G x 1/2"	**Needle Fixation**	Detached
Nominal capacity (ml)	1.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger hooked to inner hub, retraction hub and needle, plunger break
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	27G x 3/8" (10 mm)
RUP Nominal Capacity (ml)	1.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Retractable RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.072	**Shipping weight (kg)**	10.00
Pieces per package	2000	**Minimum order**	200000.00
Price 1	Upon request to manufacturer	**Year of base price**	2012
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Anhui Tiankang Medical Technology Co., Ltd
Address	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**RUP retractable syringe 2ml**
IMD-PQS Code:	E013-075
Status:	Prequalified
Date of acceptance:	25 Jun 2012
Appliance type:	E013
Product description:	RUP retractable syringe 2ml
Manufacturer:	Anhui Tiankang Medical Technology Co., Ltd
Manufacturers Reference:	RUP retractable syringe 2ml
Address:	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China
Telephone:	+86 550 7308592
Email:	marshall988@163.net
Website address:	http://www.tkmedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G x 1"	**Needle Fixation**	Detached
Nominal capacity (ml)	2.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger hooked to inner syringe hub, retraction inner hub and needle, plunger break
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	21G x 1 1/4" (30 mm)
RUP Nominal Capacity (ml)	2.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Retractable RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.0927	**Shipping weight (kg)**	11.00
Pieces per package	1800	**Minimum order**	200000.00
Price 1	Upon request to manufacturer	**Year of base price**	2012
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Anhui Tiankang Medical Technology Co., Ltd
Address	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**RUP retractable syringe 5ml**
IMD-PQS Code:	E013-076
Status:	Prequalified
Date of acceptance:	25 Jun 2012
Appliance type:	E013
Product description:	RUP retractable syringe 5ml
Manufacturer:	Anhui Tiankang Medical Technology Co., Ltd
Manufacturers Reference:	RUP retractable syringe 5ml
Address:	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China
Telephone:	+86 550 7308592
Email:	marshall988@163.net
Website address:	http://www.tkmedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	22G x 1 1/4"	**Needle Fixation**	Detached
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger hooked in inner hub, hub and needle retraction, plunger break
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	22G x 1 1/4" (30 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Retractable RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.075	**Shipping weight (kg)**	11.00
Pieces per package	1200	**Minimum order**	200000.00
Price 1	Upon request to manufacturer	**Year of base price**	2012
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Anhui Tiankang Medical Technology Co., Ltd
Address	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**RUP retractable syringe 10ml**
IMD-PQS Code:	E013-077
Status:	Prequalified
Date of acceptance:	25 Jun 2012
Appliance type:	E013
Product description:	RUP retractable syringe 10ml
Manufacturer:	Anhui Tiankang Medical Technology Co., Ltd
Manufacturers Reference:	RUP retractable syringe 10ml
Address:	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China
Telephone:	+86 550 7308592
Email:	marshall988@163.net
Website address:	http://www.tkmedical.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	21G x 1 1/2"	**Needle Fixation**	Detached
Nominal capacity (ml)	10.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger hooked to inner hub, hub and needle retraction, plunger break
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	10.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Retractable RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.075	**Shipping weight (kg)**	14.00
Pieces per package	1200	**Minimum order**	200000.00
Price 1	Upon request to manufacturer	**Year of base price**	2012
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Anhui Tiankang Medical Technology Co., Ltd
Address	No. 228, Weiyi Road Economic Development Zone 239300 Tianchang China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Yeso-med 3ml**
IMD-PQS Code:	E013-083
Status:	Prequalified
Date of acceptance:	10 Aug 2012
Appliance type:	E013
Product description:	RUP syringe 3ml
Manufacturer:	Wuxi Yushou Medical Appliances Co., Ltd
Manufacturers Reference:	Yeso-med 3ml
Address:	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China
Telephone:	+86 (510)3777555
Email:	mike@chinasyringe.com
Website address:	http://www.chinasyringe.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G x 1"	**Needle Fixation**	Fixed
Nominal capacity (ml)	3.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	plunger lock and break
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	23G x 1" (25 mm)
RUP Nominal Capacity (ml)	3.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.11	**Shipping weight (kg)**	12.00
Pieces per package	2400	**Minimum order**	200000.00
Price 1	Upon request to manufacturer	**Year of base price**	2012
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Wuxi Yushou Medical Appliances Co., Ltd
Address	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Apple K1 RUP 2ml**
IMD-PQS Code:	E013-084
Status:	Prequalified
Date of acceptance:	11 Feb 2012
Appliance type:	E013
Product description:	RUP syringe 2ml
Manufacturer:	AMSON VACCINES & PHARMA (PVT) LTD.
Manufacturers Reference:	Apple K1 RUP 2ml
Address:	115, Industrial Triangle, Kahuta road, Islamabad Pakistan Pakistan
Telephone:	+92 51 4492022
Email:	naveed@amson.org.pk
Website address:	www.amson.org.pk
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G x 1"	**Needle Fixation**	Detached
Nominal capacity (ml)	2.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger lock & break at completion of injection
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	23G x 1" (25 mm)
RUP Nominal Capacity (ml)	2.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.07	**Shipping weight (kg)**	8.62
Pieces per package	1200	**Minimum order**	100000.00
Price 1	On request to manufacturer	**Year of base price**	2012
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

Organization name	AMSON VACCINES & PHARMA (PVT) LTD.
Address	115, Industrial Triangle, Kahuta road, Islamabad Pakistan Pakistan

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Apple K1 RUP 5ml**
IMD-PQS Code:	E013-085
Status:	Prequalified
Date of acceptance:	11 Feb 2012
Appliance type:	E013
Product description:	RUP syringe 5ml
Manufacturer:	AMSON VACCINES & PHARMA (PVT) LTD.
Manufacturers Reference:	Apple K1 RUP 5ml
Address:	115, Industrial Triangle, Kahuta road, Islamabad Pakistan Pakistan
Telephone:	+92 51 4492022
Email:	naveed@amson.org.pk
Website address:	www.amson.org.pk
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	23G x 1"	**Needle Fixation**	Detached
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger lock at completion of injection
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	23G x 1" (25 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.09	**Shipping weight (kg)**	10.47
Pieces per package	1200	**Minimum order**	100000.00
Price 1	On request to manufacturer	**Year of base price**	2012
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

Organization name	AMSON VACCINES & PHARMA (PVT) LTD.
Address	115, Industrial Triangle, Kahuta road, Islamabad Pakistan Pakistan

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Yeso-med 2ml**
IMD-PQS Code:	E013-086
Status:	Prequalified
Date of acceptance:	17 Dec 2012
Appliance type:	E013
Product description:	RUP syringe 2ml
Manufacturer:	Wuxi Yushou Medical Appliances Co., Ltd
Manufacturers Reference:	Yeso-med 2ml
Address:	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China
Telephone:	+86 (510)3777555
Email:	mike@chinasyringe.com
Website address:	http://www.chinasyringe.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G X 25mm	**Needle Fixation**	Fixed
Nominal capacity (ml)	2.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Piston lock upon completion
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	23G x 1" (25 mm)
RUP Nominal Capacity (ml)	2.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.11	**Shipping weight (kg)**	12.00
Pieces per package	2400	**Minimum order**	200000.00
Price 1	upon request to manufacturer	**Year of base price**	2012
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Wuxi Yushou Medical Appliances Co., Ltd
Address	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety



E013: Injection devices for therapeutic purposes

IMD-PQS Code:	**E013-087**
Status:	Suspended
Date of acceptance:	25 Apr 2013
Appliance type:	E013

Specifications

Current PQS status:	*Suspended*	**Valid until:**	

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety



E013: Injection devices for therapeutic purposes

IMD-PQS Code:	**E013-088**
Status:	Suspended
Date of acceptance:	25 Apr 2013
Appliance type:	E013

Specifications

Current PQS status:	*Suspended*	**Valid until:**	

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Haiou RUP retractable safety syringe 3ml**
IMD-PQS Code:	E013-089
Status:	Prequalified
Date of acceptance:	06 May 2013
Appliance type:	E013
Product description:	RUP retractable syringe 3ml
Manufacturer:	Guangdong Haiou Medical Apparatus Co., Ltd
Manufacturers Reference:	Haiou RUP retractable safety syringe 3ml
Address:	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China
Telephone:	+86-663-2758666
Email:	market01@haiou.net.cn
Website address:	http://www.haiou.net.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G x 25mm	**Needle Fixation**	Fixed
Nominal capacity (ml)	3.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger lock and needle retraction
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	23G x 1" (25 mm)
RUP Nominal Capacity (ml)	3.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Retractable RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.118	**Shipping weight (kg)**	17.00
Pieces per package	2400	**Minimum order**	100000.00
Price 1	Upon request to manufacturer	**Year of base price**	2013
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Guangdong Haiou Medical Apparatus Co., Ltd
Address	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Haiou RUP retractable safety syringe 5ml**
IMD-PQS Code:	E013-090
Status:	Prequalified
Date of acceptance:	06 May 2013
Appliance type:	E013
Product description:	RUP retractable 5ml
Manufacturer:	Guangdong Haiou Medical Apparatus Co., Ltd
Manufacturers Reference:	Haiou RUP retractable safety syringe 5ml
Address:	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China
Telephone:	+86-663-2758666
Email:	market01@haiou.net.cn
Website address:	http://www.haiou.net.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	21G x 38mm	**Needle Fixation**	Fixed
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	plunger lock and needle retraction
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Retractable RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.122	**Shipping weight (kg)**	18.00
Pieces per package	1800	**Minimum order**	100000.00
Price 1	Upon request to manufacturer	**Year of base price**	2013
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Guangdong Haiou Medical Apparatus Co., Ltd
Address	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Haiou RUP retractable syringe 10ml**
IMD-PQS Code:	E013-091
Status:	Prequalified
Date of acceptance:	06 May 2013
Appliance type:	E013
Product description:	RUP retractable 10ml
Manufacturer:	Guangdong Haiou Medical Apparatus Co., Ltd
Manufacturers Reference:	Haiou RUP retractable syringe 10ml
Address:	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China
Telephone:	+86-663-2758666
Email:	market01@haiou.net.cn
Website address:	http://www.haiou.net.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.50	**Needle Size**	Other
Needle Size (Other)	21G x 38mm	**Needle Fixation**	Fixed
Nominal capacity (ml)	10.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger lock and needle retraction
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	10.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Retractable RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.11	**Shipping weight (kg)**	17.00
Pieces per package	1200	**Minimum order**	100000.00
Price 1	Upon request to manufacturer	**Year of base price**	2013
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Guangdong Haiou Medical Apparatus Co., Ltd
Address	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**OnejectII RUP insulin 1ml**
IMD-PQS Code:	E013-092
Status:	Prequalified
Date of acceptance:	06 May 2013
Appliance type:	E013
Product description:	RUP Insulin 1ml
Manufacturer:	PT Oneject Indonesia
Manufacturers Reference:	OnejectII RUP insulin 1ml
Address:	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia
Telephone:	+62 21 879 17 422
Email:	niken.permatasari@oneject.co.id
Website address:	www.oneject.co.id
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	Insulin administration
Graduations (ml)	0.02	**Needle Size**	Other
Needle Size (Other)	27G x 3/8"	**Needle Fixation**	Fixed
Nominal capacity (ml)	1.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Locked / broken plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	27G x 3/8" (10 mm)
RUP Nominal Capacity (ml)	1.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.051	**Shipping weight (kg)**	8.23
Pieces per package	1600	**Minimum order**	16000.00
Price 1	Upon request to manufacturer	**Year of base price**	2013
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	PT Oneject Indonesia
Address	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**OnejectII RUP 3ml**
IMD-PQS Code:	E013-093
Status:	Prequalified
Date of acceptance:	06 May 2013
Appliance type:	E013
Product description:	RUP syringe 3ml
Manufacturer:	PT Oneject Indonesia
Manufacturers Reference:	OnejectII RUP 3ml
Address:	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia
Telephone:	+62 21 879 17 422
Email:	niken.permatasari@oneject.co.id
Website address:	www.oneject.co.id
Valid until:	31 May 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G x 1 ¼”	**Needle Fixation**	Fixed
Nominal capacity (ml)	3.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Locked / broken plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	23G x 1 1/4" (30 mm)
RUP Nominal Capacity (ml)	3.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.087	**Shipping weight (kg)**	12.20
Pieces per package	1600	**Minimum order**	18000.00
Price 1	Upon request to manufacturer	**Year of base price**	2013
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	PT Oneject Indonesia
Address	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Haiou RUP retractable safety syringe 1ml**
IMD-PQS Code:	E013-096
Status:	Prequalified
Date of acceptance:	07 Oct 2013
Appliance type:	E013
Product description:	RUP retractable syringe 1ml
Manufacturer:	Guangdong Haiou Medical Apparatus Co., Ltd
Manufacturers Reference:	Haiou RUP retractable safety syringe 1ml
Address:	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China
Telephone:	+86-663-2758666
Email:	market01@haiou.net.cn
Website address:	http://www.haiou.net.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.01	**Needle Size**	Other
Needle Size (Other)	29G x 12mm	**Needle Fixation**	Fixed
Nominal capacity (ml)	1.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger locked to needle hub upon completion of injection and needle retraction into barrel
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	29G x 3/8" (10 mm)
RUP Nominal Capacity (ml)	1.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Retractable RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.101	**Shipping weight (kg)**	16.00
Pieces per package	3000	**Minimum order**	100000.00
Price 1	Upon request	**Year of base price**	2013
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Guangdong Haiou Medical Apparatus Co., Ltd
Address	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**YI XIN RUP 2ml**
IMD-PQS Code:	E013-097
Status:	Prequalified
Date of acceptance:	09 Nov 2013
Appliance type:	E013
Product description:	RUP syringe 2ml
Manufacturer:	Jiangxi Sanxin Medtec Co.,Ltd
Manufacturers Reference:	YI XIN RUP 2ml
Address:	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China
Telephone:	+86 791 85988111
Email:	fgb@sanxin-med.com
Website address:	www.sanxin-med.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Vaccine capacity (mL)	3.00	**Graduations (ml)**	0.10
Needle Size	Other	**Needle Size (Other)**	25G x 1"
Needle Fixation	Detached	**Nominal capacity (ml)**	2.00
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Plunger aspiration	Yes	**Number of pieces**	3.00
RUP mechanism	Plunger lock	**RUP Type**	Plunger lock
Location RUP activation	End of injection	**RUP Needle Fixation**	Not Fixed
RUP Needle Sizes	25G x 1" (25 mm)	**RUP Nominal Capacity (ml)**	2.00
RUP plunger Aspiration	Multiple	**RUP Primary Packaging**	Blister pack
RUP Sub-category	Simple RUP	**CE marking**	Yes

Comments	Secondary package can also contain 2400 syringes Shipping volume (m3): 0.10-0.13

PRICE AND SHIPPING

Pieces per package	1800	**Minimum order**	200000.00
Price 1	Upon request ot manufacturer	**Year of base price**	2013
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

Organization name	Jiangxi Sanxin Medtec Co.,Ltd
Address	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**YI XIN RUP 5ml**
IMD-PQS Code:	E013-098
Status:	Prequalified
Date of acceptance:	09 Nov 2013
Appliance type:	E013
Product description:	RUP syringe 5ml
Manufacturer:	Jiangxi Sanxin Medtec Co.,Ltd
Manufacturers Reference:	YI XIN RUP 5ml
Country of Manufacture:	China
Address:	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China
Telephone:	+86 791 85988111
Email:	fgb@sanxin-med.com
Website address:	www.sanxin-med.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	25G x 1"	**Needle Fixation**	Detached
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger lock
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	25G x 1" (25 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.1	**Shipping weight (kg)**	7.00
Pieces per package	1200	**Minimum order**	200000.00
Price 1	Upon request to manufacturer	**Year of base price**	2013
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

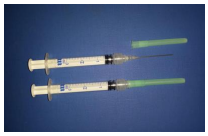
Organization name	Jiangxi Sanxin Medtec Co.,Ltd
Address	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Medeco® Inject RUP 3ml**
IMD-PQS Code:	E013-099
Status:	Prequalified
Date of acceptance:	11 Jul 2013
Appliance type:	E013
Product description:	RUP syringe 3ml
Manufacturer:	Abu Dhabi Medical Devices Co. L.L.C
Manufacturers Reference:	Medeco® Inject RUP 3ml
Address:	MUSSAFAH INDUSTRIAL AREA, M-43, PLOT 124, 30485, ABU DHABI United Arab Emirates
Telephone:	+971-2-6199100
Email:	info@admd.ae
Website address:	http://www.admd.ae
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	21G x 1 1/2"	**Needle Fixation**	Fixed
Nominal capacity (ml)	2.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Valve in needle hub
RUP Type	Other	**Location RUP activation**	Start of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	3.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

Comments	Nominal capacity 2ml, graduations to 3ml Available in two carton sizes 900pcs and 1,600pcs Shipping volume (m3): 900pcs 0.074m3, 1,600pcs 0.1m3 Shipping weight (kg): 900 pcs 4.2kg, 1,600pcs 11.6kg

PRICE AND SHIPPING

Pieces per package	900	**Minimum order**	1000000.00
Price 1	Upon request to manufacturer	**Year of base price**	2013
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

Organization name	Abu Dhabi Medical Devices Co. L.L.C
Address	MUSSAFAH INDUSTRIAL AREA, M-43, PLOT 124, 30485, ABU DHABI United Arab Emirates

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Medeco® Inject RUP 5ml**
IMD-PQS Code:	E013-100
Status:	Prequalified
Date of acceptance:	11 Jul 2013
Appliance type:	E013
Product description:	RUP syringe 5ml
Manufacturer:	Abu Dhabi Medical Devices Co. L.L.C
Manufacturers Reference:	Medeco® Inject RUP 5ml
Address:	MUSSAFAH INDUSTRIAL AREA, M-43, PLOT 124, 30485, ABU DHABI United Arab Emirates
Telephone:	+971-2-6199100
Email:	info@admd.ae
Website address:	http://www.admd.ae
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	21G x 1 1/2"	**Needle Fixation**	Fixed
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Valve in needle hub
RUP Type	Other	**Location RUP activation**	Start of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

Comments	Available in two carton sizes 800pcs and 1800 pcs Shipping volume (m3): 800 pcs 0.073m3, 1,800 0.1m3 Shipping weight (kg): 800 pcs 4.9kg, 1,800 pcs 16.5kg

PRICE AND SHIPPING

Pieces per package	800	**Minimum order**	1000000.00
Price 1	Upon request to manufacturer	**Year of base price**	2013
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

Organization name	Abu Dhabi Medical Devices Co. L.L.C
Address	MUSSAFAH INDUSTRIAL AREA, M-43, PLOT 124, 30485, ABU DHABI United Arab Emirates

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Yixin retractable 1ml**
IMD-PQS Code:	E013-101
Status:	Prequalified
Date of acceptance:	12 Mar 2013
Appliance type:	E013
Product description:	RUP retractable 1ml
Manufacturer:	Jiangxi Sanxin Medtec Co.,Ltd
Manufacturers Reference:	Yixin retractable 1ml
Address:	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China
Telephone:	+86 791 85988111
Email:	fgb@sanxin-med.com
Website address:	www.sanxin-med.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.02	**Needle Size**	Other
Needle Size (Other)	29G x 1/2"	**Needle Fixation**	Fixed
Nominal capacity (ml)	1.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Needle retraction into barrel
RUP Type	Other	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	29G x 3/8" (10 mm)
RUP Nominal Capacity (ml)	1.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Retractable RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.11	**Shipping weight (kg)**	15.50
Pieces per package	3000	**Minimum order**	100000.00
Price 1	Upon request to manufacturer	**Year of base price**	2013
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Jiangxi Sanxin Medtec Co.,Ltd
Address	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Yixin retractable 3ml**
IMD-PQS Code:	E013-102
Status:	Prequalified
Date of acceptance:	12 Mar 2013
Appliance type:	E013
Product description:	RUP retractable 3ml
Manufacturer:	Jiangxi Sanxin Medtec Co.,Ltd
Manufacturers Reference:	Yixin retractable 3ml
Address:	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China
Telephone:	+86 791 85988111
Email:	fgb@sanxin-med.com
Website address:	www.sanxin-med.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	25G x 1"	**Needle Fixation**	Fixed
Nominal capacity (ml)	3.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Needle retraction into barrel
RUP Type	Other	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	25G x 1" (25 mm)
RUP Nominal Capacity (ml)	3.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Retractable RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.15	**Shipping weight (kg)**	17.00
Pieces per package	2400	**Minimum order**	100000.00
Price 1	Upon request to manufacturer	**Year of base price**	2013
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Jiangxi Sanxin Medtec Co.,Ltd
Address	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**YIXIN® retractable 5ml**
IMD-PQS Code:	E013-103
Status:	Prequalified
Date of acceptance:	12 Mar 2013
Appliance type:	E013
Product description:	RUP retractable 5ml
Manufacturer:	Jiangxi Sanxin Medtec Co.,Ltd
Manufacturers Reference:	YIXIN® retractable 5ml
Address:	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China
Telephone:	+86 791 85988111
Email:	fgb@sanxin-med.com
Website address:	www.sanxin-med.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	23G x 1"	**Needle Fixation**	Detached
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Needle retraction into barrel
RUP Type	Other	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	23G x 1" (25 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Retractable RUP
CE marking	Yes		

Comments	Primary packaging: Paper blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.09	**Shipping weight (kg)**	14.00
Pieces per package	1200	**Minimum order**	100000.00
Price 1	Upon request to manufacturer	**Year of base price**	23013
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Jiangxi Sanxin Medtec Co.,Ltd
Address	999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**RUP syringe 2mL**
IMD-PQS Code:	E013-105
Status:	Prequalified
Date of acceptance:	07 Jan 2015
Appliance type:	E013
Product description:	RUP 2mL
Manufacturer:	Sanavita Pharmaceuticals GMBH
Manufacturers Reference:	RUP syringe 2mL
Address:	Spaldingstr. 110B D- 20097 Hamburg Germany Germany
Telephone:	+49 40 730 8853-0
Email:	guenter.kunde@sanavita.net
Website address:	www.sanavita.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	21Gx1 ½“ (38mm)	**Needle Fixation**	Fixed
Nominal capacity (ml)	2.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger lock
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	2.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.127	**Shipping weight (kg)**	13.00
Pieces per package	3000	**Minimum order**	3000.00
Price 1	Upon request to manufacturer	**Year of base price**	2016
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Sanavita Pharmaceuticals GMBH
Address	Spaldingstr. 110B D- 20097 Hamburg Germany Germany

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**RUP syringe 5mL**
IMD-PQS Code:	E013-106
Status:	Prequalified
Date of acceptance:	07 Jan 2015
Appliance type:	E013
Product description:	RUP 5mL
Manufacturer:	Sanavita Pharmaceuticals GMBH
Manufacturers Reference:	RUP syringe 5mL
Address:	Spaldingstr. 110B D- 20097 Hamburg Germany Germany
Telephone:	+49 40 730 8853-0
Email:	guenter.kunde@sanavita.net
Website address:	www.sanavita.net
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	21Gx1 ½" (38mm)	**Needle Fixation**	Fixed
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Plunger lock
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.137	**Shipping weight (kg)**	13.00
Pieces per package	1800	**Minimum order**	1800.00
Price 1	Upon request to manufacturer	**Year of base price**	2016
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Sanavita Pharmaceuticals GMBH
Address	Spaldingstr. 110B D- 20097 Hamburg Germany Germany

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Oneject II RUP Syringe 2 mL**
IMD-PQS Code:	E013-108
Status:	Prequalified
Date of acceptance:	21 Sep 2015
Appliance type:	E013
Product description:	RUP Syringe 2 mL
Manufacturer:	PT Oneject Indonesia
Manufacturers Reference:	Oneject II RUP Syringe 2 mL
Address:	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia
Telephone:	+62 21 879 17 422
Email:	niken.permatasari@oneject.co.id
Website address:	www.oneject.co.id
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication fixed dose administration	**Restrictive use for**	Therapeutic use
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G x 1 ¼"	**Needle Fixation**	Fixed
Nominal capacity (ml)	2.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Locked / broken plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Fixed	**RUP Needle Sizes**	23G x 1 1/4" (30 mm)
RUP Nominal Capacity (ml)	2.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.09	**Shipping weight (kg)**	10.60
Pieces per package	1600	**Minimum order**	1600.00
Price 1	Upon request to manufacturer	**Year of base price**	2015
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

Organization name	PT Oneject Indonesia
Address	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Oneject II RUP Syringe 5 mL**
IMD-PQS Code:	E013-109
Status:	Prequalified
Date of acceptance:	21 Sep 2015
Appliance type:	E013
Product description:	RUP syringe 5 mL
Manufacturer:	PT Oneject Indonesia
Manufacturers Reference:	Oneject II RUP Syringe 5 mL
Address:	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia
Telephone:	+62 21 879 17 422
Email:	niken.permatasari@oneject.co.id
Website address:	www.oneject.co.id
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication fixed dose administration	**Restrictive use for**	Therapeutic use
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	21G x 1 ½"	**Needle Fixation**	Detached
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Locked / broken plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.08	**Shipping weight (kg)**	12.00
Pieces per package	1200	**Minimum order**	1200.00
Price 1	Upon request to manufacturer	**Year of base price**	2015
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

Organization name	PT Oneject Indonesia
Address	Sentul Industrial Estate Jl.Olympic Raya Kav B9 Bogor 16810, Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**SKIFA RUP 1ml**
IMD-PQS Code:	E013-110
Status:	Prequalified
Date of acceptance:	05 Jul 2015
Appliance type:	E013
Product description:	RUP 1ml
Manufacturer:	Mitra Rajawali Banjaran, PT
Manufacturers Reference:	SKIFA RUP 1ml
Address:	JL. Raya Banjaran KM16 Bandung, Jawa Barat Indonesia Indonesia
Telephone:	+62 22 594 0151
Email:	nurasfiyahqo@gmail.com
Website address:	http://www.mrb.co.id
Valid until:	31 May 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Vaccine capacity (mL)	1.00	**Graduations (ml)**	0.05
Needle Size	Other	**Needle Size (Other)**	26G x ½ “
Needle Fixation	Detached	**Nominal capacity (ml)**	1.00
Packaging & Sterility Assurance	Yes	**Other needle size options**	Yes
Plunger aspiration	Yes	**Number of pieces**	3.00
RUP mechanism	Hooked to hub at end of injection	**RUP Type**	Other
Location RUP activation	End of injection	**RUP Needle Fixation**	Not Fixed
RUP Needle Sizes	26G x 3/8" (10 mm)	**RUP Nominal Capacity (ml)**	1.00
RUP plunger Aspiration	Multiple	**RUP Primary Packaging**	Blister pack
RUP Sub-category	Simple RUP	**CE marking**	Yes

PRICE AND SHIPPING

Shipping volume (m3)	0.142	**Shipping weight (kg)**	11.88
Pieces per package	100	**Minimum order**	10000.00
Price 1	24cts	**Year of base price**	2015
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Mitra Rajawali Banjaran, PT
Address	JL. Raya Banjaran KM16 Bandung, Jawa Barat Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**SKIFA RUP 5ml**
IMD-PQS Code:	E013-111
Status:	Prequalified
Date of acceptance:	05 Jul 2015
Appliance type:	E013
Product description:	RUP 5ml
Manufacturer:	Mitra Rajawali Banjaran, PT
Manufacturers Reference:	SKIFA RUP 5ml
Address:	JL. Raya Banjaran KM16 Bandung, Jawa Barat Indonesia Indonesia
Telephone:	+62 22 594 0151
Email:	nurasfiyahqo@gmail.com
Website address:	http://www.mrb.co.id
Valid until:	31 May 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	22G x 1 1/2"	**Needle Fixation**	Detached
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Hooked in hub at end of injection
RUP Type	Other	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	22G x 1 1/4" (30 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Plastic ribbon	**RUP Sub-category**	Simple RUP
CE marking	No		

PRICE AND SHIPPING

Shipping volume (m3)	0.71	**Shipping weight (kg)**	14.02
Pieces per package	100	**Minimum order**	10000.00
Price 1	28 cts	**Year of base price**	2015
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4		

PRODUCT SITES

Organization name	Mitra Rajawali Banjaran, PT
Address	JL. Raya Banjaran KM16 Bandung, Jawa Barat Indonesia Indonesia

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Smooth Inject Re-Use Prevention Syringe 3ml**
IMD-PQS Code:	E013-115
Status:	Prequalified
Date of acceptance:	13 Nov 2017
Appliance type:	E013
Product description:	RUP Syringe 3ml
Manufacturer:	International Company for Medical Necessities
Manufacturers Reference:	Smooth Inject Re-Use Prevention Syringe 3ml
Address:	Industrial Zone Block No. 19&67 Abu Tig Assuit Egypt Egypt
Telephone:	+2 (088) 49 50200 - 202 - 250
Email:	mak@medical-ico.com
Website address:	www.medical-ico.com & aak@medical-ico.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G x 1 1/4	**Needle Fixation**	Detached
Nominal capacity (ml)	3.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Locking plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	23G x 1 1/4" (30 mm)
RUP Nominal Capacity (ml)	3.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

Comments	Needle fixation: Detachable Plunger aspiration: Multiple Title: RUP Syringe 3ml Primary packaging: Paper blister pack Needle size: 23G x 1 1/4

PRICE AND SHIPPING

Shipping volume (m3)	0.08419	**Shipping weight (kg)**	11.55
Pieces per package	2200	**Minimum order**	500000.00
Price 1	100,000 US$ 0.028	**Price 2**	1m US$ 0.027
Price 3	10m US$ 0.025	**Year of base price**	2019
Incoterms	EXW		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: 7886-4 Applicable PQS VP(s):

PRODUCT SITES

Organization name	International Company for Medical Necessities
Address	Industrial Zone Block No. 19&67 Abu Tig Assuit Egypt Egypt

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety



E013: Injection devices for therapeutic purposes

IMD-PQS Code:	**E013-116**
Status:	Prequalified
Date of acceptance:	13 Nov 2017
Manufacturer:	0013X00003VGpWzQAL
Valid until:	31 May 2025

Specifications

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Smooth Inject Re-Use Prevention Syringe 10ml**
IMD-PQS Code:	E013-117
Status:	Prequalified
Date of acceptance:	13 Nov 2017
Appliance type:	E013
Product description:	RUP Syringe 10ml
Manufacturer:	International Company for Medical Necessities
Manufacturers Reference:	Smooth Inject Re-Use Prevention Syringe 10ml
Address:	Industrial Zone Block No. 19&67 Abu Tig Assuit Egypt Egypt
Telephone:	+2 (088) 49 50200 - 202 - 250
Email:	mak@medical-ico.com
Website address:	www.medical-ico.com & aak@medical-ico.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	21 G x 1.1/4"	**Needle Fixation**	Detached
Nominal capacity (ml)	10.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Locked plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	22G x 1 1/4" (30 mm)
RUP Nominal Capacity (ml)	10.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.084	**Shipping weight (kg)**	10.00
Pieces per package	1000	**Minimum order**	500000.00
Price 1	100,000 US$ 0.037	**Price 2**	1m US$ 0.036
Price 3	10m US$ 0.035	**Year of base price**	2019
Incoterms	EXW		

QUALITY STANDARD

Specification Reference	Applicable PQS specification: 7886-4 Applicable PQS VP(s):

PRODUCT SITES

Organization name	International Company for Medical Necessities
Address	Industrial Zone Block No. 19&67 Abu Tig Assuit Egypt Egypt

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety



E013: Injection devices for therapeutic purposes

IMD-PQS Code:	**E013-118**
Status:	Suspended
Date of acceptance:	14 Aug 2018
Appliance type:	E013

Specifications

Current PQS status:	*Suspended*	**Valid until:**	

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety



E013: Injection devices for therapeutic purposes

IMD-PQS Code:	**E013-119**
Status:	Suspended
Date of acceptance:	14 Aug 2018
Appliance type:	E013

Specifications

Current PQS status:	*Suspended*	**Valid until:**	

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Hongda 1ml RUP syringe**
IMD-PQS Code:	E013-120
Status:	Prequalified
Date of acceptance:	10 Dec 2018
Appliance type:	E013
Product description:	1ml RUP syringe
Manufacturer:	Jiangxi Hongda Medical Equipment Group Ltd
Manufacturers Reference:	Hongda 1ml RUP syringe
Address:	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China
Telephone:	+86 791 85628828
Email:	hongda008@jxhd.cn
Website address:	http://www.jxhd.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication fixed dose administration;Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.02	**Needle Size**	Other
Needle Size (Other)	26G 5/8"	**Needle Fixation**	Detached
Nominal capacity (ml)	1.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Gasket locked/broken plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	26G x 3/8" (10 mm)
RUP Nominal Capacity (ml)	1.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.0979	**Shipping weight (kg)**	19.00
Pieces per package	1500	**Minimum order**	100000.00
Price 1	price on request	**Year of base price**	2017
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: 7886-4 Applicable PQS VP(s):

PRODUCT SITES

Organization name	Jiangxi Hongda Medical Equipment Group Ltd
Address	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Hongda 10ml RUP syringe SD10L**
IMD-PQS Code:	E013-121
Status:	Prequalified
Date of acceptance:	10 Dec 2018
Appliance type:	E013
Product description:	10ml RUP syringe
Manufacturer:	Jiangxi Hongda Medical Equipment Group Ltd
Manufacturers Reference:	Hongda 10ml RUP syringe SD10L
Address:	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China
Telephone:	+86 791 85628828
Email:	hongda008@jxhd.cn
Website address:	http://www.jxhd.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.50	**Needle Size**	Other
Needle Size (Other)	21G x 1 ½"	**Needle Fixation**	Detached
Nominal capacity (ml)	10.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	locked gasket/plunger break
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	21G x 1 1/2" (38 mm)
RUP Nominal Capacity (ml)	10.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

Comments	Needle at side available Pieces per carton:1500 or 1200. Different pieces per carton are available. Graduations:with scale interval of 0.5ml and 2ml increment between graduation lines to be numbered

PRICE AND SHIPPING

Shipping volume (m3)	0.102	**Shipping weight (kg)**	16.00
Pieces per package	1500	**Minimum order**	100000.00
Price 1	price on request	**Year of base price**	2017
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: 7886-4 Applicable PQS VP(s):

PRODUCT SITES

Organization name	Jiangxi Hongda Medical Equipment Group Ltd
Address	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**2ml LS RUP 23X1 AN Bawal**
IMD-PQS Code:	E013-122
Status:	Prequalified
Date of acceptance:	16 May 2019
Appliance type:	E013
Product description:	2ml RUP 23X1 syringe
Manufacturer:	Becton Dickinson
Manufacturers Reference:	2ml LS RUP 23X1 AN Bawal
Address:	Crtra. Mequinenza (N-211) S/N, 22520, Fraga (Huesca) Spain
Telephone:	+34 974470900
Email:	kathy.cooman@bd.com
Website address:	http://www.bd.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication fixed dose administration	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	24x1	**Needle Fixation**	Detached
Nominal capacity (ml)	2.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	locked and breaking plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	24G x 1" (25 mm)
RUP Nominal Capacity (ml)	2.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**CE marking**	Yes

PRICE AND SHIPPING

Pieces per package	2400	**Minimum order**	48000.00
Price 1	price on request	**Year of base price**	2019
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

PRODUCT SITES

Organization name	Becton Dickinson
Address	Crtra. Mequinenza (N-211) S/N, 22520, Fraga (Huesca) United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Honga RUP 3ml syringe SD03L**
IMD-PQS Code:	E013-124
Status:	Prequalified
Date of acceptance:	10 Dec 2018
Appliance type:	E013
Product description:	RUP 3ml syringe
Manufacturer:	Jiangxi Hongda Medical Equipment Group Ltd
Manufacturers Reference:	Honga RUP 3ml syringe SD03L
Address:	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China
Telephone:	+86 791 85628828
Email:	hongda008@jxhd.cn
Website address:	http://www.jxhd.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration;Medication variable dose reconstitution	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23G x 1 ¼"	**Needle Fixation**	Detached
Nominal capacity (ml)	3.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Gasket lock/plunger break
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	23G x 1 1/4" (30 mm)
RUP Nominal Capacity (ml)	3.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

Comments	Needle at side available Pieces per carton:2000 or 2400 Graduations:with scale interval of 0.1ml and 0.5ml increment between graduation lines to benumbered.

PRICE AND SHIPPING

Shipping volume (m3)	0.0979	**Shipping weight (kg)**	19.00
Pieces per package	1500	**Minimum order**	100000.00
Price 1	price on request	**Year of base price**	2017
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: 7886-4 Applicable PQS VP(s):

PRODUCT SITES

Organization name	Jiangxi Hongda Medical Equipment Group Ltd
Address	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**3ml LS RUP 23X1 AN Bawal**
IMD-PQS Code:	E013-125
Status:	Prequalified
Date of acceptance:	16 May 2019
Appliance type:	E013
Product description:	3ml RUP 23X1
Manufacturer:	Becton Dickinson
Manufacturers Reference:	3ml LS RUP 23X1 AN Bawal
Address:	Crtra. Mequinenza (N-211) S/N, 22520, Fraga (Huesca) Spain
Telephone:	+34 974470900
Email:	kathy.cooman@bd.com
Website address:	http://www.bd.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	23x1	**Needle Fixation**	Detached
Nominal capacity (ml)	3.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Blocking and breaking plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	23G x 1" (25 mm)
RUP Nominal Capacity (ml)	3.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**CE marking**	Yes

PRICE AND SHIPPING

Shipping volume (m3)	0.12	**Shipping weight (kg)**	13.80
Pieces per package	2400	**Minimum order**	48000.00
Price 1	price on request	**Year of base price**	2019
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

PRODUCT SITES

Organization name	Becton Dickinson
Address	Crtra. Mequinenza (N-211) S/N, 22520, Fraga (Huesca) United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**5ml LS RUP 24X1 AN Bawal**
IMD-PQS Code:	E013-126
Status:	Prequalified
Date of acceptance:	16 May 2019
Appliance type:	E013
Product description:	BD Syringe 5ml LS RUP 24X1 AN Bawal
Manufacturer:	Becton Dickinson
Manufacturers Reference:	5ml LS RUP 24X1 AN Bawal
Address:	Crtra. Mequinenza (N-211) S/N, 22520, Fraga (Huesca) Spain
Telephone:	+34 974470900
Email:	kathy.cooman@bd.com
Website address:	http://www.bd.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication fixed dose administration	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	24x1	**Needle Fixation**	Detached
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Locking and breaking plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	24G x 1" (25 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Plastic ribbon	**CE marking**	Yes

PRICE AND SHIPPING

Shipping volume (m3)	0.118	**Shipping weight (kg)**	11.40
Pieces per package	1600	**Minimum order**	32000.00
Price 1	price on request	**Year of base price**	2019
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

PRODUCT SITES

Organization name	Becton Dickinson
Address	Crtra. Mequinenza (N-211) S/N, 22520, Fraga (Huesca) United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Syringe 10ml LS RUP 21X1 AN Bawal**
IMD-PQS Code:	E013-127
Status:	Prequalified
Date of acceptance:	16 May 2019
Appliance type:	E013
Product description:	BD 10ml RUP 21X1
Manufacturer:	Becton Dickinson
Manufacturers Reference:	Syringe 10ml LS RUP 21X1 AN Bawal
Address:	Crtra. Mequinenza (N-211) S/N, 22520, Fraga (Huesca) Spain
Telephone:	+34 974470900
Email:	kathy.cooman@bd.com
Website address:	http://www.bd.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	21X1	**Needle Fixation**	Detached
Nominal capacity (ml)	10.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	Locking and breaking plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	21G x 1 1/4" (30 mm)
RUP Nominal Capacity (ml)	10.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**CE marking**	Yes

PRICE AND SHIPPING

Shipping volume (m3)	0.1358	**Shipping weight (kg)**	13.80
Pieces per package	1200	**Minimum order**	24000.00
Price 1	price on request	**Year of base price**	2019
Incoterms	FCA		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001
Specification Reference	Applicable PQS specification: Applicable PQS VP(s):		

PRODUCT SITES

Organization name	Becton Dickinson
Address	Crtra. Mequinenza (N-211) S/N, 22520, Fraga (Huesca) United States of America

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**SHIFA syringe 1ml**
IMD-PQS Code:	E013-128
Status:	Prequalified
Date of acceptance:	20 Oct 2020
Appliance type:	E013
Product description:	RUP syringe 1ml
Manufacturer:	Changzhou Tongda Medical Appliance Co., Ltd
Manufacturers Reference:	SHIFA syringe 1ml
Address:	Sanhekou Street, Zhenglu Town, Tianning District, Changzhou, Jiangsu, China. No. 208, Sanhe Road 213115 Changzhou China
Telephone:	+86 51988670522
Email:	info@tongdamedical.com
Website address:	http://www.tongdachina.com.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	26Gx5/8"	**Needle Fixation**	Detached
Nominal capacity (ml)	1.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	locked & broken pluger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	26G x 3/8" (10 mm)
RUP Nominal Capacity (ml)	1.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**CE marking**	Yes

Comments	Needle at side available Pieces per carton:2000 or 2400

PRICE AND SHIPPING

Shipping volume (m3)	0.090447	**Shipping weight (kg)**	12.78
Pieces per package	2000	**Minimum order**	200000.00
Price 1	price on request	**Year of base price**	2020
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Changzhou Tongda Medical Appliance Co., Ltd
Address	Sanhekou Street, Zhenglu Town, Tianning District, Changzhou, Jiangsu, China. No. 208, Sanhe Road 213115 Changzhou China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**SHIFA syringe 3ml**
IMD-PQS Code:	E013-129
Status:	Prequalified
Date of acceptance:	20 Oct 2020
Appliance type:	E013
Product description:	RUP syringe 3ml
Manufacturer:	Changzhou Tongda Medical Appliance Co., Ltd
Manufacturers Reference:	SHIFA syringe 3ml
Address:	Sanhekou Street, Zhenglu Town, Tianning District, Changzhou, Jiangsu, China. No. 208, Sanhe Road 213115 Changzhou China
Telephone:	+86 51988670522
Email:	info@tongdamedical.com
Website address:	http://www.tongdachina.com.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	None
Graduations (ml)	0.10	**Needle Size**	Other
Needle Size (Other)	24Gx1"	**Needle Fixation**	Detached
Nominal capacity (ml)	3.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	locked and broken plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	24G x 1" (25 mm)
RUP Nominal Capacity (ml)	3.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**RUP Sub-category**	Simple RUP
CE marking	Yes		

Comments	Needle at side available, Pieces per carton:2000 or 2400

PRICE AND SHIPPING

Shipping volume (m3)	0.090447	**Shipping weight (kg)**	12.78
Pieces per package	2000	**Minimum order**	200000.00
Price 1	price on request	**Year of base price**	2020
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Changzhou Tongda Medical Appliance Co., Ltd
Address	Sanhekou Street, Zhenglu Town, Tianning District, Changzhou, Jiangsu, China. No. 208, Sanhe Road 213115 Changzhou China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**SHIFA syringe 5ml**
IMD-PQS Code:	E013-130
Status:	Prequalified
Date of acceptance:	20 Oct 2020
Appliance type:	E013
Product description:	RUP syringe 5ml
Manufacturer:	Changzhou Tongda Medical Appliance Co., Ltd
Manufacturers Reference:	SHIFA syringe 5ml
Address:	Sanhekou Street, Zhenglu Town, Tianning District, Changzhou, Jiangsu, China. No. 208, Sanhe Road 213115 Changzhou China
Telephone:	+86 51988670522
Email:	info@tongdamedical.com
Website address:	http://www.tongdachina.com.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	23G x 1"	**Needle Fixation**	Detached
Nominal capacity (ml)	5.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	locked and broken plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	24G x 1" (25 mm)
RUP Nominal Capacity (ml)	5.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**CE marking**	Yes

Comments	Needle at side available Pieces per carton:1600 or 2000

PRICE AND SHIPPING

Shipping volume (m3)	0.10212	**Shipping weight (kg)**	13.70
Pieces per package	1600	**Minimum order**	200000.00
Price 1	price on request	**Year of base price**	2020
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

Organization name	Changzhou Tongda Medical Appliance Co., Ltd
Address	Sanhekou Street, Zhenglu Town, Tianning District, Changzhou, Jiangsu, China. No. 208, Sanhe Road 213115 Changzhou China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**SHIFA syringe 10ml**
IMD-PQS Code:	E013-131
Status:	Prequalified
Date of acceptance:	20 Oct 2020
Appliance type:	E013
Product description:	RUP syringe 10ml
Manufacturer:	Changzhou Tongda Medical Appliance Co., Ltd
Manufacturers Reference:	SHIFA syringe 10ml
Address:	Sanhekou Street, Zhenglu Town, Tianning District, Changzhou, Jiangsu, China. No. 208, Sanhe Road 213115 Changzhou China
Telephone:	+86 51988670522
Email:	info@tongdamedical.com
Website address:	http://www.tongdachina.com.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication fixed dose administration;Medication variable dose administration	**Restrictive use for**	None
Graduations (ml)	0.50	**Needle Size**	Other
Needle Size (Other)	22Gx1 1/4"	**Needle Fixation**	Detached
Nominal capacity (ml)	10.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	locked and broken plunger
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Fixation	Not Fixed	**RUP Needle Sizes**	22G x 1 1/4" (30 mm)
RUP Nominal Capacity (ml)	10.00	**RUP plunger Aspiration**	Multiple
RUP Primary Packaging	Blister pack	**CE marking**	Yes

Comments	Needle at side available Pieces per carton:1600 or 1200

PRICE AND SHIPPING

Shipping volume (m3)	0.139776	**Shipping weight (kg)**	18.94
Pieces per package	1600	**Minimum order**	200000.00
Price 1	price on request	**Year of base price**	2020
Incoterms	FOB		

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886-4 Applicable PQS VP(s): ISO 7886-4

PRODUCT SITES

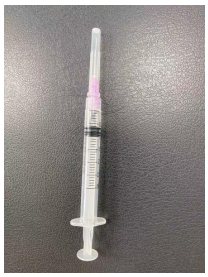
Organization name	Changzhou Tongda Medical Appliance Co., Ltd
Address	Sanhekou Street, Zhenglu Town, Tianning District, Changzhou, Jiangsu, China. No. 208, Sanhe Road 213115 Changzhou China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**3mL RUP**
IMD-PQS Code:	E013-133
Status:	Prequalified
Date of acceptance:	24 Dec 2021
Appliance type:	E013
Product description:	3mL RUP
Manufacturer:	Wuxi Yushou Medical Appliances Co., Ltd
Manufacturers Reference:	3mL RUP
Address:	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China
Telephone:	+86 (510)3777555
Email:	mike@chinasyringe.com
Website address:	http://www.chinasyringe.com
Valid until:	31 May 2025

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	None
Graduations (ml)	0.20	**Needle Size**	Other
Needle Size (Other)	24Gx1"	**Needle Fixation**	Detached
Nominal capacity (ml)	3.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP Type**	Other
Location RUP activation	End of injection	**RUP Needle Fixation**	Not Fixed
RUP Needle Sizes	24G x 1" (25 mm)	**RUP Nominal Capacity (ml)**	3.00
RUP plunger Aspiration	Multiple	**RUP Primary Packaging**	Blister pack
CE marking	Yes		

PRICE AND SHIPPING

Shipping volume (m3)	0.12	**Shipping weight (kg)**	12.00
Pieces per package	2400	**Minimum order**	200000.00
Price 1	Price available on request	**Year of base price**	2021

QUALITY STANDARD

Quality Standard	ISO 13485	**Specification Reference**	Applicable PQS specification: ISO 7886/4 Applicable PQS VP(s):

PRODUCT SITES

Organization name	Wuxi Yushou Medical Appliances Co., Ltd
Address	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2025*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety



E013: Injection devices for therapeutic purposes

IMD-PQS Code:	**E013-134**
Status:	Suspended
Date of acceptance:	01 Jul 2022
Appliance type:	E013

Specifications

Current PQS status:	*Suspended*	**Valid until:**	

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Hongda 1mL RUP syringe**
IMD-PQS Code:	E013-135
Status:	Prequalified
Date of acceptance:	15 Sep 2023
Appliance type:	E013
Product description:	1mL RUP syringe
Manufacturer:	Jiangxi Hongda Medical Equipment Group Ltd
Manufacturers Reference:	Hongda 1mL RUP syringe
Address:	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China
Telephone:	+86 791 85628828
Email:	hongda008@jxhd.cn
Website address:	http://www.jxhd.cn
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Intended purpose	Medication variable dose administration	**Restrictive use for**	Insulin administration,Tuberculin administration,Fixed dose 1mL
Graduations (ml)	0.02	**Needle Size**	Other
Needle Size (Other)	22GX1mm	**Needle Fixation**	Fixed
Nominal capacity (ml)	1.00	**Packaging & Sterility Assurance**	Yes
Other needle size options	Yes	**Plunger aspiration**	Yes
Number of pieces	3.00	**RUP mechanism**	gasket and plunger is Locked
RUP Type	Plunger lock	**Location RUP activation**	End of injection
RUP Needle Sizes	22G x 1" (25 mm)	**RUP Nominal Capacity (ml)**	1.00
RUP Primary Packaging	Paper blister pack	**CE marking**	Yes

Comments	Pieces per carton: other quantities per carton available Plunger aspiration: Single

PRICE AND SHIPPING

Shipping volume (m3)	0.097954	**Shipping weight (kg)**	19.00
Pieces per package	1500	**Minimum order**	100000.00
Price 1	1000units:3.3$	**Price 2**	5000units:3.2$
Price 3	10000units:3.1$	**Year of base price**	2023

QUALITY STANDARD

Quality Standard	ISO 13485

PRODUCT SITES

Organization name	Jiangxi Hongda Medical Equipment Group Ltd
Address	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of China

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**Yushou®**
IMD-PQS Code:	E013-136
Status:	Prequalified
Date of acceptance:	15 Jan 2024
Product description:	5mL Syringe with re-use prevention feature
Manufacturer:	Wuxi Yushou Medical Appliances Co., Ltd
Manufacturers Reference:	Yushou®
Country of Manufacture:	China
Address:	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China China
Telephone:	+86 (510)3777555
Email:	mike@chinasyringe.com
Website address:	http://www.chinasyringe.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	5.00	**Graduations (ml)**	0.20
Needle Size	Other	**Needle Size (Other)**	23Gx25mm
Needle Fixation	Detached	**Syringe material(s)**	Polypropylene
Other needle size options	Yes	**Number of pieces**	2000.00
RUP Type	Other	**Location RUP activation**	End of injection
RUP ISO Type	Type 1A	**RUP Primary Packaging**	Paper blister pack

PRICE AND SHIPPING

Shipping volume (m3)	0.135	**Shipping weight (kg)**	15.00
Units per package	3.00	**Pieces per package**	2000
Minimum order	200000.00	**Price 1**	POA
Year of base price	2023	**Incoterms**	FOB

QUALITY STANDARD

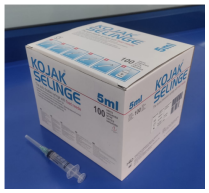
Quality Standard	ISO 13485

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

WHO Immunisation Devices - Performance, Quality & Safety

E013: Injection devices for therapeutic purposes



Product name:	**KOJAK SELINGE 5ml**
IMD-PQS Code:	E013-137
Status:	Prequalified
Date of acceptance:	05 Jun 2025
Product description:	RUP Syringe 5ml
Manufacturer:	Hindustan Syringes & Medical Devices Ltd.
Manufacturers Reference:	KOJAK SELINGE 5ml
Country of Manufacture:	India
Address:	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India India
Telephone:	+91 129-4289000
Email:	hmduk@hmdhealthcare.com
Website address:	www.hmdhealthcare.com
Valid until:	31 May 2026

Specifications

PRODUCT SPECIFICATIONS - MAIN

Vaccine capacity (mL)	5.00	**Graduations (ml)**	0.20
Needle Size	Other	**Needle Size (Other)**	21 GX 11?2" (0.80 X 38 mm)
Needle Fixation	Fixed	**Other needle size options**	Yes
Number of components	3	**RUP mechanism**	Locked / Broken Plunger
RUP Type	Other	**Location RUP activation**	End of injection
RUP ISO Type	Type I B	**RUP Primary Packaging**	Paper blister pack
CE marking	Yes		

Comments	MDSAP

PRICE AND SHIPPING

Shipping volume (m3)	0.0726	**Shipping weight (kg)**	11.80
Pieces per package	1200	**Minimum order**	12000.00
Price 1	Over 1 million - USD 4.55/100 Pcs	**Price 2**	Over 10 millions - USD 4.30/100 Pcs
Price 3	Over 50 millions - USD 4.05/100 Pcs	**Year of base price**	2025

QUALITY STANDARD

Quality Standard	ISO 13485;Other	**Quality standard (Other)**	ISO 9001:2015

Current PQS status:	*Prequalified*	**Valid until:**	*31 May 2026*

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

End notes

The IMD-PQS Devices Catalogue, which includes the product data sheets, is updated regularly. The product data sheets are individually accessible on the IMD-PQS website in the section "Key resources/Prequalified products"[1].

Products are added to the IMD-PQS Catalogue only if and when they are found, by the process of WHO independent verification, to comply with the applicable performance, quality and safety standards current at the time of submission. Those products found to successfully comply will be granted IMD-PQS-prequalified status which indicates that the product may be procured by United Nations agencies for use in immunization programmes.

WHO may suspend or withdraw products from the IMD-PQS Catalogue according to the IMD-PQS Standard Operating Procedures (SOP)[2]. Reasons for suspension or withdrawal are listed in the SOP 011 "*How to remove a prequalified product from the IMD-PQS database*".

WHO operates a policy of "grandfathering" for previously IMD-PQS prequalified products that no longer meet current PQS standards. PQS will define a period of a specific duration, following the introduction of a new or revised product specification, during which previously prequalified equipment are exempt from compliance with the new requirements. The IMD-PQS Secretariat will identify any specification clause that requires eventual compliance by previously prequalified equipment including the duration of the Grandfathering period.

The IMD-PQS Catalogue does not provide an exhaustive overview of products for use in immunization programmes. The IMD-PQS Catalogue includes only those products which have been independently assessed in accordance with IMD-PQS verification procedures and found to meet the requirements of the relevant IMD-PQS performance specifications.

The fact that certain products and manufacturers are not included in the IMD-PQS Catalogue does not mean that, if independently tested, they would not be found to comply with the relevant IMD-PQS performance specifications. WHO IMD-PQS therefore encourages a wide range of manufacturers to apply for prequalification to support the development of a competitive marketplace.

The IMD-PQS Catalogue may not be used by manufacturers and suppliers for commercial or promotional purposes.

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[1] IMD-PQS Catalogue, IMD-PQS website *Key resources/Prequalified products*: https://extranet.who.int/prequal/immunization-devices/online-catalogue

[2] WHO Performance, Quality, and Safety Standard Operating Procedures (https://extranet.who.int/prequal/immunization-devices/standard-operating-procedures

Disclaimer

The inclusion of a product in the IMD-PQS Catalogue does not constitute a WHO endorsement of the product and/or its manufacturer (beyond compliance with IMD-PQS specifications).

WHO does not guarantee that IMD-PQS Catalogue is complete or error free.
Furthermore, by including products in the IMD-PQS Catalogue, WHO does not imply that:

- the products which have been found to meet the relevant PQS performance specifications will continue to do so, nor that
- the products included in the PQS Catalogue have obtained marketing authorization for their specified use or any other use in any country of the world, or that their use is otherwise in accordance with the national laws and regulations of any country, including but not limited to patent laws.

WHO wishes to alert procuring agencies that the improper handling and transportation of products may affect their quality, safety and/or effectiveness. WHO disclaims any and all liability and responsibility for any injury, death, loss, or damage of any kind whatsoever that may arise as a result of, or in connection with the procurement, distribution and use of any product included in the IMD-PQS Catalogue.

Procurement suggestions

Any Member State and UN organization intending to use the IMD-PQS Catalogue for procurement purposes should ensure that only products from the manufacturers mentioned in the IMD-PQS Catalogue are supplied to it. However, inclusion of a product in the IMD-PQS Catalogue does not constitute any guarantee for the procurement of this product.

Procurement agencies using the IMD-PQS Catalogue for procurement purposes remain solely responsible for ensuring the quality of the products to be delivered to them. Procurement agencies are also responsible for ensuring the financial stability and standing of the supplier, their ability to supply the required quantities and that the products have obtained the required marketing authorizations.

Guideline revision history

Date	Change summary	Reason for change	Approved
15 April 2011	First publication		IG
25 August 2019	Substantial technical revisions all sections; editing / proofing and streamlining contents.	Updates in line with technical product changes and the PQT Immunization Devices website review.	IG
17 September 2024	Substantial technical revisions all sections; editing / proofing and streamlining contents.	Updates in line with technical product changes and the PQT Immunization Devices website review.	IG

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