



PERFORMANCE QUALITY SAFETY

# PQS devices catalogue

Pre-qualified equipment for the Expanded Programme on Immunization (EPI)



WHO Department of Immunization, Vaccines and Biologicals-Quality, Standards and Safety

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World Health  
Organization

# Preface

The PQS on-line catalogue includes details of all immunization-related products currently pre-qualified by WHO for procurement by United Nations agencies. The catalogue is produced and maintained by the Quality, Safety and Standards group in the Immunization, Vaccine and Biologicals Department of WHO, Geneva. It replaces the old WHO/UNICEF Product Information Sheets (PIS), the last edition of which was published in 2000. Only products included in the PQS catalogue are now recommended to be purchased by UN agencies.

PQS performance specifications and verification protocols have been phased in on a category-by-category basis since 2006. There are many new specifications and the old PIS specifications and test procedures have also been replaced. Once a PQS specification has been published, manufacturers are granted a transition period in which to meet the new standards. Whenever a new product is pre-qualified, a data sheet is published on the PQS website.

This document and the individual product data sheets are available on the internet only at:

<[http://apps.who.int/immunization\\_standards/vaccine\\_quality/pqs\\_catalogue/index.aspx](http://apps.who.int/immunization_standards/vaccine_quality/pqs_catalogue/index.aspx) >

There is no hardcopy version. Each edition of the catalogue is date-stamped. It will be updated regularly to ensure that the information it contains is current.

A related catalogue of WHO pre-qualified vaccines will be made available on the internet later in 2011. This will be published and managed in a similar manner. Details will be provided in future catalogue revisions.

## Navigation

The catalogue is divided by category as follows:

- E001: Cold rooms, freezer rooms and related equipment;
- E002: Transport (guideline only);
- E003: Refrigerators and freezers;
- E004: Insulated containers;
- E005: Ice-packs, cool-packs and warm-packs;
- E006: Temperature monitoring devices;
- E007: Cold chain accessories;
- E008: Single-use injection devices;
- E009: (not currently used);
- E010: Waste management equipment;
- E011: Specimen collection equipment;
- E012: (not currently used);
- E013: Therapeutic injection devices.

## Coding

Each section includes details of currently pre-qualified products, a guideline on the choice of equipment in the category and links to relevant supporting documents.

Every product has a unique reference - the PQS product code. This comprises the category reference - e.g. E003 - followed by a number. Breaks in the numerical sequence will appear when an item is dropped from the catalogue. A unique reference is never reassigned to another product.

## Feedback

User feedback is an essential component of PQS and the PQS website includes a feedback page. In particular we would like you to tell us how the products in the catalogue perform under field conditions. We will share this information with the manufacturers so that they can improve their products and we will also use it to develop better specifications.

Any general comments and queries can be addressed to: [pqsinfo@who.int](mailto:pqsinfo@who.int)

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## Glossary

The following definitions explain some key terms relevant to equipment specification. The list is not exhaustive: a term is only included where it is not common knowledge and where correct interpretation is essential in order to make an informed choice of equipment. Equipment purchasers are also encouraged to read the relevant PQS specifications and verification protocols.

**Autonomy (solar refrigerators):** The autonomy of a solar refrigerator measures the ability of the equipment to store vaccine during periods of heavy cloud. It is defined as the maximum number of days during which the refrigerator can continue to maintain a full vaccine load at a temperature between +2°C and +8°C when the photovoltaic panels are not generating electricity.

**Cold life, cool life and warm life for cold boxes and vaccine carriers:** Cold life applies when fully frozen water-packs are used as the coolant; these will continue to be used for transporting OPV and single antigen freeze-dried (lyophilized) vaccines. Cool life applies when cool water-packs are used and warm life applies when warm water-packs are used to protect freeze-sensitive vaccines in very cold climates.

- *Cold life with frozen water-packs:* 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.
- *Cool life with cool water-packs at +5°C:* Cool life is measured from the moment when the container is closed, until the temperature of the warmest point inside the vaccine storage compartment first reaches +20°C, at a constant ambient temperature of +43°C.
- *Warm life with warm water-packs at +18°C:* Warm life is measured from the moment when the container is closed, until the temperature of the coldest point inside the vaccine storage compartment first reaches 0°C at a constant ambient temperature of -20°C.

**EVM:** Effective Vaccine Management initiative. This merges the EVSM and Vaccine Management Assessment (VMA) initiatives. The [EVM website](#) contains all the EVM resources.

**EVSM:** Effective Vaccine Store Management initiative. The EVSM assessment process has now been replaced by EVM. However, the EVSM Model Quality Plan is still relevant and is referred to in this document.

**Holdover time:** The time in hours during which all points in the vaccine compartment of a vaccine refrigerator remain below +10°C, at the maximum ambient temperature of the temperature zone for which the appliance is rated, after the power supply has been disconnected. For vaccine freezers, the holdover time is the time in hours during which the vaccine compartment remains below -5°C.

**Primary store:** A store which receives some or all of its vaccine directly from a national or international vaccine manufacturer.

**Sub-national store:** A store which receives vaccine from a primary store or a higher level sub-national store.

**Water-pack:** Flat plastic container, filled with water, which can be used as a frozen water-pack (ice-pack), a cool water-pack or a warm water-pack.

**Water-pack freezing capacity (kg/24 hrs):** The maximum weight of water-packs which can be fully frozen, in one batch, during a 24 hour freezing cycle. During this period the temperature of the vaccine storage compartment must remain within the acceptable temperature range of +2°C to +8°C.

**Vaccine storage capacity:** For a freezer, refrigerator, cold box or vaccine carrier: the actual volume available for the storage of vaccine as stated by the equipment manufacturer or established by physical measurement.

## Abbreviations

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

--	information not applicable or not available
( )	performance data as reported by manufacturer
[ ]	estimated
++	not tested
<	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
dB(A)	decibels
DC	direct current
DT	diphtheria and tetanus toxoid vaccine
DTP	diphtheria-tetanus-pertussis vaccine



g	grams
G	gauge
GWP	global warming potential (CO <sub>2</sub> = 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	<i>Haemophilus influenzae</i> type b vaccine
HIP	high impact polystyrene
hrs.	hours
Hz	hertz (cycles per second)
id	internal diameter
IPV	inactivated polio vaccine
kg	kilograms
km	kilometre
kPa	kilo Pascals (100 kPa = 1 Bar = 14.5 psi)
kVA	kilovolt-ampere
kWh	kilowatt-hours
LDPE	low density polyethylene
LLDPE	linear low density polyethylene
LPG	liquid petroleum gas
LPM	litres per minute
lts or l	litres
m	metre
m <sup>3</sup>	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
PW	peak watt
RH	relative humidity

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 pre-qualification under PQS

PQS performance specifications and verification protocols can be downloaded from the PQS website.

Every item listed in the catalogue has been shown to comply with the relevant PQS performance specification, and has been independently assessed against the companion verification protocols. There are three types of verification:

**Type-examination:** Some products such as cold rooms and solar power systems are site-specific but are made up of standard manufactured components. These are pre-qualified by a 'type-examination' procedure. A technical expert carries out a detailed assessment against a standard checklist to determine that all the components comply fully with the specification. Type-examination is also used for certain other product types which meet normal industry standards, and are not considered to be programme-critical; for example, temperature data loggers used for temperature monitoring studies.

**Type-testing:** A product that is programme-critical is generally 'type-tested'. Type-testing also starts with a 'type-examination' procedure. This is followed by standardized laboratory testing to ensure full compliance with the critical performance requirements.

**Full Quality Assurance:** A few products (for example – cold rooms, solar power systems and event logger type temperature monitoring systems) require quality-assured on-site installation and commissioning if they are to operate successfully. An additional type of verification protocol known as a Quality Assurance (QA) protocol applies to such equipment. A QA protocol is installation-specific and is intended to form part of the contractual agreement with the equipment supplier/installer. QA protocols can be downloaded from the PQS website in Microsoft Word format. This allows purchasers of such equipment to complete the document to suit their own specific needs.

**Annual review procedure:** Following initial pre-qualification, all listed products must pass an annual review. This process will take account of feedback from purchasing agencies and users. Adverse reports may lead to product modifications, to suspension or, in serious cases, to removal from the catalogue.

### How to order products

When you order a product, whether from a UN procurement agency or direct from the manufacturer, you should:

- Give the full PQS product code.
- Give the manufacturer's product code as shown on the product data sheet.
- If product options are available, including spare parts, clearly state the ones that are required.

**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.

**Incoterms:** Manufacturers and suppliers offer delivery arrangements based on international standard definitions known as *Incoterms*. As noted above, guide prices in the PQS catalogue are generally quoted EXW. The two tables show who pays the cost of each service item in the delivery chain. A new edition of Incoterms was published in 2010 and is being phased in. Those below refer to the long-established 2000 edition. It is essential to check which version is being used by the supplier.

### Incoterms definitions

TERM SERVICE	EXW Ex-Works	FCA Free Carrier	FAS Free Alongside Ship	FOB Free On-Board Vessel	CFR Cost & Freight	CIF Cost Insurance & Freight	CPT Carriage Paid To
	Who Pays	Who Pays	Who Pays	Who Pays	Who Pays	Who Pays	Who Pays
Warehouse storage at point of origin	Seller	Seller	Seller	Seller	Seller	Seller	Seller
Warehouse labour at point of origin	Seller	Seller	Seller	Seller	Seller	Seller	Seller
Export packing	Seller	Seller	Seller	Seller	Seller	Seller	Seller
Loading at point of origin	Buyer	Seller	Seller	Seller	Seller	Seller	Seller
Inland freight	Buyer	Buyer	Seller	Seller	Seller	Seller	Seller
Port receiving charges	Buyer	Buyer	Seller	Seller	Seller	Seller	Seller
Forwarders fee	Buyer	Buyer	Seller	Seller	Seller	Seller	Seller
Loading on ocean carrier	Buyer	Buyer	Buyer	Seller	Seller	Seller	Seller
Ocean/Air freight charges	Buyer	Buyer	Buyer	Buyer	Seller	Seller	Seller
Charges at foreign Port/Airport	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Seller
Customs, Duties & Taxes abroad	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer
Delivery charges to final destination	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer

TERM SERVICE	CIP Carriage & Insurance Paid To	DAF Delivery At Frontier	DES Delivered Ex-Ship	DEQ Delivered Ex-Quay, Duty Unpaid	DDU Delivered Duty Unpaid	DDP Delivered Duty Paid
	Who Pays	Who Pays	Who Pays	Who Pays	Who Pays	Who Pays
Warehouse storage at point of origin	Seller	Seller	Seller	Seller	Seller	Seller
Warehouse labour at point of origin	Seller	Seller	Seller	Seller	Seller	Seller
Export packing	Seller	Seller	Seller	Seller	Seller	Seller
Loading at point of origin	Seller	Seller	Seller	Seller	Seller	Seller
Inland freight	Seller	Seller	Seller	Seller	Seller	Seller
Port receiving charges	Seller	Seller	Seller	Seller	Seller	Seller
Forwarders fee	Seller	Seller	Seller	Seller	Seller	Seller
Loading on ocean carrier	Seller	Seller	Seller	Seller	Seller	Seller
Ocean/Air freight charges	Seller	Seller	Seller	Seller	Seller	Seller
Charges at foreign Port/Airport	Seller	Seller	Buyer	Seller	Seller	Seller
Customs, Duties & Taxes abroad	Buyer	Buyer	Buyer	Buyer	Buyer	Seller
Delivery charges to final destination	Buyer	Buyer	Buyer	Buyer	Seller	Seller

Source: <http://www.skymartworldwide.com/incoterms-2009.html>

The official Incoterm definitions can be purchased from the [International Chamber of Commerce](#) website.

### **Where to order products**

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

Most items can also be purchased through the [WHO Contracting and Procurement Service](#) or from [UNICEF Supply Division](#) in Copenhagen, Denmark.

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

Other equipment suppliers include: [International Dispensary Association](#) (IDA) in The Netherlands and [Médecins Sans Frontières Logistique](#) (MSFL) in France.

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

# General information

## Vaccine storage and distribution

The following table shows the current WHO guidance on vaccine storage temperatures. Use these recommendations when calculating refrigeration needs.

### WHO vaccine storage recommendations

Vaccine	Primary	Sub-national		Health Facility	Health Post			
		Province	District					
	Maximum storage period			Maximum storage period				
	6-12 months	3 months	1 month	1 month	According to session plan			
OPV	Store at -15°C to -25°C OPV is the only vaccine that can safely be frozen and unfrozen repeatedly		Store at +2°C to +8°C					
BCG	Store these lyophilized vaccines at +2°C to +8°C. Under exceptional circumstances they can be temporarily stored at -15°C to -25°C (e.g. if there is a temporary shortage of storage space. Never freeze diluent.		Store at +2°C to +8°C					
Hib lyophilized								
JE								
Measles								
Meningitis								
MMR								
MR								
Yellow Fever								
Cholera								
DT/TT/Td								
DTP								
DTP-HepB								
DTP-HepB+Hib lyo								
DTP-HepB-Hib liquid								
DTP-Hib								
Hepatitis B								
Hib liquid								
HPV								
Influenza								
IPV								
Pneumococcal								
Rabies								
Rotavirus								
<b>Diluent:</b> If diluent is included in the vaccine packaging, store it between +2°C and +8°C. However, if diluent is supplied separately, it can be stored outside the cold chain but must be cooled before use, preferably for a day or for a period of time sufficient to ensure that the vaccine and diluent are both at temperatures between +2°C and +8°C when they are reconstituted. Never freeze diluent.								
Note that diluent/adjuvant for some pandemic influenza vaccines must be stored in the cold chain.								



## Vaccine distribution guidelines

### *Frozen water-packs*

WHO recommends that OPV and the single antigen freeze-dried (lyophilized) vaccines should be distributed in cold boxes or vaccine carriers, lined with frozen icepacks.

### *Conditioned ice-packs*

Field studies continue to show that vaccine freezing during transport remains one of the principal causes of damage to freeze-sensitive liquid vaccines in the cold chain. The use of 'conditioned' ice-packs has previously been recommended as the way to avoid this risk; however ice-pack conditioning is a time-consuming process and recent cold chain surveys have shown that the practice is difficult to enforce and is widely ignored. Note that the use of cardboard, newspaper or similar material to isolate freeze-sensitive vaccines from fully frozen ice-packs is completely ineffective as a means for preventing vaccine freezing.

### *Cool water-packs*

The only way to eliminate the freezing risk entirely is to transport liquid vaccines, other than OPV, in cold boxes lined with cool water-packs which have been pre-cooled in a refrigerator to a temperature of +2°C to +8°C. Where it is essential to transport OPV, liquid and freeze-dried vaccines in a single carrier, experiments have shown that cool water-packs may safely be used provided the cool life of the carrier is not exceeded. For current guidance on the performance and use of cool water-packs refer to Kartoglu U, Ganivet S, Guichard S, Aiyer V, Bollens P, Maire D, Altay B. *Use of cool water-packs to prevent freezing during vaccine transportation at the country level*. PDA Journal of Pharmaceutical Science and Technology, Vol. 63, No. 1, January–February 2009, 11-26.

Changing over to the use of cool water-packs involves significant changes in practice. In addition there are equipment implications because additional refrigerators will be needed at primary and sub-national level to cool the water-packs in bulk. Consequently it is strongly recommended that the introduction of this method should be preceded by a formal cold chain study based on [WHO/IVB/05.01](#): *WHO Study Protocol for Temperature Monitoring in the Vaccine Cold Chain*. The study design should aim to establish the extent of current problems and also the logistical and financial implications of the changeover to the use of cool water-packs.

### *Warm water-packs*

Field experience in cold climates has shown that it is necessary to protect freeze-sensitive vaccines from exposure to ambient temperatures below 0°C during transport. Unfrozen ice packs, stabilized at a room temperature between 10°C to 24°C, can be used for the transport of freeze-sensitive vaccines for a period not exceeding 8 hours. These vaccines are generally very heat stable and the short time (typically less than 8 hours) that they are subjected to these temperatures will not harm them. For fuller guidance refer to Figure 1.5.4.A of [WHO/IVB/04.18](#). *EVSM Module 2: Model Quality Plan*.

## Vaccine vial monitors (VVMs)

The majority of vaccines used in EPI are now supplied with VVMs. Guidance on their use can be found in the document [WHO/V&B/02.35](#) *Getting started with vaccine vial monitors*. Since this was written, VVMs have been shown to be a powerful tool for

managing the use of vaccines generally, and for preventing wastage in routine, outreach and campaign settings. In addition, many studies have shown that VVMs can enable the more heat-stable vaccines to be used safely beyond the cold chain.

### Refrigerants and foaming agents

Concerns over depletion of the stratospheric ozone layer have led to a global effort to phase out the production and consumption of chlorofluorocarbons (CFCs).

Subsequent concerns over global warming have reinforced the need to remove eliminate these substances because they are also potent greenhouse gases.

Until 1995, the CFCs, R11 and R12, were commonly used as refrigerant gases in compression refrigeration circuits and as foaming agents for the insulation of refrigerators and insulated containers (cold boxes and vaccines carriers).

Under the terms of the [Montreal Protocol](#), the international community has committed itself to the elimination of these gases. The Protocol called for the cessation of CFC consumption as of 1<sup>st</sup> January 1996 in industrialized nations and from 1<sup>st</sup> January 2010 in developing nations.

### Refrigerants

R12 is commonly replaced with HFC 134a. An increasing number of manufacturers are now using the hydrocarbon R600 (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.

In PQS performance specifications permit the use of HFC (hydrofluorocarbon) or HC (hydrocarbon) refrigerants in refrigerators and freezers. This is a change from the situation which applied under PIS, which did not allow the use of hydrocarbons. 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 R600 refrigerant is currently the best environmental choice.

### ODP and GWP figures for some key gases

Gas	Use	Ozone Depletion Potential (ODP)	Global Warming potential (GWP) <sup>a</sup>
R11	Refrigerant & foaming agent	1.0	4,680 <sup>1</sup>
R12	Refrigerant & foaming agent	1.0	10,720 <sup>2</sup>
R134a	Refrigerant	0.25	1,410 <sup>3</sup>
R600	Refrigerant	0.0	204
Cyclopentane	Foaming agent	0.0	11
R141b	Foaming agent (HCFC)	0.11	700

a. The GWP for CO<sub>2</sub> = 1.0

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<sup>1</sup> Source: Inter-governmental Panel on Climate Change (IPCC)

<sup>2</sup> Source: IPCC

<sup>3</sup> Source: IPCC

### *Foaming agents*

R11 is no longer used as a foaming agent by any of the industrialized country manufacturers listed in the 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 1<sup>st</sup> January 2004 and it will eventually be phased out worldwide in 2030). Because R141b has a much higher Global Warming Potential (GWP) than cyclopentane; the latter is 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:

1. Check that tools for the repair of CFC equipment is locally available and that cold chain technicians are trained.
2. Keep an inventory of CFC equipment and where it is installed.
3. Make sure 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 for a specific application. It then has to be assembled and commissioned on site by a competent installer. The end user must specify clearly what is required, must 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.

### E001.1 Cold rooms and freezer rooms

A building housing a cold room needs to be accessible to delivery vehicles and in good condition. It must have suitable finishes, adequate ventilation, and the correct electricity supply.

The steps involved in buying and commissioning a cold room are summarised below, together with links to the relevant reference documents.

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. DO NOT order on the basis of gross capacity – for example a 40 m<sup>3</sup> room – without verifying usable net capacity with the supplier.
2. *Decide location:* Select the spaces(s) in which the equipment is to be installed. [WHO/V&B/02.34: Guideline for establishing or improving primary and intermediate vaccine stores](#) provides guidance on building selection and preparation.
3. *Shortlist suppliers:* UNICEF Supply Division has long-term purchase agreements with PQS pre-qualified cold room companies. If the room is not being purchased through UNICEF, prepare a tender long list. This should preferably include the pre-qualified companies listed in the PQS catalogue. Establish which companies on the long list are able to provide, install, commission and service cold rooms and freezer rooms at the chosen site. Based on this information, make a short list. Every company on the short list should have a satisfactory arrangement with a competent installation contractor in the country where the equipment is to be installed and must be able to provide a long-term maintenance service.

4. *Prepare and invite tenders:* Prepare tender documentation using the PQS specification E001/CR/FR-01 and verification protocol E001/CR/FR-VP02 templates and invite tenders. If required, invite tenders for a standby generator and voltage stabilizer at the same time. Specific guidance on specifying and buying generators is given in section E01.2. Guidance on heavy duty voltage stabilizers is given in E01.3.
5. *Place order:* Receive and evaluate tenders, agree an installation programme, and place an order with the winning supplier.
6. *Prepare the site:* Prepare the space for the cold room in accordance with the supplier's requirements and the guidance link in point 2 above
7. *Supervise:* Supervise the installation and oversee commissioning and user training.
8. *Monitor:* Check the performance of the equipment in use and monitor the effectiveness of the maintenance agreement.
9. *Maintain:* Ensure that the maintenance agreement is renewed after the expiry of the initial contract. Ensure that the temperature monitoring equipment is re-calibrated annually. Refer to the [WHO/IVB/04.16-20: WHO-UNICEF Effective Vaccine Store Management Initiative](#), to [WHO/V&B/02.31: User's handbook for vaccine cold rooms and freezer rooms](#) and to [WHO/V&B/02.30: How to look after a cold room or freezer room: self-assessment tool](#).

## **E001.2 Standby generators**

WHO and UNICEF now 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 – see [WHO/IVB/04.16-20: WHO-UNICEF Effective Vaccine Store Management Initiative](#). In addition, 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, photovoltaic equipment, or equipment which runs on kerosene or bottled gas. The decision to purchase a standby generator should not be taken lightly since it involves an investment of several thousand dollars, together with significant maintenance and training costs.

### **E001.2.1 Specifying the generator**

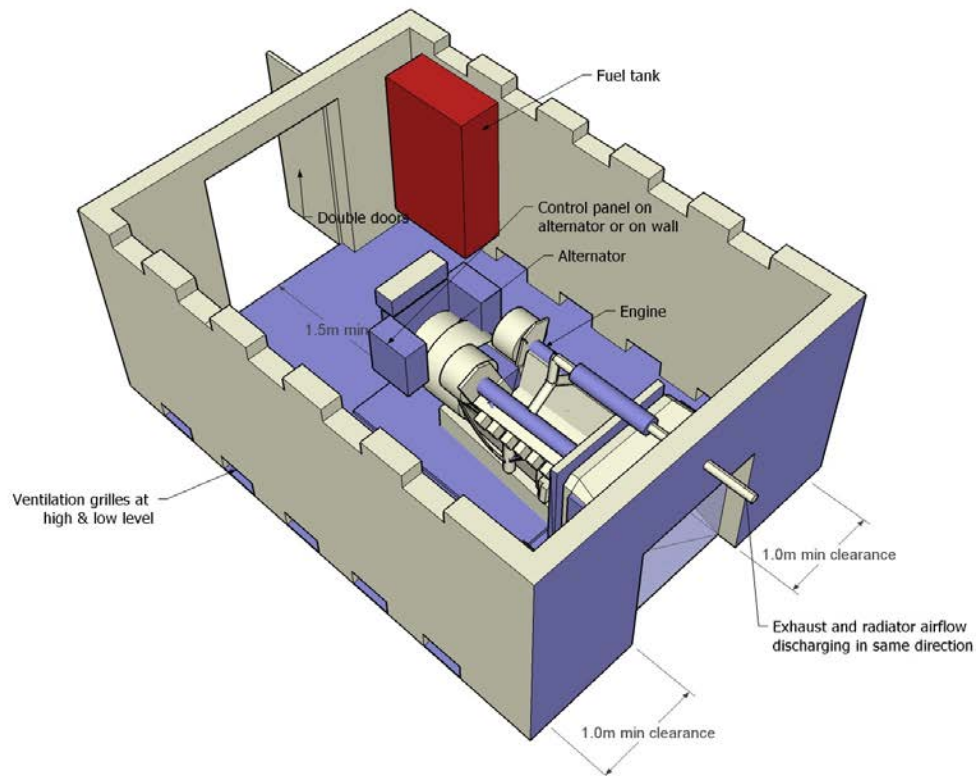
The guidance notes in this section are for background information only. They are intended to be used to brief a professional engineer and/or to communicate with system suppliers and installers. Wherever possible, the generator should be supplied by the cold room/freezer room manufacturer as part of a 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 worker*, available in hardcopy or CD format from [RedR](#)<sup>1</sup>

**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**



Adapted from *Engineering in emergencies*

The generator house should have a concrete floor slab. Provide 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, 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

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<sup>1</sup> The information which follows in this section is partly based upon Section 14.3.3 of *Engineering in Emergencies – A practical guide for relief workers*, 1<sup>st</sup> Edition, Intermediate Technology Publications, 2001.

equipment is to be installed and should be able to provide a long-term maintenance service or training for local technicians.

Tender invitations should 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.
4. *Payment arrangements*: Specify currency, payment stages, etc.
5. *Information to be supplied by tenderers*: Price (Incoterm). 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 – 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, etc.). 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, for example: 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 metres.
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*: Soundproofed 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 figure above.
13. *Fuel*: Diesel is universal on 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 – see next item.
16. *Control panel:* Integrated (set-mounted) or free-standing control panel. Integrated control panels must be mounted on anti-vibration mountings. Instrumentation to include: One ammeter per phase. One voltmeter and selector switch (to monitor each phase-phase and phase-neutral voltage). Frequency meter. Hours-run meter.
17. *Fuel tank capacity:* Sufficient to allow a minimum of 72 hours continuous running. Specify that it should be banded.
18. *Exhaust pipework:* Run length and bends needed to ensure discharge in a safe location.
19. *Spare parts:* **Either:** ensure that the supplier has an effective service network in-country. **Or:** order an adequate supply of spare parts and consumables, sufficient for a minimum of two year's normal operation, as recommended by the set manufacturer.
20. *Installation:* Specify whether the equipment is to be installed and commissioned by the manufacturer's in-country agent (strongly recommended), or by others.
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, arrange for the equipment to 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.

*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 1,800 RPM have longer working lives. Models running at 3,000 to 3,600 RPM are found to 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*

Inclusion in the following list does not imply any recommendation by the World Health Organization.

<b>The Americas</b> Cummins Power Generation 1400 73 <sup>rd</sup> Avenue. NE Fridley, MN 55432 USA Tel: +1 763 574 5000 Fax: +1 763 574 5282 Email: <a href="mailto:ask.powergen@cummins.com">ask.powergen@cummins.com</a> Web: <a href="http://www.cumminsonan.com">http://www.cumminsonan.com</a>	Lister Petter Ltd. Long Street, Dursley Gloucestershire GL11 4HS United Kingdom Tel: +44 (0)1453 544 141 Fax: +44 (0)1453 546 732 Email: <a href="mailto:sales@lister-petter.co.uk">sales@lister-petter.co.uk</a> Web: <a href="mailto:webmaster@lister-petter.co.uk">webmaster@lister-petter.co.uk</a>
<b>Europe</b> GENELEC SA Z.I. Nord Aranas 62, Rue du Nizerand 69400 Villefranche s/Saone France Tel: +33 (4) 74 62 65 05 Fax: +33 (4) 74 09 07 28 Email: <a href="mailto:genelec@genelec.tm.fr">genelec@genelec.tm.fr</a> Web: <a href="http://www.genelec.tm.fr">www.genelec.tm.fr</a>	FG Wilson Ltd. 1 Millennium Way Springvale Business Park Belfast Co. Antrim Northern Ireland BT12 7AL Tel: +44 (0) 28 9049 5000 Fax: +44 (0) 28 2826 1111 Web: <a href="http://www.fgwilson.com">http://www.fgwilson.com</a>
** Bruno S.R.L. S.S. 91 Km 0,600 I-8305 Grottaminarda (AV) Italy Tel: +39 0825 421005 Fax: +39 0825 426169 Email: <a href="mailto:dir@brunogenerators.it">dir@brunogenerators.it</a> Web : <a href="http://www.brunogenerators.it">www.brunogenerators.it</a>	<b>Western Pacific</b> Yanmar Web: <a href="http://www.yanmar.co.jp/en">http://www.yanmar.co.jp/en</a>
** Coelmo S.R.L. Agglomerato Industriale ASI I-80011 Accera (NA) Italy Tel: +39 081 8039 731 Fax : + 39 081 8039 724 Email: <a href="mailto:lgordano@coelmo.it">lgordano@coelmo.it</a> Web: <a href="http://www.coelmo.it">www.coelmo.it</a>	

\*\* Currently have a long-term purchase agreement (LTA) with UNICEF-SD

### **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  $\pm 7\%$  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 icepack 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 protector*. Some can only survive a limited number of surge events; 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 practise 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 allows 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 varies widely, with a design life of up to 50 years possible for highly critical applications. Large vaccine stores can hold hundreds of thousands dollars worth of vaccine and the cost of losing this inventory needs to be taken into account when choosing a voltage stabilizer and/or surge protector - it may be economically justifiable to install a more expensive system because 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. Within the parameters outlined above, it must also be affordable.

**Servo-mechanical voltage stabilizers** provide a reliable and economical method of stabilising 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:** There are a number of different tap-changing regulators on the market and 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 where a problem exists with the electricity supply to the site. 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, 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, 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 a 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, provide full details of the unit, including make, model, kVA rating, start method (manual or automatic mains-failure) and stop method (manual or mains-resumption).

#### *E001.3.4 Suppliers of voltage stabilizers*

Inclusion in the following list does not imply recommendation by the World Health Organization.

<b>The Americas</b> Eaton (was Best Power) 8609 Six Forks Road Raleigh, NC 27615 U.S.A. Tel: +1 919 872 3020 Email: <a href="mailto:powerquality@eaton.com">powerquality@eaton.com</a> Web: <a href="http://www.bestpower.com">www.bestpower.com</a>	Advance Electronics Ltd Advance Park Wrexham LL14 3YR United Kingdom Tel: +44 (0)1978 821000 Fax: +44 (0)1978 821 000 Email: <a href="mailto:sales@aelgroup.co.uk">sales@aelgroup.co.uk</a> Web: <a href="http://www.aelgroup.co.uk">www.aelgroup.co.uk</a>
<b>Europe</b> Claude Lyons Ltd. Brook Road Waltham Cross Hertfordshire EN8 7LR United Kingdom Tel: +44 (0) 1992 768 888 Fax: +44 (0) 1992 788 000 Email: <a href="mailto:info@claudelyons.co.uk">info@claudelyons.co.uk</a> Web: <a href="http://www.claudelyons.co.uk">www.claudelyons.co.uk</a>	Watford Control Instruments Ltd. 5 Godwin Road Corby, Northants NN17 4DS United Kingdom Telephone: 44 (1536) 401345 Fax: 44 (1536) 401164 Email: <a href="mailto:sales@watfordcontrol.co.uk">sales@watfordcontrol.co.uk</a> Web: <a href="http://www.watfordcontrol.co.uk">www.watfordcontrol.co.uk</a>

**E001 data sheets follow**



## E001: Cold rooms and freezer rooms

**PQS code:** E001/001  
**Description:** Cold rooms and Freezer rooms  
**Manufactured in:** Finland  
**Company:** Porkka Finland Oy  
Porkka Finland Oy  
Mukkulankatu 19  
**Address:** 15210 Lahti  
Finland

**Telephone:** +358-20 5555 12

**Email:** [petri.hiilloste@huurre.com](mailto:petri.hiilloste@huurre.com)

**Web address:** [www.porkka.fi](http://www.porkka.fi)

## Specifications

**Temperature zones:** Hot Temperate Cold

### ENCLOSURE CONSTRUCTION OPTIONS

<b>Cold room sizes:</b>	>10 m3	<b>Freezer room sizes:</b>	>10 m3
<b>Wall&amp;ceiling panel finish</b>	Polyester coated steel	<b>Panel insulation material:</b>	Polyurethane high density
<b>Floor panel finish</b>	Glassfiber re-enforced anti-slip plywood	<b>Panel thickness options:</b>	100mm (standard); 150mm (option)
<b>Mounting options:</b>	Wall	<b>Panel jointing system:</b>	Cam-lock jointing
<b>Shelving system:</b>	Adjustable shelves only	<b>Shelving material:</b>	Plastic

### EQUIPMENT OPTIONS

<b>Refrige. units options:</b>	- Monoblock - Split system -	<b>Refrigerant:</b>	R-404a
<b>Duty sharing:</b>	- Timed changeover - Manual changeover -	<b>Foaming agent:</b>	N-Pentane
<b>Plume guard:</b>	Yes	<b>Cold climate protection:</b>	Yes
<b>Door seal heater:</b>	Yes	<b>Auto-defrost:</b>	Yes
<b>Pressure valve:</b>	Yes	<b>Floor panel heater:</b>	Yes
<b>Voltage regulator:</b>	Yes	<b>Strip curtain:</b>	Yes
<b>Voltage options:</b>	Yes	<b>IEC 60335:</b>	Yes
<b>Cut-out system:</b>	Yes	<b>Surge protection:</b>	Yes

### TEMPERATURE MONITORING & ALARM OPTIONS:

<b>Temperature recording:</b>	- Dial thermometer - Event logger -	<b>Alarm system:</b>	Yes
<b>Comments:</b>	Can provide cold rooms larger than 40m3		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -	<b>ISO 14001:</b>	Yes
<b>Supplied regions:</b>	All	<b>Installation service:</b>	- Advisory service - Installer network -
<b>Warranty period:</b>	1 year	<b>Maintenance service:</b>	- Advisory service - Maintenance network -
<b>Current PQS status:</b>	pre-qualified 17 Aug 2010	<b>Valid until :</b>	May, 2024

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



## E001: Cold rooms and freezer rooms

<b>PQS code:</b>	<b>E001/002</b>
<b>Description:</b>	Cold rooms and freezer rooms
<b>Manufactured in:</b>	France
<b>Company:</b>	SN Zhendre 122 Avenue des Pyrénées 33140 Villenave d'Ornon France
<b>Address:</b>	
<b>Telephone:</b>	+ 33 (0)6 30 92 34 50
<b>Email:</b>	<a href="mailto:rhocquet@zhendre.com">rhocquet@zhendre.com</a>
<b>Web address:</b>	<a href="http://www.zhendre.com">www.zhendre.com</a>

## Specifications

**Temperature zones:** Hot Temperate Cold

### ENCLOSURE CONSTRUCTION OPTIONS

<b>Cold room sizes:</b>	>10m3	<b>Freezer room sizes:</b>	>10 m3
<b>Wall&amp;ceiling panel finish</b>	Galvanized steel 5/10 Iceberg white powdered-coated	<b>Panel insulation material:</b>	Polyurethane high density
<b>Floor panel finish</b>	Phenolic resin	<b>Panel thickness options:</b>	100 mm - 150 mm
<b>Mounting options:</b>	Wall Wall split	<b>Panel jointing system:</b>	cam-lock, 2 polyethylene joints onto the 4 edges of each panel
<b>Shelving system:</b>	Adjustable shelves only	<b>Shelving material:</b>	Steel

### EQUIPMENT OPTIONS

<b>Refrige. units options:</b>	- Monoblock - Split system -	<b>Refrigerant:</b>	R134A - R452A
<b>Duty sharing:</b>	- Manual changeover -	<b>Foaming agent:</b>	Polyurethane high density
<b>Plume guard:</b>	Yes	<b>Cold climate protection:</b>	Yes
<b>Door seal heater:</b>	Yes	<b>Auto-defrost:</b>	Yes
<b>Pressure valve:</b>	Yes	<b>Floor panel heater:</b>	No
<b>Voltage regulator:</b>	Yes	<b>Strip curtain:</b>	Yes
<b>Voltage options:</b>	Yes	<b>IEC 60335:</b>	Yes
<b>Cut-out system:</b>	Yes	<b>Surge protection:</b>	Yes

### TEMPERATURE MONITORING & ALARM OPTIONS:

<b>Temperature recording:</b>	- Dial thermometer -	<b>Alarm system:</b>	Yes
<b>Comments:</b>			
<b>Quality standard:</b>	- ISO 9001 -	<b>ISO 14001:</b>	Yes
<b>Supplied regions:</b>	All regions	<b>Installation service:</b>	- Advisory service - Installer network -
<b>Warranty period:</b>	1 year	<b>Maintenance service:</b>	- Advisory service - Maintenance network -

**Current PQS status:** pre-qualified 20 Apr 2011

**Valid until :**

May, 2024

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



## E001: Cold rooms and freezer rooms

<b>PQS code:</b>	<b>E001/003</b>
<b>Description:</b>	Cold rooms and freezer rooms
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Address:</b>	
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

**Temperature zones:** Hot Temperate Moderate

### ENCLOSURE CONSTRUCTION OPTIONS

<b>Cold room sizes:</b>	>10m3	<b>Freezer room sizes:</b>	>10 m3
<b>Wall&amp;ceiling panel finish</b>	Zinc polyester powdered coated	<b>Panel insulation material:</b>	Polyurethane
<b>Floor panel finish</b>	Rubber corrugated	<b>Panel thickness options:</b>	100 - 150 mm
<b>Mounting options:</b>	Wall Ceiling	<b>Panel jointing system:</b>	Tongue and groove, cam lock
<b>Shelving system:</b>	Adjustable shelves only	<b>Shelving material:</b>	Steel

### EQUIPMENT OPTIONS

<b>Refrige. units options:</b>	- Monoblock -	<b>Refrigerant:</b>	R 448a
<b>Duty sharing:</b>	- Manual changeover -	<b>Foaming agent:</b>	Polyurethane
<b>Plume guard:</b>	Yes	<b>Cold climate protection:</b>	No
<b>Door seal heater:</b>	Yes	<b>Auto-defrost:</b>	Yes
<b>Pressure valve:</b>	Yes	<b>Floor panel heater:</b>	Yes
<b>Voltage regulator:</b>	No	<b>Strip curtain:</b>	Yes
<b>Voltage options:</b>	Yes	<b>IEC 60335:</b>	Yes
<b>Cut-out system:</b>	Yes	<b>Surge protection:</b>	No

### TEMPERATURE MONITORING & ALARM OPTIONS:

<b>Temperature recording:</b>	- Event logger -	<b>Alarm system:</b>	Yes
<b>Comments:</b>	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		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -	<b>ISO 14001:</b>	Yes
<b>Supplied regions:</b>	All regions	<b>Installation service:</b>	- Advisory service -
<b>Warranty period:</b>		<b>Maintenance service:</b>	- Advisory service -
<b>Current PQS status:</b>	pre-qualified 25 Oct 2011	<b>Valid until :</b>	May, 2024

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





## E001: Cold rooms and freezer rooms

<b>PQS code:</b>	<b>E001/004</b>
<b>Description:</b>	Cold Rooms & Freezer Rooms
<b>Manufactured in:</b>	United Kingdom
<b>Company:</b>	FOSTER Refrigerator
<b>Address:</b>	Old Meadow Road, King's Lynn, Norfolk PE 30 4JU United Kingdom
<b>Telephone:</b>	+44 1553 780503 Mobile: +44 7342058765
<b>Email:</b>	<a href="mailto:export@foster-gamko.com">export@foster-gamko.com</a>
<b>Web address:</b>	<a href="http://www.fosterrefrigerator.co.uk">www.fosterrefrigerator.co.uk</a>

## Specifications

**Temperature zones:** Hot Temperate Cold

### ENCLOSURE CONSTRUCTION OPTIONS

<b>Cold room sizes:</b>	10m3	<b>Freezer room sizes:</b>	>10 m3
<b>Wall&amp;ceiling panel finish</b>	White foodsafe laminate on galvanised steel substrate	<b>Panel insulation material:</b>	High density CFC free polyurethane
<b>Floor panel finish</b>	Rigidised galvanised steel	<b>Panel thickness options:</b>	75 to 100 mm
<b>Mounting options:</b>	Wall Ceiling	<b>Panel jointing system:</b>	Cam locks at regular interval with factory cut corners
<b>Shelving system:</b>	Fixed shelves only	<b>Shelving material:</b>	Steel

### EQUIPMENT OPTIONS

<b>Refrige. units options:</b>	- Monoblock - Split system -	<b>Refrigerant:</b>	R404a
<b>Duty sharing:</b>	- Timed changeover - Manual changeover -	<b>Foaming agent:</b>	High density polyurethane
<b>Plume guard:</b>	Yes	<b>Cold climate protection:</b>	Yes
<b>Door seal heater:</b>	Yes	<b>Auto-defrost:</b>	Yes
<b>Pressure valve:</b>	Yes	<b>Floor panel heater:</b>	Yes
<b>Voltage regulator:</b>	Yes	<b>Strip curtain:</b>	Yes
<b>Voltage options:</b>	Yes	<b>IEC 60335:</b>	Yes
<b>Cut-out system:</b>	Yes	<b>Surge protection:</b>	Yes

### TEMPERATURE MONITORING & ALARM OPTIONS:

<b>Temperature recording:</b>	- Dial thermometer - Event logger -	<b>Alarm system:</b>	Yes
<b>Comments:</b>			
<b>Quality standard:</b>	- ISO 9001 -	<b>ISO 14001:</b>	Yes
<b>Supplied regions:</b>	All regions	<b>Installation service:</b>	- Advisory service - Installer network -
<b>Warranty period:</b>	1 Year	<b>Maintenance service:</b>	- Advisory service - Maintenance network -
<b>Current PQS status:</b>	pre-qualified 26 May 2015	<b>Valid until :</b>	May, 2023

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



## E001: Cold rooms and freezer rooms

<b>PQS code:</b>	<b>E001/005</b>
<b>Description:</b>	Cold rooms and Freezer rooms
<b>Manufactured in:</b>	Germany
<b>Company:</b>	Viessmann Kuhlssysteme GmbH
<b>Address:</b>	Dr.-Vießmann-Straße 1, 95030 Hof/Saale, Germany
<b>Telephone:</b>	+49 9281 814-417
<b>Email:</b>	<a href="mailto:dosf@viessmann.com">dosf@viessmann.com</a>
<b>Web address:</b>	<a href="http://www.kuehlen.viessmann.de">www.kuehlen.viessmann.de</a>

## Specifications

<b>Temperature zones:</b>	Hot Temperate Cold
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### ENCLOSURE CONSTRUCTION OPTIONS

<b>Cold room sizes:</b>	> 10m3	<b>Freezer room sizes:</b>	>10 m3
<b>Wall&amp;ceiling panel finish</b>	Polyester-Epoxid coated steel	<b>Panel insulation material:</b>	Polyurethane
<b>Floor panel finish</b>	Stainless steel with anti-slip finish	<b>Panel thickness options:</b>	80, 100, 120, 150 mm
<b>Mounting options:</b>	Wall Ceiling	<b>Panel jointing system:</b>	Cam-lock jointing
<b>Shelving system:</b>	Adjustable shelves only	<b>Shelving material:</b>	Steel

### EQUIPMENT OPTIONS

<b>Refrige. units options:</b>	- Monoblock - Split system -	<b>Refrigerant:</b>	R134a, R407A, R452A
<b>Duty sharing:</b>	- Timed changeover -	<b>Foaming agent:</b>	Pentane
<b>Plume guard:</b>	Yes	<b>Cold climate protection:</b>	Yes
<b>Door seal heater:</b>	Yes	<b>Auto-defrost:</b>	Yes
<b>Pressure valve:</b>	Yes	<b>Floor panel heater:</b>	Yes
<b>Voltage regulator:</b>	No	<b>Strip curtain:</b>	Yes
<b>Voltage options:</b>	Yes	<b>IEC 60335:</b>	Yes
<b>Cut-out system:</b>	Yes	<b>Surge protection:</b>	Yes

### TEMPERATURE MONITORING & ALARM OPTIONS:

<b>Temperature recording:</b>	- Dial thermometer -	<b>Alarm system:</b>	Yes
<b>Comments:</b>			
<b>Quality standard:</b>	- ISO 9001 -	<b>ISO 14001:</b>	Yes
<b>Supplied regions:</b>	All	<b>Installation service:</b>	- Advisory service -
<b>Warranty period:</b>	1 year	<b>Maintenance service:</b>	- Advisory service -
<b>Current PQS status:</b>	pre-qualified 06 May 2019	<b>Valid until :</b>	May, 2024

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



**TITLE: Portable alcohol stem thermometer**

<i>Specification reference:</i>	E06/TH03.1
<i>Product verification protocol:</i>	E06/TH03.VP.1
<i>Date of origin:</i>	30 November 2006
<i>Date of last revision:</i>	Replaces PIS specification E6/TH3 rev. 01.01.1998

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1. **Scope:**  
This specification describes the performance requirements for *alcohol stem thermometers*, principally for use in vaccine refrigerators and freezers.
2. **Normative references:**  
EMAS: *European Union Eco-Management and Audit Scheme*.  
IEC 60529: Consolidated Edition 2.1 (incl. am1): *Degrees of protection provided by enclosures (IP Code)*.  
ISO 9001: 2000: *Quality Management Systems – Requirements*.  
ISO 14001: 2004: *Environmental management systems - Requirements with guidance for use*.  
ISO 2859-1: 1999: *Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*.
3. **Terms and definitions:**  
**AQL:** Acceptance Quality Limit (ISO 2859-1).  
**In writing:** means communication by letter, fax or email.  
**Legal Manufacturer:** The natural or legal person with responsibility for the design, manufacture, packaging and labeling of a product or device before it is placed on the market under his own name, regardless of whether these operations are carried out by that person himself or on his behalf by a third party.  
**Montreal Protocol:** Montreal Protocol on Substances that Deplete the Ozone Layer.  
**Reseller:** A commercial entity, licensed to act on behalf of a **Legal Manufacturer**, and which carries product liability and warranty responsibilities no less onerous than those carried by the Legal Manufacturer.
4. **Requirements:**
  - 4.1 **General:** Portable alcohol stem thermometer suitable for monitoring storage temperatures in vaccine refrigerators and freezers. These devices may also be used for supplementary temperature measurement in freezer rooms, cold rooms, and air-conditioned rooms used for storing vaccine in the vaccine cold chain.
  - 4.2. **Performance:**
    - 4.2.1 **Operating temperature range:**  
Upper limit: +50°C with over-range protection as clause 4.3.1.  
Lower limit: -30°C with under-range protection as clause 4.3.1.
    - 4.2.2 **Accuracy:** ±1.0°C or better within the range -30°C to +20°C
    - 4.2.3 **Resolution:** ±0.5°C or better within the range -30°C to +20°C
    - 4.2.4 **Sensor:** Coloured alcohol in glass column.
    - 4.2.5 **Unit of measurement:** Temperatures must be displayed in degrees Centigrade only.
    - 4.2.6 **Calibration:** Lot inspection in accordance with AQL procedures as defined in ISO 2859-1: 1999.

- 4.2.7 *Casing*: Non-corrodible plastics or metal case. The glass column must be protected against breakage and strongly supported so that the column cannot be displaced more than 0.5 mm vertically with respect to the scale
- 4.2.8 *IP rating*: Protection of the product not less than [IEC 60529](#): IP67.
- 4.3 *Environmental requirements*:
- 4.3.1 *Ambient temperature range during transport*: -50°C to +55°C.
- 4.3.2 *Ambient humidity range during transport and use*: 0 to 95% RH.
- 4.3.3 *Impact resistance*: Product to withstand 5 drops from 1 metre onto a concrete floor without physical damage or loss of calibration.
- 4.3.4 *Vibration*: Product to withstand 30 minutes on a programmable vibrating table without physical damage or loss of calibration.
- 4.4 *Physical characteristics*:
- 4.4.1 *Overall dimensions*: Maximum 200 x 25 x 25mm.
- 4.4.2 *Weight*: Not critical, provided the product is fully portable.
- 4.5 *Interface requirements*: None.
- 4.6 *Human factors*:
- 4.6.1 *Temperature display*:
- Easily readable centigrade scale with a minimum space of 1 mm between each line:
  - Long lines with numbers: for each 10 degrees.
  - Short lines: for even numbered degrees.
  - Shorter lines: for odd numbered degrees.
  - Below zero temperature range indicated with a minus sign.
  - Above zero temperature range indicated with a plus sign.
  - Safe zones for ranges of 2°C to +8°C and -15°C to -25°C to be marked with a solid bar.
  - Numeral size: 2 mm high minimum.
  - Font: high-legibility font.
  - Reading angle: between 80 and 100° to the plane of the support plate.
  - Colour of markings: dark blue or black on a white background.
- 4.6.2 *Mounting device*: The following options are acceptable:
- Hanging hook with minimum 8.0mm throat to hook over the rim of a refrigerator/freezer basket.
  - Rubber sucker.
- The position of the mounting device must not prevent the temperature scale from being clearly visible in a suitable reading plane.
- 4.7 *Materials*: No specific requirements subject to achieving adequate robustness.
- 4.8 *Warranty*: The product is to be covered by a one year replacement warranty in the event of any failure not caused by mechanical damage.
- 4.9 *Servicing provisions*: The product is to be maintenance-free.
- 4.10 *Disposal and recycling*: No requirement.

- 4.11 Instructions: None required
- 4.12 Training: No requirement.
- 4.13 Verification: In accordance with PQS Verification Protocol **E06/TH03.VP.1**
- 5. Packaging:**  
Materials used for packaging the finished product are to be free of ozone-depleting compounds as defined in the [Montreal Protocol](#).
- 6. On-site installation:**  
Not applicable.
- 7. Product dossier:**  
The [legal manufacturer](#) or [reseller](#) is to provide WHO with a pre-qualification dossier containing the following:
- Dossier examination fee in US dollars.
  - General information about the [legal manufacturer](#), including name and address.
  - Unique identification reference for the product type.
  - Full specifications of the product being offered, covering all the requirements set out in this document, including details of product marking and traceability.
  - Details of the [legal manufacturer's](#) internal [AQL](#) sampling procedures in respect of ISO 2859-1: 1999.
  - Certified photocopies of all type-approvals obtained for the product, including CE marking and the like.
  - Certified photocopies of the legal manufacturer's ISO 9001 2000 quality system certification.
  - Where relevant, certified photocopies of the legal manufacturer's ISO 14001 certification, EMAS registration or registration with an equivalent environmental audit scheme. Conformity with an environmental audit scheme is not mandatory; however preference will be given to manufacturers who are able to demonstrate compliance with good environmental practice.
  - Where available, laboratory test report(s) proving conformity with the product specifications.
  - One sample of the product complete with accessories and carrying case.
  - Indicative cost of the product per 100 units, per 1,000 units and per 10,000 units EXW (Incoterms 2000).
- 8. On-site maintenance:**  
Not applicable.
- 9. Change notification:**  
The [legal manufacturer](#) or [reseller](#) is to advise WHO [in writing](#) of any changes which adversely affect the performance of the product after PQS pre-qualification has taken place.

**10. Defect reporting:**

The [legal manufacturer](#) or [reseller](#) is to advise WHO and the UN purchasing agencies [in writing](#) in the event of safety-related product recalls, component defects and other similar events.

Revision history:

Date	Change summary	Reason for change	Approved
14 Mar 06	Specification redrafted. Normative references, definitions and additional clauses added.	To achieve conformity with PQS documentation standards	UK
21 Sep 06	4.2.1: 'over-range protection' added. 4.3.1: Upper limit changed to 55°C. 5: 'CFC@ changed to 'ozone-depleting.	Corrections. Consistency with other specifications during final review.	UK (30 November 2006 - PQS secretariat)





PERFORMANCE QUALITY SAFETY



## E002: Refrigerated vehicles

<b>PQS code:</b>	<b>E002/001</b>
<b>Description:</b>	Refrigerated Vehicle
<b>Manufacturer's ref:</b>	CF850
<b>Manufactured in:</b>	Japan
<b>Company:</b>	Toyota Tsusho Corporation
<b>Address:</b>	2-3-13 Konan Minato-ku Tokyo 108-8208 Japan
<b>Telephone:</b>	+81-3-4306-5686
<b>Email:</b>	<a href="mailto:ko_nakagawa@toyota-tsusho.com">ko_nakagawa@toyota-tsusho.com</a>
<b>Web address:</b>	<a href="http://www.toyota-tsusho.com">www.toyota-tsusho.com</a>



[illegible]

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**Supplied:** For chassis: Toyota Land Cruiser 78

**Yes**

**l/m2/°C or** Yes

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**electric** Yes

**ng:** Petrol backup cooling

**in** Yes

**lable:**  
2 x 4

**racking:** No

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**overnight:** Yes

**ible** Yes

Foldable stacking boxes

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**Montreal** Yes  
**igerant gas**

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**Valid until:** May, 2022

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# E003

## Refrigerators and freezers

The PQS specifications require better temperature control than was previously the case. These changes are mainly intended to reduce the risk of accidental freezing of vaccines stored in refrigerators and to eliminate the need for thermostat adjustment on electric compression cycle appliances. These and other changes from the earlier PIS specifications are detailed below.

### E003.1 Refrigerator and freezer technologies

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

Electricity may be supplied from the mains, from an electric generator or from renewable energy sources; typically solar power supplied from a photovoltaic array (with or without storage batteries). Most electric refrigerators are vapour-compression cycle units, of which the ice lined refrigerator (ILR) is a special type.

Absorption cycle refrigerators use heat to produce refrigeration. Most absorption units burn LP gas or kerosene. Some operate with electric resistance heating and combination units can use fuel or electricity in the same refrigerator.

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

#### Refrigeration options

Refrigeration cycle and energy source	Thermostatic control	Routine maintenance	Overall cost	Other remarks
Compression cycle with reliable electricity	Good	Very little required.	Low	Voltage regulator required when voltage varies widely.
Compression cycle ILR with intermittent electricity	Good	Very little required	Low	Voltage regulator required when voltage varies widely.
Solar electricity/ direct drive compression cycle	Good	Routine solar module maintenance	Medium	Requires an established solar service network and good solar site evaluation.
Solar electricity/ battery powered compression cycle	Good	Routine battery and solar module maintenance	High	Requires an established solar service network and good solar site evaluation. Essential to plan for and provide funding

Refrigeration cycle and energy source	Thermostatic control	Routine maintenance	Overall cost	Other remarks
				for battery replacement.
Absorption cycle/ electric	Good	Little required	Medium	Requires frequent replacement of heating element when voltage varies widely, unless a voltage regulator is used. Consumes significantly more electricity than compression cycle equivalents.
Absorption cycle/ LP gas	Partial	Little required	Medium	Pilot flame can cause excessive cooling in low ambient temperatures.
Absorption cycle/ kerosene	None*	Frequent cleaning and adjustment of wick and flue	High	Kerosene needs to be filtered before use.

\* No thermostat control. Wick must be manually adjusted day and night to control internal temperature when external temperatures vary or when icepacks are being frozen. WHO prequalification for this type of refrigerator is phased out.

## E003.2 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 mains, a generator or from a renewable energy source such as solar power, with or without a battery pack. 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 pre-qualified 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 manufacturers' 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 PQS has introduced a grading scale A, B and C where 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 users' interventions such as thermostat adjustment or misplacement of vaccines in the refrigerator compartment.

**Low-energy chest freezers:** These units are used to store OPV in bulk. Typically they are used in smaller primary stores, where a freezer room is not justified, and at intermediate level. They can also be used to freeze water-packs and/or to store frozen icepacks.

**WARNING:** A freezer containing vaccine should never be used to freeze water-packs at the same time.

**Rapid water-pack freezers:** There are two types of rapid waterpacks freezer; front loading upright units and chest freezers with fast freeze sections – the fast-freeze section is used to freeze the waterpacks and the remainder of the cabinet is used to store them when frozen. These units are particularly useful when large quantities of icepacks are needed in a short time.

### *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 +10°C for at least 4 hours.

#### *E003.2.1.2 Ice-lined refrigerators (ILR)*

Most ILRs can maintain acceptable temperatures below +10°C on as little as 8 hours of electricity per 24 hours, day after day. Ice-lined refrigerators are the best choice wherever there is at least 8 hours electricity a day, but no standby power supply.

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 icepacks. 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 re-frozen or re-cooled.

Other new ILR-like products make novel use of chilled water and ice combined. These refrigerators can operate on fewer hours of power per day and provides over 10 days of acceptable temperature control without electricity, when fully charged. 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 re-freezing process, some areas of an ILR can fall below 0°C – for example, 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: [WHO/IVB/05.01](#): *WHO Study Protocol for Temperature Monitoring in the Vaccine Cold Chain*.

#### *E003.2.2 Solar refrigerators and freezers<sup>1</sup>*

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. 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 systems 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.

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<sup>1</sup> For more information on solar refrigeration consult the WHO/UNICEF Guide: Introducing solar-powered vaccine refrigerator and freezer systems, a guide for managers in national immunization programmes



- 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 must be physically secure because theft of solar modules and batteries is a growing problem.
- 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.

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 ordered.

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. 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 battery-powered solar 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 now 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 consistently be reached 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 pre-qualified under 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 PQS equipment specifications and is suitable for the site specific climate. Before buying a large quantity of equipment, a pilot study with one or few systems is to be conducted in order to assess the installation feasibility and the good working conditions in country.
3. *Solar direct drive installations:* Close attention to the warning given below should be paid.
4. *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 specification PQS E003 PV01.
- The site for 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

ONLY proceed if all of these conditions can be met.

5. *Site preparation:* The solar site evaluation may show that preparatory building works are required to make the site safe and suitable. If this is so, make arrangements to carry out this work before the equipment is delivered.
6. *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).
7. *Installation:* It is essential that the equipment be installed and commissioned in accordance with the relevant PQS Quality Assurance protocol: PQS PV01-VP2 *Solar power system for compression-cycle refrigerator or combined refrigerator/water-pack freezer.*
8. *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 PQS pre-qualified 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 which power the vaccine refrigerator must be used for this purpose alone. If there is a need for additional photovoltaic power on the site – for example 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.

PQS is currently working on Solar Energy Harvest Controller specifications. These devices will provide the possibility to use some extra energy supplied by solar arrays, while securing the power to the appliance.

**SOLAR DIRECT DRIVE WARNING:** PQS pre-qualified equipment may only be used within the limits stated on the relevant PQS 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 PQS sheet, or a larger array, may safely be used.

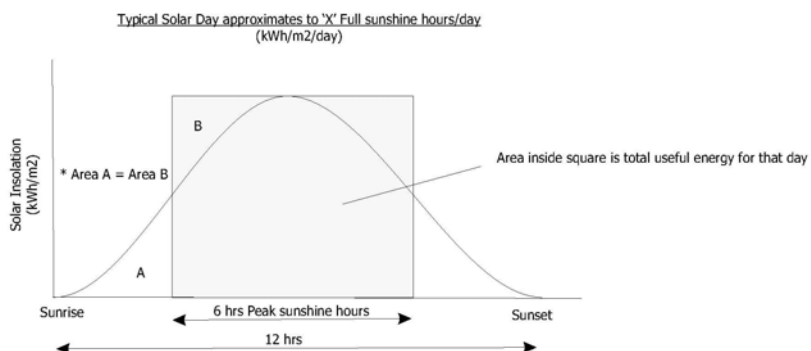
The solar direct drive refrigerators listed in this catalogue are laboratory tested over a specific ambient temperature range using a specific solar diurnal power cycle.

Establishing the correct size of the photovoltaic array for a solar direct drive refrigerator installation **cannot** be done by the purchasing agency. Both ambient temperature and solar power interact in complex ways and correct site-specific sizing requires a high level of technical expertise. The diagrams below illustrate this point.

Any changes to array components **must always** be done by the photovoltaic power system supplier working closely with the manufacturer of the direct drive refrigerator and checked and approved by WHO.

The diagram below illustrates a typical power curve for a solar refrigerator with batteries. In this example, all the solar energy under the curve is useful energy and can be used to charge the battery pack; the shaded area approximates this useful energy, and the curve represents the varying sunshine levels over the whole day.

### Typical power curve for solar refrigerator with batteries



Typically solar energy is expressed as Peak Sunshine Hours often ranging from 3.5 hrs to 6 hrs. The units for this are kWh/m<sup>2</sup>/day. So although there may be 12 hours of 'daylight' the energy from all of this is the same as 6 hours of midday sunshine.

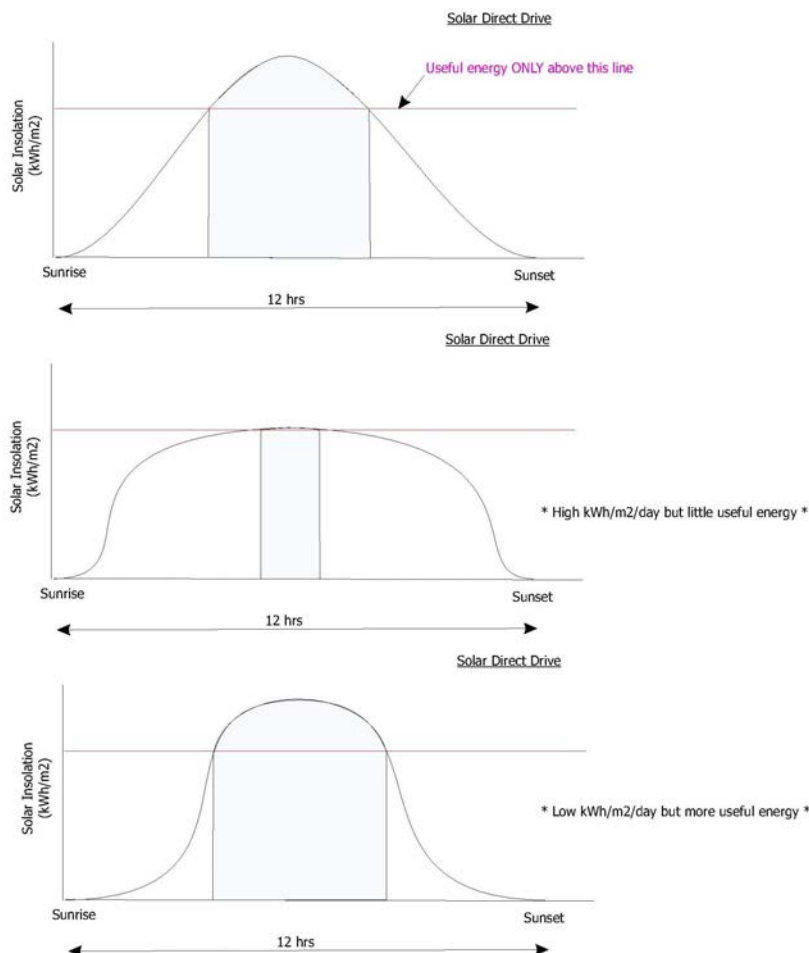
This approximation is so commonly used for solar refrigerators with batteries that it may be confusing when considering a direct drive solar refrigerator.

With a direct drive unit, a certain minimum power is needed to start the compressor motor. The three diagrams below illustrate how a direct drive refrigerator can only operate when the available power from the solar arrays is above the horizontal line which represents this starting load – this is usually a shorter period than for a battery operated unit. Below this minimum power threshold, the refrigerator cannot operate.

In the second example, although solar energy is well distributed over most of the day, only a tiny fraction exceeds the required minimum threshold. In this case a significantly larger solar panel would be needed to power the refrigerator.

In addition, because the power output of the solar panel and the performance of the refrigerator are both affected by ambient temperature<sup>2</sup>, there are many complex interactions which have to be considered in the overall design for a particular site.

### Power curves for solar direct drive



Source: True Energy Ltd

<sup>2</sup> Power output reduces as the temperature of the photovoltaic panel increases. Some solar direct drive units do not reliably maintain +2°C to +8°C at lower room temperatures.

### E003.3 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. There is no justification for selecting absorption equipment which runs on electricity alone.

Absorption refrigerators are driven by heat, either from an electric element, a gas flame or a kerosene wick burner. Some models combine an electrical element with either gas or kerosene which allows alternative energy sources to be used. The temperature inside an electric or gas unit is controlled automatically by a thermostat. Although the height of the gas flame is controlled by a thermostat device, the minimum 'pilot' flame can still generate storage temperatures low enough to damage freeze-sensitive vaccines when the outside ambient temperature falls below +20 °C.

Kerosene units have no thermostat; instead the temperature is controlled manually by adjusting the wick of the kerosene burner up or down.

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. Separate systems consisting of a refrigerator and a freezer use more fuel, but can freeze the greatest quantities of icepacks and they do provide more reliable temperature control for vaccines.

**WARNING:** LP gas refrigerator pilot lights can freeze vaccines when used in cooler temperatures.

**WARNING:** Kerosene refrigerators have no automatic temperature control requiring vigilant attention in order to provide acceptable vaccine storage temperatures and avoid freezing. They require regular maintenance, including filtering the fuel.

**WARNING:** Incorrect use of kerosene refrigerators can lead to fire hazards and explosions. It is absolutely essential that the manufacturer's instructions are strictly followed. Users must receive adequate training before they are allowed to operate these refrigerators.

**WARNING:** Absorption refrigerators must always stand firm and level otherwise they will not operate correctly.

**WARNING:** Operating costs can be higher with absorption refrigeration than with most other options.

### E003.4 Domestic refrigerators and freezers

**WARNING:** Domestic compression refrigerators and freezers should never be used to store vaccines unless they have been tested against the relevant PQS verification protocol and found to be satisfactory for the setting in which they are intended to be used.

#### E003.4.1 Domestic refrigerators

Many countries purchase locally manufactured standard front-opening domestic refrigerators for storing EPI vaccines. This has procurement and maintenance advantages, but a number of serious performance shortcomings can compromise the cold chain and cause loss of vaccine.

**WARNING:** *'Multi-flow' models:* Models of this type are completely unsuitable because they are known to freeze vaccine. Multi-flow units always have a double door freezer/refrigerator combination with the freezer compartment at the top. The

refrigerator compartment is cooled with sub-zero air ducted down from the freezing compartment. They have two controls: a thermostat that controls the temperature in the freezer and a 'Thermo' control that adjusts the volume of freezing air that enters the refrigerator cabinet. If vaccine is placed in this air stream, it will freeze.

**WARNING:** *Single door models with internal freezer compartments:* These models may be adequate for use in moderate climates where there is a permanent electricity supply. However, they do have some serious disadvantages.

- Temperatures often fall below freezing in the zone close to the freezing compartment and/or at the bottom.
- Cabinets and doors are usually poorly insulated and are not designed to maintain the temperature range recommended for vaccine storage. Doors are fitted with shelves as well as egg and butter compartments and food drawers may be located at or near the bottom. These subsidiary storage areas are convenient to use, but are totally unsuitable for vaccines.
- Temperatures quickly rise above +8 °C when the electricity fails, and during water-pack freezing.
- Non-tropicalized models will not operate well in high ambient temperatures.

#### *E003.4.2 Domestic freezers*

When icepack freezing capacity alone is required, domestic freezers have advantages when compared to PQS prequalified equipment: they usually cost less to purchase, can be procured locally without foreign currency, are delivered more quickly, spares are stocked nationally or even locally, and technical expertise is more readily available. In addition, domestic freezers located in non-health service facilities such as restaurants, shops, etc., can be used to supply ice for outreach, mobile sessions and mass immunization activities.

#### **E003.5 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 – for example, mountain regions – may require equipment with a different temperature rating than other parts<sup>3</sup>.
  - *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 and the like .
    - 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 – for example, 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

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<sup>3</sup> City-level climate data are available at: <http://www.weatherbase.com> or [www.wolframalpha.com](http://www.wolframalpha.com)

temperatures. Currently there are no models available with active low-temperature protection which can operate at temperatures below +5 °C.

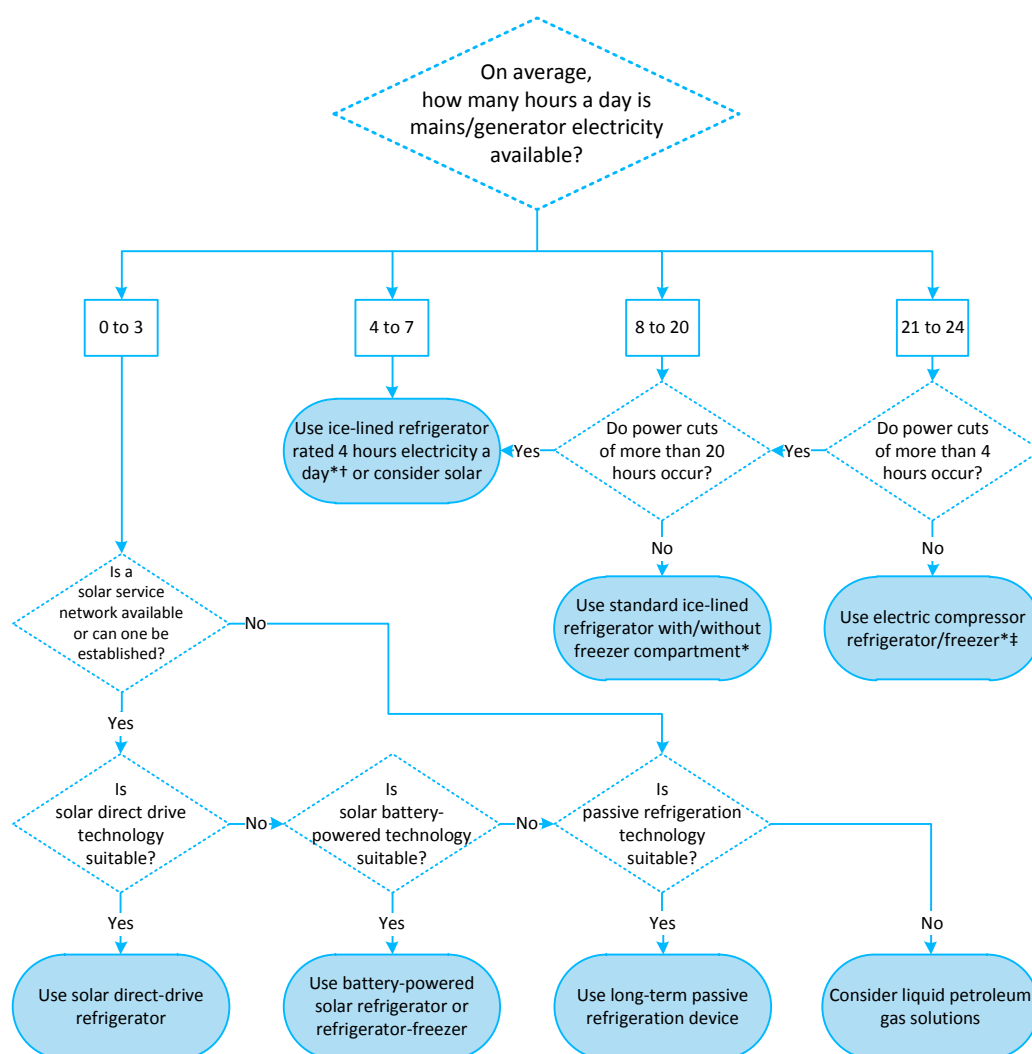
### Temperature zone selection

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

2. **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.
3. **Water-pack freezing capacity:** If icepacks are required assess how many water-packs need to be frozen per 24 hours in each setting. Choose rapid waterpack freezers when large quantities of packs need to be frozen quickly. 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 waterpacks are used, lower cost, locally available refrigerators are perfectly adequate, so long as they are never used to store vaccine.
4. **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 and gas are currently the only alternatives where mains electricity absent, or is available for less than eight hours per day. The flowchart below outlines the decision process:



## 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 +10°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

### 5. **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' 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 regulator:** Unless mains electricity is highly reliable, order a voltage regulator for all mains or generator powered equipment – see section E001. Note that some suppliers include a voltage regulator either integrated in the device or bundled with the device.

- *Temperature monitoring equipment:* PQS specifications require all vaccine refrigerators and freezers, whatever the power source, to be supplied with an external reading thermometer. In addition, for reliable continuous temperature monitoring, every vaccine refrigerator should preferably be equipped with a 30-day electronic refrigerator temperature logger. See section E006. Alternatively, use a freeze indicator device to detect freezing temperatures. Note that freeze indicators need to be replaced each time an alarm is triggered and refrigerator temperature logger 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. It is to be noted that future appliances will have integrated remote temperature monitoring devices as an option.
  - *Manuals:* Order user and service manuals in the appropriate language.
6. **Training:** Ensure that users and maintenance technicians are properly trained to use the specific equipment that you order. All photovoltaic 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.
  7. **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. Remember that, at any one time, a refrigerator may be storing vaccine worth several times the cost of the equipment. For example, a 100 litre refrigerator filled with pentavalent vaccine could be storing vaccine worth \$30-40,000. Over a 10 year life, with three-monthly deliveries, the total value of vaccine passing through the appliance could amount to more than one million dollars.

### **E003.6 PQS specification changes**

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

#### *E003.6.1 General*

PQS now allows the appliance to be either a refrigerator only or a combined refrigerator/waterpack freezer.

#### *E003.6.2 Temperature control*

**Vaccine compartment temperature range:** The acceptable temperature range for storing vaccine is +2°C to +8°C. However, transient excursions outside this range will be tolerated, within the following limits:

- No excursion must exceed +20°C ( $\pm 0.5^\circ\text{C}$ ) for any amount of time.
- No excursion must drop below -0.5°C for any amount of time.
- No excursion must drop below 0°C for longer than 1 hour.
- Following an excursion below 0°C, the appliance must return to acceptable temperature range (i.e., consistently between +2°C and +8°C) within 2 hours. This duration will be measured from the moment the temperature drops below 0°C and up until it returns to +2°C.

For refrigerator testing the cumulative effect of any excursions within the above range will be assessed by calculating the mean kinetic temperature (MKT), a calculation method to account for the impact of both temperature excursions and the amount of time of each temperature excursion. This is measured over the 5 day period of day/night tests.

#### **Freeze-protection:**

PQS defines limits for internal lining temperature range as follows:

**Temperature range on walls/lining of vaccine compartment:** For sensors placed in direct contact with the walls/lining of the vaccine compartment, freezing temperature is defined as any of the following conditions:

- Excursion between -0.5°C and 0°C for longer than 1 hour.
- Excursion equal to or below -0.5°C for any amount of time.
- Inability to return to acceptable temperature range (i.e., consistently between +2°C and +8°C) within 2 hours following an excursion equal to or below 0°C.

#### **Freeze-protection classification:**

Devices are classified with Grade A, B or C as follows:

- **Grade A**, user-independent freeze protection (UIFP): When the appliance is used within its nominated temperature range (temperature zone +43°C, +32°C or +27°C and minimum rated ambient temperature) there is no user-intervention required to ensure that the vaccines will not be exposed to temperatures below 0°C whatever the position of the vaccine in the vaccine storage compartment.
- **Grade B**, user-dependent freeze protection (UDFP): Even if the appliance is used within its nominated temperature range, the user must comply with a procedure provided by the manufacturer and requiring one level of user-intervention (e.g., the requirement to use baskets or other items) in order to avoid vaccine freezing.
- **Grade C**, user-dependent freeze protection (UDFP): Even if the appliance is used within its nominated temperature range, the user must comply with a procedure provided by the manufacturer requiring more than one level of user-intervention in order to avoid vaccine freezing. (e.g., the requirement to use baskets and insulation barriers or covers).

**Temperature control in refrigerators:** Only non-adjustable thermostats are now permitted in compression refrigerators. These must be factory-set to prevent freezing in any part of the refrigerator. Incorrect thermostat adjustment is a common cause of vaccine freezing and the new electronic thermostats eliminate the need to change the setting.

#### *E003.6.3      Temperature zones*

**Hot zone:** Hot zone appliances must operate at a steady +43°C ambient temperature and over a +43°C/+25°C day/night cycling temperature range. Hot zone equipment may be used in a moderate and/or temperate zone. All PQS appliances are now first tested at +43°C and optionally at other temperatures.

**Temperate zone:** Temperate zone appliances must operate at a steady +32°C ambient temperature and over a +32°C/+15°C day/night cycling temperature range (unchanged). Temperate zone equipment may be used in a moderate zone.

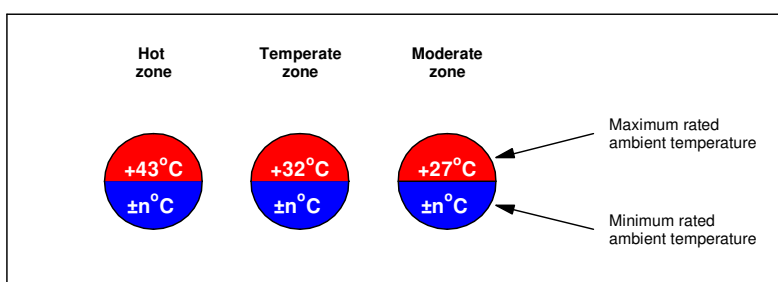
**Moderate zone:** There is a new category of ‘moderate zone’ appliances which must operate at a steady +27 °C ambient temperature and over a +27 °C/+10 °C day/night cycling temperature range.

**Minimum rated ambient temperature:** Note that the previous cold zone (+32 °C/-5 °C) category has been omitted. Instead, all hot, temperate and moderate zone refrigerators or combined refrigerator/water-pack freezers are tested to determine their *minimum rated ambient temperature*. The lowest possible rating is an ambient temperature of -10 °C and appliances without an active low temperature protection features cannot be rated below +5 °C.

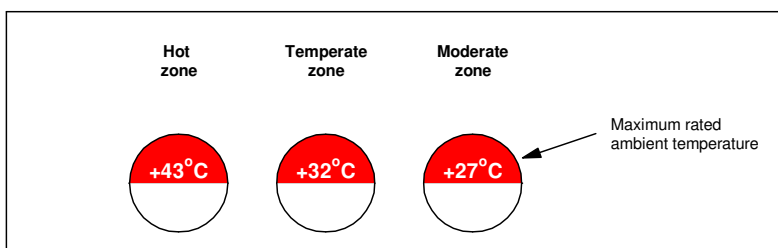
#### E003.6.4 Refrigerator temperature zone symbols

New symbols have been introduced to identify six general combinations of temperature zone and low temperature protection. For refrigerators, the upper semi-circle shows the maximum rated ambient temperature. If exposed to temperatures above this, the equipment will not maintain the vaccine at +2 °C to +8 °C. The lower semi-circle shows the minimum rated ambient operating temperature established by testing. If the equipment is exposed to temperatures below this figure, the vaccine will be at risk of freezing. The freezer symbols have a blank lower semi circle because minimum rated ambient temperature is not relevant.

#### Temperature zone symbols for vaccine refrigerators



#### Temperature zone symbols for vaccine freezers



#### E003.7 Recent and future developments

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

Solar direct drive freezers are now available.

Eutectic packs (phase change materials) that freeze at positive temperatures (e.g. +5 °C) may be used instead of an ice-lining to prevent vaccine freezing. This technology will provide more cooling capacity than a lining consisting of unfrozen cool water-packs. PQS will publish a list of potential usable PCMs.

Passive refrigeration option is now available for stationary use (see E004 section). This may require some form of coolant to be added periodically (e.g. weekly or monthly replenishment of ice).

Countries that wish to use locally made domestic vapour-compression refrigerators and freezers are now encouraged to laboratory test these products against the relevant PQS standards. This will help to identify potential problems before deployment takes place.

**E003 data sheets follow**



PERFORMANCE QUALITY SAFETY

**E003:****Refrigerators and freezers**

<b>PQS code:</b>	<b>E003/002</b>
<b>Type of appliance:</b>	Vaccine/waterpacks freezer
<b>Manufacturer's reference:</b>	HBD 116
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

**Specifications**

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	N/A
<b>Refrigerant:</b>	R134a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	82 x 67 x 63 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

REFRIGERATOR	FREEZER	Freeze protection: N/A
<b>Vaccine storage capacity: (Litres)</b>	none	
<b>Gross volume (Litres):</b>	none	<b>Gross volume:</b> 121 L
<b>Holdover time (hours):</b>	2 hours 29 mn	<b>Waterpack freezing capacity:</b> 12 kg/24 h
<b>Energy consumption, stable running (kWh/24 hours):</b>	0.38 kWh / 24 h	136 x 0.6 L
		<b>Waterpack storage capacity:</b>
<b>Energy consumption, cool down test (kWh/24 hours):</b>		<b>Energy consumption during freezing:</b> 3.77 kWh/24h

**Comments:**

<b>Accessories:</b>	Instruction manual; Keys; Tray		
<b>Spare parts (ref, price):</b>	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor - Part No. 0070701331 1 No. Thermostat - Part No. 0074091494E 1 No. Dry filter - Part No. 0074180002A 1 No. Fan - Part No. 0075030020 1 No. Switch - Part No. 0075050003 1 No. Thermo sensor - Part No. 0074091494C  Other parts are available as spares on request.		
<b>Shipping volume:</b>	0.5 m3	<b>Shipping weight:</b>	79 kg
<b>Price year</b>	2021	<b>Incoterms</b>	EXW
<b>Price</b>	1-100units USD 550	>100units USD 530	
<b>Quality standard:</b>	- ISO 13485 - ISO 14001 -		<b>Specification ref.</b>
<b>Verification report:</b>	WB-09-145	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	<i>pre-qualified: 24 Sep 2009</i>		<b>Validity until:</b> May, 2024

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



PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/003</b>
<b>Type of appliance:</b>	Vaccine/waterpacks freezer
<b>Manufacturer's reference:</b>	HBD 286
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	N/A
<b>Refrigerant:</b>	R134a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	81.8 x 124 x 63 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

REFRIGERATOR		FREEZER	Freeze protection: N/A
<b>Vaccine storage capacity: (Litres)</b>	---		
<b>Gross volume (Litres):</b>	---	<b>Gross volume:</b>	298 L
<b>Holdover time (hours):</b>	4 hours 9 mn	<b>Waterpack freezing capacity:</b>	16.8 kg/24 h
<b>Energy consumption, stable running (kWh/24 hours):</b>	4.36 kWh / 24 h		310 x 0.6 L
		<b>Waterpack storage capacity:</b>	
<b>Energy consumption, cool down test (kWh/24 hours):</b>	3.77 kWh/24h	<b>Energy consumption during freezing:</b>	---

### Comments:

**Accessories:** Instruction manual; Keys; Tray

**Spare parts (ref, price):** Included in the UNICEF Supply Division spare parts kit:  
1 No. Compressor - Part No. 0070701332  
1 No. Thermostat - Part No. 0074091494E  
1 No. Dry filter - Part No. 0074180002A  
1 No. Fan - Part No. 0075030020  
1 No. Switch - Part No. 0075050003  
1 No. Thermo sensor - Part No. 0074091494C  
Other parts are available as spares on request.

<b>Shipping volume:</b>	0.88 m3	<b>Shipping weight:</b>	79 kg
<b>Price year</b>	2021	<b>Incoterms</b>	EXW
<b>Price</b>	1-100units USD 690		>100units USD 660
<b>Quality standard:</b>	- ISO 13485 - ISO 14001 - Other -	<b>Specification ref.</b>	
<b>Verification report:</b>	WB-09-145	<b>Verification laboratory:</b>	CHEARI

**Current PQS status:** *pre-qualified: 24 Sep 2009* **Validity until:** *May, 2024*

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





PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/007</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	MK 304
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

**Telephone:** +45 7914 2555; +45 7914 2248

**Email:** [clc@vestfrostsolutions.com](mailto:clc@vestfrostsolutions.com);  
[bjn@vestfrostsolutions.com](mailto:bjn@vestfrostsolutions.com)

**Web address:** <http://vestfrostsolutions.com/>

## Specifications

<b>Climate zone:</b>	Multi-zone	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R134a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz;#2;#Electric Mains 115/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	84 x 69 x 126 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

REFRIGERATOR		FREEZER	Freeze protection: Not tested
<b>Vaccine storage capacity: (Litres)</b>	105 L		
<b>Gross volume (Litres):</b>	218 L	<b>Gross volume:</b>	N/A
<b>Holdover time (hours):</b>	25.6	<b>Waterpack freezing capacity:</b>	N/A
<b>Energy consumption, stable running (kWh/24 hours):</b>	3.2 kWh/24h		N/A
		<b>Waterpack storage capacity:</b>	
<b>Energy consumption, cool down test (kWh/24 hours):</b>	5.10 kWh/24h	<b>Energy consumption during freezing:</b>	N/A

### Comments:

**Accessories:** 7 baskets; Temperature controller; Locking lid + Keys; Manual in 6 languages; Plywood packing

**Spare parts (ref, price):** Included in the UNICEF Supply Division spare parts kit:  
1 No Compressor - FR 8,5 G,HST Complete, R134a, Part No.8-036038480  
1 No Thermostat - Part No.7020293  
1 No Starting device, 117U6015 - Part No.6520106  
1 No Thermometer, solar - Part No. 7020164  
1 No Fan - Part No.7030333

Other parts are available as spares on request.

<b>Shipping volume:</b>	1.02 m3	<b>Shipping weight:</b>	126 kg
<b>Price year</b>	2016	<b>Incoterms</b>	FCA
<b>Price</b>	1-99 units: 1,003 €	100-199 units: 803€	200 or more units: 793€
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001 - Other - DS/OHSAS 18001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	300-KLAB-09-142	<b>Verification laboratory:</b>	Danish Technological Institute

**Current PQS status:** *pre-qualified: 25 Nov 2009*

**Validity until:** *May, 2023*

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



PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/011</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	MK 204
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

**Telephone:** +45 7914 2555; +45 7914 2248

**Email:** [clc@vestfrostsolutions.com](mailto:clc@vestfrostsolutions.com);  
[bjn@vestfrostsolutions.com](mailto:bjn@vestfrostsolutions.com)

**Web address:** <http://vestfrostsolutions.com/>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+10°C
<b>Refrigerant:</b>	R134a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	84 x 70 x 92 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

REFRIGERATOR		FREEZER	Freeze protection: Not tested
<b>Vaccine storage capacity:</b> (Litres)	75 L		
<b>Gross volume (Litres):</b>	136 L	<b>Gross volume:</b>	none
<b>Holdover time (hours):</b>	20.1 hours	<b>Waterpack freezing capacity:</b>	N/A
<b>Energy consumption, stable running (kWh/24 hours):</b>	1.89 kWh/24h		N/A
		<b>Waterpack storage capacity:</b>	
<b>Energy consumption, cool down test (kWh/24 hours):</b>	3.58 kWh/24h	<b>Energy consumption during freezing:</b>	N/A

### Comments:

**Accessories:** 5 baskets; Self regulating temperature control; External electronic temperature reading; Locking lid + keys; Manual in 6 languages; Plywood packing

**Spare parts (ref, price):** Included in the UNICEF Supply Division spare parts kit:  
1 No Compressor - FR6G HST, Complete, R134a - Part No.8-036038754  
1 No Thermostat - Part No.7020292  
1 No Starting device, 117U6000 - Part No.6520048  
1 No Thermometer, solar - Part No.7020164  
  
Other parts are available as spares on request.

<b>Shipping volume:</b>	0.752 m3	<b>Shipping weight:</b>	102 kg
<b>Price year</b>	2016	<b>Incoterms</b>	FCA
<b>Price</b>	1-99 units: 867 €	100-199 units: 686 €	200 or more units: 677 €
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001 - DS/OHSAS 18001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	300-KLAB-09-141	<b>Verification laboratory:</b>	Danish Technological Institute

**Current PQS status:** pre-qualified: 14 Jul 2010

**Validity until:** May, 2022

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



PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/022</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	MK 144
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

**Telephone:** +45 7914 2555; +45 7914 2248

**Email:** [clc@vestfrostsolutions.com](mailto:clc@vestfrostsolutions.com);  
[bjn@vestfrostsolutions.com](mailto:bjn@vestfrostsolutions.com)

**Web address:** <http://vestfrostsolutions.com/>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+25°C
<b>Refrigerant:</b>	R134a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	88.0 x 96.5 x 71.0 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

REFRIGERATOR		FREEZER		Freeze protection: Not tested
<b>Vaccine storage capacity: (Litres)</b>	48 L			
<b>Gross volume (Litres):</b>	63.7 L	<b>Gross volume:</b>	N/A	
<b>Holdover time (hours):</b>	43 hours 8 min	<b>Waterpack freezing capacity:</b>	N/A	
<b>Energy consumption, stable running (kWh/24 hours):</b>	2.30 kWh/24hours		N/A	
		<b>Waterpack storage capacity:</b>		
<b>Energy consumption, cool down test (kWh/24 hours):</b>	2.27 kWh/24hours	<b>Energy consumption during freezing:</b>	N/A	

### Comments:

**Accessories:** 3 vaccine storage baskets. Self regulating temperature control. External electronic temperature reading. Locking lid + keys. Manual in 6 languages. Plywood packing.

**Spare parts (ref, price):** Included in the UNICEF Supply Division spare parts kit:  
1 No Compressor - TL5G HST - Part No.8-036038602 (90.19 €)  
1 No Thermostat - Part No.7020291 (30.46 €)  
1 No Starting device, 117U6000 - Part No.6520048  
1 No Thermometer, solar - Part No.7020164

Other parts are available as spares on request.

<b>Shipping volume:</b>	0,58 m3	<b>Shipping weight:</b>	70 kg
<b>Price year</b>	2016	<b>Incoterms</b>	FCA
<b>Price</b>	1-99 units: 815 €	100-199 units: 594 €	200 or more units: 586 €
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001 - DS/OHSAS 18001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	300-KLAB-11-112	<b>Verification laboratory:</b>	Danish Technological Institute

**Current PQS status:** pre-qualified: 03 Nov 2011

**Validity until:** May, 2022

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/023</b>
<b>Type of appliance:</b>	Vaccine/waterpacks freezer
<b>Manufacturer's reference:</b>	MF 314
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark
<b>Telephone:</b>	+45 7914 2555; +45 7914 2248
<b>Email:</b>	<a href="mailto:clc@vestfrostsolutions.com">clc@vestfrostsolutions.com</a> ; <a href="mailto:bjn@vestfrostsolutions.com">bjn@vestfrostsolutions.com</a>
<b>Web address:</b>	<a href="http://vestfrostsolutions.com/">http://vestfrostsolutions.com/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	N/A
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	84 x 156 x 70 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

**Freeze protection: N/A**

<b>Vaccine storage capacity: (Litres)</b>	N/A
<b>Gross volume (Litres):</b>	N/A
<b>Holdover time (hours):</b>	4.0 hours
<b>Energy consumption, stable running (kWh/24 hours):</b>	4.23 kWh/24h
<b>Energy consumption, cool down test (kWh/24 hours):</b>	4.29 kWh/24h

<b>Gross volume:</b>	281 L
<b>Waterpack freezing capacity:</b>	7.2 kg/24h 256 x 0.6 L
<b>Waterpack storage capacity:</b>	
<b>Energy consumption during freezing:</b>	4.24 kWh/24h

"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

**Comments:**

**Accessories:** External electronic 30 day TMD FT2 Type 2. 3 Basket, Locking lid + keys. Manual in 6 languages. Plywood packing

**Spare parts (ref, price):** Included in the UNICEF Supply Division spare parts kit:  
 1 No Compressor - FR 10G, Freezer, Complete, R134a - Part No.8-036038858  
 1 No Thermostat, freezer - Part No.7020239  
 1 No Starting device, 103N0021, Part No.A921115  
 1 No Thermometer, solar, Part No.7020164  
  
 Other parts are available as spares on request.

<b>Shipping volume:</b>	1.161m3	<b>Shipping weight:</b>	108.5 kg
<b>Price year</b>	2023	<b>Incoterms</b>	EXW
<b>Price</b>	1-99 units: 1192 €	100-199 units: €	200 or more units: €
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001 - DS/OHSAS 18001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	A66542-3 issue 1	<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified: 01 Dec 2011</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/024</b>
<b>Type of appliance:</b>	Vaccine/waterpacks freezer
<b>Manufacturer's reference:</b>	MF 114
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark
<b>Telephone:</b>	+45 7914 2555; +45 7914 2248
<b>Email:</b>	<a href="mailto:clc@vestfrostsolutions.com">clc@vestfrostsolutions.com</a> ; <a href="mailto:bjn@vestfrostsolutions.com">bjn@vestfrostsolutions.com</a>
<b>Web address:</b>	<a href="http://vestfrostsolutions.com/">http://vestfrostsolutions.com/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	N/A
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	84 x 72 x 70 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

**Freeze protection: N/A**

<b>Vaccine storage capacity: (Litres)</b>	N/A
<b>Gross volume (Litres):</b>	N/A
<b>Holdover time (hours):</b>	2.8 hrs
<b>Energy consumption, stable running (kWh/24 hours):</b>	2.24 kWh/24hrs
<b>Energy consumption, cool down test (kWh/24 hours):</b>	2.41 kWh/24hrs

<b>Gross volume:</b>	105 L
<b>Waterpack freezing capacity:</b>	7.2 kg/24h 64 x 0.6 L
<b>Waterpack storage capacity:</b>	
<b>Energy consumption during freezing:</b>	3.33 kWh/24hrs

"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  
"

**Comments:**

<b>Accessories:</b>	External electronic 30 day TMD FT2 Type 2, 1 Basket, Locking lid + 2 key. Manual in 6 languages. Plywood packing		
<b>Spare parts (ref, price):</b>	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..		
<b>Shipping volume:</b>	0.58 m3	<b>Shipping weight:</b>	70 kg
<b>Price year</b>	2016	<b>Incoterms</b>	FCA
<b>Price</b>	1-99 units: 541 €	100-199 units: 422 €	200 or more units: 416 €
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001 - DS/OHSAS 18001:2008 -		<b>Specification ref.</b>
<b>Verification report:</b>	A66542-1	<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified: 01 Dec 2011</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/025</b>
<b>Type of appliance:</b>	Vaccine/waterpacks freezer
<b>Manufacturer's reference:</b>	MF 214
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark
<b>Telephone:</b>	+45 7914 2555; +45 7914 2248
<b>Email:</b>	<a href="mailto:clc@vestfrostsolutions.com">clc@vestfrostsolutions.com</a> ; <a href="mailto:bjn@vestfrostsolutions.com">bjn@vestfrostsolutions.com</a>
<b>Web address:</b>	<a href="http://vestfrostsolutions.com/">http://vestfrostsolutions.com/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	N/A
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	84 x 113 x 70 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

<b>REFRIGERATOR</b>	<b>FREEZER</b>	<b>Freeze protection: N/A</b>
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<b>Vaccine storage capacity: (Litres)</b>	N/A		
<b>Gross volume (Litres):</b>	N/A	<b>Gross volume:</b>	171 L
<b>Holdover time (hours):</b>	2.9 hours	<b>Waterpack freezing capacity:</b>	7.2 kg/24h
<b>Energy consumption, stable running (kWh/24 hours):</b>	3.0 kWh/24h		160 x 0.6 L
		<b>Waterpack storage capacity:</b>	
<b>Energy consumption, cool down test (kWh/24 hours):</b>	2.96 kWh/24h	<b>Energy consumption during freezing:</b>	3.56 kWh/24h



"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  
"

**Comments:**

**Accessories:** External electronic 30 day TMD FT2 Type 2, 2 Basket, Locking lid + 2 key. Manual in 6 languages.  
Plywood packing

**Spare parts (ref, 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.

<b>Shipping volume:</b>	0.846 m3	<b>Shipping weight:</b>	96.3 kg
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<b>Price year</b>	2016	<b>Incoterms</b>	FCA
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<b>Price</b>	1-99 units: 615 €	100-199 units: 493 €	200 or more units: 486 €
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<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001 - DS/OHSAS 18001:2008 -	<b>Specification ref.</b>
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<b>Verification report:</b>	A66542-2 issue 1	<b>Verification laboratory:</b>
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<b>Current PQS status:</b>	<i>pre-qualified: 01 Dec 2011</i>	<b>Validity until:</b> <i>May, 2024</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/030</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	TCW 3000 SDD
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsyste.ms.com">info@bmedicalsyste.ms.com</a> , <a href="mailto:Gilles.Ries@bmedicalsyste.ms.com">Gilles.Ries@bmedicalsyste.ms.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsyste.ms.com">Admilson.Pinto@bmedicalsyste.ms.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsyste.ms.com">www.bmedicalsyste.ms.com</a>

## Specifications

<b>Climate zone:</b>	Temperate	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+32°C	<b>Ext dimensions (HxLxD)</b>	91 x 127 x 78 cm
<b>Performance at:</b>	<b>+32°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	156	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	278	<b>Waterpack freezing capacity:</b>	N/A
		<b>Waterpack storage capacity:</b>	16x0.6L
<b>Autonomy as per WHO/PQS protocols</b>	86 hours 56 min	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<b>Comments:</b>		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	
<b>Accessories:</b>		Baskets, 16 waterpacks 0.6L, documentation and Instruction manual,4 keys, lockable lid, 2 spacers, 1 compass, 1 brush	
<b>Spare parts (ref, price):</b>		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.	
<b>Shipping volume:</b>	1.07 m3	<b>Shipping weight:</b>	161 kg
<b>Price year</b>	2022	<b>Incoterms</b>	EXW
<b>Price</b>	> 100 units:G1: 7864€ ; G2: 9015€		
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001 - Other -	<b>Specification ref.</b>	
<b>Verification report:</b>	WHO 11--018 V2 /16-005	<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Current PQS status:</b>	<i>pre-qualified: 25 Jun 2012</i>	<b>Validity until:</b>	<i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/035</b>
<b>Type of appliance:</b>	Solar direct drive combined refrigerator/freezer
<b>Manufacturer's reference:</b>	TCW 2000 SDD
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsyste.ms.com">info@bmedicalsyste.ms.com</a> , <a href="mailto:Gilles.Ries@bmedicalsyste.ms.com">Gilles.Ries@bmedicalsyste.ms.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsyste.ms.com">Admilson.Pinto@bmedicalsyste.ms.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsyste.ms.com">www.bmedicalsyste.ms.com</a>

## Specifications

<b>Climate zone:</b>	Temperate	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+32°C	<b>Ext dimensions (HxLxD)</b>	127 x 78 x 91 cm
<b>Performance at:</b>	<b>+32°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	99	<b>Gross volume (Liters):</b>	42
<b>Gross volume (Liters):</b>	118	<b>Waterpack freezing capacity:</b>	2.4 kg per 24 h
		<b>Waterpack storage capacity:</b>	24x0.6L
<b>Autonomy as per WHO/PQS protocols</b>	85 hours 24 min	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

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 2 or 10 years as the case may be. For more information and further conditions of warranty, please contact B Medical Systems			
<b>Comments:</b>			
<b>Accessories:</b>		4 baskets; 24 waterpacks 0.6L; 4 keys; documentation and instructions	
<b>Spare parts (ref, price):</b>		Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No.296.9702.09 1 No. Electronic Control Unit - Part No.296.9705.24 1 No. Electronic thermostat/controller (TCW DC Solar) - Part No. 292.2009.05 1 No. Fan (12-28 V, 5.6W) - Part No. 292.9960.09  Other parts are available as spares on request.	
<b>Shipping volume:</b>		<b>Shipping weight:</b>	125 kg
<b>Price year</b>		<b>Incoterms</b>	EXW
<b>Price</b>		>100 units: G1: 6999€; G2: 8023€	
<b>Quality standard:</b>		<b>Specification ref.</b>	
		-	
<b>Verification report:</b>		<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Current PQS status:</b>		<b>Validity until:</b>	
<i>pre-qualified: 17 Dec 2012</i>		<i>May, 2024</i>	
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/037</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	ZLF 100 DC (SureChill ®)
<b>Manufactured in:</b>	South Africa
<b>Company:</b>	Zero Appliances (Pty) Ltd
<b>Address:</b>	P.O. Box 426 Edenvale 1610 Gauteng Province South Africa
<b>Telephone:</b>	(010) 207 1600
<b>Email:</b>	<a href="mailto:rudi@zeroappliances.co.za">rudi@zeroappliances.co.za</a> ; <a href="mailto:brigitte@zeroappliances.co.za">brigitte@zeroappliances.co.za</a>
<b>Web address:</b>	<a href="http://www.zeroappliances.co.za">www.zeroappliances.co.za</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	180 x 85 x 73 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	99L (one shelf); 93L (all shelves)	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	124L	<b>Waterpack freezing capacity:</b>	N/A
		<b>Waterpack storage capacity:</b>	N/A
<b>Autonomy as per WHO/PQS protocols</b>	170.1 hours	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

	Price do not include solar system (1,350 USD); Energy source: 370 Wp array at 3.5 kWh/m2/day at 43°C Entire system is plug and play with MC4 (MIC) connectors, on board isolator and surge protector. The array frame is roof adjustable. Unit uses SureChill ® technology		
Comments:			
Accessories:	3 shelves; Liquid PCM to mix with water. Optional: Extra shelves; drawers; Plywood packaging; 1 padlock		
Spare parts (ref, price):	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor - Part No. IMPC151 1 No. Compressor controller - Part No. IMP152 1 No. Fan Set - Part No. IMP144 1 No. Condenser - Part No. IMP145 1 No. Electronic card - Part No. IMP012 1 No. 24 V Surge Protector - Part No. ELSP15 1 No. Capacitor - Part No. ZLFDC  Other parts are available as spares on request.		
Shipping volume:	1.132m3	Shipping weight:	115kg
Price year	2016	Incoterms	EXW
Price	up to 49units: 3,933.00 USD	50 to 99 units: 3,834.00 USD	100 or more: 3,736.00 USD
Quality standard:	- ISO 9001:2008 -		Specification ref.
Verification report:	100963912MKS-001a Issue 2	Verification laboratory:	
Current PQS status:	pre-qualified: 25 Apr 2013		Validity until: May, 2022
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/040</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	VC200SDD
<b>Manufactured in:</b>	United Kingdom
<b>Company:</b>	Dulas Ltd
<b>Address:</b>	Dyfi Eco Parc Machynlleth Powys SY20 8AX United Kingdom
<b>Telephone:</b>	+ 44 (0)1654 705055
<b>Email:</b>	<a href="mailto:solar@dulas.org.uk">solar@dulas.org.uk</a>
<b>Web address:</b>	<a href="http://www.dulassolar.org/">http://www.dulassolar.org/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	98 x 128.2 x 74.0 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	132 L	<b>Gross volume (Liters):</b>	NA
<b>Gross volume (Liters):</b>	205.2 L	<b>Waterpack freezing capacity:</b>	
		<b>Waterpack storage capacity:</b>	
<b>Autonomy as per WHO/PQS protocols</b>	79h 29 min	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.



Supplied as standard with Integrated Beyond ICE3 BC141 Remote Temperature Monitoring Device. Fully compliant to WHO PQS E006/TR03.2. See separate registration E006/036 for full details. Beyond's Remote Temperature Monitoring System (RTMS) provides real-time monitoring and reporting of cold chain assets in one easy to use cloud-based portal. Accessible via PC or Smartphone App and able to connect to any existing Beyond cold chain management system. PQS price includes BC141 hardware integrated to every refrigerator.

ColdCloud subscription services are an optional extra cost that can be added at purchase or retrospectively, and remotely activated without additional installation costs. For more information contact Dulas Ltd.

Integrated PCM internal lining used as part of Dulas Freeze Free technology. PCM lining complies with WHO/PQS/E005/PCMC0.1 specification

**Comments:**

**Accessories:**

Always on temperature display; Audible and visual temperature alarms with high and low alarms aligned with WHO limits; 120 days local data storage; 30-day report of temperature history available as a pdf by scanning QR code on refrigerator; Handle with in-built lock; Instruction manual; Replaceable lid gaskets; Baskets (6): 47.0 x 30.5 x 21.5 cm = 22L.

**Spare parts (ref, price):**

Included in the UNICEF Supply Division spare parts kit:  
1 No. Compressor (Secop BD35K) - Part No. 101Z0211  
1 No. Electronic Control Unit (Secop) - Part No. 101N0420  
1 No. Dulas SDD-SC controller  
1 No. Fridge MCB - Part No. 693-CBTWF060C0  
1 No. Temperature Probe - Part No. SN4B15P1

Other parts are available as spares on request.

<b>Shipping volume:</b>	1.2m3	<b>Shipping weight:</b>	129kg
<b>Price year</b>	2023	<b>Incoterms</b>	EXW
<b>Price</b>	>100 units €4,235.00 including solar system		
<b>Quality standard:</b>	- ISO 9001:2008 - Other - ISO 14000 -	<b>Specification ref.</b>	
<b>Verification report:</b>	300-KLAB-13-194	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>	<i>pre-qualified: 13 Mar 2014</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/042</b>
<b>Type of appliance:</b>	Solar direct drive combined refrigerator/freezer
<b>Manufacturer's reference:</b>	TCW 40 SDD
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsyste.ms.com">info@bmedicalsyste.ms.com</a> , <a href="mailto:Gilles.Ries@bmedicalsyste.ms.com">Gilles.Ries@bmedicalsyste.ms.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsyste.ms.com">Admilson.Pinto@bmedicalsyste.ms.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsyste.ms.com">www.bmedicalsyste.ms.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	90 x 78 x 103 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	36	<b>Gross volume (Liters):</b>	4.8
<b>Gross volume (Liters):</b>	46.6	<b>Waterpack freezing capacity:</b>	1.89 kg/24h
		<b>Waterpack storage capacity:</b>	3.6 kg
<b>Autonomy as per WHO/PQS protocols</b>	81 hours 54 min	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

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			
Comments:			
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		
Spare parts (ref, 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 (Alternative item: VENTILATOR ORION OD1225-12HB IP68 - Part No. 292.9960.20)  Other parts are available as spares on request.		
Shipping volume:	0.88m3	Shipping weight:	126kg
Price year	2022	Incoterms	EXW
Price	> 100 units: G1: 5041€ ; G2: 5550€		
Quality standard:	- ISO 9001:2008 - ISO 13485 - ISO 14001 -	Specification ref.	
Verification report:	WHO 13-024 V2	Verification laboratory:	CEMAFROID SAS
Current PQS status:	pre-qualified: 27 Mar 2014		Validity until: May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/043</b>
<b>Type of appliance:</b>	Solar direct drive combined refrigerator/freezer
<b>Manufacturer's reference:</b>	TCW 2043 SDD
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsyste.ms.com">info@bmedicalsyste.ms.com</a> , <a href="mailto:Gilles.Ries@bmedicalsyste.ms.com">Gilles.Ries@bmedicalsyste.ms.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsyste.ms.com">Admilson.Pinto@bmedicalsyste.ms.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsyste.ms.com">www.bmedicalsyste.ms.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	91 x 127 x 78 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	70	<b>Gross volume (Liters):</b>	42
<b>Gross volume (Liters):</b>	79	<b>Waterpack freezing capacity:</b>	2.5kg/24h
		<b>Waterpack storage capacity:</b>	16x0.6L 10.5kg
<b>Autonomy as per WHO/PQS protocols</b>	73 hours 54 min	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<b>Comments:</b>		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	
<b>Accessories:</b>		2 baskets; 16 waterpacks 0.6 L; 4 keys; documentation; 1 pan for drain . , 2 lockable lids, 2 spacers, 1 brush, 1 compass	
<b>Spare parts (ref, price):</b>		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.	
<b>Shipping volume:</b>	1.07m3	<b>Shipping weight:</b>	166kg
<b>Price year</b>	2022	<b>Incoterms</b>	EXW
<b>Price</b>	> 100 units: G1: 8279€ ; G2: 9296€		
<b>Quality standard:</b>	- ISO 13485 - ISO 14001 - ISO 9001 -		<b>Specification ref.</b>
<b>Verification report:</b>	WHO 13-025 and WHO 16-009	<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Current PQS status:</b>	<i>pre-qualified: 27 Mar 2014</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/044</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	ZLF 150 AC (SureChill ®)
<b>Manufactured in:</b>	South Africa
<b>Company:</b>	Zero Appliances (Pty) Ltd
<b>Address:</b>	P.O. Box 426 Edenvale 1610 Gauteng Province South Africa
<b>Telephone:</b>	(010) 207 1600
<b>Email:</b>	<a href="mailto:rudi@zeroappliances.co.za">rudi@zeroappliances.co.za</a> ; <a href="mailto:brigitte@zeroappliances.co.za">brigitte@zeroappliances.co.za</a>
<b>Web address:</b>	<a href="http://www.zeroappliances.co.za">www.zeroappliances.co.za</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R134a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	190 x 85 x 72
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

REFRIGERATOR	FREEZER	Freeze protection: Grade A
<b>Vaccine storage capacity: (Litres)</b>	128	
<b>Gross volume (Litres):</b>	161	<b>Gross volume:</b> N/A
<b>Holdover time (hours):</b>	128.2	<b>Waterpack freezing capacity:</b> N/A
<b>Energy consumption, stable running (kWh/24 hours):</b>	1.98	N/A
<b>Energy consumption, cool down test (kWh/24 hours):</b>	2.03	<b>Waterpack storage capacity:</b>
		<b>Energy consumption during freezing:</b> N/A

**Comments:** Unit uses Sure Chill® technology; holdover time has been carried out while not fully charged; Net volume 128L with all shelves and 150L if used with only one shelf

**Accessories:** 3 shelves; liquid PCM to mix with water.  
Optional: extra shelves, drawers, plywood packaging, 2 padlocks

**Spare parts (ref, price):** Included in the UNICEF Supply Division spare parts kit:  
1 No. Compressor - Part No. IMPC20  
1 No. Condenser - Part No. IMP65  
1 No. Condenser Fan Set - Part No. IMP65  
1 No. Electronic Card / Thermostat - Part No. IMP70  
1 No. Voltage Stabiliser - Part No. SOLLATEK ASP04 IMPA10  
1 No. Start Relay - Part No. ZLFAC  
1 No. Capacitor - Part No. ZLFAC  
  
Other parts are available as spares on request.

<b>Shipping volume:</b>	1.22m3	<b>Shipping weight:</b>	116 kg
<b>Price year</b>	2016	<b>Incoterms</b>	EXW
<b>Price</b>	1-49 units: 2429 USD	50-99 units: 2368 USD	100 and more: 2308 USD
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	101568371MKS-001	<b>Verification laboratory:</b>	

**Current PQS status:** *pre-qualified: 01 Sep 2014* **Validity until:** *May, 2022*

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/045</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	TCW 3043 SDD
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsyste.ms.com">info@bmedicalsyste.ms.com</a> , <a href="mailto:Gilles.Ries@bmedicalsyste.ms.com">Gilles.Ries@bmedicalsyste.ms.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsyste.ms.com">Admilson.Pinto@bmedicalsyste.ms.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsyste.ms.com">www.bmedicalsyste.ms.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	91 X 127 X 78 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	89	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	111	<b>Waterpack freezing capacity:</b>	N/A
		<b>Waterpack storage capacity:</b>	N/A
<b>Autonomy as per WHO/PQS protocols</b>	116 hours 41 min	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

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			
<b>Comments:</b>			
<b>Accessories:</b>		5 baskets; L; 2 keys; documentation; lockable lid; 2 spacers; 1 compass; 1 brush	
<b>Spare parts (ref, price):</b>		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. Electronic Control Unit - Part No. 296.9705.24 1 No. Fan (12-28 V, 5.6W) - Part No.292.9960.09  Other parts are available as spares on request.	
<b>Shipping volume:</b>		<b>Shipping weight:</b>	
1.07 m3		171 kg	
<b>Price year</b>		<b>Incoterms</b>	
2022		EXW	
<b>Price</b>			
>100 units: G1: 5912€ ; G2: 6419€			
<b>Quality standard:</b>		<b>Specification ref.</b>	
- ISO 9001:2008 - ISO 13485 - ISO 14001 -			
<b>Verification report:</b>		<b>Verification laboratory:</b>	
WHO 13-026 V2		CEMAFROID SAS	
<b>Current PQS status:</b>		<b>Validity until:</b>	
pre-qualified: 01 Sep 2014		May, 2024	
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			





## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/048</b>
<b>Type of appliance:</b>	Solar direct drive combined refrigerator/freezer
<b>Manufacturer's reference:</b>	VC150SDD
<b>Manufactured in:</b>	United Kingdom
<b>Company:</b>	Dulas Ltd
<b>Address:</b>	Dyfi Eco Parc Machynlleth Powys SY20 8AX United Kingdom
<b>Telephone:</b>	+ 44 (0)1654 705055
<b>Email:</b>	<a href="mailto:solar@dulas.org.uk">solar@dulas.org.uk</a>
<b>Web address:</b>	<a href="http://www.dulasolar.org/">http://www.dulasolar.org/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C; +32°C	<b>Ext dimensions (HxLxD)</b>	98 x 128.2 x 74.0 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	102	<b>Gross volume (Liters):</b>	42.9
<b>Gross volume (Liters):</b>	158.1	<b>Waterpack freezing capacity:</b>	2.04
		<b>Waterpack storage capacity:</b>	8.1 kg
<b>Autonomy as per WHO/PQS protocols</b>	77.99	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

Supplied as standard with Integrated Beyond ICE3 BC141 Remote Temperature Monitoring Device. Fully compliant to WHO PQS E006/TR03.2. See separate registration E006/036 for full details. Beyond's Remote Temperature Monitoring System (RTMS) provides real-time monitoring and reporting of cold chain assets in one easy to use cloud-based portal. Accessible via PC or Smartphone App and able to connect to any existing Beyond cold chain management system. PQS price includes BC141 hardware integrated to every refrigerator.

ColdCloud subscription services are an optional extra cost that can be added at purchase or retrospectively, and remotely activated without additional installation costs. For more information contact Dulas Ltd.

**Comments:** Integrated PCM internal lining used as part of Dulas Freeze Free technology. PCM lining complies with WHO/PQS/ E005/PCMC0.1 specification.

**Accessories:** Always on temperature display; Audible and visual temperature alarms with high and low alarms aligned with WHO limits; 120 days local data storage; 30-day report of temperature history available as a pdf by scanning QR code on refrigerator; Handle with in-built lock; Instruction manual; Replaceable lid gaskets; Baskets (6): 37.0 x 30.5 x 21.5cm = 17L

**Spare parts (ref, price):** Included in the UNICEF Supply Division spare parts kit:  
1 No. Compressor (Secop BD35K) - Part No. 101Z0211  
1 No. Electronic Control Unit (Secop) - Part No. 101N0420  
1 No. Dulas SDD-DC controller  
1 No. MCB fridge - Part No. 693-CBTWF0100C0  
1 No. Freezer on/off switch - Part No. 655-W51-A151-A1-5  
1 No. Freezer fan - Part No. 89-4367.GN.  
1 No. Temperature probes - Part No. SN4B15P1 + Part No. SN4B25P1

Other parts are available as spares on request.

Other parts are available as spares on request.

<b>Shipping volume:</b>	1.2m3	<b>Shipping weight:</b>	171kg
<b>Price year</b>	2023	<b>Incoterms</b>	EXW
<b>Price</b>	>100 €6,160.00 per unit including solar system		
<b>Quality standard:</b>	- ISO 9001:2008 - Other - ISO 14000 -	<b>Specification ref.</b>	
<b>Verification report:</b>	300-KLAB-14-148	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>	<i>pre-qualified: 06 Jan 2015</i>		<b>Validity until:</b> <i>May, 2024</i>

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

**E003:****Refrigerators and freezers**

<b>PQS code:</b>	<b>E003/049</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	GVR 50DC SDD
<b>Manufactured in:</b>	India
<b>Company:</b>	Godrej & Boyce MFG. Co. Ltd.
<b>Address:</b>	Plant 01, Pirojshanagar, Vikhroli West Mumbai 400 079 India
<b>Telephone:</b>	+91 22 67966201
<b>Email:</b>	<a href="mailto:medicalref@godrej.com">medicalref@godrej.com</a> ; <a href="mailto:hello@surechill.com">hello@surechill.com</a>
<b>Web address:</b>	<a href="http://www.godrejappliances/medical">http://www.godrejappliances/medical</a>

**Specifications**

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+10°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	121.5 X 79.5 X 75
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	46.5	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	59.6	<b>Waterpack freezing capacity:</b>	N/A
		<b>Waterpack storage capacity:</b>	N/A
<b>Autonomy as per WHO/PQS protocols</b>	134.8	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

**Warning !**

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<b>Comments:</b>	(i) Sure Chill is a patented technology licensed by The Sure Chill Company (UK) (ii) Has a built in intelligent temperature control, early warning and energy management system (iii) Unit requires addition of clean drinking water during installation, contact manufacturer for information (iv) Price includes solar array (2 x 250 Wp, 24V solar panels) and 'plug & play' system/structure		
<b>Accessories:</b>	Included in price: 2 wire shelves; 1 Padlock; 1 Funnel, plywood packaging, Surge Protector, 30 days temperature monitoring system. Optional (charged extra): Extra wire shelves", RTMD (E006/036), Energy harvesting system.		
<b>Spare parts (ref, price):</b>	1 No. Compressor - Part No. RCM 977 492 31 is changed to 40151606SD00035 1 No. Controller- Part No. will be 41103015PA00037 1 No. Fan System (Fan+Impeller) - Part No. RFN 977 492 32 is changed to 26101200DG00143 1 No. Condenser - Part No. RFN 977 792 72 is changed to 40101704DG00050 1 No. Electronic control card / thermostat - Part No. RCC 977 492 37 is changed to 32101502SD00419 1 No. Capacitor - Part No. RFN 977 492 40 is changed to 32121501SD00105 1 No. 24V Surge protector - Part No. RFN 977 502 92 is changed to 39121634SD00054		
<b>Shipping volume:</b>	0.9m3 ref + 0.4m3 ss	<b>Shipping weight:</b>	125kg ref + 95kg (Solar System)
<b>Price year</b>	2016	<b>Incoterms</b>	EXW
<b>Price</b>	3450 USD per unit, including solar system	3400 USD per unit: 10 to 99 units with solar sytem	3325 USD per unit: 100 and more with solar system
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	CE-JOB-DEL-14-000503-GVR50DC	<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified: 06 May 2015		<b>Validity until:</b> May, 2024

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/050</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	GVR 100 DC (SureChill®)
<b>Manufactured in:</b>	India
<b>Company:</b>	Godrej & Boyce MFG. Co. Ltd.
<b>Address:</b>	Plant 01, Pirojshanagar, Vikhroli West Mumbai 400 079 India
<b>Telephone:</b>	+91 22 67966201
<b>Email:</b>	<a href="mailto:medicalref@godrej.com">medicalref@godrej.com</a> ; <a href="mailto:hello@surechill.com">hello@surechill.com</a>
<b>Web address:</b>	<a href="http://www.godrejappliances/medical">http://www.godrejappliances/medical</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+10°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	182 x 79.5 x 75 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	99	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	121	<b>Waterpack freezing capacity:</b>	N/A
		<b>Waterpack storage capacity:</b>	N/A
<b>Autonomy as per WHO/PQS protocols</b>	175.95	<b>At a solar radiation reference period of:</b>	3.5 kWh/m <sup>2</sup> /day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

	(i) Sure Chill is a patented technology licensed by The Sure Chill Company (UK) (ii) Has a built in intelligent temperature control, early warning and energy management system (iii) Unit requires addition of clean drinking water during installation, contact manufacturer for information (iv) Price includes solar array (2 x 250 Wp, 24V solar panels) and 'plug & play' system/structure		
<b>Comments:</b>			
<b>Accessories:</b>	Included in price: 2 wire shelves; 1 Padlock; 1 Funnel, plywood packaging, Surge Protector, 30 days temperature monitoring system. Optional (charged extra): Extra wire shelves", RTMD (E006/036), Energy harvesting system.		
<b>Spare parts (ref, price):</b>	1 No. Compressor - Part No. RCM 977 492 31 is changed to 40151606SD00035 1 No. Controller- Part No. will be 41103015PA00037 1 No. Fan System (Fan+Impeller) - Part No. RFN 977 492 32 is changed to 26101200DG00143 1 No. Condenser - Part No. RFN 977 792 72 is changed to 40101704DG00050 1 No. Electronic control card / thermostat - Part No. RCC 977 492 37 is changed to 32101502SD00419 1 No. Capacitor - Part No. RFN 977 492 40 is changed to 32121501SD00105 1 No. 24V Surge protector - Part No. RFN 977 502 92 is changed to 39121634SD00054		
<b>Shipping volume:</b>	1.3m3 ref + 0.4m3 ss	<b>Shipping weight:</b>	160kg ref + 115kg ss
<b>Price year</b>	2016	<b>Incoterms</b>	EXW
<b>Price</b>	4815 USD with including solar system	4710 USD for 10 to 99 units with solar system	4615 USD for 100 units or more with solar system
<b>Quality standard:</b>	- ISO 9001:2008 - <b>Specification ref.</b>		
<b>Verification report:</b>	CE-JOB-DEL-14-000503-GVR 100 DC	<b>Verification laboratory:</b>	Intertek India
<b>Current PQS status:</b>	<i>pre-qualified: 07 May 2015</i>		<b>Validity until:</b> <i>May, 2024</i>

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



PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/051</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	ZLF30 AC (SureChill ®)
<b>Manufactured in:</b>	South Africa
<b>Company:</b>	Zero Appliances (Pty) Ltd
<b>Address:</b>	P.O. Box 426 Edenvale 1610 Gauteng Province South Africa
<b>Telephone:</b>	(010) 207 1600
<b>Email:</b>	<a href="mailto:rudi@zeroappliances.co.za">rudi@zeroappliances.co.za</a> ; <a href="mailto:brigitte@zeroappliances.co.za">brigitte@zeroappliances.co.za</a>
<b>Web address:</b>	<a href="http://www.zeroappliances.co.za">www.zeroappliances.co.za</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+10°C
<b>Refrigerant:</b>		<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	102.8 x 61.9 x 56.3
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

REFRIGERATOR		FREEZER	Freeze protection: Grade A
<b>Vaccine storage capacity: (Litres)</b>	27		
<b>Gross volume (Litres):</b>	30	<b>Gross volume:</b>	N/A
<b>Holdover time (hours):</b>	77.2	<b>Waterpack freezing capacity:</b>	N/A
<b>Energy consumption, stable running (kWh/24 hours):</b>	1.682		N/A
		<b>Waterpack storage capacity:</b>	
<b>Energy consumption, cool down test (kWh/24 hours):</b>	2.556	<b>Energy consumption during freezing:</b>	N/A

**Comments:** Fitted with automatic voltage stabilised protector. Unit uses Sure Chill ® technology

**Accessories:** 3 shelves; liquid PCM to mix with water  
Optional: Extra shelves; drawers; waterpacks; plywood packaging, 2 padlocks (There are 2 lockable latches per unit)

**Spare parts (ref, price):** Included in the UNICEF Supply Division spare parts kit:  
1 No. Compressor - Part No. IMPC10  
1 No. Condenser - Part No. IMP65  
1 No. Condenser Fan Set - Part No. IMP65  
1 No. Electronic Card / Thermostat - Part No. IMP70  
1 No. Voltage Stabiliser - Part No. SOLLATEK ASP04 IMPA10  
1 No. Start Relay - Part No. ZLFAC  
1 No. Capacitor - Part No. ZLFAC

Other parts are available as spares on request.

<b>Shipping volume:</b>	0.372 m³	<b>Shipping weight:</b>	65 kg
<b>Price year</b>	2016	<b>Incoterms</b>	EXW
<b>Price</b>	1-49 units: 1,192 USD	50-99 units: 1,162 USD	100 or more units: 1,132 USD
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	101911483MKS-001	<b>Verification laboratory:</b>	

**Current PQS status:** pre-qualified: 05 Jun 2015

**Validity until:** May, 2022

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

**E003:****Refrigerators and freezers**

<b>PQS code:</b>	<b>E003/052</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	ZLF 150 DC (SureChill ®)
<b>Manufactured in:</b>	South Africa
<b>Company:</b>	Zero Appliances (Pty) Ltd
<b>Address:</b>	P.O. Box 426 Edenvale 1610 Gauteng Province South Africa
<b>Telephone:</b>	(010) 207 1600
<b>Email:</b>	<a href="mailto:rudi@zeroappliances.co.za">rudi@zeroappliances.co.za</a> ; <a href="mailto:brigitte@zeroappliances.co.za">brigitte@zeroappliances.co.za</a>
<b>Web address:</b>	<a href="http://www.zeroappliances.co.za">www.zeroappliances.co.za</a>

**Specifications**

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R134a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	189 x 83 x 71
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	128	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	161	<b>Waterpack freezing capacity:</b>	N/A
		<b>Waterpack storage capacity:</b>	N/A
<b>Autonomy as per WHO/PQS protocols</b>	131 h 38 mins	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

**Warning !**

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<b>Comments:</b>		Unit uses Sure Chill ® technology. Entire system is plug and play with MC4 (MIC) connectors, on board isolator and surge protector. The array frame is roof adjustable. Price does not include solar system: 1,350 USD;	
<b>Accessories:</b>		Additional shelves; Liquid to mix with water; Optional: extra shelves, drawers, waterpacks, plywood packaging, 2 padlocks	
<b>Spare parts (ref, price):</b>		Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor - Part No. IMPC151 1 No. Compressor controller - Part No. IMP152 1 No. Fan Set - Part No. IMP144 1 No. Condenser - Part No. IMP145 1 No. Thermostat - Part No. IMP012 1 No. 24 V Surge Protector - Part No. ELSP15 1 No. Capacitor - Part No. ZLFDC  Other parts are available as spares on request.	
<b>Shipping volume:</b>	1.22 m3	<b>Shipping weight:</b>	120 kg
<b>Price year</b>	2016	<b>Incoterms</b>	EXW
<b>Price</b>	1-49 units: 4,355 USD	50-99 units: 4,246 USD	100 or more units: 4,137 USD
<b>Quality standard:</b>	- ISO 9001:2008 -		<b>Specification ref.</b>
<b>Verification report:</b>	101861736MKS-001	<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified: 05 Jun 2015</i>		<b>Validity until:</b> <i>May, 2022</i>

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





PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/055</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	ZLF 30DC SDD (SureChill ®)
<b>Manufactured in:</b>	South Africa
<b>Company:</b>	Zero Appliances (Pty) Ltd
<b>Address:</b>	P.O. Box 426 Edenvale 1610 Gauteng Province South Africa
<b>Telephone:</b>	(010) 207 1600
<b>Email:</b>	<a href="mailto:rudi@zeroappliances.co.za">rudi@zeroappliances.co.za</a> ; <a href="mailto:brigitte@zeroappliances.co.za">brigitte@zeroappliances.co.za</a>
<b>Web address:</b>	<a href="http://www.zeroappliances.co.za">www.zeroappliances.co.za</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	102.5 x 56 x 60 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	27 L	<b>Gross volume (Liters):</b>	n/a
<b>Gross volume (Liters):</b>	30 L	<b>Waterpack freezing capacity:</b>	n/a
		<b>Waterpack storage capacity:</b>	n/a
<b>Autonomy as per WHO/PQS protocols</b>	77h 03 mins	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

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Unit uses Sure Chill ® technology. Entire system is plug and play with MC4 (MIC) connectors, on board isolator and surge protector. The array frame is roof adjustable.  
Price does not include solar system: 900 USD

**Comments:**

**Accessories:**

Additional, Shelves, Liquid to dilute with water,  
Optional: extra shelves, drawers, waterpumps, plywood packaging, 1 padlock

**Spare parts (ref, price):**

Included in the UNICEF Supply Division spare parts kit:  
1 No. Compressor - Part No. IMPC07  
1 No. Compressor controller - Part No. IMP152  
1 No. Fan Set - Part No. IMP144  
1 No. Condenser - Part No. IMP145  
1 No. Electronic card- Part No. IMP012  
1 No. 24 V Surge Protector - Part No. ELSP15  
1 No. Capacitor - Part No. ZLFDC

Other parts are available as spares on request.

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<b>Shipping volume:</b>	0.372 m3	<b>Shipping weight:</b>	65 KG
<b>Price year</b>	2016	<b>Incoterms</b>	EXW
<b>Price</b>	1-49 units: 2,064 USD	50-99 units: 2,013 USD	100 or more units: 1,961 USD
<b>Quality standard:</b>	- ISO 9001:2008 -		
	<b>Specification ref.</b>		
<b>Verification report:</b>	300-KLAB-15-132	<b>Verification laboratory:</b>	Danish Technological Institute

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<b>Current PQS status:</b>	<i>pre-qualified: 09 Sep 2015</i>	<b>Validity until:</b>	<i>May, 2022</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/057</b>
<b>Type of appliance:</b>	Solar direct drive combined refrigerator/freezer
<b>Manufacturer's reference:</b>	HTCD-160-SDD
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of

<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	169.5 x 86.5 x 82.5
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	100L	<b>Gross volume (Liters):</b>	40L
<b>Gross volume (Liters):</b>	120L	<b>Waterpack freezing capacity:</b>	2.08 Kg/24h
		<b>Waterpack storage capacity:</b>	10.68 Kg
<b>Autonomy as per WHO/PQS protocols</b>	121 hrs 27 mins	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

	Prices include solar system		
	1. Display: Solar LED Temperature Display		
	2. Voltage of Solar panel: 24V		
	3. Power of Solar Panel: 255W*3		
<b>Comments:</b>	4. Optional: Remote temperature monitoring device		
<b>Accessories:</b>	2 shelves; 2 padlocks; Instruction manual; Water injection device; Water preservative		
<b>Spare parts (ref, price):</b>	Included in the UNICEF Supply Division spare parts kit: 2 No. Dry filter -Part No. 0060703262 1 No. Thermostat - Part No. 0274000352 1 No. Capacitor - Part No. 0274000393 2 No. Display - Part No. 0274000357 1 No. Compressor BD-35K -Part No.0274000118A 1 No. Compressor controller (E-Box) - Part No. 0274000118FJ 1 No. Fan Set - Part No.0274000351 1 No. Main Switch - Part No. 0274000354B 1 No. USB charging port - Part No. 0274000389 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. 0270501015 2 No. Indicator - Part No. 0074000574  Other parts are available as spares on request.		
<b>Shipping volume:</b>	1.6 m3	<b>Shipping weight:</b>	186 Kg
<b>Price year</b>	2021	<b>Incoterms</b>	FCA
<b>Price</b>	1-100units USD 6500	>100units USD 6400	
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 13485		<b>Specification ref.</b>
	- ISO 14001 -		
<b>Verification report:</b>	WB-15-227	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	<i>pre-qualified: 17 Sep 2015</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/058</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	Dulas VC110SDD
<b>Manufactured in:</b>	United Kingdom
<b>Company:</b>	Dulas Ltd
<b>Address:</b>	Dyfi Eco Parc Machynlleth Powys SY20 8AX United Kingdom
<b>Telephone:</b>	+ 44 (0)1654 705055
<b>Email:</b>	<a href="mailto:solar@dulas.org.uk">solar@dulas.org.uk</a>
<b>Web address:</b>	<a href="http://www.dulassolar.org/">http://www.dulassolar.org/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	98 x 128.2 x 74.0 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	110L	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	205L	<b>Waterpack freezing capacity:</b>	
		<b>Waterpack storage capacity:</b>	
<b>Autonomy as per WHO/PQS protocols</b>	78h 09 mins	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

Supplied as standard with Integrated Beyond ICE3 BC141 Remote Temperature Monitoring Device. Fully compliant to WHO PQS E006/TR03.2. See separate registration E006/036 for full details. Beyond's Remote Temperature Monitoring System (RTMS) provides real-time monitoring and reporting of cold chain assets in one easy to use cloud-based portal. Accessible via PC or Smartphone App and able to connect to any existing Beyond cold chain management system. PQS price includes BC141 hardware integrated to every refrigerator.

ColdCloud subscription services are an optional extra cost that can be added at purchase or retrospectively, and remotely activated without additional installation costs. For more information contact Dulas Ltd.

**Comments:** Integrated PCM internal lining used as part of Dulas Freeze Free technology. PCM lining complies with WHO/PQS/ E005/PCMC0.1 specification.

**Accessories:** Always on temperature display; Audible and visual temperature alarms with high and low alarms aligned with WHO limits; 120 days local data storage; 30-day report of temperature history available as a pdf by scanning QR code on refrigerator; Handle with in-built lock; Instruction manual; Replaceable lid gaskets; Baskets (5): 47.0 x 30.5 x 21.5 cm = 22L

**Spare parts (ref, price):** Included in the UNICEF Supply Division spare parts kit:  
1 No. Compressor (Secop BD35K) - Part No. 101Z0211  
1 No. Electronic Control Unit (Secop) - Part No. 101N0420  
1 No. Dulas SDD-SC controller  
1 No. Fridge MCB - Part No. 693-CBTWF060C0  
1 No. Temperature Probe - Part No. SN4B15P1

Other parts are available as spares on request.

**Shipping volume:** 1.2 m3 **Shipping weight:** 129 Kg

**Price year** 2023 **Incoterms** EXW

**Price** >100 units €4,125.00  
includes solar system

**Quality standard:** - ISO 9001:2008 - Other - **Specification ref.**  
ISO 14000 -

**Verification report:** 300-KLAB-13-194-3 **Verification laboratory:** Danish Technological Institute

**Current PQS status:** *pre-qualified: 18 Sep 2015* **Validity until:** *May, 2024*

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



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/059</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	VC88SDD
<b>Manufactured in:</b>	United Kingdom
<b>Company:</b>	Dulas Ltd
<b>Address:</b>	Dyfi Eco Parc Machynlleth Powys SY20 8AX United Kingdom
<b>Telephone:</b>	+ 44 (0)1654 705055
<b>Email:</b>	<a href="mailto:solar@dulas.org.uk">solar@dulas.org.uk</a>
<b>Web address:</b>	<a href="http://www.dulassolar.org/">http://www.dulassolar.org/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	98 x 128.2 x 74.0 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	88L	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	205L	<b>Waterpack freezing capacity:</b>	
		<b>Waterpack storage capacity:</b>	
<b>Autonomy as per WHO/PQS protocols</b>	78h 09 mins	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

Supplied as standard with Integrated Beyond ICE3 BC141 Remote Temperature Monitoring Device. Fully compliant to WHO PQS E006/TR03.2. See separate registration E006/036 for full details. Beyond's Remote Temperature Monitoring System (RTMS) provides real-time monitoring and reporting of cold chain assets in one easy to use cloud-based portal. Accessible via PC or Smartphone App and able to connect to any existing Beyond cold chain management system. PQS price includes BC141 hardware integrated to every refrigerator.

ColdCloud subscription services are an optional extra cost that can be added at purchase or retrospectively, and remotely activated without additional installation costs. For more information contact Dulas Ltd.

Integrated PCM internal lining used as part of Dulas Freeze Free technology. PCM lining complies with WHO/PQS/E005/PCMC0.1 specification

**Comments:**

**Accessories:**

Always on temperature display; Audible and visual temperature alarms with high and low alarms aligned with WHO limits; 120 days local data storage; 30-day report of temperature history available as a pdf by scanning QR code on refrigerator; Handle with in-built lock; Instruction manual; Replaceable lid gaskets; Baskets (4): 47.0 x 30.5 x 21.5 cm = 22L

**Spare parts (ref, price):**

Included in the UNICEF Supply Division spare parts kit:  
1 No. Compressor (Secop BD35K) - Part No. 101Z0211  
1 No. Electronic Control Unit (Secop) - Part No. 101N0410  
1 No. Dulas SDD-SC controller  
1 No. Fridge MCB- Part No. 693-CBTWF060C0  
1 No. Temperature Probe - Part No. SN4B15P1

Other parts are available as spares on request.

<b>Shipping volume:</b>	1.2 m3	<b>Shipping weight:</b>	129 Kg
<b>Price year</b>	2023	<b>Incoterms</b>	EXW
<b>Price</b>	>100 units €4,015.00 per complete system		
<b>Quality standard:</b>	- ISO 9001:2008 - Other - ISO 14000 -		<b>Specification ref.</b>
<b>Verification report:</b>	300-KLAB-13-194-2	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>	<i>pre-qualified: 23 Sep 2015</i>		<b>Validity until:</b> <i>May, 2024</i>

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





PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/060</b>
<b>Type of appliance:</b>	Vaccine/waterpacks freezer
<b>Manufacturer's reference:</b>	DW-25W147
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Aucma Global Medical Co.,Ltd.
<b>Address:</b>	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China
<b>Telephone:</b>	+86 532 86763602
<b>Email:</b>	<a href="mailto:lishouda@aucma.com.cn">lishouda@aucma.com.cn</a> ; <a href="mailto:info@aucma.com.cn">info@aucma.com.cn</a>
<b>Web address:</b>	<a href="http://aucmaglobal.com.cn">http://aucmaglobal.com.cn</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	790x595x880 mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

REFRIGERATOR		FREEZER	Freeze protection: N/A
<b>Vaccine storage capacity: (Litres)</b>	96		
<b>Gross volume (Litres):</b>	N/A	<b>Gross volume:</b>	147L
<b>Holdover time (hours):</b>	6hr 44mins	<b>Waterpack freezing capacity:</b>	14.5kg/24h
<b>Energy consumption, stable running (kWh/24 hours):</b>	3.31kWh/24h		19.4kg
		<b>Waterpack storage capacity:</b>	
<b>Energy consumption, cool down test (kWh/24 hours):</b>	2.81kWh/24h	<b>Energy consumption during freezing:</b>	Not done

### Comments:

### Accessories:

<b>Spare parts (ref, price):</b>	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor 1 No. Electronic thermostat 1 No. Fan
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Other parts are available as spares on request.

<b>Shipping volume:</b>	0.41m3	<b>Shipping weight:</b>	45kg
<b>Price year</b>	2016	<b>Incoterms</b>	EXW
<b>Price</b>	1-99 units, USD 450	100-199 units, USD 430	>200 units, USD 400
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WB-14-039	<b>Verification laboratory:</b>	CHEARI

<b>Current PQS status:</b>	pre-qualified: 02 Nov 2015	<b>Validity until:</b>	May, 2024
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/061</b>
<b>Type of appliance:</b>	Vaccine/waterpacks freezer
<b>Manufacturer's reference:</b>	DW-25W300
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Aucma Global Medical Co.,Ltd.
<b>Address:</b>	315 Qianwangang Road, Economic & Technological Development Zone, Qingdao, China
<b>Telephone:</b>	+86 532 86763602
<b>Email:</b>	<a href="mailto:lishouda@aucma.com.cn">lishouda@aucma.com.cn</a> ; <a href="mailto:info@aucma.com.cn">info@aucma.com.cn</a>
<b>Web address:</b>	<a href="http://aucmaglobal.com.cn">http://aucmaglobal.com.cn</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	1226x790x945 mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

REFRIGERATOR		FREEZER	Freeze protection: N/A
<b>Vaccine storage capacity: (Litres)</b>	240L		
<b>Gross volume (Litres):</b>		<b>Gross volume:</b>	300L
<b>Holdover time (hours):</b>	58hr 36Mins	<b>Waterpack freezing capacity:</b>	38.3kg/24h
<b>Energy consumption, stable running (kWh/24 hours):</b>	3.37kWh/24h		44.3kg
		<b>Waterpack storage capacity:</b>	
<b>Energy consumption, cool down test (kWh/24 hours):</b>	3.54kWh/24h	<b>Energy consumption during freezing:</b>	

### Comments:

### Accessories:

<b>Spare parts (ref, price):</b>	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor 1 No. Electronic thermostat 1 No. Fan
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Other parts are available as spares on request.

<b>Shipping volume:</b>	0.92 m3	<b>Shipping weight:</b>	75kg
<b>Price year</b>	2016	<b>Incoterms</b>	
<b>Price</b>	1-99 units, USD 540	100-199 units, USD 520	>200 units, USD 490
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WB-14-041	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	pre-qualified: 02 Nov 2015	<b>Validity until:</b>	May, 2024

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



PERFORMANCE QUALITY SAFETY



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/066</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	TCW 4000 AC
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsyste.ms.com">info@bmedicalsyste.ms.com</a> , <a href="mailto:Gilles.Ries@bmedicalsyste.ms.com">Gilles.Ries@bmedicalsyste.ms.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsyste.ms.com">Admilson.Pinto@bmedicalsyste.ms.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsyste.ms.com">www.bmedicalsyste.ms.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	91.5 x 162.5 x 78 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

**Freeze protection: Grade A**

**Vaccine storage capacity:** 240  
(Litres)

**Gross volume (Litres):** 249

**Holdover time (hours):** 77h 18min

**Energy consumption, stable running (kWh/24 hours):** 0.85

**Energy consumption, cool down test (kWh/24 hours):** 1.24

**Gross volume:** N/A

**Waterpack freezing capacity:** N/A

**Waterpack storage capacity:** N/A

**Waterpack storage capacity:**

**Energy consumption during freezing:** N/A

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.			
Comments:	Optionally available in 115V/60Hz.		
Accessories:	6 baskets; 2 keys; 1 brush; 2 spacers; documentation		
Spare parts (ref, 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.		
Shipping volume:	1,39 m3	Shipping weight:	183 kg
Price year	2022	Incoterms	EXW
Price	>100 units incl. a 30DTR 3558 €		
Quality standard:	- ISO 13485 - ISO 14001 - ISO 9001 -	Specification ref.	
Verification report:	WHO 15-034 corr 2	Verification laboratory:	CEMAFROID SAS
Current PQS status:	pre-qualified: 08 Mar 2016		Validity until: May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/067</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	TCW 15R SDD
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsistemas.com">info@bmedicalsistemas.com</a> , <a href="mailto:Gilles.Ries@bmedicalsistemas.com">Gilles.Ries@bmedicalsistemas.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsistemas.com">Admilson.Pinto@bmedicalsistemas.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsistemas.com">www.bmedicalsistemas.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+10°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	950 x 730 x 730mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	16	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	26,5	<b>Waterpack freezing capacity:</b>	N/A
		<b>Waterpack storage capacity:</b>	N/A
<b>Autonomy as per WHO/PQS protocols</b>	81.8	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<b>Comments:</b>		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 2 or 10 years as the case may be. For more information and further conditions of warranty, please contact B Medical Systems	
<b>Accessories:</b>		2 baskets; 2 keys; 1 brush; 2 spacers; documentation	
<b>Spare parts (ref, price):</b>		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. Electronic thermostat/controller - Part No. 296.9768.62 1 No. Fan (12-28 V, 5.6W) - Part No. 292.9960.09  Other parts are available as spares on request.	
<b>Shipping volume:</b>	0,65 m3	<b>Shipping weight:</b>	85 kg
<b>Price year</b>	2019	<b>Incoterms</b>	EXW
<b>Price</b>	> 100 units: G1: 3,788 €; G2: 4049 €		
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 13485 - ISO 14001 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WHO-16-002	<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Current PQS status:</b>	<i>pre-qualified: 25 May 2016</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/068</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	TCW 40R SDD
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsyste.ms.com">info@bmedicalsyste.ms.com</a> , <a href="mailto:Gilles.Ries@bmedicalsyste.ms.com">Gilles.Ries@bmedicalsyste.ms.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsyste.ms.com">Admilson.Pinto@bmedicalsyste.ms.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsyste.ms.com">www.bmedicalsyste.ms.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	90 x 103 x 78 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	36	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	46.6	<b>Waterpack freezing capacity:</b>	N/A
		<b>Waterpack storage capacity:</b>	N/A
<b>Autonomy as per WHO/PQS protocols</b>	81 hours 54 min	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<b>Comments:</b>		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 2 or 10 years as the case may be. For more information and further conditions of warranty, please contact B Medical Systems	
<b>Accessories:</b>		1 basket; 2 keys; 1 brush; 1 pan for drain; documentation	
<b>Spare parts (ref, price):</b>		Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No. 296.9702.09 1 No. Electronic Control Unit - Part No. 296.9705.24 1 No. Electronic thermostat/controller (3-SEN) - Part No. 296.9769.98 1 No. Fan (12-28 V, 5.6W) - Part No.292.9960.09  Other parts are available as spares on request.	
<b>Shipping volume:</b>	0.88m3	<b>Shipping weight:</b>	120kg
<b>Price year</b>	2019	<b>Incoterms</b>	EXW
<b>Price</b>	> 100 units: G1: 4326 €; G2: 4791 €		
<b>Quality standard:</b>	- ISO 13485 - ISO 14001 - ISO:9001 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WHO-13-024	<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Current PQS status:</b>	<i>pre-qualified: 16 Mar 2016</i>		<b>Validity until:</b> <i>May, 2024</i>

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





## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/069</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	VLS 024 SDD
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark
<b>Telephone:</b>	+45 7914 2555; +45 7914 2248
<b>Email:</b>	<a href="mailto:clc@vestfrostsolutions.com">clc@vestfrostsolutions.com</a> ; <a href="mailto:bjn@vestfrostsolutions.com">bjn@vestfrostsolutions.com</a>
<b>Web address:</b>	<a href="http://vestfrostsolutions.com/">http://vestfrostsolutions.com/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	83.0 x55.5 x 64.5 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	25.5	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	36	<b>Waterpack freezing capacity:</b>	N/A
		<b>Waterpack storage capacity:</b>	N/A
<b>Autonomy as per WHO/PQS protocols</b>	81.7 hours	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

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.

**Comments:**

**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

**Spare parts (ref, price):**

Included in the UNICEF Supply Division spare parts kit:  
1 No. Compressor -1 10-45 V - Part No. 8-036510223  
1 No. Electronic thermostat/controller - Part No. 702090013  
1 No. Fan Set - Part No. 7090403  
1 No Thermometer - Part No. 7020287-03  
1 No Electronic control unit - Part No. 6520845 (incl. in compressor)

Other parts are available as spares on request.

<b>Shipping volume:</b>	0,63 m3	<b>Shipping weight:</b>	75 kg
<b>Price year</b>	2020	<b>Incoterms</b>	FCA
<b>Price</b>	1-99 units: 2,804 €	100-199 units:2598 €	200 or more units: 2560 €
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001 -	<b>Specification ref.</b>	
<b>Verification report:</b>	300-KLAB-15-174	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>	<i>pre-qualified: 08 Apr 2016</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/070</b>
<b>Type of appliance:</b>	Combined icelined refrigerator/waterpacks freezer
<b>Manufacturer's reference:</b>	VLS 064 RF AC
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

**Telephone:** +45 7914 2555; +45 7914 2248

**Email:** [clc@vestfrostsolutions.com](mailto:clc@vestfrostsolutions.com);  
[bjn@vestfrostsolutions.com](mailto:bjn@vestfrostsolutions.com)

**Web address:** <http://vestfrostsolutions.com/>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+10°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	84.5 x 72.5x 71.0 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

**Freeze protection: Grade A**

**Vaccine storage capacity:** 52.5L  
(Litres)

**Gross volume (Litres):** 75L

**Holdover time (hours):** 45 hours

**Energy consumption, stable running (kWh/24 hours):** 0.63 kWh/24h

**Energy consumption, cool down test (kWh/24 hours):** 1.51

**Gross volume:** 5.1L

**Waterpack freezing capacity:** 1.6Kg  
6 x 0.6L

**Waterpack storage capacity:**

**Energy consumption during freezing:** 1.80

<p>Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features.</p> <p>Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance.</p> <p>For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable.</p> <p>Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc.</p> <p>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</p> <p>For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz</p> <p>For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz</p> <p>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.</p>			
<b>Comments:</b>			
<b>Accessories:</b>		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	
<b>Spare parts (ref, price):</b>		<p>Included in the UNICEF Supply Division spare parts kit:</p> <p>1 No Compressor - NL7,3MF, Complete - Part No.8-036038987</p> <p>1 No Thermostat, XR50CX - unidad de refrigeración - Part No.7095229</p> <p>1 No Thermostat, XR50CX - freezer - Part No.7095209</p> <p>1 No Starting device, 117U6016 - Part No.6520360</p> <p>1 No Thermometer, solar - Part No.7020287-03</p> <p>Other parts are available as spares on request.</p>	
<b>Shipping volume:</b>	0,58 m3	<b>Shipping weight:</b>	98 kg
<b>Price year</b>	2020	<b>Incoterms</b>	FCA
<b>Price</b>	1-99 units: 1,295 €		
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001	<b>Specification ref.</b>	
	-		
<b>Verification report:</b>	300-KLAB-15-181	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>		<i>pre-qualified: 08 Apr 2016</i>	
		<b>Validity until:</b> <i>May, 2024</i>	

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/071</b>
<b>Type of appliance:</b>	Waterpacks freezer
<b>Manufacturer's reference:</b>	TFW 3000 AC
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsistemas.com">info@bmedicalsistemas.com</a> , <a href="mailto:Gilles.Ries@bmedicalsistemas.com">Gilles.Ries@bmedicalsistemas.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsistemas.com">Admilson.Pinto@bmedicalsistemas.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsistemas.com">www.bmedicalsistemas.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	
<b>Refrigerant:</b>	#R290	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	91.0 x 127.0 x 78.0
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

REFRIGERATOR		FREEZER	Freeze protection: N/A
<b>Vaccine storage capacity: (Litres)</b>	N/A		
<b>Gross volume (Litres):</b>	N/A	<b>Gross volume:</b>	204 L
<b>Holdover time (hours):</b>		<b>Waterpack freezing capacity:</b>	54 x 0.6L - 32kg/24h
<b>Energy consumption, stable running (kWh/24 hours):</b>	2.15		162 x 0.6 L
		<b>Waterpack storage capacity:</b>	
<b>Energy consumption, cool down test (kWh/24 hours):</b>	2.20	<b>Energy consumption during freezing:</b>	

**Comments:** This appliance is a waterpacks fast freezer - it uses propane as a coolant.

**Accessories:** 6 baskets; 54 waterpacks 0.6 L; 2 keys; 1 brush; 2 spacers, documentation

**Spare parts (ref, 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  
1 No. Start capacitor

Other parts are available as spares on request. .

<b>Shipping volume:</b>	1,07 m3	<b>Shipping weight:</b>	126 kg
<b>Price year</b>	2019	<b>Incoterms</b>	EXW
<b>Price</b>	> 100 units: 2,622 €		
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 13485 - ISO 14001 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WHO 16-001	<b>Verification laboratory:</b>	CEMAFROID SAS

**Current PQS status:** pre-qualified: 25 May 2016

**Validity until:** May, 2024

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



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/072</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	VC225ILR
<b>Manufactured in:</b>	United Kingdom
<b>Company:</b>	Dulas Ltd
<b>Address:</b>	Dyfi Eco Parc Machynlleth Powys SY20 8AX United Kingdom
<b>Telephone:</b>	+ 44 (0)1654 705055
<b>Email:</b>	<a href="mailto:solar@dulas.org.uk">solar@dulas.org.uk</a>
<b>Web address:</b>	<a href="http://www.dulassolar.org/">http://www.dulassolar.org/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	98 x 128.2 x 74.0 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

REFRIGERATOR		FREEZER		Freeze protection: Grade A
<b>Vaccine storage capacity:</b> (Litres)	184 L			
<b>Gross volume (Litres):</b>	203 L	<b>Gross volume:</b>	N/A	
<b>Holdover time (hours):</b>	94	<b>Waterpack freezing capacity:</b>	N/A	
<b>Energy consumption, stable running (kWh/24 hours):</b>	0.803	<b>Waterpack storage capacity:</b>	N/A	
<b>Energy consumption, cool down test (kWh/24 hours):</b>	0.764	<b>Energy consumption during freezing:</b>	N/A	

Supplied as standard with Integrated Beyond ICE3 BC141 Remote Temperature Monitoring Device. Fully compliant to WHO PQS E006/TR03.2. See separate registration E006/036 for full details. Beyond's Remote Temperature Monitoring System (RTMS) provides real-time monitoring and reporting of cold chain assets in one easy to use cloud-based portal. Accessible via PC or Smartphone App and able to connect to any existing Beyond cold chain management system. PQS price includes BC141 hardware integrated to every refrigerator.

ColdCloud subscription services are an optional extra cost that can be added at purchase or retrospectively, and remotely activated without additional installation costs. For more information contact Dulas Ltd.

Integrated PCM internal lining used as part of Dulas Freeze Free technology. PCM lining complies with WHO/PQS/E005/PCMC0.1 specification.

Includes Dulas PS-ILR-002XT extended range voltage stabiliser and power supply, with input range 110-280V (optionally 82V-159V available). PQS prequalified according to E007/VS01.5 with MCOV of 415V

**Comments:**

**Accessories:**

Always on temperature display; Audible and visual temperature alarms with high and low alarms aligned with WHO limits; 120 days local data storage; 30-day report of temperature history available as a pdf by scanning QR code on refrigerator; Handle with in-built lock; Instruction manual; Replaceable lid gaskets.

**Spare parts (ref, price):**

Included in the UNICEF Supply Division spare parts kit:  
1 No. Compressor (Secop BD35K) - Part No. 101Z0211  
1 No. Electronic Control Unit (Secop) - Part No. 101N0420  
1 No. MCB Fridge - Part No. 693-CBTWF060C0  
1 No. Dulas ILR Controller  
1 No. Temperature probes - Part No. SN4B15P1

Other parts are available as spares on request.

<b>Shipping volume:</b>	1.29 m3	<b>Shipping weight:</b>	172 kg
<b>Price year</b>	2023	<b>Incoterms</b>	EXW
<b>Price</b>	>100 units €2,860.00 per unit		
<b>Quality standard:</b>	- ISO 9001:2008 - Other - ISO 14000 -	<b>Specification ref.</b>	
<b>Verification report:</b>	300-KLAB-16-110	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>	<i>pre-qualified: 25 May 2016</i>	<b>Validity until:</b>	<i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/073</b>
<b>Type of appliance:</b>	Solar direct drive freezer
<b>Manufacturer's reference:</b>	TFW 40 SDD
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsyste.ms.com">info@bmedicalsyste.ms.com</a> , <a href="mailto:Gilles.Ries@bmedicalsyste.ms.com">Gilles.Ries@bmedicalsyste.ms.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsyste.ms.com">Admilson.Pinto@bmedicalsyste.ms.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsyste.ms.com">www.bmedicalsyste.ms.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	N/A
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	90 x 103 x 78 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: N/A</b>
<b>Vaccine storage capacity: (Liters)</b>	N/A	<b>Gross volume (Liters):</b>	64 L
<b>Gross volume (Liters):</b>	N/A	<b>Waterpack freezing capacity:</b>	2.16 kg/24h (4 packs of 0.6L)
		<b>Waterpack storage capacity:</b>	11.24 kg (20 waterpacks)
<b>Autonomy as per WHO/PQS protocols</b>	5 days	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day
<b>Warning !</b> For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.			
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			
<b>Comments:</b>			
<b>Accessories:</b>	8 waterpacks 0.6 L; 8 waterpacks holders; 2 keys; 1 brush; 2 spacers; documentation		
<b>Spare parts (ref, price):</b>	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No.296.9702.09 1 No. Electronic Control Unit - Part No. 296.9705.24 1 No. Electronic thermostat/controller - Part No.296.9769.92 1 No. Fan (12-28 V, 5.6W) - Part No.292.9960.09  Other parts are available as spares on request.		
<b>Shipping volume:</b>	0,88 m3	<b>Shipping weight:</b>	119 kg
<b>Price year</b>	2019	<b>Incoterms</b>	EXW
<b>Price</b>	> 100 units: G1:4097 €; G2: 4360 €		
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 13485 - ISO 14001 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WHO-15036 corr 1	<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Current PQS status:</b>	pre-qualified: 26 May 2016		<b>Validity until:</b> May, 2024

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





## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/074</b>
<b>Type of appliance:</b>	Solar direct drive combined refrigerator/freezer
<b>Manufacturer's reference:</b>	HTCD 90 SDD
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of

<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	720 mm x 875mm x 1128mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	37.5	<b>Gross volume (Liters):</b>	32
<b>Gross volume (Liters):</b>	58	<b>Waterpack freezing capacity:</b>	2.43 Kg/24h
		<b>Waterpack storage capacity:</b>	12
<b>Autonomy as per WHO/PQS protocols</b>	114.9	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<b>Comments:</b>	180W x 4 or 360Wx 2 Solar Panel power Price includes 30 days temperature logger		
<b>Accessories:</b>	Baskets; manuals; keys		
<b>Spare parts (ref, price):</b>	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.		
<b>Shipping volume:</b>	0.98 m3	<b>Shipping weight:</b>	113 KG
<b>Price year</b>	2023	<b>Incoterms</b>	FCA
<b>Price</b>	Price: USD 5275	>100units USD 4656	
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 13485 - ISO 14001 -		<b>Specification ref.</b>
<b>Verification report:</b>	WB-16-153	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	<i>pre-qualified: 06 Jun 2016</i>		<b>Validity until:</b> <i>May, 2024</i>

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

**E003:****Refrigerators and freezers**

<b>PQS code:</b>	<b>E003/075</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	HTC 40 SDD
<b>Manufactured in:</b>	
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

**Specifications**

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	720x875x788mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	22.5	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	40	<b>Waterpack freezing capacity:</b>	N/A
		<b>Waterpack storage capacity:</b>	N/A
<b>Autonomy as per WHO/PQS protocols</b>	117	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

**Warning !**

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

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			
Comments:			
Accessories:	2 baskets; manuals; keys		
Spare parts (ref, 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.		
Shipping volume:	0.70m3	Shipping weight:	82KG
Price year	2016	Incoterms	FCA
Price	1-100units USD 2550	>100units USD 2450	
Quality standard:	- ISO 9001:2008 - ISO 13485 - ISO 14001 -	Specification ref.	
Verification report:	WB-16-151	Verification laboratory:	CHEARI
Current PQS status:	pre-qualified: 06 Jun 2016		Validity until: May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/076</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	HTC 110 SDD
<b>Manufactured in:</b>	
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	720*875*1128mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	59	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	110	<b>Waterpack freezing capacity:</b>	N/A
		<b>Waterpack storage capacity:</b>	N/A
<b>Autonomy as per WHO/PQS protocols</b>	96	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

	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		
Comments:			
Accessories:	4 baskets; manuals; keys		
Spare parts (ref, 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		
Shipping volume:	0.98m3	Shipping weight:	105KG
Price year	2021	Incoterms	FCA
Price	1-100units USD 2900	>100units	USD 2800
Quality standard:	- ISO 9001:2008 - ISO 13485 - ISO 14001 -	Specification ref.	
Verification report:	WB-16-152	Verification laboratory:	CHEARI
Current PQS status:	pre-qualified: 06 Jun 2016		Validity until: May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/077</b>
<b>Type of appliance:</b>	Solar direct drive combined refrigerator/freezer
<b>Manufacturer's reference:</b>	TCW15 SDD
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsyste.ms.com">info@bmedicalsyste.ms.com</a> , <a href="mailto:Gilles.Ries@bmedicalsyste.ms.com">Gilles.Ries@bmedicalsyste.ms.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsyste.ms.com">Admilson.Pinto@bmedicalsyste.ms.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsyste.ms.com">www.bmedicalsyste.ms.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	95x73x73cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	16 Litres	<b>Gross volume (Liters):</b>	2.4 Litres
<b>Gross volume (Liters):</b>	26.5 Litres	<b>Waterpack freezing capacity:</b>	1.97 kg
		<b>Waterpack storage capacity:</b>	4 x 0.6L waterpacks
<b>Autonomy as per WHO/PQS protocols</b>	84 hours	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<b>Comments:</b>		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 2 or 10 years as the case may be. For more information and further conditions of warranty, please contact B Medical Systems	
<b>Accessories:</b>		2 baskets; 4 water-packs 0.6 L; 4 water-pack holders; 2 keys; 1 brush; 2 spacers; documentation	
<b>Spare parts (ref, price):</b>		Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No.296.9702.09 1 No. Electronic Control Unit - Part No.296.9705.12 1 No. Electronic thermostat/controller - Part No.296.9769.82 1 No. Fan (12-28 V, 5.6W) - Part No.292.9960.09  Other parts are available as spares on request.	
<b>Shipping volume:</b>	0.65 m3	<b>Shipping weight:</b>	87 kg
<b>Price year</b>	2019	<b>Incoterms</b>	EXW
<b>Price</b>	> 100 units: G1: 3819 €; G2: 4081 €		
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 13485 - Other - ISO/TS 16949:2009 -		<b>Specification ref.</b>
<b>Verification report:</b>	WHO 16-014 and WHO 16-015	<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Current PQS status:</b>	<i>pre-qualified: 13 Sep 2016</i>		<b>Validity until:</b> <i>May, 2024</i>

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





## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/078</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	VC50SDD
<b>Manufactured in:</b>	United Kingdom
<b>Company:</b>	Dulas Ltd
<b>Address:</b>	Dyfi Eco Parc Machynlleth Powys SY20 8AX United Kingdom
<b>Telephone:</b>	+ 44 (0)1654 705055
<b>Email:</b>	<a href="mailto:solar@dulas.org.uk">solar@dulas.org.uk</a>
<b>Web address:</b>	<a href="http://www.dulassolar.org/">http://www.dulassolar.org/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	97.5 x 100 x 74.0 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	52.5 litres	<b>Gross volume (Liters):</b>	
<b>Gross volume (Liters):</b>	82 litres	<b>Waterpack freezing capacity:</b>	
		<b>Waterpack storage capacity:</b>	
<b>Autonomy as per WHO/PQS protocols</b>	74hrs 15mins	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

Supplied as standard with Integrated Beyond ICE3 BC141 Remote Temperature Monitoring Device. Fully compliant to WHO PQS E006/TR03.2. See separate registration E006/036 for full details. Beyond's Remote Temperature Monitoring System (RTMS) provides real-time monitoring and reporting of cold chain assets in one easy to use cloud-based portal. Accessible via PC or Smartphone App and able to connect to any existing Beyond cold chain management system. PQS price includes BC141 hardware integrated to every refrigerator.

ColdCloud subscription services are an optional extra cost that can be added at purchase or retrospectively, and remotely activated without additional installation costs. For more information contact Dulas Ltd.

Integrated PCM internal lining used as part of Dulas Freeze Free technology. PCM lining complies with WHO/PQS/ E005/PCMC0.1 specification.

**Comments:**

**Accessories:** Always on temperature display; Audible and visual temperature alarms with high and low alarms aligned with WHO limits; 120 days local data storage; 30-day report of temperature history available as a pdf by scanning QR code on refrigerator; Handle with in-built lock; Instruction manual; Replaceable lid gaskets; Basket.

**Spare parts (ref, price):** Included in the UNICEF Supply Division spare parts kit:  
1 No. Compressor (Secop BD35K) - Part No. 101Z0211  
1 No. Electronic Control Unit (Secop) - Part No. 101N0420  
1 No. Dulas SDD-SC controller  
1 No. Condenser fan - Part No. G5001  
1 No. Fridge MCB - Part No. 693-CBTWF060C0  
1 No. Temperature Probe - Part No. SN4B15P1

Other parts are available as spares on request.

<b>Shipping volume:</b>	1.02 m3	<b>Shipping weight:</b>	129 kg
<b>Price year</b>	2023	<b>Incoterms</b>	EXW
<b>Price</b>	>100 units €3,025.00 per complete system		
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001	<b>Specification ref.</b>	-
<b>Verification report:</b>	300-KLAB-16-147	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>	<i>pre-qualified: 04 Oct 2016</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/079</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	CFD-50
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Aucma Global Medical Co.,Ltd.
<b>Address:</b>	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China
<b>Telephone:</b>	+86 532 86763602
<b>Email:</b>	<a href="mailto:lishouda@aucma.com.cn">lishouda@aucma.com.cn</a> ; <a href="mailto:info@aucma.com.cn">info@aucma.com.cn</a>
<b>Web address:</b>	<a href="http://aucmaglobal.com.cn">http://aucmaglobal.com.cn</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+10°C
<b>Refrigerant:</b>	#R290	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional;#2;#Electric Mains 115/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	158.8 x 54.5 x 65.5 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

### Freeze protection: Grade A

**Vaccine storage capacity:** 50  
(Litres)

**Gross volume (Litres):** 68

**Holdover time (hours):** 120 hours

**Energy consumption, stable  
running (kWh/24 hours):** 0.54

**Energy consumption, cool  
down test (kWh/24 hours):** 0.77

**Gross volume:** N/A

**Waterpack freezing capacity:** N/A

**Waterpack storage capacity:** N/A

**Energy consumption during  
freezing:** N/A

The CFD-50 MetaFridge™ 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 MetaFridge™ from voltage spikes and brownouts that damage refrigerators. Extensively tested ColdSafe™ technology keeps vaccines cold through multi-day power outages with no risk of freezing. The onboard MetaFridge™ 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](http://www.metafridge.com)

**Comments:**

**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

**Spare parts (ref, 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.

<b>Shipping volume:</b>	0.77m3	<b>Shipping weight:</b>	108 Kg
<b>Price year</b>	2016	<b>Incoterms</b>	EXW
<b>Price</b>	1 – 99 units: 1,400USD	100 or more units: 1,300USD	
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001 - OHSAS 18001 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WB-16-217	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	<i>pre-qualified: 04 Nov 2016</i>	<b>Validity until:</b>	<i>May, 2024</i>

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



PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/080</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	GVR 51 LITE AC
<b>Manufactured in:</b>	India
<b>Company:</b>	Godrej & Boyce MFG. Co. Ltd.
<b>Address:</b>	Plant 01, Pirojshanagar, Vikhroli West Mumbai 400 079 India
<b>Telephone:</b>	+91 22 67966201
<b>Email:</b>	<a href="mailto:medicalref@godrej.com">medicalref@godrej.com</a> ; <a href="mailto:hello@surechill.com">hello@surechill.com</a>
<b>Web address:</b>	<a href="http://www.godrejappliances/medical">http://www.godrejappliances/medical</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+10°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional;#2;#Electric Mains 115/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	151.5cm x 61.8cm x 77.4cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

**Freeze protection: Grade A****Vaccine storage capacity:** 51 Litres  
(Litres)**Gross volume (Litres):** 69 Litres**Holdover time (hours):** 89 hours 43 mins**Energy consumption, stable running (kWh/24 hours):** 1.63**Energy consumption, cool down test (kWh/24 hours):** 2.04**Gross volume:****Waterpack freezing capacity:****Waterpack storage capacity:****Energy consumption during freezing:**

- (i) Sure Chill is a patented technology licensed by The Sure Chill Company (UK)
  - (ii) Has a built in intelligent temperature control, early warning and energy management system
  - (iii) Unit requires addition of clean drinking water during installation, contact manufacturer for information
  - (iv) "Our Refrigerator is equipped with 2 type of Integrated Voltage Stabilizer depending upon country's power requirement:
- 1) 220-240V 50/60Hz with extended Voltage Range of 110-278V or
  - 2) 110V/60Hz with voltage range extended upto 82V-159V. It can also operates at 50Hz frequency with voltage range of 102V-130V

<b>Comments:</b>			
<b>Accessories:</b>		Included in price: wire shelves; 1 Padlock; 1 Funnel, plywood packaging, 30 days temperature monitoring system. Inbuilt Voltage Stabilizer: Option 1: for 220-240V 50/60 Hz nominal input/output with input voltage regulation range 110V-278V/50/60Hz Option 2: for 100-127V 60 Hz nominal input/output with input voltage regulation range 82V-159V/60Hz. Option 3: for 100-127V, 50 Hz nominal input/output with input voltage regulation range 102V-130V/50Hz. Optional (charged extra): Extra wire shelves, RTMD (E006/036)	
<b>Spare parts (ref, price):</b>		1 No. Compressor - Part No. RCM 977 492 57 is changed to 40151606SD00012 1 No. Starter Part No. RRE 977 492 58 is changed to 39122330SD00064 1 No. Relay Part No will be 39122330SD00054 1 No. Condenser - Part No. RCN 977 571 06 changed to 40101704DG00063 & 40101704DG00060 1 No. Electronic controller Card / thermostat - Part No. RCC 977 492 60 changed to 32101502SD02744 1 No. Voltage stabilizer - Part No. RCM 977 493 57 changed to 32101502SD00418 1 No. Capacitor - Part No. RFN 977 492 63 is changed to 32121501SD00079.	
<b>Shipping volume:</b>	0.86 m3	<b>Shipping weight:</b>	115 kg
<b>Price year</b>	2016	<b>Incoterms</b>	EXW
<b>Price</b>	USD 900	USD 880	USD 865
<b>Quality standard:</b>	- ISO 9001:2008 -		<b>Specification ref.</b>
<b>Verification report:</b>	CE-JOB-DEL-16-000501-GVR 51 Lite	<b>Verification laboratory:</b>	Intertek India
<b>Current PQS status:</b>	<i>pre-qualified: 21 Nov 2016</i>		<b>Validity until:</b> <i>May, 2024</i>

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



PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/081</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	GVR 75 Lite
<b>Manufactured in:</b>	India
<b>Company:</b>	Godrej & Boyce MFG. Co. Ltd.
<b>Address:</b>	Plant 01, Pirojshanagar, Vikhroli West Mumbai 400 079 India
<b>Telephone:</b>	+91 22 67966201
<b>Email:</b>	<a href="mailto:medicalref@godrej.com">medicalref@godrej.com</a> ; <a href="mailto:hello@surechill.com">hello@surechill.com</a>
<b>Web address:</b>	<a href="http://www.godrejappliances/medical">http://www.godrejappliances/medical</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+10°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 115/60Hz;#1;#Electric Mains 220- 240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	151.5cm x 61.8cm x 77.4cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

**Freeze protection: Grade A**

<b>Vaccine storage capacity: (Litres)</b>	72.5 litres
<b>Gross volume (Litres):</b>	99 litres
<b>Holdover time (hours):</b>	81 hrs
<b>Energy consumption, stable running (kWh/24 hours):</b>	1.47 kWh/24 h
<b>Energy consumption, cool down test (kWh/24 hours):</b>	2.77 kWh/24 h

<b>Gross volume:</b>	
<b>Waterpack freezing capacity:</b>	
<b>Waterpack storage capacity:</b>	
<b>Energy consumption during freezing:</b>	

"(i) Sure Chill is a patented technology licensed by The Sure Chill Company (UK) guarantees never to freeze vaccines  
(ii) Data loggers records up to 30 days temperature reading with 5 customizable temperature alarm settings  
(iii) Has a built in intelligent temperature control, early warning and energy management system  
(iv) Unit requires addition of clean drinking water during installation,"  
(v) "Our Refrigerator is equipped with 2 type of Integrated Voltage Stabilizer depending upon country's power requirement:

1) 220-240V 50/60Hz with extended Voltage Range of 110-278V or  
2) 110V/60Hz with voltage range extended upto 82V-159V. It can also operates at 50Hz frequency with voltage range of 102V-130V

**Comments:**

**Accessories:** Included in price: wire shelves; 1 Padlock; 1 Funnel, plywood packaging, 30 days temperature monitoring system. Inbuilt Voltage Stabilizer:  
Option 1: for 220-240V 50/60 Hz nominal input/output with input voltage regulation range 110V-278V/50/60Hz  
Option 2: for 100-127V 60 Hz nominal input/output with input voltage regulation range 82V-159V/60Hz.  
Option 3: for 100-127V, 50 Hz nominal input/output with input voltage regulation range 102V-130V/50Hz.  
Optional (charged extra): Extra wire shelves, RTMD (E006/036)

**Spare parts (ref, price):** 1 No. Compressor - Part No. RCM 977 492 57 is changed to 40151606SD00012  
1 No. Starter Part No. RRE 977 492 58 is changed to 39122330SD00064  
1 No. Relay Part No will be 39122330SD00054  
1 No. Condenser - Part No. RCN 977 571 06 changed to 40101704DG00063 & 40101704DG00060  
1 No. Electronic controller Card / thermostat - Part No. RCC 977 492 60 changed to 32101502SD02744  
1 No. Voltage stabilizer - Part No. RCM 977 493 57 changed to 32101502SD00418  
1 No. Capacitor - Part No. RFN 977 492 63 is changed to 32121501SD00079.

<b>Shipping volume:</b>	0.86m3	<b>Shipping weight:</b>	115 Kg
<b>Price year</b>	2016	<b>Incoterms</b>	
<b>Price</b>	Price 1 (1-10 Units) - USD 972	Price 2 (10-99 Units) - USD 950	Price 3 (100+ Units) - USD 935
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	CE-JOB-DEL-16-000501-GVR 75 Lite	<b>Verification laboratory:</b>	Intertek India
<b>Current PQS status:</b>	<i>pre-qualified: 21 Nov 2016</i>	<b>Validity until:</b>	<i>May, 2024</i>

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



**E003:****Refrigerators and freezers**

<b>PQS code:</b>	<b>E003/082</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	GVR 99 Lite
<b>Manufactured in:</b>	India
<b>Company:</b>	Godrej & Boyce MFG. Co. Ltd.
<b>Address:</b>	Plant 01, Pirojshanagar, Vikhroli West Mumbai 400 079 India
<b>Telephone:</b>	+91 22 67966201
<b>Email:</b>	<a href="mailto:medicalref@godrej.com">medicalref@godrej.com</a> ; <a href="mailto:hello@surechill.com">hello@surechill.com</a>
<b>Web address:</b>	<a href="http://www.godrejappliances/medical">http://www.godrejappliances/medical</a>

**Specifications**

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+10°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 115/60Hz;#1;#Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	170cm(H) x 61.8cm(W) x 77.4cm (D)
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

**REFRIGERATOR****FREEZER****Freeze protection: Grade A**

**Vaccine storage capacity:** 98.5 L  
(Litres)

**Gross volume (Litres):** 124 L

**Holdover time (hours):** 59 Hrs 34 minutes

**Energy consumption, stable running (kWh/24 hours):** 1.23 kWh/24 h

**Energy consumption, cool down test (kWh/24 hours):** 1.73 kWh/24 h

**Gross volume:**

**Waterpack freezing capacity:**

**Waterpack storage capacity:**

**Energy consumption during freezing:**

"(i) Sure Chill is a patented technology licensed by The Sure Chill Company (UK) guarantees never to freeze vaccines  
(ii) Data loggers records up-to 30 days temperature reading with 5 customizable temperature alarm settings  
(iii) Has a built in intelligent temperature control, early warning and energy management system  
(iv) Unit requires addition of clean drinking water during installation,"  
(v) "Our Refrigerator is equipped with 2 type of Integrated Voltage Stabilizer depending upon country's power requirement:

1) 220-240V 50/60Hz with extended Voltage Range of 110-278V or  
2) 110V/60Hz with voltage range extended up-to 82V-159V. It can also operates at 50Hz frequency with voltage range of 102V-130V

**Comments:**

**Accessories:**

Included in price: wire shelves; 1 Padlock; 1 Funnel, plywood packaging, 30 days temperature monitoring system.  
Inbuilt Voltage Stabilizer:  
Option 1: for 220-240V 50/60 Hz nominal input/output with input voltage regulation range 110V-278V/50/60Hz  
Option 2: for 100-127V 60 Hz nominal input/output with input voltage regulation range 82V-159V/60Hz.  
Option 3: for 100-127V, 50 Hz nominal input/output with input voltage regulation range 102V-130V/50Hz.  
Optional (charged extra): Extra wire shelves, RTMD (E006/036)

**Spare parts (ref, price):**

1 No. Compressor - Part No. RCM 977 492 57 is changed to 40151606SD00012  
1 No. Starter Part No. RRE 977 492 58 is changed to 39122330SD00064  
1 No. Relay Part No will be 39122330SD00054  
1 No. Condenser - Part No. RCN 977 571 06 changed to 40101704DG00063 & 40101704DG00060  
1 No. Electronic controller Card / thermostat - Part No. RCC 977 492 60 changed to 32101502SD02744  
1 No. Voltage stabilizer - Part No. RCM 977 493 57 changed to 32101502SD00418  
1 No. Capacitor - Part No. RFN 977 492 63 is changed to 32121501SD00079.

<b>Shipping volume:</b>	0.95m3	<b>Shipping weight:</b>	125 Kg
<b>Price year</b>	2016	<b>Incoterms</b>	
<b>Price</b>	Price 1 (1-10 Units) - USD 1050	Price 2 (10-99 Units) - USD 1030	Price 3 (100+ Units) - USD 1010
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	CE-JOB-DEL-16-000501-GVR 99 Lite	<b>Verification laboratory:</b>	Intertek India
<b>Current PQS status:</b>	<i>pre-qualified: 21 Nov 2016</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/083</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	GVR 225 AC
<b>Manufactured in:</b>	India
<b>Company:</b>	Godrej & Boyce MFG. Co. Ltd.
<b>Address:</b>	Plant 01, Pirojshanagar, Vikhroli West Mumbai 400 079 India
<b>Telephone:</b>	+91 22 67966201
<b>Email:</b>	<a href="mailto:medicalref@godrej.com">medicalref@godrej.com</a> ; <a href="mailto:hello@surechill.com">hello@surechill.com</a>
<b>Web address:</b>	<a href="http://www.godrejappliances/medical">http://www.godrejappliances/medical</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+10°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 115/60Hz;#8;#Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	183 cm(H) x 79.5cm(W) x 75cm (D)
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

**Freeze protection: Grade A**

<b>Vaccine storage capacity: (Litres)</b>	225 Litres
<b>Gross volume (Litres):</b>	278 Litres
<b>Holdover time (hours):</b>	55 hours
<b>Energy consumption, stable running (kWh/24 hours):</b>	2.04 kWh/24 h
<b>Energy consumption, cool down test (kWh/24 hours):</b>	2.38 kWh/24 h

<b>Gross volume:</b>	
<b>Waterpack freezing capacity:</b>	
<b>Waterpack storage capacity:</b>	
<b>Energy consumption during freezing:</b>	

"(i) Sure Chill is a patented technology licensed by The Sure Chill Company (UK)  
(ii) Refrigerator operates on only 2.5 hrs/day power at 30°C ambient, post stabilization  
(iii) Has a built in intelligent temperature control, early warning and energy management system  
(iv) Unit requires addition of clean drinking water during installation, contact manufacturer for information"  
(v) "Our Refrigerator is equipped with 2 type of Integrated Voltage Stabilizer depending upon country's power requirement:

1) 220-240V 50/60Hz with extended Voltage Range of 110-278V or  
2) 110V/60Hz with voltage range extended upto 82V-159V. It can also operates at 50Hz frequency with voltage range of 102V-130V

**Comments:**

**Accessories:** Included in price: 3 wire shelves; 1 Padlock; 1 Funnel, plywood packaging, 30 days temperature monitoring system.  
Inbuilt Voltage Stabilizer:  
Option 1: for 220-240V 50/60 Hz nominal input/output with input voltage regulation range 110V-278V/50/60Hz  
Option 2: for 100-127V 60 Hz nominal input/output with input voltage regulation range 82V-159V/60Hz.  
Option 3: for 100-127V, 50 Hz nominal input/output with input voltage regulation range 102V-130V/50Hz.  
Optional (charged extra): Extra wire shelves, RTMD (E006/036)

**Spare parts (ref, price):**  
1 No. Compressor - Part No. 40151606SD00230  
1 No. Condenser - Part No. 40101704DG00049  
1 No. Voltage stabilizer - Part No. 32101502SD00418  
1 No. Electronic Control Card / thermostat - Part No. 32101502SD00420  
1 No. Fan motor - Part No. 26101114SD00378  
1 No. Fan impeller - Part No. 41103015PA00033  
1 No. Starting Relay - Part No. 39122330SD00054  
1 No. Overload Protector - Part No. 39122330SD00064  
1 No. Starting Capacitor - Part No. 32121501SD00079

<b>Shipping volume:</b>	1.3 m3	<b>Shipping weight:</b>	160 kg
<b>Price year</b>	2016	<b>Incoterms</b>	EXW
<b>Price</b>	Price 1 (1-10 Units) - USD 1500	Price 2 (10-99 Units) - USD 1450	Price 3 (100+ Units) - USD 1400
<b>Quality standard:</b>	- ISO 9001:2008 -		
	<b>Specification ref.</b>		
<b>Verification report:</b>	CE-JOB-DEL-16-000501-GVR 225AC	<b>Verification laboratory:</b>	Intertek India
<b>Current PQS status:</b>	<i>pre-qualified: 21 Nov 2016</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/084</b>
<b>Type of appliance:</b>	Solar direct drive combined refrigerator/freezer
<b>Manufacturer's reference:</b>	VC60SDD-1
<b>Manufactured in:</b>	United Kingdom
<b>Company:</b>	Dulas Ltd
<b>Address:</b>	Dyfi Eco Parc Machynlleth Powys SY20 8AX United Kingdom
<b>Telephone:</b>	+ 44 (0)1654 705055
<b>Email:</b>	<a href="mailto:solar@dulas.org.uk">solar@dulas.org.uk</a>
<b>Web address:</b>	<a href="http://www.dulassolar.org/">http://www.dulassolar.org/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	98 x 128.2 x 74.0 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	57 Litres	<b>Gross volume (Liters):</b>	24 Litres
<b>Gross volume (Liters):</b>	124 Litres	<b>Waterpack freezing capacity:</b>	2.4kg or 4x 0.6L packs
		<b>Waterpack storage capacity:</b>	13.8kg or 23 x 0.6L packs
<b>Autonomy as per WHO/PQS protocols</b>	82hrs 48 mins	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

Supplied as standard with Integrated Beyond ICE3 BC141 Remote Temperature Monitoring Device. Fully compliant to WHO PQS E006/TR03.2. See separate registration E006/036 for full details. Beyond's Remote Temperature Monitoring System (RTMS) provides real-time monitoring and reporting of cold chain assets in one easy to use cloud-based portal. Accessible via PC or Smartphone App and able to connect to any existing Beyond cold chain management system. PQS price includes BC141 hardware integrated to every refrigerator.

ColdCloud subscription services are an optional extra cost that can be added at purchase or retrospectively, and remotely activated without additional installation costs. For more information contact Dulas Ltd.

Integrated PCM internal lining used as part of Dulas Freeze Free technology. PCM lining complies with WHO/PQS/E005/PCMC0.1 specification.

**Comments:**

**Accessories:**

Always on temperature display; Audible and visual temperature alarms with high and low alarms aligned with WHO limits; 120 days local data storage; 30-day report of temperature history available as a pdf by scanning QR code on refrigerator; Handle with in-built lock; Instruction manual; Replaceable lid gaskets; Stacking baskets (4).

**Spare parts (ref, price):**

Included in the UNICEF Supply Division spare parts kit:  
1 No. Compressor (Secop BD35K) - Part No. 101Z0211  
1 No. Electronic Control Unit (Secop) - Part No. 101N0420  
1 No. Dulas SDD-DC controller  
1 No. MCB fridge - Part No. 693-CBTWF0100C0  
1 No. Freezer on/off switch - Part No. 655-W51-A151-A1-5  
1 No. Freezer fan - Part No. 89-4367.GN.  
1 No. Temperature probes - Part No. SN4B15P1 + Part No. SN4B25P1

Other parts are available as spares on request.

Other parts are available as spares on request.

<b>Shipping volume:</b>	1.2 m3	<b>Shipping weight:</b>	170 kg
<b>Price year</b>	2023	<b>Incoterms</b>	EXW
<b>Price</b>	>100 units €5,225.00 per complete system		
<b>Quality standard:</b>	- ISO 9001:2008 - Other - ISO 14000 -		<b>Specification ref.</b>
<b>Verification report:</b>	300-KLAB-16-164	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>	<i>pre-qualified: 16 Jan 2017</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/085</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	VC30SDD
<b>Manufactured in:</b>	United Kingdom
<b>Company:</b>	Dulas Ltd
<b>Address:</b>	Dyfi Eco Parc Machynlleth Powys SY20 8AX United Kingdom
<b>Telephone:</b>	+ 44 (0)1654 705055
<b>Email:</b>	<a href="mailto:solar@dulas.org.uk">solar@dulas.org.uk</a>
<b>Web address:</b>	<a href="http://www.dulassolar.org/">http://www.dulassolar.org/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	97.5 x 89.0 x 74.0 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	25.5l	<b>Gross volume (Liters):</b>	
<b>Gross volume (Liters):</b>	39l	<b>Waterpack freezing capacity:</b>	
		<b>Waterpack storage capacity:</b>	
<b>Autonomy as per WHO/PQS protocols</b>	72hrs 09mins	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

		<p>Supplied as standard with Integrated Beyond ICE3 BC141 Remote Temperature Monitoring Device. Fully compliant to WHO PQS E006/TR03.2. See separate registration E006/036 for full details. Beyond's Remote Temperature Monitoring System (RTMS) provides real-time monitoring and reporting of cold chain assets in one easy to use cloud-based portal. Accessible via PC or Smartphone App and able to connect to any existing Beyond cold chain management system. PQS price includes BC141 hardware integrated to every refrigerator.</p> <p>ColdCloud subscription services are an optional extra cost that can be added at purchase or retrospectively, and remotely activated without additional installation costs. For more information contact Dulas Ltd.</p> <p>Integrated PCM internal lining used as part of Dulas Freeze Free technology. PCM lining complies with WHO/PQS/E005/PCMC0.1 specification.</p>	
<b>Comments:</b>			
<b>Accessories:</b>		<p>Always on temperature display; Audible and visual temperature alarms with high and low alarms aligned with WHO limits; 120 days local data storage; 30-day report of temperature history available as a pdf by scanning QR code on refrigerator; Handle with in-built lock; Instruction manual; Replaceable lid gaskets; Basket.</p>	
<b>Spare parts (ref, price):</b>		<p>Included in the UNICEF Supply Division spare parts kit:</p> <ul style="list-style-type: none"> <li>1 No. Compressor (Secop BD35K) - Part No. 101Z0211</li> <li>1 No. Electronic Control Unit (Secop) - Part No. 101N0420</li> <li>1 No. Dulas SDD-SC controller</li> <li>1 No. Condenser fan - Part No. G5001</li> <li>1 No. Fridge MCB/Isolation switch - Part No. 693-CBTWF060C0</li> <li>1 No. Temperature Probe - Part No. SN4B15P1</li> </ul> <p>Other parts are available as spares on request.</p>	
<b>Shipping volume:</b>	1.02 m3	<b>Shipping weight:</b>	129 kg
<b>Price year</b>	2023	<b>Incoterms</b>	EXW
<b>Price</b>	>100 units €2,750.00 per complete system		
<b>Quality standard:</b>	- ISO 9001:2008 - Other - ISO 14000 -		<b>Specification ref.</b>
<b>Verification report:</b>	300-KLAB-17-117	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>	<i>pre-qualified: 01 Jun 2017</i>		<b>Validity until:</b> <i>May, 2024</i>

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





## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/086</b>
<b>Type of appliance:</b>	Solar direct drive freezer
<b>Manufacturer's reference:</b>	HTD-40
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	720*875*788mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Not tested</b>
<b>Vaccine storage capacity: (Liters)</b>	N/A	<b>Gross volume (Liters):</b>	48 L
<b>Gross volume (Liters):</b>		<b>Waterpack freezing capacity:</b>	2.4kg/24h
		<b>Waterpack storage capacity:</b>	20 kg
<b>Autonomy as per WHO/PQS protocols</b>	120 hours	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<b>Comments:</b>	1. Display: Solar LED Temperature Display		
	2. 2 baskets		
<b>Accessories:</b>	3. Power of Solar Panel: 180W x2 Or 360Wx1 Solar Panel power;		
	4. Optional: Remote temperature monitoring device		
<b>Spare parts (ref, price):</b>	1.Instructions		
	2.Key		
	3.Handle component		
	4.Defrosting shovel		
	5.Waterpack holder		
	6.0.4L Water-pack		
	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.		
<b>Shipping volume:</b>	0.70m3	<b>Shipping weight:</b>	85KG
<b>Price year</b>	2021	<b>Incoterms</b>	FCA
<b>Price</b>	1-100units USD 2800	>100units USD 2600	
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 13485		<b>Specification ref.</b>
	- ISO 14001 -		
<b>Verification report:</b>	WB-16-600	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	<i>pre-qualified: 09 Jun 2017</i>		<b>Validity until:</b> <i>May, 2024</i>

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



PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/087</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	HBC-260
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	940*1647*717mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

**Freeze protection: Grade A**

<b>Vaccine storage capacity: (Litres)</b>	211 Litres
<b>Gross volume (Litres):</b>	260 Litres
<b>Holdover time (hours):</b>	62 h 14 mins
<b>Energy consumption, stable running (kWh/24 hours):</b>	1.62 kWh/24h
<b>Energy consumption, cool down test (kWh/24 hours):</b>	1.47 kWh/24h

<b>Gross volume:</b>	
<b>Waterpack freezing capacity:</b>	
<b>Waterpack storage capacity:</b>	
<b>Energy consumption during freezing:</b>	

	1. Display: Solar LED Temperature Display 2. 6 baskets 3. Low power consumption 4. Optional: Remote temperature monitoring device 5. Includes voltage stabiliser		
<b>Comments:</b>			
<b>Accessories:</b>	Accessory : 1. Instructions 2. Key 3. Handle component 4. Basket 5. Data logger		
<b>Spare parts (ref, price):</b>	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.		
<b>Shipping volume:</b>	1.43 m3	<b>Shipping weight:</b>	200kg
<b>Price year</b>	2021	<b>Incoterms</b>	
<b>Price</b>	1-100units USD 1360	>100units USD 1300	
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 13485 - ISO 14001 -		<b>Specification ref.</b>
<b>Verification report:</b>	WB-17-165	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	<i>pre-qualified: 09 Jun 2017</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/088</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	HBC-150
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Climate zone:</b>		<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	872*1128*717mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

### Freeze protection: Grade A

<b>Vaccine storage capacity:</b> (Litres)	122 Litres
<b>Gross volume (Litres):</b>	150 Litres
<b>Holdover time (hours):</b>	60 hrs 50 mins
<b>Energy consumption, stable running (kWh/24 hours):</b>	0.54kWh/24h
<b>Energy consumption, cool down test (kWh/24 hours):</b>	0.62 kWh/24h

<b>Gross volume:</b>	
<b>Waterpack freezing capacity:</b>	
<b>Waterpack storage capacity:</b>	
<b>Energy consumption during freezing:</b>	

		1. Display: Solar LED Temperature Display 2. 3 baskets 3. Low power consumption 4. Optional: Remote temperature monitoring device	
<b>Comments:</b>			
<b>Accessories:</b>		Accessory : 1. Instructions 2. Key 3. Handle component 4. Basket 5. Data logger	
<b>Spare parts (ref, price):</b>		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.	
<b>Shipping volume:</b>	0.99m3	<b>Shipping weight:</b>	140kg
<b>Price year</b>	2021	<b>Incoterms</b>	
<b>Price</b>	1-100units USD 1070	>100units USD 1020	
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 13485 - ISO 14001 -	<b>Specification ref.</b>	
<b>Verification report:</b>		<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	<i>pre-qualified: 09 Jun 2017</i>	<b>Validity until:</b>	<i>May, 2024</i>
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/089</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	HBC-80
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	872*788*717mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

**Freeze protection: Grade A**

<b>Vaccine storage capacity: (Litres)</b>	61 Litres
<b>Gross volume (Litres):</b>	80 Litres
<b>Holdover time (hours):</b>	59 hrs 51 mins
<b>Energy consumption, stable running (kWh/24 hours):</b>	0.57kWh/24h
<b>Energy consumption, cool down test (kWh/24 hours):</b>	0.63kWh/24h

<b>Gross volume:</b>	
<b>Waterpack freezing capacity:</b>	
<b>Waterpack storage capacity:</b>	
<b>Energy consumption during freezing:</b>	

<b>Comments:</b>	1. Display: Solar LED Temperature Display 2. Low power consumption 3. Optional: Remote temperature monitoring device 4. Price not include: Voltage regulator		
<b>Accessories:</b>	1. Instructions 2. Key 3. Handle component 4. Basket 5. Data logger		
<b>Spare parts (ref, price):</b>	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.		
<b>Shipping volume:</b>	0.71m3	<b>Shipping weight:</b>	110KG
<b>Price year</b>	2021	<b>Incoterms</b>	
<b>Price</b>	1-100units USD 860	>100units	USD 820
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 13485 - ISO 14001 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WB-17-166	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	<i>pre-qualified: 09 Jun 2017</i>	<b>Validity until:</b>	<i>May, 2024</i>

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





## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/090</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	Ultra 16 SDD
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsistemas.com">info@bmedicalsistemas.com</a> , <a href="mailto:Gilles.Ries@bmedicalsistemas.com">Gilles.Ries@bmedicalsistemas.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsistemas.com">Admilson.Pinto@bmedicalsistemas.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsistemas.com">www.bmedicalsistemas.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	113x78x85 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	24.2	<b>Gross volume (Liters):</b>	
<b>Gross volume (Liters):</b>	24.2	<b>Waterpack freezing capacity:</b>	
		<b>Waterpack storage capacity:</b>	
<b>Autonomy as per WHO/PQS protocols</b>	477 hours 56 minutes	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<b>Comments:</b>		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 2 or 10 years as the case may be. For more information and further conditions of warranty, please contact B Medical Systems	
<b>Accessories:</b>		compass; 2 baskets; 2+3 keys; brush; documentation	
<b>Spare parts (ref, price):</b>		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. Electronic thermostat/controller - Part No. 296.9768.62 1 No. Fan (12-28 V, 5.6W) - Part No. 292.9960.09  Other parts are available as spares on request.	
<b>Shipping volume:</b>	1,04 m3	<b>Shipping weight:</b>	203 kg
<b>Price year</b>	2019	<b>Incoterms</b>	EXW
<b>Price</b>	>100 units: G1: 5111 €; G2: 5459 €		
<b>Quality standard:</b>	- ISO 13485 - ISO 14001 - 9001 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WHO 17-002 cor_1	<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Current PQS status:</b>	<i>pre-qualified: 04 Oct 2017</i>	<b>Validity until:</b>	<i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/091</b>
<b>Type of appliance:</b>	Solar direct drive combined refrigerator/freezer
<b>Manufacturer's reference:</b>	VLS 026 RF SDD
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

**Telephone:** +45 7914 2555; +45 7914 2248

**Email:** [clc@vestfrostsolutions.com](mailto:clc@vestfrostsolutions.com);  
[bjn@vestfrostsolutions.com](mailto:bjn@vestfrostsolutions.com)

**Web address:** <http://vestfrostsolutions.com/>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	88 cm x 111 cm x 65 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	20 L	<b>Gross volume (Liters):</b>	34.3 L
<b>Gross volume (Liters):</b>	35 L	<b>Waterpack freezing capacity:</b>	1.8 kg/24h
		<b>Waterpack storage capacity:</b>	29 x 0.6L waterpacks
<b>Autonomy as per WHO/PQS protocols</b>	73.22 hrs	<b>At a solar radiation reference period of:</b>	3.5 kWh/m <sup>2</sup> /day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

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

**Comments:**

**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

**Spare parts (ref, 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.

<b>Shipping volume:</b>	0.920 m3	<b>Shipping weight:</b>	141 kgs
<b>Price year</b>	2020	<b>Incoterms</b>	EXW
<b>Price</b>	1-99 units - 4,751 €	100-199 units - 4,482 €	200 or more units: 4,414 €
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001 - DS/OHSAS 18001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	300-KLAB-17-118	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>	<i>pre-qualified: 08 Dec 2017</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/092</b>
<b>Type of appliance:</b>	Solar direct drive combined refrigerator/freezer
<b>Manufacturer's reference:</b>	VLS 056 RF SDD
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

**Telephone:** +45 7914 2555; +45 7914 2248

**Email:** [clc@vestfrostsolutions.com](mailto:clc@vestfrostsolutions.com);  
[bjn@vestfrostsolutions.com](mailto:bjn@vestfrostsolutions.com)

**Web address:** <http://vestfrostsolutions.com/>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	88 cm x 111 cm x 65 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	36 L	<b>Gross volume (Liters):</b>	34.3 L
<b>Gross volume (Liters):</b>	49.3 L	<b>Waterpack freezing capacity:</b>	1.8 kg/24h
		<b>Waterpack storage capacity:</b>	29 x 0.6L waterpacks
<b>Autonomy as per WHO/PQS protocols</b>	72hrs	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<p>Prices include 2 x Vestfrost Solutions SDD PV energy kit comprising of PV panels, roof adjustable bracket system, plug &amp; play installation. Unit equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features.</p>			
<b>Comments:</b>			
<b>Accessories:</b>		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	
<b>Spare parts (ref, price):</b>		<p>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. 7095326  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</p> <p>Other parts are available as spares on request.</p>	
<b>Shipping volume:</b>	0.920 m3	<b>Shipping weight:</b>	140 kgs
<b>Price year</b>	2020	<b>Incoterms</b>	EXW
<b>Price</b>	1-99 units - 5,051 €	100-199 units: 4,762 €	200 or more: 4,690 €
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	300-KLAB-17-119	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>	<i>pre-qualified: 08 Dec 2017</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/093</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	TCW 4000 SDD
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsyste.ms.com">info@bmedicalsyste.ms.com</a> , <a href="mailto:Gilles.Ries@bmedicalsyste.ms.com">Gilles.Ries@bmedicalsyste.ms.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsyste.ms.com">Admilson.Pinto@bmedicalsyste.ms.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsyste.ms.com">www.bmedicalsyste.ms.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	91,5 x 162,5 x 78 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	220	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	250	<b>Waterpack freezing capacity:</b>	N/A
		<b>Waterpack storage capacity:</b>	N/A
<b>Autonomy as per WHO/PQS protocols</b>	91 hrs 16mins	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<p>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 2 or 10 years as the case may be. For more information and further conditions of warranty, please contact B Medical Systems</p>			
<b>Comments:</b>			
<b>Accessories:</b>			
<b>Spare parts (ref, price):</b>			
<p>Included in the UNICEF Supply Division spare parts kit:</p> <p>1 No. Compressor (BD35K Solar) - Part No. 296.9702.09</p> <p>1 No. Electronic Control Unit (E-box) - Part No. 296.9705.32</p> <p>1 No. Electronic thermostat/controller - Part No. 296.9768.63</p> <p>1 No. Fan (12-28 V, 5.6W) - Part No. 292.9960.11</p> <p>1 No. Drier - Part No. 296.0945.04</p> <p>1 No. Controller display board - Part No. 296.9769.81</p> <p>1 No. Sensor - Part No. 296.9805.06</p>			
Other parts are available as spares on request.			
<b>Shipping volume:</b>	1,36 m3	<b>Shipping weight:</b>	192 kg
<b>Price year</b>	2019	<b>Incoterms</b>	EXW
<b>Price</b>	> 100 units: G1: 5767 EUR, G2: 6295 EUR		
<b>Quality standard:</b>	- ISO 13485 - ISO 14001 - ISO 9001 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WHO 17-005	<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Current PQS status:</b>	<i>pre-qualified: 13 Jun 2018</i>		<b>Validity until:</b> <i>May, 2024</i>

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



**E003:****Refrigerators and freezers**

<b>PQS code:</b>	<b>E003/095</b>
<b>Type of appliance:</b>	Solar direct drive combined refrigerator/freezer
<b>Manufacturer's reference:</b>	GVR 55 FF DC
<b>Manufactured in:</b>	India
<b>Company:</b>	Godrej & Boyce MFG. Co. Ltd.
<b>Address:</b>	Plant 01, Pirojshanagar, Vikhroli West Mumbai 400 079 India
<b>Telephone:</b>	+91 22 67966201
<b>Email:</b>	<a href="mailto:medicalref@godrej.com">medicalref@godrej.com</a> ; <a href="mailto:hello@surechill.com">hello@surechill.com</a>
<b>Web address:</b>	<a href="http://www.godrejappliances/medical">http://www.godrejappliances/medical</a>

**Specifications**

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+10°C
<b>Refrigerant:</b>	#R290	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	183 cm(H) x 79.5cm(W) x 75cm (D)
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	58L	<b>Gross volume (Liters):</b>	44L
<b>Gross volume (Liters):</b>	90L	<b>Waterpack freezing capacity:</b>	2.4L/day
		<b>Waterpack storage capacity:</b>	14.4 L
<b>Autonomy as per WHO/PQS protocols</b>	283hr 30min	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

**Warning !**

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<b>Comments:</b>	"(i) Sure Chill is a patented technology licensed by The Sure Chill Company (UK) (ii) Has a built in intelligent temperature control, early warning and energy management system (iii) Unit requires addition of clean drinking water during installation, contact manufacturer for information (iv) Price includes solar array (1000 W, 24V solar panels) and 'plug & play' system/structure"
<b>Accessories:</b>	Included in price: 2 wire shelves; 1 Padlock; 1 Funnel, plywood packaging, Surge Protector, 30 days temperature monitoring system. Optional (charged extra): Extra wire shelves", RTMD (E006/036), Energy harvesting system.

**Spare parts (ref, price):**

<b>Shipping volume:</b>	1.73 m3	<b>Shipping weight:</b>	380 kg
<b>Price year</b>	2018	<b>Incoterms</b>	EXW
<b>Price</b>	1-99 units - 5995 USD	100-199 units: 5875 USD	200 or more units: 5758 USD
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 13485	<b>Specification ref.</b>	
<b>Verification report:</b>	CE-JOB-DEL-16-0000501-41	<b>Verification laboratory:</b>	Intertek India
<b>Current PQS status:</b>	<i>pre-qualified:</i>	<b>Validity until:</b>	May, 2024

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



PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/096</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	ZLF80AC (SureChill®)
<b>Manufactured in:</b>	South Africa
<b>Company:</b>	Zero Appliances (Pty) Ltd
<b>Address:</b>	P.O. Box 426 Edenvale 1610 Gauteng Province South Africa
<b>Telephone:</b>	(010) 207 1600
<b>Email:</b>	<a href="mailto:rudi@zeroappliances.co.za">rudi@zeroappliances.co.za</a> ; <a href="mailto:brigitte@zeroappliances.co.za">brigitte@zeroappliances.co.za</a>
<b>Web address:</b>	<a href="http://www.zeroappliances.co.za">www.zeroappliances.co.za</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R134a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz;#2;#Electric Mains 115/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	167 (H) x 85 (L) x 71 (D) cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

REFRIGERATOR	FREEZER	Freeze protection: Grade A
<b>Vaccine storage capacity: (Litres)</b>	77L	
<b>Gross volume (Litres):</b>	94L	<b>Gross volume:</b>
<b>Holdover time (hours):</b>	105h 17 mins	<b>Waterpack freezing capacity:</b>
<b>Energy consumption, stable running (kWh/24 hours):</b>	1.4 kWh/24 h	<b>Waterpack storage capacity:</b>
<b>Energy consumption, cool down test (kWh/24 hours):</b>	1.4 kWh/24h	<b>Energy consumption during freezing:</b>

<b>Comments:</b>	Unit uses Sure Chill ® technology. Holdover carried out while not fully charged.
<b>Accessories:</b>	3 Shelves: liquid PCM to mix with water. Optional: Extra shelves, drawers, plywood packaging, 2 padlocks

<b>Spare parts (ref, price):</b>	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor - Part No. IMPC10 1 No. Condenser - Part No. IMP65 1 No. Condenser Fan Set - Part No. IMP65 1 No. Electronic Card / Thermostat - Part No. IMP70 1 No. Voltage Stabiliser - Part No. SOLLATEK ASP04 IMPA10 1 No. Start Relay - Part No. ZR86AA, IMPR10 1 No. Capacitor - Part No. ZR86AA, IMPR11  Other parts are available as spares on request.
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<b>Shipping volume:</b>	1.132 m3	<b>Shipping weight:</b>	142 kg
<b>Price year</b>	2018	<b>Incoterms</b>	EXW
<b>Price</b>	1-49 units: 1,566 USD	50-99 units: 1,527 USD	100+ units: 1,488 USD

<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	300-KLAB-18-100	<b>Verification laboratory:</b>	Danish Technological Institute

<b>Current PQS status:</b>	<i>pre-qualified: 15 Jun 2018</i>	<b>Validity until:</b>	<i>May, 2022</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



PERFORMANCE QUALITY SAFETY



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/097</b>
<b>Type of appliance:</b>	Combined icelined refrigerator/waterpacks freezer
<b>Manufacturer's reference:</b>	HBCD-90
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	872*1128*717mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

**Freeze protection: Grade A**

<b>Vaccine storage capacity: (Litres)</b>	30 L
<b>Gross volume (Litres):</b>	42 L
<b>Holdover time (hours):</b>	63hrs 48mins
<b>Energy consumption, stable running (kWh/24 hours):</b>	0.7 KWh/24 h
<b>Energy consumption, cool down test (kWh/24 hours):</b>	0.66 KWH/24h

<b>Gross volume:</b>	32 L
<b>Waterpack freezing capacity:</b>	4.0 KG/24h
	16 KG
<b>Waterpack storage capacity:</b>	
<b>Energy consumption during freezing:</b>	0.97 KWH/24h

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**Comments:**

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<b>Accessories:</b>	"Keys 2 Handle attachment 1 Refiller 1 Corrosion inhibitors 1 Defroster spade 1"
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**Spare parts (ref, 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.

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<b>Shipping volume:</b>	0.99 m3	<b>Shipping weight:</b>	135 kg
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<b>Price year</b>	2021	<b>Incoterms</b>	FCA
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<b>Price</b>	1-100units USD 1650	>100units USD 1570
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<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>
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<b>Verification report:</b>	WB-18-448	<b>Verification laboratory:</b>	CHEARI
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<b>Current PQS status:</b>	<i>pre-qualified: 16 Oct 2018</i>	<b>Validity until:</b>	<i>May, 2024</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/098</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	CFD-50 SDD
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Aucma Global Medical Co., Ltd.
<b>Address:</b>	315 Qianwangang Road, Economic & Technological Development Zone, Qingdao, China
<b>Telephone:</b>	+86 532 86763602
<b>Email:</b>	<a href="mailto:lishouda@aucma.com.cn">lishouda@aucma.com.cn</a> ; <a href="mailto:info@aucma.com.cn">info@aucma.com.cn</a>
<b>Web address:</b>	<a href="http://aucmaglobal.com.cn">http://aucmaglobal.com.cn</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive;#2;#Electric Mains 115/60Hz;#8;#Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	158.8 x 54.5 x 65.5 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	50 L	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	68 L	<b>Waterpack freezing capacity:</b>	
		<b>Waterpack storage capacity:</b>	
<b>Autonomy as per WHO/PQS protocols</b>	120 hours	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<p>"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.</p> <ul style="list-style-type: none"><li>• Included 3x100W PV modules and universal (roof, ground, pole) PV mounting rack with 20m wiring and 1.5m ground rod.</li><li>• Included PQS approved energy harvesting outputs with 12V (2A), 2x5V USB (1A), and 3-18V (8A) defined load output options</li><li>• Integrated 30-day electronic refrigerator temperature logger stores and displays temperature, alarm history and remaining autonomy/holdover time. (PQS prequalified in E006/TR06.3).</li><li>• 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.</li><li>• 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.</li><li>• Unit requires the addition of 32 liters of clean water during installation.</li></ul> <p>More information on ColdSafe and other Meta-Fridge technologies is available at <a href="http://www.metafridge.com">www.metafridge.com</a>"</p>			
<b>Comments:</b>			
<b>Accessories:</b>		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;	
<b>Spare parts (ref, price):</b>		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.	
<b>Shipping volume:</b>		<b>Shipping weight:</b>	95 kg
<b>Price year</b>		<b>Incoterms</b>	EXW
<b>Price</b>		1 – 99 units: 3200 USD      100 or more units: 3100 USD	
<b>Quality standard:</b>		<b>Specification ref.</b>	
<b>Verification report:</b>		<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>		<b>Validity until:</b>	
<i>pre-qualified: 19 Oct 2018</i>		<i>May, 2024</i>	
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/099</b>
<b>Type of appliance:</b>	Solar direct drive freezer
<b>Manufacturer's reference:</b>	VFS 048 SDD
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark
<b>Telephone:</b>	+45 7914 2555; +45 7914 2248
<b>Email:</b>	<a href="mailto:clc@vestfrostsolutions.com">clc@vestfrostsolutions.com</a> ; <a href="mailto:bjn@vestfrostsolutions.com">bjn@vestfrostsolutions.com</a>
<b>Web address:</b>	<a href="http://vestfrostsolutions.com/">http://vestfrostsolutions.com/</a>

## Specifications

<b>Climate zone:</b>		<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	85 x 55.5 x 65
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: N/A</b>
<b>Vaccine storage capacity: (Liters)</b>	n/a	<b>Gross volume (Liters):</b>	34.3 L
<b>Gross volume (Liters):</b>	n/a	<b>Waterpack freezing capacity:</b>	1.6 kg/24 h
		<b>Waterpack storage capacity:</b>	29 X0.6 L
<b>Autonomy as per WHO/PQS protocols</b>		<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

		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	
<b>Comments:</b>			
<b>Accessories:</b>		Self-regulating temperature control. Electronic temperature reading. Locking lid + keys. Manual in 6 languages. Plywood packing	
<b>Spare parts (ref, price):</b>		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.	
<b>Shipping volume:</b>	1.42 m3	<b>Shipping weight:</b>	167 kg
<b>Price year</b>	2018	<b>Incoterms</b>	EXW
<b>Price</b>	1-99 units: 2.635€		
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001 -	<b>Specification ref.</b>	
<b>Verification report:</b>	300-KLAB-17-118	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>	<i>pre-qualified: 23 Nov 2018</i>		<b>Validity until:</b> <i>May, 2024</i>

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





PERFORMANCE QUALITY SAFETY



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/100</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	TCW 40R AC
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsistemas.com">info@bmedicalsistemas.com</a> , <a href="mailto:Gilles.Ries@bmedicalsistemas.com">Gilles.Ries@bmedicalsistemas.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsistemas.com">Admilson.Pinto@bmedicalsistemas.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsistemas.com">www.bmedicalsistemas.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz;#2;#Electric Mains 115/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	103 x 78 x 89 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

**Freeze protection: Grade A**

<b>Vaccine storage capacity: (Litres)</b>	36.5 Litres
<b>Gross volume (Litres):</b>	45 Litres
<b>Holdover time (hours):</b>	121 h 54 mins
<b>Energy consumption, stable running (kWh/24 hours):</b>	0,80 kWh/day
<b>Energy consumption, cool down test (kWh/24 hours):</b>	0,76 kWh/day

<b>Gross volume:</b>	n/a
<b>Waterpack freezing capacity:</b>	
<b>Waterpack storage capacity:</b>	
<b>Energy consumption during freezing:</b>	

<b>Comments:</b>		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.	
<b>Accessories:</b>		1 basket 2 keys 1 brush 2 spacers documentation	
<b>Spare parts (ref, price):</b>		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 (12-28 V, 5.6W) - Part No. 292.9960.12  Other parts are available as spares on request.	
<b>Shipping volume:</b>	0.88 m3	<b>Shipping weight:</b>	128 kg
<b>Price year</b>	2019	<b>Incoterms</b>	EXW
<b>Price</b>	>100 units: €2500		
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WHO 18-002	<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Current PQS status:</b>	<i>pre-qualified: 01 Feb 2019</i>		<b>Validity until:</b> <i>May, 2024</i>

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



PERFORMANCE QUALITY SAFETY



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/101</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	TCW 80 AC
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsyste.ms.com">info@bmedicalsyste.ms.com</a> , <a href="mailto:Gilles.Ries@bmedicalsyste.ms.com">Gilles.Ries@bmedicalsyste.ms.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsyste.ms.com">Admilson.Pinto@bmedicalsyste.ms.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsyste.ms.com">www.bmedicalsyste.ms.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz;#2;#Electric Mains 115/60Hz
<b>Appliance tested at:</b>		<b>Ext dimensions (HxLxD)</b>	1030 x 780 x 900
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

**Freeze protection: Grade A**

<b>Vaccine storage capacity: (Litres)</b>	80.5 L
<b>Gross volume (Litres):</b>	82.5 L
<b>Holdover time (hours):</b>	72 H 09 MINS
<b>Energy consumption, stable running (kWh/24 hours):</b>	1,16 kWh/day
<b>Energy consumption, cool down test (kWh/24 hours):</b>	0,60 kWh/day

<b>Gross volume:</b>	n/a
<b>Waterpack freezing capacity:</b>	
<b>Waterpack storage capacity:</b>	
<b>Energy consumption during freezing:</b>	

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.			
<b>Comments:</b>			
<b>Accessories:</b>		4 basket 2 keys 1 brush 2 spacers documentation	
<b>Spare parts (ref, price):</b>		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 (12-28 V, 5.6W) - Part No. 292.9960.11 1 No. Drier - Part No. 296.0945.04 1 No. Controller display board - Part No. 296.9769.81 1 No. Sensor - Part No. 296.9805.06  Other parts are available as spares on request.	
<b>Shipping volume:</b>		<b>Shipping weight:</b>	113 kg
<b>Price year</b>		<b>Incoterms</b>	EXW
<b>Price</b>		>100 units: 2700€	
<b>Quality standard:</b>		<b>Specification ref.</b>	
<b>Verification report:</b>		<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Current PQS status:</b>		<b>Validity until:</b>	
pre-qualified: 01 Feb 2019		May, 2024	
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



PERFORMANCE QUALITY SAFETY



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/102</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	HTC-112
<b>Manufactured in:</b>	
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	720*875*1128mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	75 L	<b>Gross volume (Liters):</b>	
<b>Gross volume (Liters):</b>	112 L	<b>Waterpack freezing capacity:</b>	
		<b>Waterpack storage capacity:</b>	
<b>Autonomy as per WHO/PQS protocols</b>	92 hrs 46 mins	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<b>Comments:</b>	Power of Solar Panel :180W x 2 or 360W x 1		
<b>Accessories:</b>	4 baskets; manuals; keys		
<b>Spare parts (ref, price):</b>	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.		
<b>Shipping volume:</b>	0.98 m3	<b>Shipping weight:</b>	105KG
<b>Price year</b>	2021	<b>Incoterms</b>	EXW
<b>Price</b>	1-100units USD 3050	>100units USD 2900	
<b>Quality standard:</b>	- ISO 9001:2008 -		<b>Specification ref.</b>
<b>Verification report:</b>	WB-18-496	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	<i>pre-qualified: 27 Feb 2019</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/103</b>
<b>Type of appliance:</b>	Combined icelined refrigerator/waterpacks freezer
<b>Manufacturer's reference:</b>	GVR 55 FF AC
<b>Manufactured in:</b>	India
<b>Company:</b>	Godrej & Boyce MFG. Co. Ltd.
<b>Address:</b>	Plant 01, Pirojshanagar, Vikhroli West Mumbai 400 079 India
<b>Telephone:</b>	+91 22 67966201
<b>Email:</b>	<a href="mailto:medicalref@godrej.com">medicalref@godrej.com</a> ; <a href="mailto:hello@surechill.com">hello@surechill.com</a>
<b>Web address:</b>	<a href="http://www.godrejappliances/medical">http://www.godrejappliances/medical</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+10°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	1820 mm (H) x 795(W) x 750(D)
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

### Freeze protection: Grade A

<b>Vaccine storage capacity: (Litres)</b>	58 L		
<b>Gross volume (Litres):</b>	90 L	<b>Gross volume:</b>	44 L
<b>Holdover time (hours):</b>	113 hours 37 mins	<b>Waterpack freezing capacity:</b>	2.4/24 hrs
<b>Energy consumption, stable running (kWh/24 hours):</b>	1.91		14.4 L
		<b>Waterpack storage capacity:</b>	
<b>Energy consumption, cool down test (kWh/24 hours):</b>	2.33	<b>Energy consumption during freezing:</b>	1.91

"(i) Sure Chill is a patented technology licensed by The Sure Chill Company (UK)  
(ii) Refrigerator operates on only 2.5 hrs/day power at +43C ambient, post stabilization  
(iii) Has a built in intelligent temperature control, early warning and energy management system  
(iv) Unit requires addition of clean drinking water during installation, contact manufacturer for information"

R"Our Refrigerator is equipped with 2 type of Integrated Voltage Stabilizer depending upon country's power requirement:

- 1) 220-240V 50/60Hz with extended Voltage Range of 110-278V or
- 2) 110V/60Hz with voltage range extended upto 82V-159V. It can also operates at 50Hz frequency with voltage range of 102V-130V

**Comments:**

**Accessories:** Included in price: 3 wire shelves; 1 Padlock; 1 Funnel, plywood packaging, 30 days temperature monitoring system.  
Inbuilt Voltage Stabilizer:  
Option 1: for 220-240V 50/60 Hz nominal input/output with input voltage regulation range 110V-278V/50/60Hz  
Option 2: for 100-127V 60 Hz nominal input/output with input voltage regulation range 82V-159V/60Hz.  
Option 3: for 100-127V, 50 Hz nominal input/output with input voltage regulation range 102V-130V/50Hz.  
Optional (charged extra): Extra wire shelves, RTMD (E006/036)

**Spare parts (ref, price):** 1 No. Compressor - Part No. 40151606SD00230  
1 No. Condenser - Part No. 40101704DG00049  
1 No. Voltage stabilizer - Part No. 32101502SD00418  
1 No. Electronic Control Card / thermostat - Part No. 32101502SD00420  
1 No. Fan motor - Part No. 26101114SD00378  
1 No. Fan impeller - Part No. 41103015PA00033  
1 No. Starting Relay - Part No. 39122330SD00054  
1 No. Overload Protector - Part No. 39122330SD00064  
1 No. Starting Capacitor - Part No. 32121501SD00079

<b>Shipping volume:</b>	1.37 m3	<b>Shipping weight:</b>	180 kg
<b>Price year</b>	2023	<b>Incoterms</b>	EXW
<b>Price</b>	Price \$1500 (1-9 units)	\$1450(10-99 units)	\$1400(100+ units)
<b>Quality standard:</b>	- ISO 9001:2008 - <b>Specification ref.</b>		
<b>Verification report:</b>	CE-JOB-NDA-18-000526-GVR 55 FF AC	<b>Verification laboratory:</b>	Intertek India
<b>Current PQS status:</b>	<i>pre-qualified: 03 Apr 2019</i> <b>Validity until:</b> <i>May, 2024</i>		

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





## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/106</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	VLS 054A SDD
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark
<b>Telephone:</b>	+45 7914 2555; +45 7914 2248
<b>Email:</b>	<a href="mailto:clc@vestfrostsolutions.com">clc@vestfrostsolutions.com</a> ; <a href="mailto:bjn@vestfrostsolutions.com">bjn@vestfrostsolutions.com</a>
<b>Web address:</b>	<a href="http://vestfrostsolutions.com/">http://vestfrostsolutions.com/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	85 x 72 x 60 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	55.5L	<b>Gross volume (Liters):</b>	NA
<b>Gross volume (Liters):</b>	108l	<b>Waterpack freezing capacity:</b>	NA
		<b>Waterpack storage capacity:</b>	NA
<b>Autonomy as per WHO/PQS protocols</b>	72.4 hours	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<p>Prices include Vestfrost Solutions SDD PV energy kit comprising of PV panels, roof adjustable bracket system, plug &amp; play installation. Unit equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features.</p> <p>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.</p>			
<b>Comments:</b>			
<b>Accessories:</b>			
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			
<b>Spare parts (ref, price):</b>			
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			
<b>Shipping volume:</b>	0.65m3	<b>Shipping weight:</b>	85kg
<b>Price year</b>	2016	<b>Incoterms</b>	FCA
<b>Price</b>	1-99 units: 3,107 €	100-199 units: 2.882 €	200 or more units: 2.840 €
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001 - DS/OHSAS 18001:2008 -		
<b>Verification report:</b>	100918190MKS-001 issue 2	<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified: 02 Oct 2019</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/107</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	VLS 094A SDD
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark
<b>Telephone:</b>	+45 7914 2555; +45 7914 2248
<b>Email:</b>	<a href="mailto:clc@vestfrostsolutions.com">clc@vestfrostsolutions.com</a> ; <a href="mailto:bjn@vestfrostsolutions.com">bjn@vestfrostsolutions.com</a>
<b>Web address:</b>	<a href="http://vestfrostsolutions.com/">http://vestfrostsolutions.com/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	86.0 x 93.0 x 70.0 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	92	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	151	<b>Waterpack freezing capacity:</b>	N/A
		<b>Waterpack storage capacity:</b>	N/A
<b>Autonomy as per WHO/PQS protocols</b>	72.5 hours	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

	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.		
Comments:			
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		
Spare parts (ref, price):	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K 101Z0211) -1 10-45 V - Part No. 8-036510223 1 No. Electronic control unit - Part No. 6520845 (Incl. in the compressor) 1 No. Electronic Thermostat/controller (Dixell) - Part No. 702090013 1 No. Fan Set - Part No. 7090099 1 No. Thermometer - Part No. 7020287-03  Other parts are available as spares on request.		
Shipping volume:	0.83 m3	Shipping weight:	108 kg
Price year	2016	Incoterms	FCA
Price	1-99 units: 3.264 €	100-199 units: 3.217 €	200 or more units: 3.170 €
Quality standard:	- ISO 9001:2008 - ISO 14001 - DS/OHSAS 18001:2008 -	Specification ref.	
Verification report:	101809330MKS-001 Issue 1	Verification laboratory:	
Current PQS status:	pre-qualified: 02 Oct 2019		Validity until: May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/108</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	VLS 154A SDD Greenline
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

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**Web address:** <http://vestfrostsolutions.com/>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	86.0 x 127.0 x 70.0 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	170	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	248	<b>Waterpack freezing capacity:</b>	N/A
		<b>Waterpack storage capacity:</b>	N/A
<b>Autonomy as per WHO/PQS protocols</b>	73.4 hours	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<p>Prices include Vestfrost Solutions SDD PV energy kit comprising of PV panels, roof adjustable bracket system, plug &amp; play installation.</p> <p>Unit equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features.</p> <p>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.</p>			
<b>Comments:</b>			
<b>Accessories:</b>			
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			
<b>Spare parts (ref, price):</b>			
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.			
<b>Shipping volume:</b>		<b>Shipping weight:</b>	
0.83m3		108kg	
<b>Price year</b>		<b>Incoterms</b>	
2016		FCA	
<b>Price</b>			
1-99 units: 4,345 €		100-199 units: 4044 €	
		200 or more units: 3.985 €	
<b>Quality standard:</b>		<b>Specification ref.</b>	
- ISO 9001:2008 - ISO 14001 - DS/OHSAS 18001:2008 -			
<b>Verification report:</b>		<b>Verification laboratory:</b>	
300-KLAB-15-115		Danish Technological Institute	
<b>Current PQS status:</b>		<b>Validity until:</b>	
pre-qualified: 02 Oct 2019		May, 2024	
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/109</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	VLS 204A
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

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*Web address:* <http://vestfrostsolutions.com/>

## Specifications

<b>Climate zone:</b>		<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	85 x 73 x 70 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

### Freeze protection: Grade A

**Vaccine storage capacity:** 60L  
(Litres)

**Gross volume (Litres):** 113L

**Holdover time (hours):** 54

**Energy consumption, stable running (kWh/24 hours):** 0.57

**Energy consumption, cool down test (kWh/24 hours):** 0.58

**Gross volume:** N/A

**Waterpack freezing capacity:** N/A

**Waterpack storage capacity:** N/A

**Energy consumption during freezing:** N/A

<p>Appliance requires only 4 hours electricity per 24 hours at +43C°          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.</p>			
<b>Comments:</b>			
<b>Accessories:</b>			
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			
<b>Spare parts (ref, price):</b>			
Included in the UNICEF Supply Division spare parts kit: 1 No Compressor (TLES7KTK, Complete) - Part No.8-036038297 1 No Thermostat - Part No.7095348 1 No Starting device (103N0021) Part No.A921115 1 No Thermometer, solar, Part No.7020287-03  Other parts are available as spares on request.			
<b>Shipping volume:</b>	0.58m3	<b>Shipping weight:</b>	70kg
<b>Price year</b>	2020	<b>Incoterms</b>	FCA
<b>Price</b>	1-99 units: 919 €		
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001 - DS/OHSAS 18001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	BOM No: 1-n113	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>	<i>pre-qualified: 02 Oct 2019</i>		<b>Validity until:</b> <i>May, 2024</i>

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





## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/110</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	VLS 304A AC
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

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**Web address:** <http://vestfrostsolutions.com/>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	85 x 92 x 70 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

### Freeze protection: Grade A

<b>Vaccine storage capacity:</b> (Litres)	98
<b>Gross volume (Litres):</b>	157
<b>Holdover time (hours):</b>	55.5 hours
<b>Energy consumption, stable running (kWh/24 hours):</b>	0.60 kWh/24h
<b>Energy consumption, cool down test (kWh/24 hours):</b>	0.69 kWh/24h

<b>Gross volume:</b>	N/A
<b>Waterpack freezing capacity:</b>	N/A
<b>Waterpack storage capacity:</b>	N/A
<b>Energy consumption during freezing:</b>	N/A

		<p>Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features.</p> <p>Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance.</p> <p>For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable.</p> <p>Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc.</p> <p>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</p> <p>For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz</p> <p>For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz</p> <p>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.</p>	
<b>Comments:</b>			
<b>Accessories:</b>		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	
<b>Spare parts (ref, price):</b>		<p>Included in the UNICEF Supply Division spare parts kit:</p> <p>1 No Compressor (TLES7KTK, Complete) - Part No.8-036038297</p> <p>1 No Thermostat - Part No.7095348</p> <p>1 No Starting device (103N0021) Part No.A921115</p> <p>1 No Thermometer, solar, Part No.7020287-03</p> <p>Other parts are available as spares on request.</p>	
<b>Shipping volume:</b>	0.75 m3	<b>Shipping weight:</b>	93 kg
<b>Price year</b>	2020	<b>Incoterms</b>	FCA
<b>Price</b>	1-99 units: 1,033 €		
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001 - DS/OHSAS 18001:2008 -		<b>Specification ref.</b>
<b>Verification report:</b>	12057110OMKS-002a amended	<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified: 02 Oct 2019</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/111</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	VLS 354A AC
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

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[bjn@vestfrostsolutions.com](mailto:bjn@vestfrostsolutions.com)

**Web address:** <http://vestfrostsolutions.com/>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	85 x 113 x 70 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

### Freeze protection: Grade A

**Vaccine storage capacity:** 127 L in baskets  
(Litres)

**Gross volume (Litres):** 209 L

**Holdover time (hours):** 54.7 hours

**Energy consumption, stable running (kWh/24 hours):** 0.62kWh/24h

**Energy consumption, cool down test (kWh/24 hours):** 0.64 kWh/24h

**Gross volume:** N/A

**Waterpack freezing capacity:** N/A

**Waterpack storage capacity:** N/A

**Energy consumption during freezing:** N/A

<p>Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features.</p> <p>Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance.</p> <p>For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable.</p> <p>Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc.</p> <p>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</p> <p>For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz</p> <p>For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz</p> <p>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.</p>			
<b>Comments:</b>			
<b>Accessories:</b>			
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			
<b>Spare parts (ref, price):</b>			
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			
<b>Shipping volume:</b>		<b>Shipping weight:</b>	
0.85 m3		110 kg	
<b>Price year</b>		<b>Incoterms</b>	
2016		FCA	
<b>Price</b>			
1-99 units: 1,143 €			
<b>Quality standard:</b>		<b>Specification ref.</b>	
- ISO 9001:2008 - ISO 13485 - ISO 14001 - DS/OHSAS 18001:2008 -			
<b>Verification report:</b>		<b>Verification laboratory:</b>	
12057110OMKS-003a amended			
<b>Current PQS status:</b>		<b>Validity until:</b>	
pre-qualified: 02 Oct 2019		May, 2024	
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/112</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	VLS 404A AC
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

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[bjn@vestfrostsolutions.com](mailto:bjn@vestfrostsolutions.com)

*Web address:* <http://vestfrostsolutions.com/>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	86.0 X 127.0 X 70.0 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

### Freeze protection: Grade A

**Vaccine storage capacity:** 145  
(Litres)

**Gross volume (Litres):** 235

**Holdover time (hours):** 55 hours

**Energy consumption, stable running (kWh/24 hours):** 0.67

**Energy consumption, cool down test (kWh/24 hours):** 0.69

**Gross volume:**

**Waterpack freezing capacity:** N/A

N/A

**Waterpack storage capacity:**

**Energy consumption during freezing:** N/A

<p>Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features.</p> <p>Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance.</p> <p>For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable.</p> <p>Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc.</p> <p>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</p> <p>For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz</p> <p>For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz</p> <p>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.</p>			
<b>Comments:</b>			
<b>Accessories:</b>			
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			
<b>Spare parts (ref, price):</b>			
Included in the UNICEF Supply Division spare parts kit: 1 No Compressor (NLE 9KTK, Complete) - Part No.8-036038255 1 No Thermostat - Part No.7095348 1 No Starting device (103N0021) Part No.A921115 1 No Thermometer, solar, Part No.7020287-0Other parts are available as spares on request.			
<b>Shipping volume:</b>	1.02 m3	<b>Shipping weight:</b>	126 Kg
<b>Price year</b>	2020	<b>Incoterms</b>	FCA
<b>Price</b>	1-99 units: 1,231 €	100-199 units: 1030 €	200 or more units: 1016 €
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 14001 - DS/OHSAS 18001:2008 -		
<b>Specification ref.</b>			
<b>Verification report:</b>	A66543 - amended	<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified: 02 Oct 2019</i>		<b>Validity until:</b> <i>May, 2024</i>

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



PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/113</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	VLS 504A AC
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

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[bjn@vestfrostsolutions.com](mailto:bjn@vestfrostsolutions.com)

**Web address:** <http://vestfrostsolutions.com/>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional;#2;#Electric Mains 115/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	84.5 x 156.3 x 70.0 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

**Freeze protection: Grade A**

<b>Vaccine storage capacity: (Litres)</b>	242 L
<b>Gross volume (Litres):</b>	314 L
<b>Holdover time (hours):</b>	55.27 hrs
<b>Energy consumption, stable running (kWh/24 hours):</b>	0.638 kWh/24h
<b>Energy consumption, cool down test (kWh/24 hours):</b>	

<b>Gross volume:</b>	
<b>Waterpack freezing capacity:</b>	
<b>Waterpack storage capacity:</b>	
<b>Energy consumption during freezing:</b>	

<p>Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features.</p> <p>Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance.</p> <p>For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable.</p> <p>Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc.</p> <p>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</p> <p>For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz</p> <p>For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz</p> <p>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.</p>			
<b>Comments:</b>			
<b>Accessories:</b>		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	
<b>Spare parts (ref, price):</b>		Included in the UNICEF Supply Division spare parts kit: 1 No Compressor (NLE 9KTK, Complete) - Part No.8-03606510309 1 No Thermostat - Part No.7095348 1 No Starting device (103N0021) Part No.6520511 1 No Thermometer, solar, Part No.7020287-03  Other parts are available as spares on request.	
<b>Shipping volume:</b>	1.16 m3	<b>Shipping weight:</b>	150 kg
<b>Price year</b>	2018	<b>Incoterms</b>	EXW
<b>Price</b>	1 – 99 units:		
<b>Quality standard:</b>	- ISO 9001:2008 -		<b>Specification ref.</b>
<b>Verification report:</b>	300-KLAB-17-179	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>	pre-qualified: 02 Oct 2019		<b>Validity until:</b> May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			





PERFORMANCE QUALITY SAFETY



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/114</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	HBC-120
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	890mm*829mm*1425mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

### Freeze protection: Grade A

<b>Vaccine storage capacity: (Litres)</b>	100L
<b>Gross volume (Litres):</b>	120L
<b>Holdover time (hours):</b>	128hrs48mins
<b>Energy consumption, stable running (kWh/24 hours):</b>	0.40kWh/24h
<b>Energy consumption, cool down test (kWh/24 hours):</b>	0.35kWh/24h

<b>Gross volume:</b>	NA
<b>Waterpack freezing capacity:</b>	
<b>Waterpack storage capacity:</b>	
<b>Energy consumption during freezing:</b>	

<b>Comments:</b>	Optional: Remote temperature monitoring device (Price not include: Voltage regulator);
<b>Accessories:</b>	Keys, Handle component, 30 days Data logger
<b>Spare parts (ref, price):</b>	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.

<b>Shipping volume:</b>	1.44 m3	<b>Shipping weight:</b>	160 KG
<b>Price year</b>	2021	<b>Incoterms</b>	EXW
<b>Price</b>	1-100units USD 1800	>100units USD 1750	
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WB-19-473	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	<i>pre-qualified: 09 Jun 2020</i>	<b>Validity until:</b>	<i>May, 2024</i>

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



PERFORMANCE QUALITY SAFETY



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/115</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	HBC-240
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	890mm*829mm*1820mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

**Freeze protection: Grade A**

**Vaccine storage capacity:** 200 L  
(Litres)

**Gross volume (Litres):** 240 L

**Holdover time (hours):** 87hrs 14mins

**Energy consumption, stable running (kWh/24 hours):** 0.44kWh/24h

**Energy consumption, cool down test (kWh/24 hours):** 0.40kWh/24h

**Gross volume:**

**Waterpack freezing capacity:**

**Waterpack storage capacity:**

**Energy consumption during freezing:**

<b>Comments:</b>	Keys, Handle component, 30 days Data logger (Price does not include: Voltage regulator);
<b>Accessories:</b>	Optional: Remote temperature monitoring device
<b>Spare parts (ref, price):</b>	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.

<b>Shipping volume:</b>	1.8 m3	<b>Shipping weight:</b>	186 KG
<b>Price year</b>	2021	<b>Incoterms</b>	EXW
<b>Price</b>	1-100units USD 2000	>100units USD 1950	
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WB-19-356	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	<i>pre-qualified: 09 Jun 2020</i>	<b>Validity until:</b>	<i>May, 2024</i>

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



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/116</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	HTC-120-SDD
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of

<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Climate zone:</b>		<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	865mm*825mm*1425mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - absorption
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	100L	<b>Gross volume (Liters):</b>	
<b>Gross volume (Liters):</b>	120L	<b>Waterpack freezing capacity:</b>	
		<b>Waterpack storage capacity:</b>	
<b>Autonomy as per WHO/PQS protocols</b>	112hrs 24mins	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

Comments:	Optional: Remote temperature monitoring device		
Accessories:	Keys, Handle component, 30 days Data logger		
Spare parts (ref, price):	<div>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</div> <div>Other parts are available as spares on request.</div>		
Shipping volume:	1.44 m3	Shipping weight:	160 kg
Price year	2021	Incoterms	EXW
Price	1-100units USD 3629	>100units USD 3550	
Quality standard:	- ISO 9001:2008 -		Specification ref.
Verification report:	WB-19-474	Verification laboratory:	CHEARI
Current PQS status:	pre-qualified: 09 Jun 2020		Validity until: May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E003:

## Refrigerators and freezers

**PQS code:****E003/117****Type of appliance:****Manufacturer's reference:**

HTC-240-SDD

**Manufactured in:**

China; People's Republic of

**Company:**

Qingdao Haier Biomedical Co., Ltd

**Address:**No.280 Fengyuan Road  
High-tech Zone  
Qingdao(266111),  
China; People's Republic of**Telephone:**

+86-532-88935593

**Email:**[wenming.wang@haierbiomedical.com](mailto:wenming.wang@haierbiomedical.com)**Web address:**<http://www.haiermedical.com>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	865mm*825mm*1815mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>	<b>AND / OR</b>	<b>FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	200 L	<b>Gross volume (Liters):</b>	
<b>Gross volume (Liters):</b>	240 L	<b>Waterpack freezing capacity:</b>	
		<b>Waterpack storage capacity:</b>	
<b>Autonomy as per WHO/PQS protocols</b>	95hrs 23mins	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

**Warning !**

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

Comments:	Optional: Remote temperature monitoring device		
Accessories:	Keys, Handle component, 30 days Data logger		
Spare parts (ref, price):	<div>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</div> <div>Other parts are available as spares on request.</div>		
Shipping volume:	1.79 m3	Shipping weight:	185 kg
Price year	2021	Incoterms	
Price	1-100units USD 4250	>100units USD 4100	
Quality standard:	- ISO 9001:2008 -		Specification ref.
Verification report:	WB-19-376	Verification laboratory:	CHEARI
Current PQS status:	pre-qualified: 09 Jun 2020		Validity until: May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			





PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/118</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	ARKTEK YBC-10 SDD
<b>Manufactured in:</b>	
<b>Company:</b>	Qingdao Aucma Global Medical Co.,Ltd.
<b>Address:</b>	315 Qianwangang Road, Economic & Technological Development Zone, Qingdao, China
<b>Telephone:</b>	+86 532 86763602
<b>Email:</b>	<a href="mailto:lishouda@aucma.com.cn">lishouda@aucma.com.cn</a> ; <a href="mailto:info@aucma.com.cn">info@aucma.com.cn</a>
<b>Web address:</b>	<a href="http://aucmaglobal.com.cn">http://aucmaglobal.com.cn</a>

## Specifications

<b>Climate zone:</b>		<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>		<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	Diam 52.8 x 86 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	10 Litres	<b>Gross volume (Liters):</b>	
<b>Gross volume (Liters):</b>	15 Litres	<b>Waterpack freezing capacity:</b>	
		<b>Waterpack storage capacity:</b>	
<b>Autonomy as per WHO/PQS protocols</b>	72 hours	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<b>Comments:</b>	"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 keep 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."		
<b>Accessories:</b>	6 vaccine stacks; documentation;		
<b>Spare parts (ref, price):</b>	"Thermoelectric cooler 1 EA Electronic control board 1 SET"		
<b>Shipping volume:</b>		<b>Shipping weight:</b>	
<b>Price year</b>	2020	<b>Incoterms</b>	EXW
<b>Price</b>	\$ 3,550		
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WB-19-369	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	pre-qualified: 20 Oct 2020	<b>Validity until:</b>	May, 2024

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



PERFORMANCE QUALITY SAFETY



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/119</b>
<b>Type of appliance:</b>	Solar direct drive combined refrigerator/freezer
<b>Manufacturer's reference:</b>	VLS 076 RF SDD
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

**Telephone:** +45 7914 2555; +45 7914 2248

**Email:** [clc@vestfrostsolutions.com](mailto:clc@vestfrostsolutions.com);  
[bjn@vestfrostsolutions.com](mailto:bjn@vestfrostsolutions.com)

**Web address:** <http://vestfrostsolutions.com/>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	960 x 1280 x 650
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	61.25 L	<b>Gross volume (Liters):</b>	34.3 L
<b>Gross volume (Liters):</b>	111 L	<b>Waterpack freezing capacity:</b>	3 x 0.6 L Waterpacks per/24h
		<b>Waterpack storage capacity:</b>	29 x 0.6 L Waterpacks
<b>Autonomy as per WHO/PQS protocols</b>	89.32 hrs	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

"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.

**Comments:**

<b>Accessories:</b>	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		
<b>Spare parts (ref, price):</b>	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		
<b>Shipping volume:</b>	1.15 m3	<b>Shipping weight:</b>	157 kg
<b>Price year</b>	2021	<b>Incoterms</b>	EXW
<b>Price</b>	EUR 5177		
<b>Quality standard:</b>	- ISO 9001:2008 -		<b>Specification ref.</b>
<b>Verification report:</b>	<b>Verification laboratory:</b>		Danish Technological Institute
<b>Current PQS status:</b>	<i>pre-qualified: 02 Feb 2021</i>		<b>Validity until:</b> <i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/120</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	VLS 174A AC
<b>Manufactured in:</b>	Denmark
<b>Company:</b>	Vestfrost Solutions
<b>Address:</b>	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

**Telephone:** +45 7914 2555; +45 7914 2248

**Email:** [clc@vestfrostsolutions.com](mailto:clc@vestfrostsolutions.com);  
[bjn@vestfrostsolutions.com](mailto:bjn@vestfrostsolutions.com)

**Web address:** <http://vestfrostsolutions.com/>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 115/60Hz;#8;#Electric Mains 220- 240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	H950xL550xW650
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

REFRIGERATOR		FREEZER		Freeze protection: Grade A
<b>Vaccine storage capacity:</b> (Litres)	38 L			
<b>Gross volume (Litres):</b>	50.60 L	<b>Gross volume:</b>	n/a	
<b>Holdover time (hours):</b>	57.52 HOURS	<b>Waterpack freezing capacity:</b>		
<b>Energy consumption, stable running (kWh/24 hours):</b>	0.504 kWh/24 h	<b>Waterpack storage capacity:</b>		
<b>Energy consumption, cool down test (kWh/24 hours):</b>		<b>Energy consumption during freezing:</b>		

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

**Comments:**

**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

**Spare parts (ref, price):** Compressor (TLES7KTK, Complete)  
Thermostat  
Starting device  
Thermometer

**Shipping volume:** 0.63 m3 **Shipping weight:** 79 KG

**Price year** 2021 **Incoterms** EXW

**Price**

**Quality standard:** - ISO 9001:2008 - **Specification ref.**

**Verification report:** Refrigerator 300-KLAB-20-317 **Verification laboratory:** Danish Technological Institute

**Current PQS status:** *pre-qualified: 27 Apr 2021* **Validity until:** *May, 2024*

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/121</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	TCW80-SDD
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsyste.ms.com">info@bmedicalsyste.ms.com</a> , <a href="mailto:Gilles.Ries@bmedicalsyste.ms.com">Gilles.Ries@bmedicalsyste.ms.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsyste.ms.com">Admilson.Pinto@bmedicalsyste.ms.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsyste.ms.com">www.bmedicalsyste.ms.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	900mm x 1030mm x 780mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	80.5 L	<b>Gross volume (Liters):</b>	
<b>Gross volume (Liters):</b>	82.5 L	<b>Waterpack freezing capacity:</b>	
		<b>Waterpack storage capacity:</b>	
<b>Autonomy as per WHO/PQS protocols</b>	72hours 21min	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<b>Comments:</b>		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	
<b>Accessories:</b>		vaccine storage basket lockable lid 2 spacers	
<b>Spare parts (ref, price):</b>		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 (12-28 V, 5.6W) - Part No. 292.9960.11 1 No. Drier - Part No. 296.0945.04 1 No. Controller display board - Part No. 296.9769.81 1 No. Sensor - Part No. 296.9805.06 Other parts are available as spares on request	
<b>Shipping volume:</b>	0.88 m3	<b>Shipping weight:</b>	113 kg
<b>Price year</b>	2021	<b>Incoterms</b>	EXW
<b>Price</b>	>100units G1 : 5007€	>100units G2 : 5437€	
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WHO 21-01	<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Current PQS status:</b>	<i>pre-qualified: 07 Jun 2021</i>		<b>Validity until:</b> <i>May, 2024</i>

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

**E003:****Refrigerators and freezers**

<b>PQS code:</b>	<b>E003/122</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	IceVolt 300P
<b>Manufactured in:</b>	Malaysia
<b>Company:</b>	Coolfinity Medical B.V.
<b>Address:</b>	Europalaan 2 3526KS Utrecht Netherlands
<b>Telephone:</b>	+31 85 066 23 64
<b>Email:</b>	<a href="mailto:hello@coolfinity.com">hello@coolfinity.com</a>
<b>Web address:</b>	<a href="http://www.coolfinity.com">www.coolfinity.com</a>

**Specifications**

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+10°C
<b>Refrigerant:</b>	#R290	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz;#2;#Electric Mains 115/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	670mm (W) x 730mm (D) x 1999mm (H)
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

**REFRIGERATOR****FREEZER****Freeze protection: Grade A**

**Vaccine storage capacity:** 241 L  
(Litres)

**Gross volume (Litres):** 318 L

**Holdover time (hours):** 25 hours

**Energy consumption, stable running (kWh/24 hours):** 2.98

**Energy consumption, cool down test (kWh/24 hours):** 2.21

**Gross volume:** N/A

**Waterpack freezing capacity:** n/a

n/a

**Waterpack storage capacity:**

**Energy consumption during freezing:** n/a



- 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.

**Comments:** The glass door includes a protective film that blocks >99% of UV light.

**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)

**Spare parts (ref, price):** For the UNICEF Supply Division the spare parts kit consists of:  
 Compressor Embraco: art nr. 611978800  
 Starting capacitor: art nr. 634272600  
 Condenser POT: art nr. 594171400  
 Condenser fan motor: art nr. 611872900  
 Battery 12V: art nr. 613303500  
 Battery Charger 4A: art nr. 611429600  
 Lock housing pre-assembled: art nr. 945475700  
 Switch reed: art nr. 606072500  
 Controller 12V: art nr. 611478900

<b>Shipping volume:</b>	1,09 m3	<b>Shipping weight:</b>	190 kg
<b>Price year</b>	2023	<b>Incoterms</b>	FCA
<b>Price</b>	€2580		
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	300-KLAB-21-106	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>	<i>pre-qualified: 14 Jun 2021</i>	<b>Validity until:</b>	<i>May, 2024</i>

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/123</b>
<b>Type of appliance:</b>	Vaccine/waterpacks freezer
<b>Manufacturer's reference:</b>	TCW120AC
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsistemas.com">info@bmedicalsistemas.com</a> , <a href="mailto:Gilles.Ries@bmedicalsistemas.com">Gilles.Ries@bmedicalsistemas.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsistemas.com">Admilson.Pinto@bmedicalsistemas.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsistemas.com">www.bmedicalsistemas.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 115/60Hz;#1;#Electric Mains 220- 240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	910 x 1620 x 790 mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

### Freeze protection: Grade A

<b>Vaccine storage capacity: (Litres)</b>	120 L
<b>Gross volume (Litres):</b>	151 L
<b>Holdover time (hours):</b>	72 Hrs
<b>Energy consumption, stable running (kWh/24 hours):</b>	1.55kWh/24h
<b>Energy consumption, cool down test (kWh/24 hours):</b>	1.07kWh/24h

<b>Gross volume:</b>	27.7 L
<b>Waterpack freezing capacity:</b>	1.6 kg/24h
<b>Waterpack storage capacity:</b>	
<b>Energy consumption during freezing:</b>	1.41kWh/24h

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.			
<b>Comments:</b>			
<b>Accessories:</b>		4 vaccine storage baskets lockable lid 2 spacers 22 waterpacks of 0.6L	
<b>Spare parts (ref, price):</b>			
<b>Shipping volume:</b>		<b>Shipping weight:</b>	188 kg
<b>Price year</b>		<b>Incoterms</b>	
<b>Price</b>			
<b>Quality standard:</b>		<b>Specification ref.</b>	
<b>Verification report:</b>		<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Current PQS status:</b>		<b>Validity until:</b>	
pre-qualified: 06 Dec 2021		May, 2024	

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/124</b>
<b>Type of appliance:</b>	Solar direct drive combined refrigerator/freezer
<b>Manufacturer's reference:</b>	TCW120SDD
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsistemas.com">info@bmedicalsistemas.com</a> , <a href="mailto:Gilles.Ries@bmedicalsistemas.com">Gilles.Ries@bmedicalsistemas.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsistemas.com">Admilson.Pinto@bmedicalsistemas.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsistemas.com">www.bmedicalsistemas.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	910 x 1620 x 790 mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	120 L	<b>Gross volume (Liters):</b>	28 L
<b>Gross volume (Liters):</b>	153 L	<b>Waterpack freezing capacity:</b>	>1.6 kg/24h
		<b>Waterpack storage capacity:</b>	
<b>Autonomy as per WHO/PQS protocols</b>	82hrs 5 mins	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day
<b>Warning !</b> For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.			

### Comments:

<b>Accessories:</b>	4 vaccine storage baskets lockable lid 2 spacers 22 waterpacks of 0.6L
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### Spare parts (ref, price):

<b>Shipping volume:</b>	1.39 m3	<b>Shipping weight:</b>	187 kg
<b>Price year</b>	2021	<b>Incoterms</b>	
<b>Price</b>			

<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
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<b>Verification report:</b>		<b>Verification laboratory:</b>	CEMAFROID SAS
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<b>Current PQS status:</b>	pre-qualified: 06 Dec 2021	<b>Validity until:</b>	May, 2024
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/125</b>
<b>Type of appliance:</b>	Vaccine Freezer - Ultralow Temperature Storage
<b>Manufacturer's reference:</b>	U201
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsistemas.com">info@bmedicalsistemas.com</a> , <a href="mailto:Gilles.Ries@bmedicalsistemas.com">Gilles.Ries@bmedicalsistemas.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsistemas.com">Admilson.Pinto@bmedicalsistemas.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsistemas.com">www.bmedicalsistemas.com</a>

## Specifications

<b>Climate zone:</b>		<b>Min rated ambient temp:</b>	
<b>Refrigerant:</b>	#R290	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	1293 x 699 x 1039 mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - absorption

### REFRIGERATOR

### FREEZER

### Freeze protection: Not tested

**Vaccine storage capacity:** N/A  
(Litres)

**Gross volume (Litres):**

**Gross volume:** 214 L

**Holdover time (hours):**

**Waterpack freezing capacity:**

**Energy consumption, stable running (kWh/24 hours):** 13.5 kWh /24 h

**Waterpack storage capacity:**

**Energy consumption, cool down test (kWh/24 hours):**

**Energy consumption during freezing:**

### Comments:

**Accessories:** 1 separate interior door  
1 ST-Shelf  
4 Smooth castors  
1 RTMD (Integrated remote temperature-monitoring device)  
°B Connected Monitoring Software

### Spare parts (ref, price):

<b>Shipping volume:</b>	1.2 m3	<b>Shipping weight:</b>	252 kg
<b>Price year</b>	2022	<b>Incoterms</b>	
<b>Price</b>			

<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>		<b>Verification laboratory:</b>	CEMAFROID SAS

**Current PQS status:** *pre-qualified: 25 Feb 2022* **Validity until:** *May, 2024*

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



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/126</b>
<b>Type of appliance:</b>	Vaccine Freezer
<b>Manufacturer's reference:</b>	HBD-86
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	0°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	788mm*717mm*872mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

**Freeze protection: Not tested****Vaccine storage capacity:** 61 L  
(Litres)**Gross volume (Litres):****Gross volume:** 86 L**Holdover time (hours):** 7 hrs 19 minutes**Waterpack freezing capacity:****Energy consumption, stable running (kWh/24 hours):** 0.95**Waterpack storage capacity:****Energy consumption, cool down test (kWh/24 hours):** 0.98**Energy consumption during freezing:**

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"1. Display: Solar LED Temperature Display  
2. Low power consumption"  
"1. Display: Solar LED Temperature Display  
2. Low power consumption"

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**Comments:**

**Accessories:** 1. Instructions 2. Key 3. Handle component 4. Basket 5. Alcohol thermometer

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**Spare parts (ref, 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"

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<b>Shipping volume:</b>	0.71cbm	<b>Shipping weight:</b>	90kg
<b>Price year</b>	2022	<b>Incoterms</b>	EXW
<b>Price</b>	\$1065 including 30 DTR		
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WB-21-0193	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	<i>pre-qualified: 07 Jul 2022</i>		<b>Validity until:</b> <i>May, 2024</i>

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

**E003:****Refrigerators and freezers**

<b>PQS code:</b>	<b>E003/127</b>
<b>Type of appliance:</b>	Vaccine/waterpacks freezer
<b>Manufacturer's reference:</b>	VFW140H-HC
<b>Manufactured in:</b>	India
<b>Company:</b>	Western Refrigeration Private Limited
<b>Address:</b>	7/B, Pannalal Silk Mill Compound, L.B.S. Marg, Bhandup (West), Mumbai 400078. India
<b>Telephone:</b>	+91 22 - 67161200
<b>Email:</b>	<a href="mailto:paresh@westernequipments.com">paresh@westernequipments.com</a>
<b>Web address:</b>	<a href="https://www.westernequipments.com/">https://www.westernequipments.com/</a>

**Specifications**

<b>Climate zone:</b>		<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	#R290	<b>Energy source:</b>	220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	710mm (W) X 720mm (D) X 955mm (H)
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - absorption

**REFRIGERATOR****FREEZER****Freeze protection: Not tested**

**Vaccine storage capacity:** 68 Litres  
(Litres)

**Gross volume (Litres):**

**Gross volume:** 142 Litre

**Holdover time (hours):**

**Waterpack freezing capacity:** 16.2 kg/24hrs

**Energy consumption, stable running (kWh/24 hours):** 1.94

72.5 kg

**Waterpack storage capacity:**

**Energy consumption, cool down test (kWh/24 hours):** 2.06 kWh / 24 h

**Energy consumption during freezing:**

**Comments:**

**Accessories:** 4 Baskets, keys, Steam Alcohol Thermometer (Optional), Instruction Manual

**Spare parts (ref, 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.

<b>Shipping volume:</b>	0.60 m3	<b>Shipping weight:</b>	60Kg ± 5
<b>Price year</b>	2022	<b>Incoterms</b>	EXW
<b>Price</b>	1 to 99 Units - 635 USD	100 to 200 Units- 540 USD	201 or more units- 525 USD
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	4789809905-01-OTHERS-S1	<b>Verification laboratory:</b>	UL India Private Limited
<b>Current PQS status:</b>	<i>pre-qualified: 07 Jul 2022</i>		<b>Validity until:</b> May, 2024

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





PERFORMANCE QUALITY SAFETY



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/128</b>
<b>Type of appliance:</b>	Vaccine/waterpacks freezer
<b>Manufacturer's reference:</b>	VFW310H-HC
<b>Manufactured in:</b>	India
<b>Company:</b>	Western Refrigeration Private Limited
<b>Address:</b>	7/B, Pannalal Silk Mill Compound, L.B.S. Marg, Bhandup (West), Mumbai 400078. India
<b>Telephone:</b>	+91 22 - 67161200
<b>Email:</b>	<a href="mailto:paresh@westernequipments.com">paresh@westernequipments.com</a>
<b>Web address:</b>	<a href="https://www.westernequipments.com/">https://www.westernequipments.com/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	#R290	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	1230mm (W) X 720mm (D) X 965mm (H)
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - absorption

### REFRIGERATOR

### FREEZER

**Freeze protection: Not tested**

<b>Vaccine storage capacity:</b> (Litres)	166 Litre
<b>Gross volume (Litres):</b>	
<b>Holdover time (hours):</b>	
<b>Energy consumption, stable running (kWh/24 hours):</b>	2.27 kWh/24 h
<b>Energy consumption, cool down test (kWh/24 hours):</b>	2.32 kWh/24 h

<b>Gross volume:</b>	317 Litre
<b>Waterpack freezing capacity:</b>	28.2 kg/24hrs
	203 kg
<b>Waterpack storage capacity:</b>	
<b>Energy consumption during freezing:</b>	

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**Comments:**

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**Accessories:** 8 Baskets, keys, Steam Alcohol Thermometer (Optional), Instruction Manual

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**Spare parts (ref, 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.

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<b>Shipping volume:</b>	1.03 m3	<b>Shipping weight:</b>	91 kg ±5
<b>Price year</b>	2022	<b>Incoterms</b>	EXW
<b>Price</b>	1 to 99 Units - 775 USD	100 to 200 Units- 685 USD	201 or more units- 669 USD
<b>Quality standard:</b>	<b>Specification ref.</b> - ISO 9001:2008 -		
<b>Verification report:</b>	UL India Private Limited	<b>Verification laboratory:</b>	UL India Private Limited

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<b>Current PQS status:</b>	<i>pre-qualified: 07 Jul 2022</i>	<b>Validity until:</b>	<i>May, 2024</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/129</b>
<b>Type of appliance:</b>	Combined icelined refrigerator/waterpacks freezer
<b>Manufacturer's reference:</b>	TCD-100
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Aucma Global Medical Co.,Ltd.
<b>Address:</b>	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao, China
<b>Telephone:</b>	+86 532 86763602
<b>Email:</b>	<a href="mailto:lishouda@aucma.com.cn">lishouda@aucma.com.cn</a> ; <a href="mailto:info@aucma.com.cn">info@aucma.com.cn</a>
<b>Web address:</b>	<a href="http://aucmaglobal.com.cn">http://aucmaglobal.com.cn</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	#R290	<b>Energy source:</b>	
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	W1050*D750*H975 mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	48L	<b>Gross volume (Liters):</b>	38L
<b>Gross volume (Liters):</b>	59L	<b>Waterpack freezing capacity:</b>	2kg/24h
		<b>Waterpack storage capacity:</b>	10.7 kg
<b>Autonomy as per WHO/PQS protocols</b>	180 h	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<b>Comments:</b>		"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;	
<b>Accessories:</b>		"1 、 2 Vaccine boxes 2 、 2 Keys 3 、 1 Funnel 4 、 Documentation 5 、 2 baskets	
<b>Spare parts (ref, price):</b>		"3000001485 : Compressor : 283 USD 3000002307 : DC fan : 26 USD 3001000717 : Electronic control unit : 68 USD"	
<b>Shipping volume:</b>	1.62 m3	<b>Shipping weight:</b>	260 kg
<b>Price year</b>	2022	<b>Incoterms</b>	EXW
<b>Price</b>			
<b>Quality standard:</b>	- ISO 9001: 2015 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WB-21-0332	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	<i>pre-qualified: 14 Sep 2022</i>		<b>Validity until:</b> <i>May, 2024</i>

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



PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/130</b>
<b>Type of appliance:</b>	Vaccine/waterpacks freezer
<b>Manufacturer's reference:</b>	GMF 200 ECO lite
<b>Manufactured in:</b>	India
<b>Company:</b>	Godrej & Boyce MFG. Co. Ltd.
<b>Address:</b>	Plant 01, Pirojshanagar, Vikhroli West Mumbai 400 079 India
<b>Telephone:</b>	+91 22 67966201
<b>Email:</b>	<a href="mailto:medicalref@godrej.com">medicalref@godrej.com</a> ; <a href="mailto:hello@surechill.com">hello@surechill.com</a>
<b>Web address:</b>	<a href="http://www.godrejappliances/medical">http://www.godrejappliances/medical</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	
<b>Refrigerant:</b>	#R290	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	762 X 825 X 850 mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

REFRIGERATOR		FREEZER	Freeze protection: N/A
<b>Vaccine storage capacity: (Litres)</b>	153L		
<b>Gross volume (Litres):</b>		<b>Gross volume:</b>	
<b>Holdover time (hours):</b>	9hr 49min	<b>Waterpack freezing capacity:</b>	16.8kg/24hours
<b>Energy consumption, stable running (kWh/24 hours):</b>	4.13 kWh/24 h		130.8kg
		<b>Waterpack storage capacity:</b>	
<b>Energy consumption, cool down test (kWh/24 hours):</b>	4.21 kWh/24 h	<b>Energy consumption during freezing:</b>	

### Comments:

<b>Accessories:</b>	3 baskets, lock and key, Fridge Tag 2E with internal sensor, Solar Display Thermometer, Voltage Stabilizer (110V-280V)		
<b>Spare parts (ref, price):</b>	1) Compressor 2) Electronic Controller 3) Condenser 4) Fan Motor 5) Capacitor		
<b>Shipping volume:</b>	852mm(W) x 1080mm(L) x 852mm(H)	<b>Shipping weight:</b>	95Kg
<b>Price year</b>	2023	<b>Incoterms</b>	EXW
<b>Price</b>	\$1000 (1-9 units)	\$980 (10-99 units)	\$960 (100-499 units)
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>		<b>Verification laboratory:</b>	Intertek India

<b>Current PQS status:</b>	pre-qualified: 05 Oct 2022	<b>Validity until:</b>	May, 2024
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/131</b>
<b>Type of appliance:</b>	Vaccine/waterpacks freezer
<b>Manufacturer's reference:</b>	HBD265
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	0°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>		<b>Ext dimensions (HxLxD)</b>	1647 x 717 x 940 mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

REFRIGERATOR	FREEZER	Freeze protection: N/A
<b>Vaccine storage capacity:</b> 211 L (Litres)		
<b>Gross volume (Litres):</b>	<b>Gross volume:</b> 265L	
<b>Holdover time (hours):</b> 11hours 25min	<b>Waterpack freezing capacity:</b>	
<b>Energy consumption, stable running (kWh/24 hours):</b> 1.42 kWh/24 h	<b>Waterpack storage capacity:</b>	
<b>Energy consumption, cool down test (kWh/24 hours):</b>	<b>Energy consumption during freezing:</b> 1.40 kWh/24 h	

"1. Display: Solar LED Temperature Display  
2. Low power consumption"

### Comments:

**Accessories:** 1. Instructions 2. Key 3. Handle component 4. Basket 5. Alcohol thermometer

**Spare parts (ref, 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"

<b>Shipping volume:</b>	1.4cbm	<b>Shipping weight:</b>	160kg
<b>Price year</b>	2023	<b>Incoterms</b>	
<b>Price</b>			
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WB-22-0203	<b>Verification laboratory:</b>	CHEARI

**Current PQS status:** pre-qualified: 23 Mar 2023

**Validity until:** May, 2024

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



## E003:

## Refrigerators and freezers

**PQS code:** E003/132  
**Type of appliance:**  
**Manufacturer's reference:** VLS 096A RF SDD  
**Manufactured in:** Denmark  
**Company:** Vestfrost Solutions  
**Address:** A/S Vestfrost  
Falkevej 12  
DK-6705 Esbjerg Ø  
Denmark

**Telephone:** +45 7914 2555; +45 7914 2248

**Email:** [clc@vestfrostsolutions.com](mailto:clc@vestfrostsolutions.com);  
[bjn@vestfrostsolutions.com](mailto:bjn@vestfrostsolutions.com)

**Web address:** <http://vestfrostsolutions.com/>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>		<b>Ext dimensions (HxLxD)</b>	870x1510x740
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	110L	<b>Gross volume (Liters):</b>	50 L
<b>Gross volume (Liters):</b>	147L	<b>Waterpack freezing capacity:</b>	2.4 kg per/24h = 4 x 0.6 L Waterpacks per/24h
		<b>Waterpack storage capacity:</b>	28 x 0.6L
<b>Autonomy as per WHO/PQS protocols</b>	114.33 hrs	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

<b>Comments:</b>		<p>"Prices include Vestfrost Solutions SDD PV energy system, roof adjustable, plug &amp; play; Unit equipped with unique QR code, that can be used along Vestfrost Solutions Unit tracker APP, containing various installation/service features.</p> <p>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. "</p>	
<b>Accessories:</b>		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	
<b>Spare parts (ref, price):</b>		<p>"Compressor 10-45V Complete - Incl. ECU          Thermostat refrigerator Complete - Incl. Sensor          Thermostat freezer          Fan          Gasket for vaccine compartment lid          PV Thermometer"</p>	
<b>Shipping volume:</b>	1.31 M3	<b>Shipping weight:</b>	190 kg
<b>Price year</b>	2023	<b>Incoterms</b>	EXW
<b>Price</b>	6.485 EUR		
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	300-KLAB-22-106	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>	<i>pre-qualified: 16 Mar 2023</i>		<b>Validity until:</b> <i>May, 2024</i>

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





PERFORMANCE QUALITY SAFETY



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/133</b>
<b>Type of appliance:</b>	Icelined refrigerator
<b>Manufacturer's reference:</b>	I425H120
<b>Manufactured in:</b>	India
<b>Company:</b>	Western Refrigeration Private Limited
<b>Address:</b>	7/B, Pannalal Silk Mill Compound, L.B.S. Marg, Bhandup (West), Mumbai 400078. India
<b>Telephone:</b>	+91 22 - 67161200
<b>Email:</b>	<a href="mailto:paresh@westernequipments.com">paresh@westernequipments.com</a>
<b>Web address:</b>	<a href="https://www.westernequipments.com/">https://www.westernequipments.com/</a>

## Specifications

<b>Climate zone:</b>	Multi-zone	<b>Min rated ambient temp:</b>	+10°C
<b>Refrigerant:</b>	#R290	<b>Energy source:</b>	
<b>Appliance tested at:</b>		<b>Ext dimensions (HxLxD)</b>	1320mm (W) X 805mm (D) X 970mm (H)
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression

### REFRIGERATOR

### FREEZER

**Freeze protection: Grade A**

<b>Vaccine storage capacity: (Litres)</b>	192 L
<b>Gross volume (Litres):</b>	253 L
<b>Holdover time (hours):</b>	
<b>Energy consumption, stable running (kWh/24 hours):</b>	1.50 kWh/24 h
<b>Energy consumption, cool down test (kWh/24 hours):</b>	

<b>Gross volume:</b>	
<b>Waterpack freezing capacity:</b>	
<b>Waterpack storage capacity:</b>	
<b>Energy consumption during freezing:</b>	

### Comments:

<b>Accessories:</b>	keys, 30 day Temperature data logger, Voltage Stabilizer and Instruction Manual
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<b>Spare parts (ref, price):</b>	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.
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<b>Shipping volume:</b>	1.24 m3	<b>Shipping weight:</b>	135Kg ± 5
<b>Price year</b>	2023	<b>Incoterms</b>	
<b>Price</b>	1 to 99 Units - 1550 USD	100 to 200 Units - 1420 USD	
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Specification ref.</b>	
<b>Verification report:</b>	4790194057-01-OTHER-S1	<b>Verification laboratory:</b>	UL India Private Limited

<b>Current PQS status:</b>	pre-qualified: 07 Aug 2023	<b>Validity until:</b>	May, 2024
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



## E003:

### Refrigerators and freezers

<b>PQS code:</b>	<b>E003/134</b>
<b>Type of appliance:</b>	Combined icelined refrigerator/waterpacks freezer
<b>Manufacturer's reference:</b>	Emvolio Plus
<b>Manufactured in:</b>	India
<b>Company:</b>	BlackFrog Technologies Private Limited
<b>Address:</b>	D.No.3-72(E), Korgi Village, Hosmata Post, Kundapura, Karnataka, India - 576231
<b>Telephone:</b>	+918202572478
<b>Email:</b>	<a href="mailto:mayurshetty@blackfrog.in">mayurshetty@blackfrog.in</a>
<b>Web address:</b>	<a href="http://blackfrog.in/">http://blackfrog.in/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+10°C
<b>Refrigerant:</b>		<b>Energy source:</b>	Electric Mains 220-240V 50/60Hz
<b>Appliance tested at:</b>		<b>Ext dimensions (HxLxD)</b>	300mm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - absorption

### REFRIGERATOR

### FREEZER

### Freeze protection: Grade A

<b>Vaccine storage capacity: (Litres)</b>	1.55L		
<b>Gross volume (Litres):</b>	1.8L	<b>Gross volume:</b>	NA
<b>Holdover time (hours):</b>	15mins	<b>Waterpack freezing capacity:</b>	NA
<b>Energy consumption, stable running (kWh/24 hours):</b>	0.84kWh/24h		NA
		<b>Waterpack storage capacity:</b>	
<b>Energy consumption, cool down test (kWh/24 hours):</b>	0.9kWh/24hrs(from battery)	<b>Energy consumption during freezing:</b>	NA

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.) The refrigerator is a DC-powered appliance but the adaptor provided with the standard package includes an AC adaptor (100-240V). The manufacturer can provide a DC adaptor upon request at cost and provide assistance in integrating with DRE (solar) power sources.

**Comments:**

**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).
- Portable Solar charging setup.
- Portable Powerbank.
- Car charger.

**Spare parts (ref, 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

<b>Shipping volume:</b>	0.0719m3	<b>Shipping weight:</b>	11Kgs
<b>Price year</b>	2023	<b>Incoterms</b>	EXW
<b>Price</b>	USD 2500 for 1-100 units	USD 2400 for 101-500 units	USD 2250 for 500+ units
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 13485	<b>Specification ref.</b>	
	-		
<b>Verification report:</b>	CE-JOB-NDA-22-000949-001	<b>Verification laboratory:</b>	Intertek India
<b>Current PQS status:</b>	<i>pre-qualified: 26 Sep 2023</i>		<b>Validity until:</b> <i>May, 2024</i>

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

# E004

## Insulated containers

This section covers cold boxes, vaccine carriers and other insulated containers used for the transport of vaccines.

### E004.1 Choosing a cold box or vaccine carrier

Consider the following points when choosing equipment:

1. **Vaccine storage capacity:** Vaccine storage capacity is given on the individual product data sheets. The quantity and type of vaccine that needs to be transported depends upon the use to which the cold box or vaccine carrier is being put. For example:
  - *Large scale routine distribution:* In most countries, distributions from primary to sub-national store, and between sub-national stores, generally require a number of cold boxes. For this purpose it is good practice to separate OPV and the single antigen lyophilized vaccines from the freeze-sensitive and multi-valent vaccines. The former can safely be packed with frozen icepacks. The latter should preferably be packed with cool water-packs so as to eliminate the risk of freezing during transport. Freeze indicators will also be needed where the ambient temperatures may drop below 0°C.
  - *Small scale routine distribution:* A single cold box is typically used to transport vaccine from a sub-national store to a health facility. When all the vaccines have to be packed in a single cold box, cool water-packs should be used.
  - *Routine outreach:* Vaccine carrier will be packed with a mix of vaccines, and possibly supplements, appropriate to the local schedule.
  - *Campaigns:* A limited range of vaccines and/or supplements will be distributed between the primary and sub-national stores and the same limited range will be taken on outreach.
2. **Cold/warm life:** Three types of cold/warm life are given on the product data sheets.
  - Cold life with frozen icepacks.
  - Cool life with cool water-packs.
  - Warm life with warm water-packs

All three tests are carried out with the lid closed. To take account of cold box opening and transport delays, double the estimated cold/warm life requirement. For example; if a proposed activity is estimated to require a 24 hour cold life, purchase equipment that has a 48 hour cold life.
3. **Weight:** The maximum acceptable fully loaded weight depends upon how the box will be transported: by vehicle; by pack animal; by bicycle or by hand. For health and safety reasons a worker should not be asked to lift a load greater than 25 kgs and female workers may find this excessive. Larger cold boxes require two people to lift them.

4. **Durability:** Consider the conditions to which the cold box or vaccine carrier will be exposed. For example, durability is more important than weight for a box transported by vehicles over rough roads, so, it should have a good rating in the drop test. The reverse applies to hand-carried boxes where weight and carrying comfort is more important. The durability of vaccine carriers is only partly represented by the 'robustness' rating obtained during laboratory drop tests. Vaccine carriers are either constructed with a hard plastic exterior, or with a soft canvas/PVC bag around the insulated walls. Experience has shown that the soft, canvas type carriers do not last long. They are liable to tear and the catches and straps tend to break away. A warning about their short working life is included in the data sheets. Back-pack vaccine carriers are now available and these have ergonomic advantages.
5. **Foaming agent:** Products which use cyclopentane as the insulation foaming agent are environmentally preferable to products that use R141b. Vaccine carriers with inflatable liners are also available and these have no environmental impact. Products containing CFCs are no longer acceptable under PQS.
6. **Water-packs:** Before placing an order, check that water-packs are included. If they are not included, select water-packs that will fit the chosen box and order them at the same time. The product data sheets specify how many water-packs are required. Always order two sets so that one set can be frozen, or cooled, while the other set is in use.
7. **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 boxes are bulky and shipping costs can often represent a high proportion of the total delivered price. Consider both the purchase (EXW) price and the shipping cost before making a final decision. Choose a product that fulfils programme requirements at the lowest cost.

#### **E004.2 Cool water-packs and warm water-packs**

Refer to the vaccine distribution guidelines in the General information section for advice on the use of cool and warm water-packs. When used correctly, cool water-packs completely eliminate the risk of freezing freeze-sensitive vaccines. Correctly used, they do not cause a significant loss of potency due to heat exposure.

#### **E004.3 Keeping vaccines cool during immunization sessions**

Since 1997 vaccine carriers have been 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, minimum 30 mm thickness, which fits tightly inside the "neck" of the carrier on top of the icepacks, and below the lid.

The old practice of removing an icepack from the carrier and placing the reconstituted vial in the hole moulded into its surface is no longer recommended. This practice has been shown to cause a significant loss of 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 [WHO/IVB/05.23](http://www.who.int/ivb/05.23). *Guideline on the international packaging and shipping of vaccines* or use the EVM Assistant tool which can be downloaded from the EVM website at:

[http://www.who.int/immunization\\_delivery/systems\\_policy/logistics/en/index6.html](http://www.who.int/immunization_delivery/systems_policy/logistics/en/index6.html)

#### **E004.5          Future developments**

Field trials of large capacity insulated containers are underway. The vaccine storage capacity of these units is many times that of the largest current cold boxes. The units are either pallet-based or wheeled and they offer the possibility of simpler and more secure transport for large quantities of vaccine from primary to sub-national level.

There is an increasing need for larger capacity products at this point in the supply chain now that vaccine volumes are increasing dramatically. If the trials are successful, WHO will develop a suitable PQS specification.

**E004 data sheets follow**



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/002</b>
<b>Description:</b>	Vaccine carrier Long range
<b>Manufacturer's reference:</b>	RCW 4
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsystems.com">info@bmedicalsystems.com</a> , <a href="mailto:Gilles.Ries@bmedicalsystems.com">Gilles.Ries@bmedicalsystems.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsystems.com">Admilson.Pinto@bmedicalsystems.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsystems.com">www.bmedicalsystems.com</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	21,1 x 10,9 x 15,7	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	3	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	7,3	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	3,1	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	36,2 x 28,3 x 29,9	<b>Insulation thickness:</b>	23 - 27 mm
<b>Internal dimensions: (LxWxH cm)</b>	26 x 15,6 x 18,6	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	30,3 hours	<b>Model coolant-pack</b>	6 x 0,3 l + 1 x 0,6 l
<b>Warm life at -20°C:</b>	12,9 hours	<b>Number coolantpacks required:</b>	7 units
<b>Cool life at +43°C:</b>	6,7 hours	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2019
<b>Weight per carton (kg):</b>	4,2	<b>Prices:</b>	>100 or more units: 246 €
<b>Volume per carton (m3):</b>	0,036 m3		
<b>Test report reference:</b>	A65524a	<b>Laboratory:</b>	
<b>Quality standard:</b>	-ISO 9001:2008-ISO 13485-Other-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 22 Mar 2010</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/003</b>
<b>Description:</b>	Cold box      Short range
<b>Manufacturer's reference:</b>	RCW 8
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsyste.ms.com">info@bmedicalsyste.ms.com</a> , <a href="mailto:Gilles.Ries@bmedicalsyste.ms.com">Gilles.Ries@bmedicalsyste.ms.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsyste.ms.com">Admilson.Pinto@bmedicalsyste.ms.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsyste.ms.com">www.bmedicalsyste.ms.com</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	32,6 x 10,7 x 20,2	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	6	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	16,4	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	6,8	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	58,8 x 28,8 x 43,7	<b>Insulation thickness:</b>	50 - 60 mm
<b>Internal dimensions: (LxWxH cm)</b>	46 x 18 x 24,5	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	57,9 hours	<b>Model coolant-pack</b>	10 x 0,6 l + 2 x 0,3 l
<b>Warm life at -20°C:</b>	21,6 hours	<b>Number coolantpacks required:</b>	12 units
<b>Cool life at +43°C:</b>	12 hours	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2018
<b>Weight per carton (kg):</b>	11	<b>Prices:</b>	>100 or more units: 280 €
<b>Volume per carton (m3):</b>	0,089		
<b>Test report reference:</b>	A65524b	<b>Laboratory:</b>	
<b>Quality standard:</b>	-ISO 9001:2008-ISO 13485-Other-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 22 Mar 2010</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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





## E004: Insulated containers

<b>PQS code:</b>	<b>E004/004</b>
<b>Description:</b>	Cold box Long range
<b>Manufacturer's reference:</b>	RCW 12
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsystems.com">info@bmedicalsystems.com</a> , <a href="mailto:Gilles.Ries@bmedicalsystems.com">Gilles.Ries@bmedicalsystems.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsystems.com">Admilson.Pinto@bmedicalsystems.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsystems.com">www.bmedicalsystems.com</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	25,1 x 17,6 x 20,9	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	7	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	23,3	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	11,7	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	55 x 47,5 x 49,9	<b>Insulation thickness:</b>	90 - 105 mm
<b>Internal dimensions: (LxWxH cm)</b>	34 x 26 x 27	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	114,9 hours	<b>Model coolant-pack</b>	0,6 L
<b>Warm life at -20°C:</b>	40,9 hours	<b>Number coolantpacks required:</b>	14 units
<b>Cool life at +43°C:</b>	26,4 hours	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2018
<b>Weight per carton (kg):</b>	17 kg	<b>Prices:</b>	>100 units: 539 €
<b>Volume per carton (m3):</b>	0,148		
<b>Test report reference:</b>	A65524c	<b>Laboratory:</b>	
<b>Quality standard:</b>	-ISO 9001:2008-ISO 13485-Other-		
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified; 22 Mar 2010	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/005</b>
<b>Description:</b>	Cold box Long range
<b>Manufacturer's reference:</b>	RCW 25
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsyste.ms.com">info@bmedicalsyste.ms.com</a> , <a href="mailto:Gilles.Ries@bmedicalsyste.ms.com">Gilles.Ries@bmedicalsyste.ms.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsyste.ms.com">Admilson.Pinto@bmedicalsyste.ms.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsyste.ms.com">www.bmedicalsyste.ms.com</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	40,6 x 25,2 x 20,2	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	20	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	38,9	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	15,9	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	71 x 55 x 49,9	<b>Insulation thickness:</b>	90 - 105 mm
<b>Internal dimensions: (LxWxH cm)</b>	49,6 x 33,4 x 26,4	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	134,6 hours	<b>Model coolant-pack</b>	0.6 L
<b>Warm life at -20°C:</b>	49,5 hours	<b>Number coolantpacks required:</b>	24 units
<b>Cool life at +43°C:</b>	34,4 hours	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2019
<b>Weight per carton (kg):</b>	23	<b>Prices:</b>	>100 or more units: 703 €
<b>Volume per carton (m3):</b>	0.221		
<b>Test report reference:</b>	A65524d	<b>Laboratory:</b>	
<b>Quality standard:</b>	-ISO 9001:2008-ISO 13485-Other-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 22 Mar 2010</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/007</b>
<b>Description:</b>	Vaccine carrier Short range
<b>Manufacturer's reference:</b>	ADVC 24
<b>Manufactured in:</b>	India
<b>Company:</b>	AOV International LLP
<b>Address:</b>	C-22/25, Sector 57, Noida 201301 [U.P.], India
<b>Telephone:</b>	+91 80102 66834, +91 120 4692934
<b>Email:</b>	<a href="mailto:rohit.raman@aovinternational.net">rohit.raman@aovinternational.net</a> , <a href="mailto:sales@aovinternational.net">sales@aovinternational.net</a>
<b>Web address:</b>	<a href="http://www.aovinternational.net">www.aovinternational.net</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	17.3 x 10.3 x 4.5 cm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	0.8 Litre	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	2.18 kg	<b>Internal lining material:</b>	Polystyrene
<b>Weight empty (Kg):</b>	1.34 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxWxH cm)</b>	25 x 18 x 21 cm	<b>Insulation thickness:</b>	32-36 mm
<b>Internal dimensions: (LxWxH cm)</b>	17.3 x 10.3 x 12.1 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	20 hours 16 mn	<b>Model coolant-pack</b>	0.4 L
<b>Warm life at -20°C:</b>	7 hours 55 mn	<b>Number coolantpacks required:</b>	2 units
<b>Cool life at +43°C:</b>	3 hours 53 mn	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	12 units	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	12 units	<b>Price base year:</b>	2014
<b>Weight per carton (kg):</b>	21 kg	<b>Prices:</b>	7.5 USD per unit
<b>Volume per carton (m3):</b>	0.15 m3		
<b>Test report reference:</b>	S09EEC01924/AT/JT	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 26 Apr 2010</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/008</b>
<b>Description:</b>	Vaccine carrier Long range
<b>Manufacturer's reference:</b>	AVC 44
<b>Manufactured in:</b>	India
<b>Company:</b>	AOV International LLP
<b>Address:</b>	C-22/25, Sector 57, Nolda 201301 [U.P.], India
<b>Telephone:</b>	+91 80102 66834, +91 120 4692934
<b>Email:</b>	<a href="mailto:rohit.raman@aovinternational.net">rohit.raman@aovinternational.net</a> , <a href="mailto:sales@aovinternational.net">sales@aovinternational.net</a>
<b>Web address:</b>	<a href="http://www.aovinternational.net">www.aovinternational.net</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	9.0 x 9.1 x 16.5 cm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	1.35 Litre	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	4.36 kg	<b>Internal lining material:</b>	Polystyrene
<b>Weight empty (Kg):</b>	2.22 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW x H cm)</b>	24.0 x 24.0 x 30.0 cm	<b>Insulation thickness:</b>	35-40 mm
<b>Internal dimensions: (LxWxH cm)</b>	9.90 x 9.90 x 16.50 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	40 hours 02 mn	<b>Model coolant-pack</b>	0.4 L
<b>Warm life at -20°C:</b>	15 hours 52 mn	<b>Number coolantpacks required:</b>	4 units
<b>Cool life at +43°C:</b>	07 hours 48 mn	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	8 units	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	8 units	<b>Price base year:</b>	2018
<b>Weight per carton (kg):</b>	21 kg	<b>Prices:</b>	11.50 USD per unit
<b>Volume per carton (m3):</b>	0.18 m3		
<b>Test report reference:</b>	S09EEC01925/AT/JT	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 26 Apr 2010</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/009</b>
<b>Description:</b>	Vaccine carrier Long range
<b>Manufacturer's reference:</b>	AVC 46
<b>Manufactured in:</b>	India
<b>Company:</b>	AOV International LLP
<b>Address:</b>	C-22/25, Sector 57, Nolda 201301 [U.P.], India
<b>Telephone:</b>	+91 80102 66834, +91 120 4692934
<b>Email:</b>	<a href="mailto:rohit.raman@aovinternational.net">rohit.raman@aovinternational.net</a> , <a href="mailto:sales@aovinternational.net">sales@aovinternational.net</a>
<b>Web address:</b>	<a href="http://www.aovinternational.net">www.aovinternational.net</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	11.38 x 11.38 x 19.0 cm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	2.5 Litres	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	6.36 kg	<b>Internal lining material:</b>	Polystyrene
<b>Weight empty (Kg):</b>	2.98 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxWxH cm)</b>	27.0 x 27.0 x 32.0 cm	<b>Insulation thickness:</b>	32-35 mm
<b>Internal dimensions: (LxWxH cm)</b>	12.2 x 12.2 x 19.0 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	50 hours 12 mn	<b>Model coolant-pack</b>	0.6 L
<b>Warm life at -20°C:</b>	15 hours 57 mn	<b>Number coolantpacks required:</b>	4 units
<b>Cool life at +43°C:</b>	09 hours 47 mn	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	4 units	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	4 units	<b>Price base year:</b>	2016
<b>Weight per carton (kg):</b>	14 kg	<b>Prices:</b>	12.00 USD
<b>Volume per carton (m3):</b>	0.11 m3		
<b>Test report reference:</b>	719164356EEC09/KGT	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 26 Apr 2010</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



## **E004:** Insulated containers

**PQS code:** E004/010

**Description:** Cold box Long range

**Manufacturer's reference:** AICB 444 L

**Manufactured in:** India

**Company:** Apex International

**Address:** New Office Add : B-277, Sector- 50, Noida, New Delhi, INDIA  
Mob: +91-9810047640; +91-9811037640  
Tel. # : +91-120-2574851, +91-120-2502754, +91-120-4231851  
Fax # : +91-120-2500347  
E-mail: [mail@apexint.org](mailto:mail@apexint.org)  
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G47, Sector 39  
Noida 201301  
India

*Telephone:* +91-120-2574851

*Email:* [mail@apexint.org](mailto:mail@apexint.org), [export@apexint.org](mailto:export@apexint.org)

*Web address:* <http://www.apex-international.org/>

# Specifications

<b>Vaccine storage dimensions (cm):</b>	44.8 x 30.0 x 16.7 cm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	18 Litres	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	48.87 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	19.93 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	76.1 x 61.1 x 51.3 cm	<b>Insulation thickness:</b>	100 mm
<b>Internal dimensions: (LxWxH cm)</b>	52.0 x 37.0 x 28.2 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	140 hours	<b>Model coolant-pack</b>	0.4 L
<b>Warm life at -20°C:</b>	51 hours	<b>Number coolantpacks required:</b>	44 units
<b>Cool life at +43°C:</b>	25 hours	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	10 units	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2016
<b>Weight per carton (kg):</b>	50 kg	<b>Prices:</b>	10 or more units: 122 USD
<b>Volume per carton (m3):</b>	0.24 m3		
<b>Test report reference:</b>	719171845/EEC10	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 03 May 2010</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased			



## **E004:** Insulated containers

**PQS code:** E004/011

**Description:** Vaccine carrier Short range

**Manufacturer's reference:** AIDVC 24

**Manufactured in:** India

**Company:** Apex International

**Address:** New Office Add : B-277, Sector- 50, Noida, New Delhi, INDIA  
Mob: +91-9810047640; +91-9811037640  
Tel. # : +91-120-2574851, +91-120-2502754, +91-120-4231851  
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E-mail: [mail@apexint.org](mailto:mail@apexint.org)  
Web: <http://www.apex-international.org>

G47, Sector 39  
Noida 201301  
India

**Telephone:** +91-120-2574851

**Email:** [mail@apexint.org](mailto:mail@apexint.org), [export@apexint.org](mailto:export@apexint.org)

**Web address:** <http://www.apex-international.org/>



## Specifications

<b>Vaccine storage dimensions (cm):</b>	16.5 x 10.0 x 5.0 cm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	0.9 Litre	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	2.27 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	1.31 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	25.0 x 18.0 x 21.4 cm	<b>Insulation thickness:</b>	32 mm
<b>Internal dimensions: (LxWxH cm)</b>	16.5 x 10.0 x 12.0 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	21 hours 30 mn	<b>Model coolant-pack</b>	0.4 L
<b>Warm life at -20°C:</b>	8 hours	<b>Number coolantpacks required:</b>	2 units
<b>Cool life at +43°C:</b>	4 hours 30 mn	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	24 units	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	12 units	<b>Price base year:</b>	2016
<b>Weight per carton (kg):</b>	30 kg	<b>Prices:</b>	7.50 US\$
<b>Volume per carton (m3):</b>	0.12 m3		
<b>Test report reference:</b>	719164808-EEC09/01	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 03 May 2010</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased			



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/013</b>
<b>Description:</b>	Cold box Long range
<b>Manufacturer's reference:</b>	RCB 444 L
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	45.0 x 30.0 x 17.0 cm	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	23 Litres	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	38 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	17 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW x H cm)</b>	77.4 x 61.6 x 53.0 cm	<b>Insulation thickness:</b>	111 mm
<b>Internal dimensions: (LxWxH cm)</b>	52.8 x 38.2 x 28.2 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	130 hours 08 mn	<b>Model coolant-pack</b>	0.4 L
<b>Warm life at -20°C:</b>	20 hours 25 mn	<b>Number coolantpacks required:</b>	44 units
<b>Cool life at +43°C:</b>	26 hours 57 mn	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2014
<b>Weight per carton (kg):</b>	23.60	<b>Prices:</b>	1 or more units: 130 USD
<b>Volume per carton (m3):</b>	0.26 m3		
<b>Test report reference:</b>	WHO 10-001	<b>Laboratory:</b>	CEMAFROID SAS
<b>Quality standard:</b>	-ISO 9001:2008-Other-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 11 May 2010</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/015</b>
<b>Description:</b>	Cold box Long range
<b>Manufacturer's reference:</b>	ACB 503 L
<b>Manufactured in:</b>	India
<b>Company:</b>	AOV International LLP
<b>Address:</b>	C-22/25, Sector 57, Nolda 201301 [U.P.], India
<b>Telephone:</b>	+91 80102 66834, +91 120 4692934
<b>Email:</b>	<a href="mailto:rohit.raman@aovinternational.net">rohit.raman@aovinternational.net</a> , <a href="mailto:sales@aovinternational.net">sales@aovinternational.net</a>
<b>Web address:</b>	<a href="http://www.aovinternational.net">www.aovinternational.net</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	45.5 x 30.5 x 16.0 cm	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	18 Litres	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	45.86 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	21.78 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxWxH cm)</b>	77.0 x 61.0 x 51.0 cm	<b>Insulation thickness:</b>	100 mm
<b>Internal dimensions: (LxWxH cm)</b>	53.0 x 37.5 x 30.5 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	126 hours 32 mn	<b>Model coolant-pack</b>	0.3 L
<b>Warm life at -20°C:</b>	44 hours 48 mn	<b>Number coolantpacks required:</b>	50 units
<b>Cool life at +43°C:</b>	28 hours 05 mn	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2014
<b>Weight per carton (kg):</b>	25.5 kg	<b>Prices:</b>	115 USD per unit
<b>Volume per carton (m3):</b>	0.27 m3		
<b>Test report reference:</b>	719154910-EEC09	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 13 May 2010</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



PERFORMANCE QUALITY SAFETY



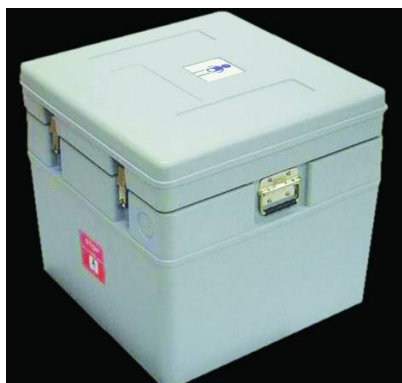
## E004: Insulated containers

<b>PQS code:</b>	<b>E004/017</b>
<b>Description:</b>	Cold box Short range
<b>Manufacturer's reference:</b>	ACB 246 LS
<b>Manufactured in:</b>	India
<b>Company:</b>	AOV International LLP
<b>Address:</b>	C-22/25, Sector 57, Nolda 201301 [U.P.], India
<b>Telephone:</b>	+91 80102 66834, +91 120 4692934
<b>Email:</b>	<a href="mailto:rohit.raman@aovinternational.net">rohit.raman@aovinternational.net</a> , <a href="mailto:sales@aovinternational.net">sales@aovinternational.net</a>
<b>Web address:</b>	<a href="http://www.aovinternational.net">www.aovinternational.net</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	39.9 x 39.6 x 14.5 cm	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	16 Litres	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	35 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	14.50 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxWxH cm)</b>	64.5 x 64.0 x 35.0 cm	<b>Insulation thickness:</b>	65 mm
<b>Internal dimensions: (LxWxH cm)</b>	48.0 x 47.9 x 22.6 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	93 hours 33 mn	<b>Model coolant-pack</b>	0.6 L
<b>Warm life at -20°C:</b>	31 hours 22 mn	<b>Number coolantpacks required:</b>	24 units
<b>Cool life at +43°C:</b>	20 hours 42 mn	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2018
<b>Weight per carton (kg):</b>	18 kg	<b>Prices:</b>	90 USD per unit
<b>Volume per carton (m3):</b>	0.17 m3		
<b>Test report reference:</b>	719154909-EEC09	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 08 Jul 2010</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



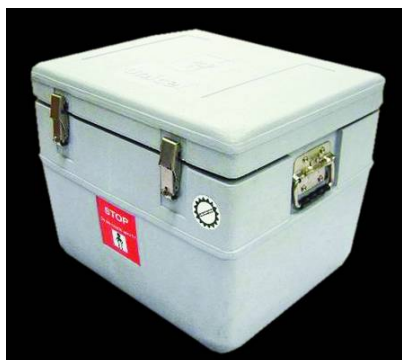
## E004: Insulated containers

<b>PQS code:</b>	<b>E004/018</b>
<b>Description:</b>	Cold box Long range
<b>Manufacturer's reference:</b>	CB-12-CF
<b>Manufactured in:</b>	India
<b>Company:</b>	Blowkings
<b>Address:</b>	53-C Mittal Court Nariman Point Mumbai 400021 India
<b>Telephone:</b>	+91-(0)22-22840120
<b>Email:</b>	<a href="mailto:sales@blowkings.co.in">sales@blowkings.co.in</a>
<b>Web address:</b>	<a href="http://www.blowkings.co.in/">http://www.blowkings.co.in/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	30 x 22 x 21 cm	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	12 Litres	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	45 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	20.4 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	61 x 60 x 56 cm	<b>Insulation thickness:</b>	110 mm
<b>Internal dimensions: (LxWxH cm)</b>	34 x 33 x 34.8 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	156 hours	<b>Model coolant-pack</b>	0.4 L
<b>Warm life at -20°C:</b>	53 hours	<b>Number coolantpacks required:</b>	42 units
<b>Cool life at +43°C:</b>	33 hours	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2016
<b>Weight per carton (kg):</b>	25 kg	<b>Prices:</b>	120 USD per unit
<b>Volume per carton (m3):</b>	0.22 m3		
<b>Test report reference:</b>	719169974-EEC10	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified; 02 Sep 2010	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/019</b>	
<b>Description:</b>	Cold box	Short range
<b>Manufacturer's reference:</b>	CB-55-CF	
<b>Manufactured in:</b>	India	
<b>Company:</b>	Blowkings	
<b>Address:</b>	53-C Mittal Court Nariman Point Mumbai 400021 India	
<b>Telephone:</b>	+91-(0)22-22840120	
<b>Email:</b>	<a href="mailto:sales@blowkings.co.in">sales@blowkings.co.in</a>	
<b>Web address:</b>	<a href="http://www.blowkings.co.in/">http://www.blowkings.co.in/</a>	

## Specifications

<b>Vaccine storage dimensions (cm):</b>	28 x 21 x 16.5 cm	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	7 Litres	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	23 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	8.7 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	49 x 44 x 39.5 cm	<b>Insulation thickness:</b>	55 mm
<b>Internal dimensions: (LxWxH cm)</b>	35 x 28.5 x 27 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	89 hours	<b>Model coolant-pack</b>	0.4 L
<b>Warm life at -20°C:</b>	31 hours	<b>Number coolantpacks required:</b>	24 units
<b>Cool life at +43°C:</b>	20 hours	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2014
<b>Weight per carton (kg):</b>	12 kg	<b>Prices:</b>	100 USD per unit
<b>Volume per carton (m3):</b>	0.09 m3		
<b>Test report reference:</b>	719164472EEC09	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 02 Sep 2010</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/020</b>
<b>Description:</b>	Vaccine carrier Long range
<b>Manufacturer's reference:</b>	BK - VC 2.6 - CF
<b>Manufactured in:</b>	India
<b>Company:</b>	Blowkings
<b>Address:</b>	53-C Mittal Court Nariman Point Mumbai 400021 India
<b>Telephone:</b>	+91-(0)22-22840120
<b>Email:</b>	<a href="mailto:sales@blowkings.co.in">sales@blowkings.co.in</a>
<b>Web address:</b>	<a href="http://www.blowkings.co.in/">http://www.blowkings.co.in/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	11.5 x 11.5 x 19.5 cm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	2.6 Litres	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	4.5 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	1.9 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	26 x 26 x 32 cm	<b>Insulation thickness:</b>	40 mm
<b>Internal dimensions: (LxWxH cm)</b>	19 x 19 x 22.5 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	43 hours	<b>Model coolant-pack</b>	0.6 L
<b>Warm life at -20°C:</b>	18 hours	<b>Number coolantpacks required:</b>	4 units
<b>Cool life at +43°C:</b>	7 hours	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	8 units	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	4 units	<b>Price base year:</b>	2014
<b>Weight per carton (kg):</b>	12 kg	<b>Prices:</b>	8 or more units: 16.00 US\$
<b>Volume per carton (m3):</b>	0.11 m3		
<b>Test report reference:</b>	S08EEC01362/AT/JT	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 02 Sep 2010</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/021</b>
<b>Description:</b>	Vaccine carrier Long range
<b>Manufacturer's reference:</b>	BK - VC 1.7 - CF
<b>Manufactured in:</b>	India
<b>Company:</b>	Blowkings
<b>Address:</b>	53-C Mittal Court Nariman Point Mumbai 400021 India
<b>Telephone:</b>	+91-(0)22-22840120
<b>Email:</b>	<a href="mailto:sales@blowkings.co.in">sales@blowkings.co.in</a>
<b>Web address:</b>	<a href="http://www.blowkings.co.in/">http://www.blowkings.co.in/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	10 x 10 x 17 cm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	1.7 Litre	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	4 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	1.6 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW x H cm)</b>	26 x 25 x 28.5 cm	<b>Insulation thickness:</b>	40 mm
<b>Internal dimensions: (LxWxH cm)</b>	17 x 17 x 18.5 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	38 hours	<b>Model coolant-pack</b>	0.4 L
<b>Warm life at -20°C:</b>	13 hours	<b>Number coolantpacks required:</b>	4 units
<b>Cool life at +43°C:</b>	6 hours	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	8 units	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	8 units	<b>Price base year:</b>	2016
<b>Weight per carton (kg):</b>	20 kg	<b>Prices:</b>	8 or more units: 14 USD
<b>Volume per carton (m3):</b>	0.17 m3		
<b>Test report reference:</b>	719171438EEC10	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 02 Sep 2010</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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





## E004: Insulated containers

<b>PQS code:</b>	<b>E004/022</b>
<b>Description:</b>	Vaccine carrier Short range
<b>Manufacturer's reference:</b>	VDC-24-CF
<b>Manufactured in:</b>	India
<b>Company:</b>	Blowkings
<b>Address:</b>	53-C Mittal Court Nariman Point Mumbai 400021 India
<b>Telephone:</b>	+91-(0)22-22840120
<b>Email:</b>	<a href="mailto:sales@blowkings.co.in">sales@blowkings.co.in</a>
<b>Web address:</b>	<a href="http://www.blowkings.co.in/">http://www.blowkings.co.in/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	6 x 10 x 16.5 cm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	0.9 Litre	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	2.2 kg	<b>Internal lining material:</b>	Polypropylene
<b>Weight empty (Kg):</b>	1 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW x H cm)</b>	22.5 x 16 x 25 cm	<b>Insulation thickness:</b>	28 mm
<b>Internal dimensions: (LxWxH cm)</b>	13 x 10 x 16.5 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	20 hours	<b>Model coolant-pack</b>	0.4 L
<b>Warm life at -20°C:</b>	6 hours	<b>Number coolantpacks required:</b>	2 units
<b>Cool life at +43°C:</b>	3 hours	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	12 units	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	12 units	<b>Price base year:</b>	2014
<b>Weight per carton (kg):</b>	12 kg	<b>Prices:</b>	9.00 USD per unit
<b>Volume per carton (m3):</b>	0.12 m3		
<b>Test report reference:</b>	719169972-EEC10/01	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified; 02 Sep 2010	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/023</b>
<b>Description:</b>	Cold box Long range
<b>Manufacturer's reference:</b>	ACB 264 SL
<b>Manufactured in:</b>	India
<b>Company:</b>	AOV International LLP
<b>Address:</b>	C-22/25, Sector 57, Nolda 201301 [U.P.], India
<b>Telephone:</b>	+91 80102 66834, +91 120 4692934
<b>Email:</b>	<a href="mailto:rohit.raman@aovinternational.net">rohit.raman@aovinternational.net</a> , <a href="mailto:sales@aovinternational.net">sales@aovinternational.net</a>
<b>Web address:</b>	<a href="http://www.aovinternational.net">www.aovinternational.net</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	33.00 x 21.20 x 16.60 cm	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	6 Litres	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	25.4 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	12.82 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxWxH cm)</b>	62.40 x 50.20 x 42.60 cm	<b>Insulation thickness:</b>	100 mm
<b>Internal dimensions: (LxWxH cm)</b>	40.30 x 28.20 x 21.10 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	132 hours 18 mn	<b>Model coolant-pack</b>	0.4 L
<b>Warm life at -20°C:</b>	48 hours 41 mn	<b>Number coolantpacks required:</b>	26 units
<b>Cool life at +43°C:</b>	29 hours 47 mn	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2016
<b>Weight per carton (kg):</b>	16 kg	<b>Prices:</b>	85 USD per unit
<b>Volume per carton (m3):</b>	0.16 m3		
<b>Test report reference:</b>	719154908-EEC09 TUV SUD	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 13 Sep 2010</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/024</b>
<b>Description:</b>	Cold box Long range
<b>Manufacturer's reference:</b>	ACB 316 L
<b>Manufactured in:</b>	India
<b>Company:</b>	AOV International LLP
<b>Address:</b>	C-22/25, Sector 57, Nolda 201301 [U.P.], India
<b>Telephone:</b>	+91 80102 66834, +91 120 4692934
<b>Email:</b>	<a href="mailto:rohit.raman@aovinternational.net">rohit.raman@aovinternational.net</a> , <a href="mailto:sales@aovinternational.net">sales@aovinternational.net</a>
<b>Web address:</b>	<a href="http://www.aovinternational.net">www.aovinternational.net</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	44.20 x 29.30 x 18.30 cm	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	18 Litres	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	47.86 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	20.78 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	77.00 x 61.80 x 51.30 cm	<b>Insulation thickness:</b>	100 mm
<b>Internal dimensions: (LxWxH cm)</b>	52.90 x 37.50 x 30.00 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	145 hours 51 mn	<b>Model coolant-pack</b>	0.6 L
<b>Warm life at -20°C:</b>	57 hours 42 mn	<b>Number coolantpacks required:</b>	31 units
<b>Cool life at +43°C:</b>	34 hours 35 mn	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>		<b>Price base year:</b>	
<b>Weight per carton (kg):</b>	25 kg	<b>Prices:</b>	115 USD per unit
<b>Volume per carton (m3):</b>			
<b>Test report reference:</b>		<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified;</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/025</b>
<b>Description:</b>	Cold box Long range
<b>Manufacturer's reference:</b>	CB-20-CF
<b>Manufactured in:</b>	India
<b>Company:</b>	Blowkings
<b>Address:</b>	53-C Mittal Court Nariman Point Mumbai 400021 India
<b>Telephone:</b>	+91-(0)22-22840120
<b>Email:</b>	<a href="mailto:sales@blowkings.co.in">sales@blowkings.co.in</a>
<b>Web address:</b>	<a href="http://www.blowkings.co.in/">http://www.blowkings.co.in/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	53.0 x 23.0 x 20.0 cm	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	20 Litres	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	49.5 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	22 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW x H cm)</b>	79.5 x 56.2 x 56.5 cm	<b>Insulation thickness:</b>	110 mm
<b>Internal dimensions: (LxW x H cm)</b>	53.0 x 30.0 x 32.0 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	138 hours	<b>Model coolant-pack</b>	0.4 L
<b>Warm life at -20°C:</b>	46 hours	<b>Number coolantpacks required:</b>	39 units
<b>Cool life at +43°C:</b>	31 hours	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2014
<b>Weight per carton (kg):</b>	27 kg	<b>Prices:</b>	160 USD per unit
<b>Volume per carton (m3):</b>	0.26 m3		
<b>Test report reference:</b>	719184761-EEC10	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 28 Sep 2010</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/026</b>
<b>Description:</b>	Cold box Short range
<b>Manufacturer's reference:</b>	RCB 246 LS
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	40.00 x 40.00 x 11.00 cm	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	16 Litres	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	34.8 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	12.1 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	65.00 x 65.00 x 37.00 cm	<b>Insulation thickness:</b>	65 to 115 mm
<b>Internal dimensions: (LxWxH cm)</b>	48.00 x 48.00 x 21.00 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	73 hours 32 mn	<b>Model coolant-pack</b>	0.6 L
<b>Warm life at -20°C:</b>	19 hours 26 mn	<b>Number coolantpacks required:</b>	24 units
<b>Cool life at +43°C:</b>	26 hours 06 mn	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2014
<b>Weight per carton (kg):</b>	16	<b>Prices:</b>	1 or more units: 100 US\$
<b>Volume per carton (m3):</b>	0.16 m3		
<b>Test report reference:</b>	WHO 10-011	<b>Laboratory:</b>	CEMAFROID SAS
<b>Quality standard:</b>	-ISO 9001:2008-Other-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 01 Oct 2010</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/027</b>
<b>Description:</b>	Cold box      Short range
<b>Manufacturer's reference:</b>	RCB 324 SS
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	41.00 x 41.00 x 9.00	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	15 Litres	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	33.85 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	12.2 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW x H cm)</b>	65.00 x 65.00 x 37.00 cm	<b>Insulation thickness:</b>	65 to 115 mm
<b>Internal dimensions: (LxWxH cm)</b>	48.00 x 48.00 x 20.00 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	53 hours 36 mn	<b>Model coolant-pack</b>	0.4 L
<b>Warm life at -20°C:</b>	16 hours 23 mn	<b>Number coolantpacks required:</b>	32 units
<b>Cool life at +43°C:</b>	21 hours 03 mn	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2014
<b>Weight per carton (kg):</b>	16	<b>Prices:</b>	1 or more units: 100 US\$
<b>Volume per carton (m3):</b>	0.16 m3		
<b>Test report reference:</b>	WHO 10-009	<b>Laboratory:</b>	CEMAFROID SAS
<b>Quality standard:</b>	-ISO 9001:2008-Other-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 01 Oct 2010</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A		<b>Date field validation:</b>

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/028</b>
<b>Description:</b>	Vaccine carrier Short range
<b>Manufacturer's reference:</b>	BBVC 23
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	17.4 x 10.5 x 5.0 cm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	0.9 Litre	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	2.4 kg	<b>Internal lining material:</b>	Polystyrene
<b>Weight empty (Kg):</b>	1.3 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW x H cm)</b>	24.6 x 18.0 x 21.5 cm	<b>Insulation thickness:</b>	35 to 45 mm
<b>Internal dimensions: (LxWxH cm)</b>	17.4 x 10.5 x 12.0 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	17 hours 50 mn	<b>Model coolant-pack</b>	0.3 L
<b>Warm life at -20°C:</b>	4 hours 26 mn	<b>Number coolantpacks required:</b>	2 units
<b>Cool life at +43°C:</b>	4 hours 32 mn	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2014
<b>Weight per carton (kg):</b>	1.74 kg	<b>Prices:</b>	1 or more units: 8.7 US\$
<b>Volume per carton (m3):</b>	0.01 m3		
<b>Test report reference:</b>	WHO 10-007	<b>Laboratory:</b>	CEMAFROID SAS
<b>Quality standard:</b>	-ISO 9001:2008-Other-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 13 Oct 2010</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/029</b>
<b>Description:</b>	Vaccine carrier Long range
<b>Manufacturer's reference:</b>	BCVC 43
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	9.5 x 9.5 x 17.0 cm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	1.5 Litre	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	4.9 kg	<b>Internal lining material:</b>	Polystyrene
<b>Weight empty (Kg):</b>	2.6 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW x H cm)</b>	28.0 x 28.0 x 31.5 cm	<b>Insulation thickness:</b>	45 to 105 mm
<b>Internal dimensions: (LxWxH cm)</b>	16.5 x 16.5 x 20.0 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	41 hours 2 mn	<b>Model coolant-pack</b>	0.3 L
<b>Warm life at -20°C:</b>	15 hours 43 mn	<b>Number coolantpacks required:</b>	4 units
<b>Cool life at +43°C:</b>	9 hours 30 mn	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2014
<b>Weight per carton (kg):</b>	3 kg	<b>Prices:</b>	1 or more units: 12.7 US\$
<b>Volume per carton (m3):</b>	0.02 m3		
<b>Test report reference:</b>	WHO 10-008	<b>Laboratory:</b>	CEMAFROID SAS
<b>Quality standard:</b>	-ISO 9001:2008-Other-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 13 Oct 2010</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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





## **E004:** Insulated containers

**PQS code:** E004/030

**Description:** Cold box Short range

**Manufacturer's reference:** AICB 243 S

**Manufactured in:** India

**Company:** Apex International

**Address:** New Office Add : B-277, Sector- 50, Noida, New Delhi, INDIA  
Mob: +91-9810047640;+91-9811037640  
Tel. # : +91-120-2574851, +91-120-2502754, +91-120-4231851  
Fax # : +91-120-2500347  
E-mail: [mail@apexint.org](mailto:mail@apexint.org)  
Web: <http://www.apex-international.org>

G47, Sector 39  
Noida 201301  
India

*Telephone:* +91-120-2574851

*Email:* [mail@apexint.org](mailto:mail@apexint.org), [export@apexint.org](mailto:export@apexint.org)

*Web address:* <http://www.apex-international.org/>

# Specifications

<b>Vaccine storage dimensions (cm):</b>	27.0 x 20.4 x 15.0 cm	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	8 Litres	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	22.41 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	11.57 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	54.4 x 44.5 x 42.0 cm	<b>Insulation thickness:</b>	65 mm
<b>Internal dimensions: (LxWxH cm)</b>	34.6 x 28.0 x 24.0 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	84 hours 7 mn	<b>Model coolant-pack</b>	0.3 L
<b>Warm life at -20°C:</b>	27 hours 51 mn	<b>Number coolantpacks required:</b>	24 units
<b>Cool life at +43°C:</b>	17 hours 1 mn	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	10 units	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2014
<b>Weight per carton (kg):</b>	23 kg	<b>Prices:</b>	10 or more units: 130 US\$
<b>Volume per carton (m3):</b>	0.101 m3		
<b>Test report reference:</b>	719184756-EEC10	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 27 Oct 2010</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased			



## **E004:** Insulated containers

**PQS code:** E004/031

**Description:** Cold box Long range

**Manufacturer's reference:** AICB 503 L

**Manufactured in:** India

**Company:** Apex International

**Address:** New Office Add : B-277, Sector- 50, Noida, New Delhi, INDIA  
Mob: +91-9810047640;+91-9811037640  
Tel. # : +91-120-2574851, +91-120-2502754, +91-120-4231851  
Fax # : +91-120-2500347  
E-mail: [mail@apexint.org](mailto:mail@apexint.org)  
Web: <http://www.apex-international.org>

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Noida 201301  
India

*Telephone:* +91-120-2574851

*Email:* [mail@apexint.org](mailto:mail@apexint.org), [export@apexint.org](mailto:export@apexint.org)

*Web address:* <http://www.apex-international.org/>

# Specifications

<b>Vaccine storage dimensions (cm):</b>	45.5 x 31.0 x 16.0 cm	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	22.5 Litres	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	48.02 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	19.73 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	76.5 x 61.2 x 51.5 cm	<b>Insulation thickness:</b>	100 mm
<b>Internal dimensions: (LxWxH cm)</b>	51.8 x 37.0 x 27.7 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	128 hours 16 mn	<b>Model coolant-pack</b>	0.3 L
<b>Warm life at -20°C:</b>	50 hours 4 mn	<b>Number coolantpacks required:</b>	50 units
<b>Cool life at +43°C:</b>	31 hours 8 mn	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	10 units	<b>Price base year:</b>	2016
<b>Weight per carton (kg):</b>	50 kg	<b>Prices:</b>	115 US\$
<b>Volume per carton (m3):</b>	0.24 m3		
<b>Test report reference:</b>	719180700-EEC10	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 27 Oct 2010</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased			



## E004: Insulated containers

**PQS code:** E004/032

**Description:** Vaccine carrier Long range

**Manufacturer's reference:** Gio'Style VC 2.6 L

**Manufactured in:** Italy

**Company:** Giostyle SpA

**Address:** Giostyle SpA  
Via Battaina 393  
24059 Ugnano (BG) Italy

**Telephone:** +39 035 4188501 , +39 3666381896

**Email:** [stefano.petro@giostyle.com](mailto:stefano.petro@giostyle.com), [marzia.peruta@giostyle.com](mailto:marzia.peruta@giostyle.com),  
[christian.abbadini@giostyle.com](mailto:christian.abbadini@giostyle.com)

**Web address:** [www.giostyle.com/](http://www.giostyle.com/)

## Specifications

<b>Vaccine storage dimensions (cm):</b>	14.5 x 11.5 x 16.0 cm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	2.6 Litres	<b>External materials:</b>	Polypropylene
<b>weight fully loaded (Kg):</b>	6.5 kg	<b>Internal lining material:</b>	Polypropylene
<b>Weight empty (Kg):</b>	1.8 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW x H cm)</b>	29.0 x 24.0 x 32.0 cm	<b>Insulation thickness:</b>	25 - 35 mm
<b>Internal dimensions: (LxWxH cm)</b>	22.0 x 18.0 x 24.0 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	41 hours 29 mn	<b>Model coolant-pack</b>	0.4 L
<b>Warm life at -20°C:</b>	11 hours 36 mn	<b>Number coolantpacks required:</b>	8 units
<b>Cool life at +43°C:</b>	12 hours 10 mn	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	8 units	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	8 units	<b>Price base year:</b>	2011
<b>Weight per carton (kg):</b>	18.5 kg	<b>Prices:</b>	8 or more units: 25.90 US\$
<b>Volume per carton (m3):</b>	0.18 m3		
<b>Test report reference:</b>	WHO-10-003	<b>Laboratory:</b>	CEMAFROID SAS
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 20 Jan 2011</i>		<b>Valid until:</b> May 2023
<b>Subject to Field validation:</b>	N/A		<b>Date field validation:</b>

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



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/034</b>
<b>Description:</b>	Cold box Long range
<b>Manufacturer's reference:</b>	RCB 264 SL
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	32 x 21 x 10 cm	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	6L	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	27.54 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	13.25 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	65 x 53 x 46 cm	<b>Insulation thickness:</b>	100mm
<b>Internal dimensions: (LxWxH cm)</b>	40 x 27.8 x 20 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	106 hours	<b>Model coolant-pack</b>	0.4L
<b>Warm life at -20°C:</b>	31 hours	<b>Number coolantpacks required:</b>	26
<b>Cool life at +43°C:</b>	30 hours	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1	<b>Price base year:</b>	2014
<b>Weight per carton (kg):</b>	16	<b>Prices:</b>	99 USD per unit
<b>Volume per carton (m3):</b>	0.17 m3		
<b>Test report reference:</b>	WHO-12-021	<b>Laboratory:</b>	CEMAFROID SAS
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 11 Dec 2012</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A		<b>Date field validation:</b>

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



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/036</b>
<b>Description:</b>	Cold box Long range
<b>Manufacturer's reference:</b>	RCB 444L-A
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	45.00 x 30.00 x 15.00 cm	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	20.25 L	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	49.70 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	20.525 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW x H cm)</b>	77.00 x 62.00 x 53.50 cm	<b>Insulation thickness:</b>	110 mm
<b>Internal dimensions: (LxWxH cm)</b>	51.00 x 36.00 x 27.50 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	152 hours 28min	<b>Model coolant-pack</b>	Type 3, 0.4L
<b>Warm life at -20°C:</b>	27 hours 35 min	<b>Number coolantpacks required:</b>	44 x 0.4L
<b>Cool life at +43°C:</b>	51 hours 17 min	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 units	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2014
<b>Weight per carton (kg):</b>	25.21 kg	<b>Prices:</b>	132.00 USD per unit
<b>Volume per carton (m3):</b>	0.25 m3		
<b>Test report reference:</b>	WHO 12-022	<b>Laboratory:</b>	CEMAFROID SAS
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 30 Jan 2013</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/040</b>
<b>Description:</b>	Vaccine carrier Long range
<b>Manufacturer's reference:</b>	BCVC46
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	12.0 x 12.0 x 19.0 cm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	2.7 L	<b>External materials:</b>	Polyethylene
<b>Weight fully loaded (Kg):</b>	6.4kg	<b>Internal lining material:</b>	Polystyrene
<b>Weight empty (Kg):</b>	2.32kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxWxH cm)</b>	27.0 x 27.0 x 32.0 cm	<b>Insulation thickness:</b>	28 to 58 mm
<b>Internal dimensions: (LxWxH cm)</b>	19.0 x 19.0 x 19.0 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	46 hours 23 min	<b>Model coolant-pack</b>	Type 4: 0.6L
<b>Warm life at -20°C:</b>	17 hours 12 min	<b>Number coolantpacks required:</b>	4 units
<b>Cool life at +43°C:</b>	13 hours 43 min	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	N/A		
<b>Minimum order:</b>	1 units	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2014
<b>Weight per carton (kg):</b>	2.85 kg per unit	<b>Prices:</b>	15.80 USD per unit
<b>Volume per carton (m3):</b>	0.02m3 per unit		
<b>Test report reference:</b>	WHO 14-027 V2	<b>Laboratory:</b>	CEMAFROID SAS
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 22 Apr 2014</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A		<b>Date field validation:</b>

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





## E004: Insulated containers

<b>PQS code:</b>	<b>E004/041</b>
<b>Description:</b>	Cold box Long Term Storage
<b>Manufacturer's reference:</b>	ARKTEK-YBC-5
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Aucma Global Medical Co.,Ltd.
<b>Address:</b>	315 Qianwangang Road, Economic & Technological Development Zone, Qingdao, China
<b>Telephone:</b>	+86 532 86763602
<b>Email:</b>	<a href="mailto:lishouda@aucma.com.cn">lishouda@aucma.com.cn</a> ; <a href="mailto:info@aucma.com.cn">info@aucma.com.cn</a>
<b>Web address:</b>	<a href="http://aucmaglobal.com.cn">http://aucmaglobal.com.cn</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	28.3 x 9.8 x 28.5	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	5.4	<b>External materials:</b>	HDPE
<b>weight fully loaded (Kg):</b>	39.5	<b>Internal lining material:</b>	Aluminum Alloy
<b>Weight empty (Kg):</b>	22	<b>Insulation materials:</b>	Dewar
<b>External dimensions: (LxW H cm)</b>	Diam 52.8 x 74.7 cm	<b>Insulation thickness:</b>	40
<b>Internal dimensions: (LxWxH cm)</b>	Diam 31.1 x 33.2 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	35 days	<b>Model coolant-pack</b>	Unique for device
<b>Warm life at -20°C:</b>	6.1 days (test 8)	<b>Number coolantpacks required:</b>	8 units x 1L
<b>Cool life at +43°C:</b>	N/A	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	+5°C		
<b>Minimum order:</b>	5 units	<b>Incoterms:</b>	FCA
<b>Pieces per carton:</b>	1 piece	<b>Price base year:</b>	2015
<b>Weight per carton (kg):</b>	32.5 kg	<b>Prices:</b>	up to 99 units: 2393 USD per unit
<b>Volume per carton (m3):</b>	0.376 m3		100 units and more: 2193 USD
<b>Test report reference:</b>	WB-14-644	<b>Laboratory:</b>	CHEARI
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>	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		
<b>Current PQS status:</b>	pre-qualified; 15 Jan 2015	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	In process	<b>Date field validation:</b>	
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased			



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/042</b>
<b>Description:</b>	Cold box Short range
<b>Manufacturer's reference:</b>	EBT-30
<b>Manufactured in:</b>	Japan
<b>Company:</b>	EBAC CO. Ltd.
<b>Address:</b>	1-6-5 Yakumo, Meguro-Ku 152-0023 Tokyo Japan
<b>Telephone:</b>	+81 3 3724 3681; +82 70 8654 1049
<b>Email:</b>	<a href="mailto:k.jongwon@ebac.co.jp">k.jongwon@ebac.co.jp</a>
<b>Web address:</b>	<a href="http://www.ebac.co.jp">www.ebac.co.jp</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	36.8 x 18.0 x 25.0	<b>Lid type and fixing</b>	Gripping strips
<b>Vaccine storage volume (L):</b>	16.5	<b>External materials:</b>	Aluminum film
<b>weight fully loaded (Kg):</b>	14.7	<b>Internal lining material:</b>	Aluminum film
<b>Weight empty (Kg):</b>	2.24	<b>Insulation materials:</b>	phenolic foam
<b>External dimensions: (LxW x H cm)</b>	50 x 37 x 38	<b>Insulation thickness:</b>	40
<b>Internal dimensions: (LxW x H cm)</b>	40.0 x 28.0 x 27.0	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	60.5	<b>Model coolant-pack</b>	0.4L
<b>Warm life at -20°C:</b>	38.26	<b>Number coolantpacks required:</b>	16
<b>Cool life at +43°C:</b>	18.45	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>			
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1 unit	<b>Price base year:</b>	2015
<b>Weight per carton (kg):</b>	3	<b>Prices:</b>	400 USD per unit
<b>Volume per carton (m3):</b>	0.07 m3		
<b>Test report reference:</b>	WB-14-301	<b>Laboratory:</b>	CHEARI
<b>Quality standard:</b>	-ISO 9001:2008-ISO 13485-		
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified; 14 Apr 2015	<b>Valid until:</b>	May 2023
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



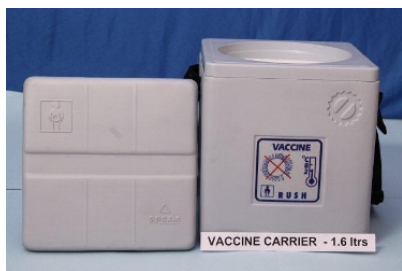
## E004: Insulated containers

<b>PQS code:</b>	<b>E004/043</b>
<b>Description:</b>	Vaccine carrier Long range
<b>Manufacturer's reference:</b>	BK-VC 3.4-CF
<b>Manufactured in:</b>	India
<b>Company:</b>	Blowkings
<b>Address:</b>	53-C Mittal Court Nariman Point Mumbai 400021 India
<b>Telephone:</b>	+91-(0)22-22840120
<b>Email:</b>	<a href="mailto:sales@blowkings.co.in">sales@blowkings.co.in</a>
<b>Web address:</b>	<a href="http://www.blowkings.co.in/">http://www.blowkings.co.in/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	13.3 x 1 3.3 x 19 cm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	3.4L	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	4.9Kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	2.26Kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW x H cm)</b>	28.8 x 28.9 x 33.7 cms	<b>Insulation thickness:</b>	40 mm
<b>Internal dimensions: (LxWxH cm)</b>	13.3 x 1 3.3 x 19 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	43.43 hours	<b>Model coolant-pack</b>	0.6 L
<b>Warm life at -20°C:</b>	16 hours	<b>Number coolantpacks required:</b>	4
<b>Cool life at +43°C:</b>	8 hours	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>			
<b>Minimum order:</b>	4	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	4	<b>Price base year:</b>	2016
<b>Weight per carton (kg):</b>	13 Kg	<b>Prices:</b>	\$21 per unit for 4 or more units
<b>Volume per carton (m3):</b>	0.12 m3		
<b>Test report reference:</b>	7191118692□EEC15/KGT	<b>Laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified; 23 May 2016	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



## **E004:** Insulated containers

**PQS code:** E004/044

**Description:** Vaccine carrier Long range

**Manufacturer's reference:** AIVC 44 LR

**Manufactured in:** India

**Company:** Apex International

**Address:** New Office Add : B-277, Sector- 50, Noida, New Delhi, INDIA  
Mob: +91-9810047640; +91-9811037640  
Tel. # : +91-120-2574851, +91-120-2502754, +91-120-4231851  
Fax # : +91-120-2500347  
E-mail: [mail@apexint.org](mailto:mail@apexint.org)  
Web: <http://www.apex-international.org>

G47, Sector 39  
Noida 201301  
India

**Telephone:** +91-120-2574851

**Email:** [mail@apexint.org](mailto:mail@apexint.org), [export@apexint.org](mailto:export@apexint.org)

**Web address:** <http://www.apex-international.org/>

# Specifications

Vaccine storage dimensions (cm):	10.02 x 10.02 x 1.67 cm	Lid type and fixing	Gripping strips
Vaccine storage volume (L):	1.67	External materials:	Polyethylene
weight fully loaded (Kg):	4.34	Internal lining material:	Polyethylene
Weight empty (Kg):	1.99	Insulation materials:	Polyurethane
External dimensions: (LxW H cm)	25.0 x 25.0 x 30.0 cm	Insulation thickness:	35 mm
Internal dimensions: (LxWxH cm)	10.45 x 10.45 x 1.67 cm	Type of coolantpacks required:	Waterpacks
Cold life at +43°C:	35.7	Model coolant-pack	0.4 L
Warm life at -20°C:	17.3	Number coolantpacks required:	4
Cool life at +43°C:	3.25	Coolantpacks supplied:	Yes
Minimum Rated Ambient:			
Minimum order:	1000	Incoterms:	FOB
Pieces per carton:	8	Price base year:	2016
Weight per carton (kg):	18	Prices:	11.50 USD per unit
Volume per carton (m3):	0.18 m3		
Test report reference:	CE-JOB-DEL-16-000426-005	Laboratory:	Intertek India
Quality standard:	-ISO 9001:2008-		
Comments:			
Current PQS status:	pre-qualified; 04 Jul 2016		Valid until: May 2024
Subject to Field validation:	N/A	Date field validation:	
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased			



## **E004:** Insulated containers

<b>PQS code:</b>	<b>E004/045</b>
<b>Description:</b>	Cold box Long range
<b>Manufacturer's reference:</b>	AICB-156L
<b>Manufactured in:</b>	India
<b>Company:</b>	Apex International
<b>Address:</b>	New Office Add : B-277, Sector- 50, Noida, New Delhi, INDIA Mob: +91-9810047640;+91-9811037640 Tel. # : +91-120-2574851, +91-120-2502754, +91-120-4231851 Fax # : +91-120-2500347 E-mail: mail@apexint.org Web: http://www.apex-international.org
	G47, Sector 39 Noida 201301 India
<b>Telephone:</b>	+91-120-2574851
<b>Email:</b>	<a href="mailto:mail@apexint.org">mail@apexint.org</a> , <a href="mailto:export@apexint.org">export@apexint.org</a>
<b>Web address:</b>	<a href="http://www.apex-international.org/">http://www.apex-international.org/</a>

# Specifications

Vaccine storage dimensions (cm):	27.0 x 20.0 x 10.3 cm	Lid type and fixing	Fixed hinges
Vaccine storage volume (L):	5.5	External materials:	Polyethylene
weight fully loaded (Kg):	22.33	Internal lining material:	Polyethylene
Weight empty (Kg):	9.4	Insulation materials:	Polyurethane
External dimensions: (LxW H cm)	54.0 x 44.5 x 41.5 cm	Insulation thickness:	65 - 75 mm
Internal dimensions: (LxWxH cm)	35.0 x 28.0 x 24.0 cm	Type of coolantpacks required:	Waterpacks
Cold life at +43°C:	107.5	Model coolant-pack	0.6L
Warm life at -20°C:	33.7	Number coolantpacks required:	15
Cool life at +43°C:	22.9	Coolantpacks supplied:	Yes
Minimum Rated Ambient:			
Minimum order:	10	Incoterms:	FOB
Pieces per carton:	1 piece	Price base year:	2016
Weight per carton (kg):	13.7	Prices:	130.0 USD per unit
Volume per carton (m3):	0.11 m3		
Test report reference:	CE-JOB-DEL-16-000426-006	Laboratory:	Intertek India
Quality standard:	-ISO 9001:2008-		
Comments:			
Current PQS status:	pre-qualified; 04 Jul 2016		Valid until: May 2024
Subject to Field validation:	N/A	Date field validation:	
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased			



PERFORMANCE QUALITY SAFETY



## **E004:** Insulated containers

<b>PQS code:</b>	<b>E004/046</b>
<b>Description:</b>	Cold box Long range
<b>Manufacturer's reference:</b>	AICB-316L
<b>Manufactured in:</b>	India
<b>Company:</b>	Apex International
<b>Address:</b>	New Office Add : B-277, Sector- 50, Noida, New Delhi, INDIA Mob: +91-9810047640;+91-9811037640 Tel. # : +91-120-2574851, +91-120-2502754, +91-120-4231851 Fax # : +91-120-2500347 E-mail: mail@apexint.org Web: http://www.apex-international.org
	G47, Sector 39 Noida 201301 India
<i>Telephone:</i>	+91-120-2574851
<i>Email:</i>	<a href="mailto:mail@apexint.org">mail@apexint.org</a> , <a href="mailto:export@apexint.org">export@apexint.org</a>
<i>Web address:</i>	<a href="http://www.apex-international.org/">http://www.apex-international.org/</a>



# Specifications

Vaccine storage dimensions (cm):	44.8 x 29.8 x 16.8 cm	Lid type and fixing	Fixed hinges
Vaccine storage volume (L):	22.4	External materials:	Polyethylene
weight fully loaded (Kg):	49.2	Internal lining material:	Polyethylene
Weight empty (Kg):	18.15	Insulation materials:	Polyurethane
External dimensions: (LxW H cm)	77.0 x 61.5 x 51.5 cm	Insulation thickness:	100 mm
Internal dimensions: (LxWxH cm)	52.0 x 37.0 x 28.2 cm	Type of coolantpacks required:	Waterpacks
Cold life at +43°C:	153.5	Model coolant-pack	0.6L
Warm life at -20°C:	69	Number coolantpacks required:	31 X 0.6L
Cool life at +43°C:	41.7	Coolantpacks supplied:	Yes
Minimum Rated Ambient:			
Minimum order:	10	Incoterms:	FOB
Pieces per carton:	1 piece	Price base year:	2016
Weight per carton (kg):	25	Prices:	122.0 USD per unit
Volume per carton (m3):	0.27 m3		
Test report reference:	CE-JOB-DEL-16-000426-004	Laboratory:	Intertek India
Quality standard:	-ISO 9001:2008-		
Comments:			
Current PQS status:	pre-qualified; 04 Jul 2016		Valid until: May 2024
Subject to Field validation:	N/A	Date field validation:	
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased			



PERFORMANCE QUALITY SAFETY



## **E004:** Insulated containers

**PQS code:** E004/047

**Description:**

**Manufacturer's reference:** AIVC - 46

**Manufactured in:** India

**Company:** Apex International

**Address:** New Office Add : B-277, Sector- 50, Noida, New Delhi, INDIA

Mob: +91-9810047640; +91-9811037640

Tel. # : +91-120-2574851, +91-120-2502754, +91-120-4231851

Fax # : +91-120-2500347

E-mail: [mail@apexint.org](mailto:mail@apexint.org)

Web: <http://www.apex-international.org>

G47, Sector 39  
Noida 201301  
India

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# Specifications

Vaccine storage dimensions (cm):	12.4 cm x 12.4 cm x 19 cm	Lid type and fixing	
Vaccine storage volume (L):	2.9 litres	External materials:	Polyethylene
weight fully loaded (Kg):	5.36 Kg	Internal lining material:	Polyethylene
Weight empty (Kg):	2.63 Kg	Insulation materials:	Polyurethane
External dimensions: (LxW H cm)	29 cn x 29 cm x 32.7 cm	Insulation thickness:	41 mm
Internal dimensions: (LxWxH cm)	19.9 cm x 19.9 cm x 19cm	Type of coolantpacks required:	
Cold life at +43°C:	51 hours 8 minutes	Model coolant-pack	
Warm life at -20°C:	25 hrs 11 minutes	Number coolantpacks required:	4
Cool life at +43°C:	12 hrs 55 mintutes	Coolantpacks supplied:	Yes
Minimum Rated Ambient:			
Minimum order:		Incoterms:	EXW
Pieces per carton:		Price base year:	2016
Weight per carton (kg):		Prices:	
Volume per carton (m3):			
Test report reference:		Laboratory:	Intertek India
Quality standard:	-ISO 9001:2008-		
Comments:			
Current PQS status:	pre-qualified; 16 Jan 2017		Valid until: May 2024
Subject to Field validation:	N/A	Date field validation: 1/16/2017 12:00:00 AM	
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased			



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/049</b>
<b>Description:</b>	
<b>Manufacturer's reference:</b>	BCVC43A
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	95mm x 95mm x 160mm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	1.44 L	<b>External materials:</b>	HDPE
<b>Weight fully loaded (Kg):</b>	3.8 Kg	<b>Internal lining material:</b>	HIPS
<b>Weight empty (Kg):</b>	1.625 kgs	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW x H cm)</b>	25.2 x 25.2 x 30.5 cm	<b>Insulation thickness:</b>	40 - 100 mm
<b>Internal dimensions: (LxWxH cm)</b>	16.5 x 16.5 x 16.5 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	40 hrs	<b>Model coolant-pack</b>	BIP-3
<b>Warm life at -20°C:</b>	16 hrs 51 min	<b>Number coolantpacks required:</b>	4
<b>Cool life at +43°C:</b>	10 hrs 49 min	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>			
<b>Minimum order:</b>	1	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1	<b>Price base year:</b>	2017
<b>Weight per carton (kg):</b>	2.14 kgs	<b>Prices:</b>	11.00 USD per unit
<b>Volume per carton (m3):</b>	0.02 m3		
<b>Test report reference:</b>	CE-Job-Del-17-000026-001	<b>Laboratory:</b>	
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 02 Oct 2017</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	8/25/2017 12:00:00 AM

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



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/050</b>
<b>Description:</b>	Vaccine carrier Long range
<b>Manufacturer's reference:</b>	AFVC46
<b>Manufactured in:</b>	India
<b>Company:</b>	AOV International LLP
<b>Address:</b>	C-22/25, Sector 57, Nolda 201301 [U.P.], India
<b>Telephone:</b>	+91 80102 66834, +91 120 4692934
<b>Email:</b>	<a href="mailto:rohit.raman@aovinternational.net">rohit.raman@aovinternational.net</a> , <a href="mailto:sales@aovinternational.net">sales@aovinternational.net</a>
<b>Web address:</b>	<a href="http://www.aovinternational.net">www.aovinternational.net</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	9.40 cm x 9.40 cm x 17.00 cm	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	1.5 litres	<b>External materials:</b>	HDPE
<b>weight fully loaded (Kg):</b>	8 kg	<b>Internal lining material:</b>	HIPS
<b>Weight empty (Kg):</b>	4.2 kg	<b>Insulation materials:</b>	CFC free Polyurethane
<b>External dimensions: (LxW x H cm)</b>	31cm x 31cm x 30cm	<b>Insulation thickness:</b>	30 mm
<b>Internal dimensions: (LxWxH cm)</b>	9.40 cm x 9.40 cm x 17.00 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	34 hours	<b>Model coolant-pack</b>	
<b>Warm life at -20°C:</b>	17 hours 15 minutes	<b>Number coolantpacks required:</b>	4 x 0.6L
<b>Cool life at +43°C:</b>	-	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	+15°C		
<b>Minimum order:</b>		<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>		<b>Price base year:</b>	2017
<b>Weight per carton (kg):</b>		<b>Prices:</b>	1 - 10 unit: US \$ 51.00 11 - 100 units: US \$ 48 > 100 units: US \$ 45
<b>Volume per carton (m3):</b>			
<b>Test report reference:</b>		<b>Laboratory:</b>	Intertek India
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified; 08 Dec 2017	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/051</b>
<b>Description:</b>	Freeze-Free Vaccine carrier Long range
<b>Manufacturer's reference:</b>	FFVC-1.7L
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Leff International Trading Co Ltd
<b>Address:</b>	10, Yan er'dao Road Qingdao 266000 P.R.China
<b>Telephone:</b>	+ 86 532 88961819
<b>Email:</b>	<a href="mailto:david@lefftrade.org">david@lefftrade.org</a>
<b>Web address:</b>	<a href="http://www.lefftrade.org">www.lefftrade.org</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	10 cm x 10 cm x 19 cm	<b>Lid type and fixing</b>	
<b>Vaccine storage volume (L):</b>	1.7 L	<b>External materials:</b>	HDPE
<b>weight fully loaded (Kg):</b>	8 kg	<b>Internal lining material:</b>	PP
<b>Weight empty (Kg):</b>	4 kg	<b>Insulation materials:</b>	CFC free Polyurethane
<b>External dimensions: (LxW x H cm)</b>	30.8 cm x 30.8 cm x 30 cm	<b>Insulation thickness:</b>	42 mm
<b>Internal dimensions: (LxWxH cm)</b>	10 cm x 10 cm x 19 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	33h 42min	<b>Model coolant-pack</b>	0.6 L
<b>Warm life at -20°C:</b>	15h 17min	<b>Number coolantpacks required:</b>	4
<b>Cool life at +43°C:</b>	0	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	15°C		
<b>Minimum order:</b>	1	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	2	<b>Price base year:</b>	
<b>Weight per carton (kg):</b>	9.7 kg	<b>Prices:</b>	100 units - USD39
<b>Volume per carton (m3):</b>	0.08 m3		10 units - USD42
			1 units - USD45
<b>Test report reference:</b>	WB-18-384	<b>Laboratory:</b>	CHEARI
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 28 Aug 2018</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	<i>In process</i>	<b>Date field validation:</b>	

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/052</b>
<b>Description:</b>	Freeze-Free Long range Vaccine carrier Long range
<b>Manufacturer's reference:</b>	BK-VC-FF 1.6L
<b>Manufactured in:</b>	India
<b>Company:</b>	Blowkings
<b>Address:</b>	53-C Mittal Court Nariman Point Mumbai 400021 India
<b>Telephone:</b>	+91-(0)22-22840120
<b>Email:</b>	<a href="mailto:sales@blowkings.co.in">sales@blowkings.co.in</a>
<b>Web address:</b>	<a href="http://www.blowkings.co.in/">http://www.blowkings.co.in/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	10 X 10 X 16	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	1.6 L	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	6.4 KGS	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	3.4 KGS	<b>Insulation materials:</b>	CFC FREE POLYURETHANE
<b>External dimensions: (LxW x H cm)</b>	28.5 X 28.5 X 33.5	<b>Insulation thickness:</b>	40 MM
<b>Internal dimensions: (LxWxH cm)</b>	10 X 10 X 16	<b>Type of coolantpacks required:</b>	
<b>Cold life at +43°C:</b>	30 HRS	<b>Model coolant-pack</b>	0.4 L (BK-4)
<b>Warm life at -20°C:</b>	20 HRS	<b>Number coolantpacks required:</b>	4
<b>Cool life at +43°C:</b>	NA	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	15°C		
<b>Minimum order:</b>		<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	4 UNITS PER CARTON	<b>Price base year:</b>	2019
<b>Weight per carton (kg):</b>		<b>Prices:</b>	\$ 55
<b>Volume per carton (m3):</b>	0.13 M3		
<b>Test report reference:</b>		<b>Laboratory:</b>	Intertek India
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 03 Apr 2019</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	4/3/2019 12:00:00 AM

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



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/053</b>
<b>Description:</b>	
<b>Manufacturer's reference:</b>	BCVC44B
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	9.5 cm x 9.5 cm x 16.4 cm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	1.48 L	<b>External materials:</b>	Polyethylene
<b>Weight fully loaded (Kg):</b>	3.32 kg	<b>Internal lining material:</b>	HIPS
<b>Weight empty (Kg):</b>	1.64 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW x H cm)</b>	25.3 cm x 25.3 cm x 30.5 cm	<b>Insulation thickness:</b>	40 mm - 100 mm
<b>Internal dimensions: (LxW x H cm)</b>	16.3 cm x 16.3 cm x 16.4 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	40 hrs 30 minutes	<b>Model coolant-pack</b>	BIP-4
<b>Warm life at -20°C:</b>	14 hrs 57 minutes	<b>Number coolantpacks required:</b>	4
<b>Cool life at +43°C:</b>	7 hrs 45 minutes	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>			
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1	<b>Price base year:</b>	2019
<b>Weight per carton (kg):</b>	2.150 kgs	<b>Prices:</b>	\$ 12
<b>Volume per carton (m3):</b>	0.0209 m3		
<b>Test report reference:</b>		<b>Laboratory:</b>	
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 29 Apr 2019</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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





## E004: Insulated containers

<b>PQS code:</b>	<b>E004/054</b>
<b>Description:</b>	Vaccine carrier Long range
<b>Manufacturer's reference:</b>	BDVC44
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	102 mm x 102 mm x 164 mm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	1.7	<b>External materials:</b>	HDPE
<b>weight fully loaded (Kg):</b>	3.34	<b>Internal lining material:</b>	HIPS
<b>Weight empty (Kg):</b>	1.65	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW x H cm)</b>	25.2 (L) x 26.0 (W) x 30.5 (H)	<b>Insulation thickness:</b>	40 mm - 45 mm
<b>Internal dimensions: (LxWxH cm)</b>	17.0 x 17.0 x 16.4 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	38 hrs 37 mins	<b>Model coolant-pack</b>	BIP-4
<b>Warm life at -20°C:</b>	15 hrs 26 mins	<b>Number coolantpacks required:</b>	4
<b>Cool life at +43°C:</b>	7 hrs 20 mins	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>			
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1	<b>Price base year:</b>	2019
<b>Weight per carton (kg):</b>	2.1 kgs	<b>Prices:</b>	\$ 12 per unit
<b>Volume per carton (m3):</b>	0.02 m3		
<b>Test report reference:</b>	CE-JOB-NDA-19-000224-001	<b>Laboratory:</b>	Intertek India
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 06 Jun 2019</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A		<b>Date field validation:</b> 6/6/2019 12:00:00 AM

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



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/055</b>
<b>Description:</b>	Vaccine carrier Long range
<b>Manufacturer's reference:</b>	BDVC46
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	13.3 cm(L) x 13.3(L) cm x 19.0	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	3.36 Ltrs	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	5.17 kg	<b>Internal lining material:</b>	HIPS
<b>Weight empty (Kg):</b>	2.51 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	29.5(L)x 29.5(W)x 33.5(H)cm	<b>Insulation thickness:</b>	40 MM
<b>Internal dimensions: (LxWxH cm)</b>	20.2 (L)x 20.2(W) x 19.4 (H)cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	49 hrs 39 minutes	<b>Model coolant-pack</b>	BIP-6
<b>Warm life at -20°C:</b>	18 hrs 42 minutes	<b>Number coolantpacks required:</b>	4
<b>Cool life at +43°C:</b>	12 hrs 26 minutes	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>			
<b>Minimum order:</b>	1	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1	<b>Price base year:</b>	2019
<b>Weight per carton (kg):</b>	2.88 kg	<b>Prices:</b>	\$ 19.00
<b>Volume per carton (m3):</b>	0.030 m3		
<b>Test report reference:</b>	CE-JOB-NDA-19-000732-001	<b>Laboratory:</b>	Intertek India
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 09 Aug 2019</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A		<b>Date field validation:</b>

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/056</b>
<b>Description:</b>	Cold box      Short range
<b>Manufacturer's reference:</b>	RCB244SS
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	22.3 cm(L) x 29.3(B) cm x 16.4	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	10.7 L	<b>External materials:</b>	LLDPE
<b>weight fully loaded (Kg):</b>	18.14 Kg	<b>Internal lining material:</b>	LLDPE
<b>Weight empty (Kg):</b>	8.18 Kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	49.3(L)x 45.5(B)x 39.7(H)cm	<b>Insulation thickness:</b>	46 - 61 mm
<b>Internal dimensions: (LxWxH cm)</b>	36.2(L) x 29.4(B)x 25.4(H)cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	73 hrs 8 minutes	<b>Model coolant-pack</b>	BIP-4
<b>Warm life at -20°C:</b>	34 hrs 54 minutes	<b>Number coolantpacks required:</b>	24
<b>Cool life at +43°C:</b>	16 hrs 40 minutes	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>			
<b>Minimum order:</b>	1 unit	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1	<b>Price base year:</b>	2019
<b>Weight per carton (kg):</b>	9.23 kg	<b>Prices:</b>	\$ 95.00
<b>Volume per carton (m3):</b>	0.091 m3		
<b>Test report reference:</b>	CE-JOB-NDA-19-000224-002	<b>Laboratory:</b>	Intertek India
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 05 Nov 2019</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A		<b>Date field validation:</b>

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



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/057</b>
<b>Description:</b>	Freeze-Free Long range Vaccine Cold Box
<b>Manufacturer's reference:</b>	FFCB-15L
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Leff International Trading Co Ltd
<b>Address:</b>	10, Yan er'dao Road Qingdao 266000 P.R.China
<b>Telephone:</b>	+ 86 532 88961819
<b>Email:</b>	<a href="mailto:david@lefftrade.org">david@lefftrade.org</a>
<b>Web address:</b>	<a href="http://www.lefftrade.org">www.lefftrade.org</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	41.5 x 18.5 x 20.0	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	15.4 L	<b>External materials:</b>	HDPE
<b>weight fully loaded (Kg):</b>	49.9 kg	<b>Internal lining material:</b>	PP
<b>Weight empty (Kg):</b>	24 kg	<b>Insulation materials:</b>	CFC FREE POLYURETHANE
<b>External dimensions: (LxW x H cm)</b>	77 x 54 x 47	<b>Insulation thickness:</b>	110 mm
<b>Internal dimensions: (LxWxH cm)</b>	41.5 x 18.5 x 20.0	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	106hrs 9mins	<b>Model coolant-pack</b>	WP-0.6L
<b>Warm life at -20°C:</b>	55hrs 24min	<b>Number coolantpacks required:</b>	21
<b>Cool life at +43°C:</b>	-	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	15°C		
<b>Minimum order:</b>	2	<b>Incoterms:</b>	FCA
<b>Pieces per carton:</b>	1	<b>Price base year:</b>	2020
<b>Weight per carton (kg):</b>	51.5 kg	<b>Prices:</b>	1-10 unit: USD 265
<b>Volume per carton (m3):</b>	0.228		11-100 units: USD260
			>100 units: USD255
<b>Test report reference:</b>	WB-19-371	<b>Laboratory:</b>	
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 20 May 2020</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/058</b>
<b>Description:</b>	Freeze-Free Long range Vaccine carrier Long range
<b>Manufacturer's reference:</b>	BCVC46LFF
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	9.50 (L)x9.50(W) x 16.80 (H)cm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	1.51 Ltrs	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	7.6 kg	<b>Internal lining material:</b>	HIPS
<b>Weight empty (Kg):</b>	3.76 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	31.8(L)x31.8(W)x 29.5(H)cm	<b>Insulation thickness:</b>	34 mm
<b>Internal dimensions: (LxWxH cm)</b>	9.50 (L)x9.50(W) x 16.80 (H)cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	33 hrs 50 minutes	<b>Model coolant-pack</b>	BIP-6
<b>Warm life at -20°C:</b>	15 hrs 20 mins	<b>Number coolantpacks required:</b>	4
<b>Cool life at +43°C:</b>	NA	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	15 °C		
<b>Minimum order:</b>	1	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1	<b>Price base year:</b>	2020
<b>Weight per carton (kg):</b>	4.71 kgs	<b>Prices:</b>	For 100 units US\$38 per no.
<b>Volume per carton (m3):</b>	0.030 m3		For 10 units US\$41 per no.
			For 1 units US\$44 per no.
<b>Test report reference:</b>	CE-JOB-NDA-20-000102-001	<b>Laboratory:</b>	Intertek India
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 22 Sep 2020</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	9/22/2020 12:00:00 AM

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/059</b>
<b>Description:</b>	Freeze-Free Long range Vaccine carrier Long range
<b>Manufacturer's reference:</b>	RCW1
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsyste.ms.com">info@bmedicalsyste.ms.com</a> , <a href="mailto:Gilles.Ries@bmedicalsyste.ms.com">Gilles.Ries@bmedicalsyste.ms.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsyste.ms.com">Admilson.Pinto@bmedicalsyste.ms.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsyste.ms.com">www.bmedicalsyste.ms.com</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	10 (Diameter) x 20.8 (Height)	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	1.04 Litre	<b>External materials:</b>	Polythene & POM
<b>weight fully loaded (Kg):</b>	7.6 kg	<b>Internal lining material:</b>	Polythene & POM
<b>Weight empty (Kg):</b>	4.8 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	34.7 x 28.1 x 43	<b>Insulation thickness:</b>	60 mm
<b>Internal dimensions: (LxWxH cm)</b>	22.3 x 13.9 x 20.8	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	32h 07min	<b>Model coolant-pack</b>	0.6 L
<b>Warm life at -20°C:</b>	17h 08min	<b>Number coolantpacks required:</b>	3
<b>Cool life at +43°C:</b>	0	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	15°C		
<b>Minimum order:</b>	1	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1	<b>Price base year:</b>	2020
<b>Weight per carton (kg):</b>	7 kg	<b>Prices:</b>	102€ for 100+ units
<b>Volume per carton (m3):</b>	0.047 m3		
<b>Test report reference:</b>	WHO-19-002	<b>Laboratory:</b>	CEMAFROID SAS
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 30 Sep 2020</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A		<b>Date field validation:</b>

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/060</b>
<b>Description:</b>	Vaccine carrier Long range
<b>Manufacturer's reference:</b>	RE0333VC
<b>Manufactured in:</b>	India
<b>Company:</b>	Rajas Enterprises
<b>Address:</b>	Nanhera chowk, Nanhera, Kuldeep ,Nagar ,Ambala cantt [Haryana] Ambala, 133001
<b>Telephone:</b>	+91-8529999960
<b>Email:</b>	<a href="mailto:info@rajas.in">info@rajas.in</a>
<b>Web address:</b>	<a href="http://www.rajasenterprises.com">www.rajasenterprises.com</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	10.2cm(L)*10.1cm(L)*16.0cm (H)	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	1.65 Litres	<b>External materials:</b>	HDPE(High Density Polyethylene)
<b>weight fully loaded (Kg):</b>	4.76	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	2.01 kg	<b>Insulation materials:</b>	CFC FREE POLYURETHANE
<b>External dimensions: (LxW H cm)</b>	248mm x 290mm x 246mm	<b>Insulation thickness:</b>	40 mm
<b>Internal dimensions: (LxWxH cm)</b>	170mm x 171mm x 164mm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	30hrs 22min	<b>Model coolant-pack</b>	REI-IP-03
<b>Warm life at -20°C:</b>	12hrs 38min	<b>Number coolantpacks required:</b>	4
<b>Cool life at +43°C:</b>	7hrs 05min	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>			
<b>Minimum order:</b>	10	<b>Incoterms:</b>	FOB
<b>Pieces per carton:</b>		<b>Price base year:</b>	2021
<b>Weight per carton (kg):</b>	4.76 kg	<b>Prices:</b>	12\$ Per piece/Upto 10 pieces
<b>Volume per carton (m3):</b>			
<b>Test report reference:</b>	CE-JOB-NDA-21-000619-001	<b>Laboratory:</b>	
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified; 15 Jun 2021	<b>Valid until:</b>	May 2022
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/061</b>
<b>Description:</b>	Vaccine carrier Short range
<b>Manufacturer's reference:</b>	2CPCPVC-001
<b>Manufactured in:</b>	India
<b>Company:</b>	PARACoAT PRODUCTS LTD
<b>Address:</b>	SALES & MARKETING 307-308, 3RD FLOOR, DLF CITY COURT, SIKANDERPUR GURGAON
<b>Telephone:</b>	+91-124-4224115
<b>Email:</b>	<a href="mailto:MANISH@PARACoAT.COM">MANISH@PARACoAT.COM</a>
<b>Web address:</b>	<a href="https://www.paracoatproducts.com/">https://www.paracoatproducts.com/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	104 mm x 104 mm x 164 mm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	1.77 Litres	<b>External materials:</b>	Expandable Polypropylene
<b>weight fully loaded (Kg):</b>	2.95 Kg	<b>Internal lining material:</b>	Expandable Polypropylene
<b>Weight empty (Kg):</b>	0.82 Kg	<b>Insulation materials:</b>	Other
<b>External dimensions: (LxW x H cm)</b>	246 mm x 305 mm x 247 mm	<b>Insulation thickness:</b>	35 mm
<b>Internal dimensions: (LxWxH cm)</b>	181 mm x 174 mm x 179 mm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	23 hours 58 minutes	<b>Model coolant-pack</b>	AIIP-04
<b>Warm life at -20°C:</b>	09 hours 09 minutes	<b>Number coolantpacks required:</b>	4
<b>Cool life at +43°C:</b>	6 hours 33 minutes	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>			
<b>Minimum order:</b>	8	<b>Incoterms:</b>	
<b>Pieces per carton:</b>	4 per carton	<b>Price base year:</b>	2021
<b>Weight per carton (kg):</b>	3.3	<b>Prices:</b>	
<b>Volume per carton (m3):</b>	0.00082 m3		
<b>Test report reference:</b>	CE-JOB-NDA-21-000620-001	<b>Laboratory:</b>	Intertek India
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified; 29 Nov 2021	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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





PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/063</b>
<b>Description:</b>	Vaccine carrier Short range
<b>Manufacturer's reference:</b>	AFVC44
<b>Manufactured in:</b>	India
<b>Company:</b>	AOV International LLP
<b>Address:</b>	C-22/25, Sector 57, Noida 201301 [U.P.], India
<b>Telephone:</b>	+91 80102 66834, +91 120 4692934
<b>Email:</b>	<a href="mailto:rohit.raman@aovinternational.net">rohit.raman@aovinternational.net</a> , <a href="mailto:sales@aovinternational.net">sales@aovinternational.net</a>
<b>Web address:</b>	<a href="http://www.aovinternational.net">www.aovinternational.net</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	8.9 x 8.9 x 14.9 cm	<b>Lid type and fixing</b>	Removable lid
<b>Vaccine storage volume (L):</b>	1.18 Litres	<b>External materials:</b>	HDPE
<b>weight fully loaded (Kg):</b>	5.64 kg	<b>Internal lining material:</b>	HIPS
<b>Weight empty (Kg):</b>	3.32 kg	<b>Insulation materials:</b>	CFC-Free Polyurethane
<b>External dimensions: (LxW x H cm)</b>	28.5 x 28.5 x 27cm	<b>Insulation thickness:</b>	30-35 mm
<b>Internal dimensions: (LxWxH cm)</b>	8.9 x 8.9 x 14.9 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	27 hours 47 minutes	<b>Model coolant-pack</b>	0.4 L
<b>Warm life at -20°C:</b>	15 hrs 02 minutes	<b>Number coolantpacks required:</b>	4
<b>Cool life at +43°C:</b>	0	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	15°C		
<b>Minimum order:</b>	1	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	02	<b>Price base year:</b>	2022
<b>Weight per carton (kg):</b>	7.5 kg	<b>Prices:</b>	
<b>Volume per carton (m3):</b>	0.054 cbm		
<b>Test report reference:</b>	CE-JOB-NDA-22-000893-001	<b>Laboratory:</b>	Intertek India
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 14 Sep 2022</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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

**E004: Insulated containers**

<b>PQS code:</b>	<b>E004/064</b>
<b>Description:</b>	Freeze-Free Vaccine Cold Box
<b>Manufacturer's reference:</b>	FFCB20L
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Leff International Trading Co Ltd
<b>Address:</b>	10, Yan er'dao Road Qingdao 266000 P.R.China
<b>Telephone:</b>	+ 86 532 88961819
<b>Email:</b>	<a href="mailto:david@lefftrade.org">david@lefftrade.org</a>
<b>Web address:</b>	<a href="http://www.lefftrade.org">www.lefftrade.org</a>

**Specifications**

<b>Vaccine storage dimensions (cm):</b>	55.5×18.5×19.5cm	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	20 Litres	<b>External materials:</b>	HDPE
<b>weight fully loaded (Kg):</b>	49.2 kg	<b>Internal lining material:</b>	PP
<b>Weight empty (Kg):</b>	22.1 kg	<b>Insulation materials:</b>	CFC FREE POLYURETHANE
<b>External dimensions: (LxW H cm)</b>	77.5 cm x 54.5 cm x 47.3 cm	<b>Insulation thickness:</b>	110 mm
<b>Internal dimensions: (LxWxH cm)</b>	55.5 cm x 18.5 cm x 19.5 cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	72h 52mins	<b>Model coolant-pack</b>	WP-0.6L
<b>Warm life at -20°C:</b>	38h40mins	<b>Number coolantpacks required:</b>	17
<b>Cool life at +43°C:</b>	7hrs 48min	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	15°C		
<b>Minimum order:</b>	2	<b>Incoterms:</b>	FCA
<b>Pieces per carton:</b>		<b>Price base year:</b>	2022
<b>Weight per carton (kg):</b>	26 kg	<b>Prices:</b>	1 unit: USD260 10 units: USD255 100 units: USD250
<b>Volume per carton (m3):</b>			
<b>Test report reference:</b>	WB-21-0335	<b>Laboratory:</b>	CHEARI
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 27 Sep 2022</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



PERFORMANCE QUALITY SAFETY



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/065</b>
<b>Description:</b>	Freeze-Free Long range Vaccine carrier Long range
<b>Manufacturer's reference:</b>	BK-VC-FF 2.4 L
<b>Manufactured in:</b>	India
<b>Company:</b>	Blowkings
<b>Address:</b>	53-C Mittal Court Nariman Point Mumbai 400021 India
<b>Telephone:</b>	+91-(0)22-22840120
<b>Email:</b>	<a href="mailto:sales@blowkings.co.in">sales@blowkings.co.in</a>
<b>Web address:</b>	<a href="http://www.blowkings.co.in/">http://www.blowkings.co.in/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	11.4 (L)X 11.5 (W) X 18.2 (H)	<b>Lid type and fixing</b>	
<b>Vaccine storage volume (L):</b>	2.4 L	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	7.95 KG	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	3.5 KG	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	32.5 (L)X 32.5 (W)X 32.7 (H)	<b>Insulation thickness:</b>	40 MM
<b>Internal dimensions: (LxWxH cm)</b>	11.4 (L)X 11.5 (W) X 18.2 (H)	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	39.44 HRS	<b>Model coolant-pack</b>	0.6 L
<b>Warm life at -20°C:</b>	23.08 HRS	<b>Number coolantpacks required:</b>	4
<b>Cool life at +43°C:</b>	NA	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	15		
<b>Minimum order:</b>	4 UNITS	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	4	<b>Price base year:</b>	2022
<b>Weight per carton (kg):</b>	18KGS	<b>Prices:</b>	\$55
<b>Volume per carton (m3):</b>			
<b>Test report reference:</b>	CE-JOB-NDA-22-000873-001	<b>Laboratory:</b>	Intertek India
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 10 Jan 2023</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	9/12/2022 12:00:00 AM

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/066</b>
<b>Description:</b>	Freeze-Free Long range Vaccine carrier Long range
<b>Manufacturer's reference:</b>	TPVC 46 LFF
<b>Manufactured in:</b>	India
<b>Company:</b>	TRIMURTI PLAST CONTAINERS PRIVATE LIMITED
<b>Address:</b>	Street Name and No.: 31/833, GANESHNAGAR, DHANKAWADI City: PUNE Postcode: 411043 Country: INDIA
<b>Telephone:</b>	+91 98331 40603; +91 98220 22312
<b>Email:</b>	<a href="mailto:exports@tpcpl.net">exports@tpcpl.net</a> ; <a href="mailto:rajesh@tpcpl.net">rajesh@tpcpl.net</a> ; <a href="mailto:raj@tpcpl.net">raj@tpcpl.net</a>
<b>Web address:</b>	<a href="http://www.tpcpl.co.in">www.tpcpl.co.in</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	9.4 (L) x 9.4 (W) x 17.0 (H)	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	1.5 Litres	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	7.90 Kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	3.97 Kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxWxH cm)</b>	31.0 (L) x 31.0 (W) x 30.5 (H)	<b>Insulation thickness:</b>	34 mm
<b>Internal dimensions: (LxWxH cm)</b>	9.4 (L) x 9.4 (W) x 17.0 (H)	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	30.48 hrs	<b>Model coolant-pack</b>	TIP-6
<b>Warm life at -20°C:</b>	16.28 hrs	<b>Number coolantpacks required:</b>	4
<b>Cool life at +43°C:</b>	NA	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	15°C		
<b>Minimum order:</b>	4 UNITS	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	02	<b>Price base year:</b>	2023
<b>Weight per carton (kg):</b>	18 kg	<b>Prices:</b>	<10 units: 42.5 USD 11-100 units: USD 42.5 >100 units: USD 42.5
<b>Volume per carton (m3):</b>			
<b>Test report reference:</b>	CE-JOB-NDA-22-001981-001	<b>Laboratory:</b>	Intertek India
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 18 Jan 2023</i>	<b>Valid until:</b>	May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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



## E004: Insulated containers

<b>PQS code:</b>	<b>E004/067</b>
<b>Description:</b>	Cold box Long range
<b>Manufacturer's reference:</b>	RCB503L
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	46.8 cm(L) x 31.3 cm(W) x 16.2	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	23.7	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	49.32	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	19.15	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	78.5 cm(L) x 63.2 cm(W) x 53.3	<b>Insulation thickness:</b>	111 mm
<b>Internal dimensions: (LxWxH cm)</b>	53.5 cm(L) x 39.2 cm(W) x 28.6	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	131 hrs 5 minutes	<b>Model coolant-pack</b>	BIP-3
<b>Warm life at -20°C:</b>	21 hrs 49 minutes	<b>Number coolantpacks required:</b>	50
<b>Cool life at +43°C:</b>	42 hrs 47 minutes	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>			
<b>Minimum order:</b>	1	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1	<b>Price base year:</b>	2023
<b>Weight per carton (kg):</b>	25 kg	<b>Prices:</b>	135 USD per unit
<b>Volume per carton (m3):</b>	0.26m3		
<b>Test report reference:</b>	CE-JOB-NDA-22-000104-002	<b>Laboratory:</b>	Intertek India
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 24 Jan 2023</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A		<b>Date field validation:</b>

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

**E004: Insulated containers**

<b>PQS code:</b>	<b>E004/068</b>
<b>Description:</b>	Cold box Long range
<b>Manufacturer's reference:</b>	RCB316L
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

**Specifications**

<b>Vaccine storage dimensions (cm):</b>	45.5 cm (L) x 31.7 cm (W) x 15	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	21.92	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	49.91	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	19.19	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW x H cm)</b>	78.5cm(L) x 63.2 cm(W) x 53.3	<b>Insulation thickness:</b>	111 mm
<b>Internal dimensions: (LxWxH cm)</b>	54.2cm(L) x 38.6 cm(W) x 28.5	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	145 hrs 15 min	<b>Model coolant-pack</b>	BIP-6
<b>Warm life at -20°C:</b>	37 hrs	<b>Number coolantpacks required:</b>	31
<b>Cool life at +43°C:</b>	45 hrs 49 min	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>			
<b>Minimum order:</b>	1	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1	<b>Price base year:</b>	2023
<b>Weight per carton (kg):</b>	24.8 kg	<b>Prices:</b>	USD133
<b>Volume per carton (m3):</b>	0.26m3		
<b>Test report reference:</b>	CE-JOB-NDA-22-000104-001	<b>Laboratory:</b>	Intertek India
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 24 Jan 2023</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A		<b>Date field validation:</b>

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



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## E004: Insulated containers

<b>PQS code:</b>	<b>E004/069</b>
<b>Description:</b>	Cold box
<b>Manufacturer's reference:</b>	FHCB23-0624
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Leff International Trading Co Ltd
<b>Address:</b>	10, Yan er'dao Road Qingdao 266000 P.R.China
<b>Telephone:</b>	+ 86 532 88961819
<b>Email:</b>	<a href="mailto:david@lefftrade.org">david@lefftrade.org</a>
<b>Web address:</b>	<a href="http://www.lefftrade.org">www.lefftrade.org</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	56x33x26cm	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	23 L	<b>External materials:</b>	Polyethylene
<b>weight fully loaded (Kg):</b>	46.3 kg	<b>Internal lining material:</b>	Polyethylene
<b>Weight empty (Kg):</b>	18.66 kg	<b>Insulation materials:</b>	Polyurethane
<b>External dimensions: (LxW H cm)</b>	77.5x54.5x48.5cm	<b>Insulation thickness:</b>	105 mm
<b>Internal dimensions: (LxWxH cm)</b>	56x33x26cm	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	134h39mins	<b>Model coolant-pack</b>	0.6 L
<b>Warm life at -20°C:</b>	42h30mins	<b>Number coolantpacks required:</b>	24
<b>Cool life at +43°C:</b>	44h14mins	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>			
<b>Minimum order:</b>	2	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1	<b>Price base year:</b>	
<b>Weight per carton (kg):</b>	24KG	<b>Prices:</b>	USD240
<b>Volume per carton (m3):</b>	0.21m3		
<b>Test report reference:</b>	WB-21-0337	<b>Laboratory:</b>	
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 22 Feb 2023</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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





## E004: Insulated containers

<b>PQS code:</b>	<b>E004/070</b>
<b>Description:</b>	Freeze-Free Vaccine carrier Long range
<b>Manufacturer's reference:</b>	FF001A Eclipse 1.8L
<b>Manufactured in:</b>	Germany
<b>Company:</b>	Gobi Technologies
<b>Address:</b>	5406 Lake Washington Blvd NE Suite F Kirkland, WA 98033 United States of America
<b>Telephone:</b>	+49 89 310 44 84 (
<b>Email:</b>	<a href="mailto:info@gobi.world">info@gobi.world</a>
<b>Web address:</b>	<a href="https://www.gobi.world/">https://www.gobi.world/</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	86cm2 x 20.6 cm tall	<b>Lid type and fixing</b>	Zip
<b>Vaccine storage volume (L):</b>	1.8 L	<b>External materials:</b>	HDPE
<b>weight fully loaded (Kg):</b>	5.5 kgs	<b>Internal lining material:</b>	Stainless Steel
<b>Weight empty (Kg):</b>	3.4 kgs	<b>Insulation materials:</b>	Vacuum insulation
<b>External dimensions: (LxW H cm)</b>	22cm diameter x 38.7cm tall	<b>Insulation thickness:</b>	5 mm
<b>Internal dimensions: (LxWxH cm)</b>	15.9cm dia x 20.6cm tall	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	36 hrs	<b>Model coolant-pack</b>	Gobi model FF007A 0.6L
<b>Warm life at -20°C:</b>	31.8 hrs	<b>Number coolantpacks required:</b>	1
<b>Cool life at +43°C:</b>	NA	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	15°C		
<b>Minimum order:</b>	100	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	1	<b>Price base year:</b>	2023
<b>Weight per carton (kg):</b>	3.6	<b>Prices:</b>	\$89
<b>Volume per carton (m3):</b>	0.036m3		
<b>Test report reference:</b>	Re/Gent Report #23126/GO01/V2	<b>Laboratory:</b>	Re/Gent B.V
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 12 Jun 2023</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A	<b>Date field validation:</b>	

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





## E004: Insulated containers

<b>PQS code:</b>	<b>E004/071</b>
<b>Description:</b>	Freeze-Free Long range Vaccine carrier Long range
<b>Manufacturer's reference:</b>	GKS FFVC-44LR
<b>Manufactured in:</b>	India
<b>Company:</b>	GKS Healthsol LLP
<b>Address:</b>	B1/01 Palm Grove Villa Ardee City Sector 52 Gururgam 122002 India
<b>Telephone:</b>	+919820895063
<b>Email:</b>	<a href="mailto:info@gkshealth.com">info@gkshealth.com</a>
<b>Web address:</b>	<a href="http://www.gkshealth.com">www.gkshealth.com</a>

## Specifications

<b>Vaccine storage dimensions (cm):</b>	1.7 L	<b>Lid type and fixing</b>	Fixed hinges
<b>Vaccine storage volume (L):</b>	1.7 Litres	<b>External materials:</b>	HDPE
<b>weight fully loaded (Kg):</b>	6.4 kg	<b>Internal lining material:</b>	HIPS
<b>Weight empty (Kg):</b>	3.5 kg	<b>Insulation materials:</b>	CFC FREE POLYURETHANE
<b>External dimensions: (LxW xH cm)</b>	285 mm(L)x305 mm (W)x295 mm(L)	<b>Insulation thickness:</b>	40 MM
<b>Internal dimensions: (LxWxH cm)</b>	162 mm (L)x103 mm (W)x103 mm (H)	<b>Type of coolantpacks required:</b>	Waterpacks
<b>Cold life at +43°C:</b>	30hrs 22min	<b>Model coolant-pack</b>	GKS-IP-4
<b>Warm life at -20°C:</b>	16 hours 41 minute	<b>Number coolantpacks required:</b>	4
<b>Cool life at +43°C:</b>	NA	<b>Coolantpacks supplied:</b>	Yes
<b>Minimum Rated Ambient:</b>	15°C		
<b>Minimum order:</b>	4 UNITS	<b>Incoterms:</b>	EXW
<b>Pieces per carton:</b>	4	<b>Price base year:</b>	2023
<b>Weight per carton (kg):</b>	16 kg	<b>Prices:</b>	\$37 per unit
<b>Volume per carton (m3):</b>	0.21m3		\$35 upto 10 units
			\$33 upto 100 units and more
<b>Test report reference:</b>	CE-JOB-NDA-23-000388-001 (Amendment-1)	<b>Laboratory:</b>	Intertek India
<b>Quality standard:</b>	-ISO 9001:2008-		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 08 Aug 2023</i>		<b>Valid until:</b> May 2024
<b>Subject to Field validation:</b>	N/A		<b>Date field validation:</b>

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

# E005

## Water-packs

This section covers water-packs which are used as the temperature control medium in the insulated containers described in Section E004.

### **E005.1**      **Choosing water-packs**

The water-packs listed in the E005 product data sheets are all suitable for use in the transport of vaccines. They can all be used as conventional frozen icepacks, as cool water-packs or as warm water-packs in cold climates. When selecting water-packs for a programme, consider the following points:

- PQS allows three standard water-packs sizes - 0.3 litre, 0.4 litre and 0.6 litre. Make sure you order the correct size for each type of cold box or vaccine carrier. Try to select cold boxes and vaccine carriers which use just one size of water-pack.
- Most cold boxes and vaccine carriers are supplied with a single set of water-packs. It is good practice to order an extra set so that one set can be frozen or cooled while the other set is in use. The additional set also covers the inevitable losses that occur over the lifetime of the box.
- DO NOT purchase pre-filled water-packs. These often contain an additive, which may lower the freezing point to below 0°C. Their use can endanger freeze-sensitive vaccines.

### **E005.2**      **Future developments**

WHO will continue to review the use of eutectic-based coolant products which change phase above 0°C. At present the simplicity and low transport costs associated with water-based products which are filled in-country are considered to outweigh the possible performance benefits of eutectics.

<b>E005 data sheets follow</b>
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## E005: Coolant packs for insulated containers

<b>PQS code:</b>	<b>E005/001</b>
<b>Description:</b>	Water-pack 0.6L
<b>Manufacturer's reference:</b>	Bmedical WP 0.6L
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsystems.com">info@bmedicalsystems.com</a> , <a href="mailto:Gilles.Ries@bmedicalsystems.com">Gilles.Ries@bmedicalsystems.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsystems.com">Admilson.Pinto@bmedicalsystems.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsystems.com">www.bmedicalsystems.com</a>

## Specifications

<b>Nominal capacity (Liter):</b>	0.6 L	<b>Weight empty (g):</b>	79 g
<b>Rated water content (Liter)</b>	0.58 L	<b>Weight filled (g):</b>	655 g
<b>External dimensions (mm):</b>	190 x 120 x 35 mm		
<b>Minimum order:</b>	1 unit	<b>Pieces per carton:</b>	24 units
<b>Year base price:</b>	2019	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	>100 units:37 €	<b>Volume per carton (m3):</b>	0.025 m3
		<b>Weight per carton (kg):</b>	3 kg
<b>Test report:</b>	A65899b	<b>Verification laboratory:</b>	Intertek India
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 08 Dec 2009	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E005: Coolant packs for insulated containers

<b>PQS code:</b>	<b>E005/002</b>
<b>Description:</b>	Water-pack 0.3L
<b>Manufacturer's reference:</b>	Bmedical WP 0.3L
<b>Manufactured in:</b>	Luxembourg
<b>Company:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	<a href="mailto:info@bmedicalsystems.com">info@bmedicalsystems.com</a> , <a href="mailto:Gilles.Ries@bmedicalsystems.com">Gilles.Ries@bmedicalsystems.com</a> , <a href="mailto:Admilson.Pinto@bmedicalsystems.com">Admilson.Pinto@bmedicalsystems.com</a>
<b>Web address:</b>	<a href="http://www.bmedicalsystems.com">www.bmedicalsystems.com</a>

## Specifications

<b>Nominal capacity (Liter):</b>	0.3 L	<b>Weight empty (g):</b>	69 g
<b>Rated water content (Liter)</b>	0.35 L	<b>Weight filled (g):</b>	418 g
<b>External dimensions (mm):</b>	170 x 120 x 25 mm		
<b>Minimum order:</b>	1 unit	<b>Pieces per carton:</b>	40 units
<b>Year base price:</b>	2019	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	>100 units: 51 €	<b>Volume per carton (m3):</b>	0.025 m3
		<b>Weight per carton (kg):</b>	3 kg
<b>Test report:</b>	A65899a	<b>Verification laboratory:</b>	Intertek India
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 22 Mar 2010	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



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## E005: Coolant packs for insulated containers

<b>PQS code:</b>	<b>E005/004</b>
<b>Description:</b>	Water-pack 0.3 L
<b>Manufacturer's reference:</b>	AIP-3
<b>Manufactured in:</b>	India
<b>Company:</b>	AOV International LLP
<b>Address:</b>	C-22/25, Sector 57, Noida 201301 [U.P.], India
<b>Telephone:</b>	+91 80102 66834, +91 120 4692934
<b>Email:</b>	<a href="mailto:rohit.raman@aovinternational.net">rohit.raman@aovinternational.net</a> , <a href="mailto:sales@aovinternational.net">sales@aovinternational.net</a>
<b>Web address:</b>	<a href="http://www.aovinternational.net">www.aovinternational.net</a>

## Specifications

<b>Nominal capacity (Liter):</b>	0.3 L	<b>Weight empty (g):</b>	76 g
<b>Rated water content (Liter)</b>	0.35 L	<b>Weight filled (g):</b>	363 g
<b>External dimensions (mm):</b>	160 x 91 x 34 mm		
<b>Minimum order:</b>	240 units	<b>Pieces per carton:</b>	240 units
<b>Year base price:</b>	2016	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	0.35 USD per unit	<b>Volume per carton (m3):</b>	0.16 m3
		<b>Weight per carton (kg):</b>	22 kg
<b>Test report:</b>	S09EEC02224/AT/JT	<b>Verification laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 26 Apr 2010	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



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## E005: Coolant packs for insulated containers

<b>PQS code:</b>	<b>E005/005</b>
<b>Description:</b>	Water-pack 0.4 L
<b>Manufacturer's reference:</b>	AIP-4
<b>Manufactured in:</b>	India
<b>Company:</b>	AOV International LLP
<b>Address:</b>	C-22/25, Sector 57, Noida 201301 [U.P.], India
<b>Telephone:</b>	+91 80102 66834, +91 120 4692934
<b>Email:</b>	<a href="mailto:rohit.raman@aovinternational.net">rohit.raman@aovinternational.net</a> , <a href="mailto:sales@aovinternational.net">sales@aovinternational.net</a>
<b>Web address:</b>	<a href="http://www.aovinternational.net">www.aovinternational.net</a>

## Specifications

<b>Nominal capacity (Liter):</b>	0.4 L	<b>Weight empty (g):</b>	78 g
<b>Rated water content (Liter)</b>	0.35 L	<b>Weight filled (g):</b>	432 g
<b>External dimensions (mm):</b>	164 x 95 x 34 mm		
<b>Minimum order:</b>	230 units	<b>Pieces per carton:</b>	230 units
<b>Year base price:</b>	2016	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	0.40 USD per unit	<b>Volume per carton (m3):</b>	0.16 m3
		<b>Weight per carton (kg):</b>	21 kg
<b>Test report:</b>	S09EEC02224/ATJT	<b>Verification laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 26 Apr 2010	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



PERFORMANCE QUALITY SAFETY



## E005: Coolant packs for insulated containers

<b>PQS code:</b>	<b>E005/006</b>
<b>Description:</b>	Water-pack 0.6L
<b>Manufacturer's reference:</b>	AIP-6
<b>Manufactured in:</b>	India
<b>Company:</b>	AOV International LLP
<b>Address:</b>	C-22/25, Sector 57, Noida 201301 [U.P.], India
<b>Telephone:</b>	+91 80102 66834, +91 120 4692934
<b>Email:</b>	<a href="mailto:rohit.raman@aovinternational.net">rohit.raman@aovinternational.net</a> , <a href="mailto:sales@aovinternational.net">sales@aovinternational.net</a>
<b>Web address:</b>	<a href="http://www.aovinternational.net">www.aovinternational.net</a>

## Specifications

<b>Nominal capacity (Liter):</b>	0.6 L	<b>Weight empty (g):</b>	110 g
<b>Rated water content (Liter)</b>	0.55 L	<b>Weight filled (g):</b>	664 g
<b>External dimensions (mm):</b>	190 x 119 x 35 mm		

<b>Minimum order:</b>	150 units	<b>Pieces per carton:</b>	150 units
<b>Year base price:</b>	2016	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	0.60 USD per unit	<b>Volume per carton (m3):</b>	0.16 m3
		<b>Weight per carton (kg):</b>	20 kg

<b>Test report:</b>	EEC09/719162291	<b>Verification laboratory:</b>	TUV SUD PSB Pte Ltd
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### Comments:

<b>Current PQS status:</b>	<i>pre-qualified ; 26 Apr 2010</i>	<b>Valid until :</b>	<i>May, 2024</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

**E005: Coolant packs for insulated containers**

**PQS code:** E005/007  
**Description:** Water-pack 0.3L  
**Manufacturer's reference:** AIIP-03  
**Manufactured in:** India  
**Company:** Apex International  
New Office Add : B-277, Sector- 50, Noida, New Delhi, INDIA  
Mob: +91-9810047640; +91-9811037640  
Tel. # : +91-120-2574851, +91-120-2502754, +91-120-4231851  
Fax # : +91-120-2500347  
E-mail: [mail@apexint.org](mailto:mail@apexint.org)  
Web: <http://www.apex-international.org>

**Address:**

G47, Sector 39  
Noida 201301  
India

**Telephone:** +91-120-2574851

**Email:** [mail@apexint.org](mailto:mail@apexint.org), [export@apexint.org](mailto:export@apexint.org)

**Web address:** <http://www.apex-international.org/>

**Specifications**

<b>Nominal capacity (Liter):</b>	0.3 L	<b>Weight empty (g):</b>	77 g
<b>Rated water content (Liter)</b>	0.29 L	<b>Weight filled (g):</b>	363 g
<b>External dimensions (mm):</b>	161 x 89 x 31.5 mm		

<b>Minimum order:</b>	100 units	<b>Pieces per carton:</b>	100 units
<b>Year base price:</b>	2016	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	100 units or more: 0.45 USD	<b>Volume per carton (m3):</b>	0.045 m3
		<b>Weight per carton (kg):</b>	8 kg

**Test report:** 719164810EEC09/03 **Verification laboratory:** TUV SUD PSB Pte Ltd

**Comments:**

**Current PQS status:** *pre-qualified ; 03 May 2010* **Valid until :** May, 2024

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



**E005: Coolant packs for insulated containers**

**PQS code:** E005/008  
**Description:** Water-pack 0.4L  
**Manufacturer's reference:** AIIP-0.4  
**Manufactured in:** India  
**Company:** Apex International  
New Office Add : B-277, Sector- 50, Noida, New Delhi, INDIA  
Mob: +91-9810047640; +91-9811037640  
Tel. # : +91-120-2574851, +91-120-2502754, +91-120-4231851  
Fax # : +91-120-2500347  
E-mail: [mail@apexint.org](mailto:mail@apexint.org)  
Web: <http://www.apex-international.org>

**Address:**

G47, Sector 39  
Noida 201301  
India

**Telephone:** +91-120-2574851

**Email:** [mail@apexint.org](mailto:mail@apexint.org), [export@apexint.org](mailto:export@apexint.org)

**Web address:** <http://www.apex-international.org/>

**Specifications**

<b>Nominal capacity (Liter):</b>	0.4 L	<b>Weight empty (g):</b>	77 g
<b>Rated water content (Liter)</b>	0.35 L	<b>Weight filled (g):</b>	428 g
<b>External dimensions (mm):</b>	163.25 x 95.6 x 34.35 mm		

<b>Minimum order:</b>	100 units	<b>Pieces per carton:</b>	100 units
<b>Year base price:</b>	2016	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	100 units or more: 0.50 USD	<b>Volume per carton (m3):</b>	0.054 m3
		<b>Weight per carton (kg):</b>	8 kg

**Test report:** 719164808EEC09/02 **Verification laboratory:** TUV SUD PSB Pte Ltd

**Comments:**

**Current PQS status:** *pre-qualified ; 03 May 2010* **Valid until :** May, 2024

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

**E005: Coolant packs for insulated containers**

**PQS code:** E005/009  
**Description:** Water-pack 0.6 L  
**Manufacturer's reference:** AIIP-06  
**Manufactured in:** India  
**Company:** Apex International  
New Office Add : B-277, Sector- 50, Noida, New Delhi, INDIA  
Mob: +91-9810047640; +91-9811037640  
Tel. # : +91-120-2574851, +91-120-2502754, +91-120-4231851  
Fax # : +91-120-2500347  
E-mail: [mail@apexint.org](mailto:mail@apexint.org)  
Web: <http://www.apex-international.org>

**Address:**

G47, Sector 39  
Noida 201301  
India

**Telephone:** +91-120-2574851

**Email:** [mail@apexint.org](mailto:mail@apexint.org), [export@apexint.org](mailto:export@apexint.org)

**Web address:** <http://www.apex-international.org/>

**Specifications**

<b>Nominal capacity (Liter):</b>	0.6 L	<b>Weight empty (g):</b>	111 g
<b>Rated water content (Liter)</b>	0.56 L	<b>Weight filled (g):</b>	666 g
<b>External dimensions (mm):</b>	189.55 x 121.20 x 34.34 mm		

<b>Minimum order:</b>	100 units	<b>Pieces per carton:</b>	100 units
<b>Year base price:</b>	2016	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	100 units or more: 0.65 USD	<b>Volume per carton (m3):</b>	0.079 m3
		<b>Weight per carton (kg):</b>	11.5 kg

**Test report:** 719164808EEC09/01 **Verification laboratory:** TUV SUD PSB Pte Ltd

**Comments:**

**Current PQS status:** *pre-qualified ; 03 May 2010* **Valid until :** May, 2024

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



## E005: Coolant packs for insulated containers

**PQS code:** E005/010  
**Description:** Water-pack 0.3 L  
**Manufacturer's reference:** BK-V4H  
**Manufactured in:** India  
**Company:** Blowkings  
53-C Mittal Court  
Nariman Point  
Mumbai 400021  
India  
**Address:**  
**Telephone:** +91-(0)22-22840120  
**Email:** [sales@blowkings.co.in](mailto:sales@blowkings.co.in)  
**Web address:** <http://www.blowkings.co.in/>

## Specifications

<b>Nominal capacity (Liter):</b>	0.3L	<b>Weight empty (g):</b>	69 g
<b>Rated water content (Liter)</b>	0.3 L	<b>Weight filled (g):</b>	374 g
<b>External dimensions (mm):</b>	162.4 x 89.9 x 34.3 mm		
<b>Minimum order:</b>	225 units	<b>Pieces per carton:</b>	225 units
<b>Year base price:</b>	2016	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	225 units or more: 0.45 USD	<b>Volume per carton (m3):</b>	0.12 m3
		<b>Weight per carton (kg):</b>	22 kg
<b>Test report:</b>	719170704-EEC10	<b>Verification laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 02 Sep 2010	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E005: Coolant packs for insulated containers

**PQS code:** E005/011  
**Description:** water-pack 0.4L  
**Manufacturer's reference:** BK-4  
**Manufactured in:** India  
**Company:** Blowkings  
53-C Mittal Court  
Nariman Point  
Mumbai 400021  
India  
**Address:**  
**Telephone:** +91-(0)22-22840120  
**Email:** [sales@blowkings.co.in](mailto:sales@blowkings.co.in)  
**Web address:** <http://www.blowkings.co.in/>

## Specifications

<b>Nominal capacity (Liter):</b>	0.4 L	<b>Weight empty (g):</b>	70 g
<b>Rated water content (Liter)</b>	0.39 L	<b>Weight filled (g):</b>	430 g
<b>External dimensions (mm):</b>	165 x 93 x 35 mm		
<b>Minimum order:</b>	225 units	<b>Pieces per carton:</b>	225 units
<b>Year base price:</b>	2016	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	225 units or more: 0.50 USD	<b>Volume per carton (m3):</b>	0.13 m3
		<b>Weight per carton (kg):</b>	22 kg
<b>Test report:</b>	EEC09-719162420-B	<b>Verification laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 02 Sep 2010	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E005: Coolant packs for insulated containers

**PQS code:** E005/012  
**Description:** Water-pack 0.6L  
**Manufacturer's reference:** BK-6  
**Manufactured in:** India  
**Company:** Blowkings  
53-C Mittal Court  
Nariman Point  
Mumbai 400021  
India  
**Address:**  
**Telephone:** +91-(0)22-22840120  
**Email:** [sales@blowkings.co.in](mailto:sales@blowkings.co.in)  
**Web address:** <http://www.blowkings.co.in/>

## Specifications

<b>Nominal capacity (Liter):</b>	0.6 L	<b>Weight empty (g):</b>	110 g
<b>Rated water content (Liter)</b>	0.55 L	<b>Weight filled (g):</b>	655 g
<b>External dimensions (mm):</b>	190 x 120 x 35 mm		
<b>Minimum order:</b>	144 units	<b>Pieces per carton:</b>	144 units
<b>Year base price:</b>	2016	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	144 units or more: 0.65 USD	<b>Volume per carton (m3):</b>	0.13 m3
		<b>Weight per carton (kg):</b>	22 kg
<b>Test report:</b>	EEC09-719162420 A	<b>Verification laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 02 Sep 2010	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



PERFORMANCE QUALITY SAFETY



## E005: Coolant packs for insulated containers

**PQS code:** E005/013  
**Description:** Water-pack 0.3L T2  
**Manufacturer's reference:** BIP-3  
**Manufactured in:** India  
**Company:** Nilkamal Limited  
Street No 14,  
MIDC - Andheri (East)  
Mumbai-400093  
India  
**Address:**  
**Telephone:** +91 9920026701  
**Email:** [vaishali.gaikwad@nilkamal.com](mailto:vaishali.gaikwad@nilkamal.com);  
[nayan.parekh@nilkamal.com](mailto:nayan.parekh@nilkamal.com)  
**Web address:** <http://www.nilkamal.com/>

## Specifications

<b>Nominal capacity (Liter):</b>	0.3 L	<b>Weight empty (g):</b>	75 g
<b>Rated water content (Liter)</b>	0.29 L	<b>Weight filled (g):</b>	370 g
<b>External dimensions (mm):</b>	163 x 90.5 x 33 mm		
<b>Minimum order:</b>	380 units	<b>Pieces per carton:</b>	380 units
<b>Year base price:</b>	2016	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	380 units or more: 0.47 USD	<b>Volume per carton (m3):</b>	0.20 m3
		<b>Weight per carton (kg):</b>	30.5 kg
<b>Test report:</b>	WHO 10-004	<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 15 Oct 2010	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



PERFORMANCE QUALITY SAFETY



## E005: Coolant packs for insulated containers

**PQS code:** E005/014  
**Description:** Water-pack 0.4L  
**Manufacturer's reference:** BIP-4  
**Manufactured in:** India  
**Company:** Nilkamal Limited  
Street No 14,  
MIDC - Andheri (East)  
Mumbai-400093  
India  
**Address:**  
**Telephone:** +91 9920026701  
**Email:** [vaishali.gaikwad@nilkamal.com](mailto:vaishali.gaikwad@nilkamal.com);  
[nayan.parekh@nilkamal.com](mailto:nayan.parekh@nilkamal.com)  
**Web address:** <http://www.nilkamal.com/>

## Specifications

<b>Nominal capacity (Liter):</b>	0.4 L	<b>Weight empty (g):</b>	76 g
<b>Rated water content (Liter)</b>	0.35 L	<b>Weight filled (g):</b>	431 g
<b>External dimensions (mm):</b>	165 x 95 x 33 mm		
<b>Minimum order:</b>	380 units	<b>Pieces per carton:</b>	380 units
<b>Year base price:</b>	2016	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	380 units or more: 0.49 USD	<b>Volume per carton (m3):</b>	0.20 m3
		<b>Weight per carton (kg):</b>	30.88 kg
<b>Test report:</b>	WHO 10-005	<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 15 Oct 2010	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E005: Coolant packs for insulated containers

<b>PQS code:</b>	<b>E005/015</b>
<b>Description:</b>	Water-pack 0.6L
<b>Manufacturer's reference:</b>	BIP-6
<b>Manufactured in:</b>	India
<b>Company:</b>	Nilkamal Limited
<b>Address:</b>	Street No 14, MIDC - Andheri (East) Mumbai-400093 India
<b>Telephone:</b>	+91 9920026701
<b>Email:</b>	<a href="mailto:vaishali.gaikwad@nilkamal.com">vaishali.gaikwad@nilkamal.com</a> ; <a href="mailto:nayan.parekh@nilkamal.com">nayan.parekh@nilkamal.com</a>
<b>Web address:</b>	<a href="http://www.nilkamal.com/">http://www.nilkamal.com/</a>

## Specifications

<b>Nominal capacity (Liter):</b>	0.6 L	<b>Weight empty (g):</b>	114 g
<b>Rated water content (Liter)</b>	0.56 L	<b>Weight filled (g):</b>	650 g
<b>External dimensions (mm):</b>	190 x 121 x 35 mm		
<b>Minimum order:</b>	240 units	<b>Pieces per carton:</b>	150 units
<b>Year base price:</b>	2016	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	240 units or more: 0.63 USD	<b>Volume per carton (m3):</b>	0.20 m3
		<b>Weight per carton (kg):</b>	29.36 kg
<b>Test report:</b>	WHO 10-006	<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 15 Oct 2010	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			





## E005: Coolant packs for insulated containers

<b>PQS code:</b>	<b>E005/019</b>
<b>Description:</b>	Water-pack 0.4 L
<b>Manufacturer's reference:</b>	Water-pack 0.4 L
<b>Manufactured in:</b>	Italy
<b>Company:</b>	Giostyle SpA Giostyle SpA Via Battaina 393 24059 Ugnano (BG) Italy
<b>Address:</b>	
<b>Telephone:</b>	+39 035 4188501 , +39 3666381896
<b>Email:</b>	<a href="mailto:stefano.petro@giostyle.com">stefano.petro@giostyle.com</a> , <a href="mailto:marzia.peruta@giostyle.com">marzia.peruta@giostyle.com</a> , <a href="mailto:christian.abbadini@giostyle.com">christian.abbadini@giostyle.com</a>
<b>Web address:</b>	<a href="http://www.giostyle.com/">www.giostyle.com/</a>

## Specifications

<b>Nominal capacity (Liter):</b>	0.4 L	<b>Weight empty (g):</b>	50 g
<b>Rated water content (Liter)</b>	0.38 L	<b>Weight filled (g):</b>	420 g
<b>External dimensions (mm):</b>	165 x 93 x 33 mm		
<b>Minimum order:</b>	64 units	<b>Pieces per carton:</b>	60 units
<b>Year base price:</b>	2016	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	60 units or more: 0.80 USD per unit	<b>Volume per carton (m3):</b>	0.040 m3
		<b>Weight per carton (kg):</b>	4 kg
<b>Test report:</b>	WHO-10-014	<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 29 May 2014	<b>Valid until :</b>	May, 2023
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E005: Coolant packs for insulated containers

<b>PQS code:</b>	<b>E005/020</b>
<b>Description:</b>	Ice Pack 0.3L
<b>Manufacturer's reference:</b>	WP-0.3L
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Leff International Trading Co Ltd 10, Yan er'dao Road Qingdao 266000 P.R.China
<b>Address:</b>	
<b>Telephone:</b>	+ 86 532 88961819
<b>Email:</b>	<a href="mailto:david@lefftrade.org">david@lefftrade.org</a>
<b>Web address:</b>	<a href="http://www.lefftrade.org">www.lefftrade.org</a>

## Specifications

<b>Nominal capacity (Liter):</b>	0.3 L	<b>Weight empty (g):</b>	60 g
<b>Rated water content (Liter)</b>	0.3 L	<b>Weight filled (g):</b>	360 g
<b>External dimensions (mm):</b>	163 x 90 x 30 mm		
<b>Minimum order:</b>	300	<b>Pieces per carton:</b>	300 units
<b>Year base price:</b>	2018	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	USD 0.38 - 100 units USD 0.44 - 10 units USD 0.50 - 1 unit	<b>Volume per carton (m3):</b>	0.16 CBM/CTN
		<b>Weight per carton (kg):</b>	19 KGS/CTN
<b>Test report:</b>	WB-18-385	<b>Verification laboratory:</b>	CHEARI
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 13 Nov 2018	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E005: Coolant packs for insulated containers

<b>PQS code:</b>	<b>E005/021</b>
<b>Description:</b>	Water pack 0.6L
<b>Manufacturer's reference:</b>	Feihong WP-0.3L
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Leff International Trading Co Ltd
<b>Address:</b>	10, Yan er'dao Road Qingdao 266000 P.R.China
<b>Telephone:</b>	+ 86 532 88961819
<b>Email:</b>	<a href="mailto:david@lefftrade.org">david@lefftrade.org</a>
<b>Web address:</b>	<a href="http://www.lefftrade.org">www.lefftrade.org</a>

## Specifications

<b>Nominal capacity (Liter):</b>	0.6 L	<b>Weight empty (g):</b>	85 g
<b>Rated water content (Liter)</b>	0.56 L	<b>Weight filled (g):</b>	645 g
<b>External dimensions (mm):</b>	190 x 120 x 34 mm		
<b>Minimum order:</b>	150	<b>Pieces per carton:</b>	150 units
<b>Year base price:</b>	2018	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	USD 0.58 - 100 units USD 0.64 - 10 units USD 0.7 - 1 unit	<b>Volume per carton (m3):</b>	0.16 CBM/CTN
		<b>Weight per carton (kg):</b>	14 kg/CTN
<b>Test report:</b>	WB-18-387	<b>Verification laboratory:</b>	CHEARI
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 13 Nov 2018	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E005: Coolant packs for insulated containers

<b>PQS code:</b>	<b>E005/022</b>
<b>Description:</b>	Ice Pack 0.4L
<b>Manufacturer's reference:</b>	WP-0.4L
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Leff International Trading Co Ltd 10, Yan er'dao Road Qingdao 266000 P.R.China
<b>Address:</b>	
<b>Telephone:</b>	+ 86 532 88961819
<b>Email:</b>	<a href="mailto:david@lefftrade.org">david@lefftrade.org</a>
<b>Web address:</b>	<a href="http://www.lefftrade.org">www.lefftrade.org</a>

## Specifications

<b>Nominal capacity (Liter):</b>	0.4 L	<b>Weight empty (g):</b>	60 g
<b>Rated water content (Liter)</b>	0.37 L	<b>Weight filled (g):</b>	420 g
<b>External dimensions (mm):</b>	163 x 94 x 34 mm		
<b>Minimum order:</b>	300	<b>Pieces per carton:</b>	300 units
<b>Year base price:</b>	2018	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	USD 0.42 - 100 units USD 0.48 - 10 units USD 0.54 - 1 unit	<b>Volume per carton (m3):</b>	0.17 CBM/CTN
		<b>Weight per carton (kg):</b>	20 KGS/CTN
<b>Test report:</b>	WB-18-386	<b>Verification laboratory:</b>	CHEARI
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 13 Nov 2018	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E005: Coolant packs for insulated containers

<b>PQS code:</b>	<b>E005/024</b>
<b>Description:</b>	Water-pack 0.3L
<b>Manufacturer's reference:</b>	REI-IP-03
<b>Manufactured in:</b>	India
<b>Company:</b>	Rajas Enterprises
<b>Address:</b>	Nanhera chowk, Nanhera, Kuldeep ,Nagar ,Ambala cantt [Haryana] Ambala, 133001
<b>Telephone:</b>	+91-8529999960
<b>Email:</b>	<a href="mailto:info@rajas.in">info@rajas.in</a>
<b>Web address:</b>	<a href="http://www.rajasenterprises.com">www.rajasenterprises.com</a>

## Specifications

<b>Nominal capacity (Liter):</b>	0.3 L	<b>Weight empty (g):</b>	75 gm
<b>Rated water content (Liter)</b>	0.29 L	<b>Weight filled (g):</b>	365 gm
<b>External dimensions (mm):</b>	162 mm x 90mm x 32 mm		
<b>Minimum order:</b>	100	<b>Pieces per carton:</b>	
<b>Year base price:</b>	2021	<b>Incoterms:</b>	FOB
<b>Price / unit:</b>	0.36 USD	<b>Volume per carton (m3):</b>	0.045m3
		<b>Weight per carton (kg):</b>	8 kg
<b>Test report:</b>	4789884970-01-OTHER-S1	<b>Verification laboratory:</b>	UL India Private Limited
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 28 Jun 2021	<b>Valid until :</b>	May, 2022
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E005: Coolant packs for insulated containers

<b>PQS code:</b>	<b>E005/025</b>
<b>Description:</b>	Water Pack 0.6 L
<b>Manufacturer's reference:</b>	TIP-6
<b>Manufactured in:</b>	India
<b>Company:</b>	TRIMURTI PLAST CONTAINERS PRIVATE LIMITED Street Name and No.: 31/833, GANESHNAGAR, DHANKAWADI City: PUNE Postcode: 411043 Country: INDIA
<b>Address:</b>	
<b>Telephone:</b>	+91 98331 40603; +91 98220 22312
<b>Email:</b>	<a href="mailto:exports@tpcpl.net">exports@tpcpl.net</a> ; <a href="mailto:rajesh@tpcpl.net">rajesh@tpcpl.net</a> ; <a href="mailto:raj@tpcpl.net">raj@tpcpl.net</a>
<b>Web address:</b>	<a href="http://www.tpcpl.co.in">www.tpcpl.co.in</a>

## Specifications

<b>Nominal capacity (Liter):</b>	0.6 L	<b>Weight empty (g):</b>	110 gM
<b>Rated water content (Liter)</b>	0.56 L	<b>Weight filled (g):</b>	680 gm
<b>External dimensions (mm):</b>	190 mm x 120mm x 35 mm		
<b>Minimum order:</b>	144 UNITS	<b>Pieces per carton:</b>	144
<b>Year base price:</b>	2022	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	0.60 USD	<b>Volume per carton (m3):</b>	0.13 m3
		<b>Weight per carton (kg):</b>	22 KG
<b>Test report:</b>	CE-JOB-NDA-22-000691-003	<b>Verification laboratory:</b>	Intertek India
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 17 Jul 2022	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E005: Coolant packs for insulated containers

<b>PQS code:</b>	<b>E005/026</b>
<b>Description:</b>	Water Pack 0.4 L
<b>Manufacturer's reference:</b>	TIP-4
<b>Manufactured in:</b>	India
<b>Company:</b>	TRIMURTI PLAST CONTAINERS PRIVATE LIMITED Street Name and No.: 31/833, GANESHNAGAR, DHANKAWADI City: PUNE Postcode: 411043 Country: INDIA
<b>Address:</b>	
<b>Telephone:</b>	+91 98331 40603; +91 98220 22312
<b>Email:</b>	<a href="mailto:exports@tpcpl.net">exports@tpcpl.net</a> ; <a href="mailto:rajesh@tpcpl.net">rajesh@tpcpl.net</a> ; <a href="mailto:raj@tpcpl.net">raj@tpcpl.net</a>
<b>Web address:</b>	<a href="http://www.tpcpl.co.in">www.tpcpl.co.in</a>

## Specifications

<b>Nominal capacity (Liter):</b>	0.4 L	<b>Weight empty (g):</b>	77 gm
<b>Rated water content (Liter)</b>	0.35 L	<b>Weight filled (g):</b>	427 gm
<b>External dimensions (mm):</b>	164 mm x 94mm x 33 mm		
<b>Minimum order:</b>	225	<b>Pieces per carton:</b>	225
<b>Year base price:</b>	2022	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	0.55 USD	<b>Volume per carton (m3):</b>	0.13 m3
		<b>Weight per carton (kg):</b>	22 KG
<b>Test report:</b>	CE-JOB-NDA-22-000691-002	<b>Verification laboratory:</b>	Intertek India
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 17 Jul 2022	<b>Valid until :</b>	May, 2024

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



## E005: Coolant packs for insulated containers

<b>PQS code:</b>	<b>E005/027</b>
<b>Description:</b>	Water-pack 0.3L
<b>Manufacturer's reference:</b>	TIP-3
<b>Manufactured in:</b>	India
<b>Company:</b>	TRIMURTI PLAST CONTAINERS PRIVATE LIMITED Street Name and No.: 31/833, GANESHNAGAR, DHANKAWADI City: PUNE Postcode: 411043 Country: INDIA
<b>Address:</b>	
<b>Telephone:</b>	+91 98331 40603; +91 98220 22312
<b>Email:</b>	<a href="mailto:exports@tpcpl.net">exports@tpcpl.net</a> ; <a href="mailto:rajesh@tpcpl.net">rajesh@tpcpl.net</a> ; <a href="mailto:raj@tpcpl.net">raj@tpcpl.net</a>
<b>Web address:</b>	<a href="http://www.tpcpl.co.in">www.tpcpl.co.in</a>

## Specifications

<b>Nominal capacity (Liter):</b>	0.3 L	<b>Weight empty (g):</b>	77 gm
<b>Rated water content (Liter)</b>	0.29 L	<b>Weight filled (g):</b>	377 gm
<b>External dimensions (mm):</b>	162 mm x 88mm x 33 mm		
<b>Minimum order:</b>	225	<b>Pieces per carton:</b>	225
<b>Year base price:</b>	2022	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	0.46 USD	<b>Volume per carton (m3):</b>	0.13 m3
		<b>Weight per carton (kg):</b>	22 kg
<b>Test report:</b>	CE-JOB-NDA-22-000691-001	<b>Verification laboratory:</b>	Intertek India
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 17 Jul 2022	<b>Valid until :</b>	May, 2024

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





## E005: Coolant packs for insulated containers

**PQS code:** E005/028  
**Description:** Icepack 0.6L  
**Manufacturer's reference:** FF007A Eclipse 0.6L  
**Manufactured in:** Germany  
**Company:** Gobi Technologies  
5406 Lake Washington Blvd NE  
Suite F  
**Address:** Kirkland, WA 98033  
United States of America  
**Telephone:** +49 89 310 44 84 (  
**Email:** [info@gobi.world](mailto:info@gobi.world)  
**Web address:** <https://www.gobi.world/>

## Specifications

<b>Nominal capacity (Liter):</b>	0.6 L	<b>Weight empty (g):</b>	100 g
<b>Rated water content (Liter)</b>	0.59 L	<b>Weight filled (g):</b>	683 g
<b>External dimensions (mm):</b>	190 x 120 x 34 mm (mm)		
<b>Minimum order:</b>	100 unit	<b>Pieces per carton:</b>	
<b>Year base price:</b>	2023	<b>Incoterms:</b>	EXW
<b>Price / unit:</b>	1.5 USD	<b>Volume per carton (m3):</b>	0.078m3
		<b>Weight per carton (kg):</b>	12 KG
<b>Test report:</b>	MI-22-14458-M	<b>Verification laboratory:</b>	Micom Laboratories INC.
<b>Comments:</b>			
<b>Current PQS status:</b>	pre-qualified ; 05 May 2023	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



**TITLE: Cold Chain Monitor**

<i>Product verification protocol:</i>	E06/IN02.VP.1
<i>Applies to specification ref(s):</i>	E06/IN02.1
<i>Date of origin:</i>	30 November 2006
<i>Date of last revision:</i>	Replaces PIS test procedure E6/PROC/4 dated 01.01.1998

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**1. Scope:**

This document describes the procedure for verifying the performance of cold chain monitors.

**2. Normative references:**

ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*.

*WHO Performance Specification for Cold Chain Monitors*. WHO/PQS/E06/IN02.1.

E6/PROC/4: 01.01.1998: *E6 Standard test procedures for temperature monitoring equipment: Indicators monitoring temperature and time*. In EPI Equipment performance specifications and test procedures: E6: Temperature Monitoring Devices: 25.03.2002.

**3. Terms and definitions:**

**In writing:** means communication by letter, fax or email.

**Legal Manufacturer:** The natural or legal person with responsibility for the design, manufacture, packaging and labelling of a product or device before it is placed on the market under his own name, regardless of whether these operations are carried out by that person himself or on his behalf by a third party.

**Reseller:** A commercial entity, licensed to act on behalf of a **Legal Manufacturer**, and which carries product liability and warranty responsibilities no less onerous than those carried by the **Legal Manufacturer**.

**4. Applicability:**

Type-examination must be carried out by an independent **ISO/IEC 17025** accredited testing laboratory, pre-qualified by WHO.

**5. Sample-examination checklist:**

- 5.1 *Evidence of conformity assessment:* Samples must be accompanied by a laboratory test report showing that the indicator strip has been tested in accordance with PIS test procedure E6/PROC/4 dated 01.01.1998 and conforms to the requirements of that protocol. Provide written evidence that the design and formulation of the indicator strip has not changed since the date of the test report.
- 5.2 *Samples and supporting material:* The **Legal Manufacturer** or **Reseller** must supply the testing laboratory with a full duplicate set of the Product Dossier already supplied to WHO in accordance with the requirements of specification clause 7. Twelve samples of the product are required; two in each of the languages listed in specification clause 4.10.
- 5.3 *Type-examination procedure:*
- **Step 1:** Check that the submitted test report shows conformity to the test procedure cited in clause 5.1. Record results.
  - **Step 2:** Check that the written evidence requested in clause 5.1 shows that no change has been made to the design and formulation of the indicator strip since the date of the test report. Record results.
  - **Step 3:** Check the dimensions of a random sample of five indicator backing cards against the limits set out in specification **E06/IN02.1**, clause 4.4.1. Record results.
  - **Step 4:** Check the accuracy of the printed text in the six target languages against the requirements set out in specification **E06-IN02**, clauses 4.2.5 and 4.2.6. Record results.
  - **Step 5:** Check the ability of the card surface to receive and to retain writing in pencil, ball point pen, water-soluble and spirit-soluble marker pen in accordance with **E06/IN02.1**, clauses 4.6.2. Record results.
  - **Acceptance criteria:** Test report indicates conformity with the requirements of PIS E6/PROC/4 dated 01.01.1998. Written evidence indicates no changes to design and formulation of the indicator strip. Card dimensions within specified limits. Text and graphic design correct in all six language versions. Card capable of receiving and retaining markings using the four specified types of writing implement.
- 5.4 *Criteria for qualification:* A final report must be issued after the type-examination is complete. The report must contain the following data and analyses:
- **Summary:** Conclusions and recommendations.

- **Type-examination:** Comments on samples received, tabulated data and photographs of samples. Copy of the original PIS E6/PROC/4 test report. Copy of the submitted written evidence that the design and formulation of the indicator strip has not changed since the date of the test report.
- **Annexes:** Additional supporting documentation requested and received from the Legal Manufacturer or Reseller during the course of the type-examination.

## 6. Quality control checklist:

- 6.1 Quality control standards: All testing and reporting must be carried out in accordance with the requirements of [ISO 17025:2005](#) or later edition.
- 6.2 Quality control checklist: An on-site inspection of the manufacturing plant is not required.

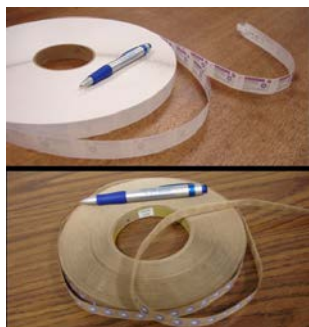
## 7. Pre-qualification evaluation:

A product will qualify for inclusion on the register of PQS pre-qualified Cold Chain Monitors in accordance with WHO procedures provided the final report indicates full conformity with the requirements of specification **E06/IN02.1**.

## 8. Modified products:

The [legal manufacturer](#) or [reseller](#) must notify WHO [in writing](#) of any changes which affect the performance of the product. WHO will carry out a desk evaluation of the reported change(s). If any change is deemed adversely to affect the performance of the product, WHO may request full or partial re-verification based on the test procedures described in this document.

Revision history:			
Date	Change summary	Reason for change	Approved
29 Nov 2006	Re-drafted as a type-examination protocol	To achieve conformity with PQS documentation standards	UK (30 Nov 2006 - PQS secretariat)



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/001</b>
<b>Description:</b>	Vaccine Vial Monitor Type 2
<b>Manufacturer's ref:</b>	HEATmarker® VVM 2
<b>Manufactured in:</b>	United States
<b>Company:</b>	Temptime Corporation, A Zebra Technologies Company
<b>Address:</b>	116 American Road, Morris Plains, NJ, 07950, United States
<b>Telephone:</b>	+1 973 630 6000
<b>Email:</b>	<a href="mailto:TempMonitoring@zebra.com">TempMonitoring@zebra.com</a>
<b>Web address:</b>	<a href="http://www.zebra.com/tempmonitoring">www.zebra.com/tempmonitoring</a>

## Specifications

<b>Product type:</b>	Vaccine vial monitor	<b>Main material:</b>	See components
<b>Mode of operation:</b>	Chemical	<b>Dimensions:</b>	1 cm dot or 1.6 x 1.0 cm rectangle
<b>Minimum temperature:</b>	-12°C	<b>Weight</b>	--
<b>Maximum temperature:</b>	+93°C	<b>Display medium:</b>	Color change
<b>Time to endpoint 37°C:</b>	2	<b>Time to endpoint 25°C:</b>	0
<b>Time to endpoint 5°C:</b>			
	<b>Full label</b>	<b>Dot</b>	
<b>Minimum order :</b>	500,000	50,000	
<b>Standard label size:</b>	20 mm x 44 mm	10 mm dot (circle)	
	57 mm x 15 mm	16 mm 10 mm (rectangular)	
	48 mm x 18 mm		
<b>Indicators per roll:</b>	10,000	10,000	
<b>Core size:</b>	76 mm	76 mm	
<b>Comments:</b>	There are two presentations of VVM Full Labels are made on a 38#, semi-gloss white, lightweight, calendered, wood free printing paper face sheet. The adhesive of the face sheet can be a rubber based solvent adhesive with a service temperature range of -40°F to +175°F or a rubber based hot melt adhesive with a service temperature range of -50°F to +120°F. The face sheet with adhesive is removed from either a 44# bleached glassine liner or #40 bleached kraft liner. Dots are made on corona-treated, flexible, opaque white polyolefin film. The adhesive is clear, permanent and designed for prime labeling applications with a service temperature range -40°F to +200°F. The minimum application temperature is +10°F. The face sheet is removed from a 44#, poly-coated natural kraft (brown) paper stock for roll-to-roll applications. This liner is specifically designed for high speed automatic label dispensing applications. The face sheet has a 1mil, polypropylene, clear self-wound overlaminated with a permanent acrylic adhesive. This film is not designed for printing. More information on VVM is provided in the catalogue		
<b>Price per unit:</b>	On request to manufacturer	<b>Incoterms:</b>	EXW
<b>Quality standard:</b>	;#ISO 9001:2008;#		
<b>Verification report:</b>	A65155	<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified; 30 Sep 2007	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/004</b>
<b>Description:</b>	Cold chain monitor
<b>Manufacturer's ref:</b>	Vaccine cold chain monitor shipment record
<b>Manufactured in:</b>	Switzerland
<b>Company:</b>	Berlinger & Co. AG
<b>Address:</b>	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland
<b>Telephone:</b>	+41 (71) 982 88 11
<b>Email:</b>	<a href="mailto:info@berlinger.com">info@berlinger.com</a> ,
<b>Web address:</b>	<a href="http://www.berlinger.com">http://www.berlinger.com</a>

## Specifications

<b>Product type:</b>	Cold chain monitor	<b>Display medium:</b>	---
<b>Mode of operation:</b>	Chemical	<b>Weight</b>	0.006 kg
<b>Minimum temperature:</b>		<b>Main material:</b>	Card
<b>Maximum temperature:</b>		<b>Dimensions:</b>	12 x 15 cm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	N/A	<b>Min logging interval:</b>	N/A
<b>Power source:</b>	Passive device	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	N/A	<b>User interface:</b>	N/A
<b>Battery shelf life:</b>	N/A	<b>Programmability:</b>	Not applicable
<b>Activated life:</b>	N/A	<b>IP rating:</b>	N/A
<b>Memory capacity:</b>	N/A		
<b>Comments:</b>	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		
<b>Minimum order:</b>	500	<b>Year base price:</b>	2022
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	250
<b>Price per unit:</b>	Price at 500 units: 7.10 USD per unit	<b>Volume per carton:</b>	0.010 m3
		<b>Weight per carton:</b>	1.84 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	Wolff Laboratory (1988)	<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified ; 30 Sep 2007	<b>Valid until:</b>	May, 2023

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/006</b>
<b>Description:</b>	User prg temperature data logger
<b>Manufacturer's ref:</b>	Logtag TRIX-8
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	LogTag Recorders Limited
<b>Address:</b>	PO Box 362-95, Northcote, Auckland, New Zealand

**Telephone:** +64 9 444 5881  
**Email:** [sales@logtagrecorders.com](mailto:sales@logtagrecorders.com)  
**Web address:** [www.logtagrecorders.com](http://www.logtagrecorders.com)

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LED
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.035 kg
<b>Minimum temperature:</b>	-40°C	<b>Main material:</b>	Polycarbonate
<b>Maximum temperature:</b>	+85°C	<b>Dimensions:</b>	8.5 x 5.4 x 0.85 cm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	± 0.5°C	<b>Min logging interval:</b>	30 seconds
<b>Power source:</b>	Battery 3V	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Lithium 3V	<b>User interface:</b>	Logtag interface + software
<b>Battery shelf life:</b>	up to 10 years	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	36 months	<b>IP rating:</b>	IP65
<b>Memory capacity:</b>	8000 point		
<b>Comments:</b>	<p>The LogTag TRIX18 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.</p>		
<b>Minimum order:</b>	20	<b>Year base price:</b>	2013
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	50
<b>Price per unit:</b>	20-99 units: 27.40 € 100+ units: on request to manufacturer	<b>Volume per carton:</b>	0.0051m3
		<b>Weight per carton:</b>	1.9 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	TUV 21123235_001	<b>Verification laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Current PQS status:</b>	pre-qualified ; 22 Jan 2008	<b>Valid until:</b>	May, 2023
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			

**E006: Temperature monitoring devices**

<b>PQS code:</b>	<b>E006/007</b>
<b>Description:</b>	Electronic freeze indicator
<b>Manufacturer's ref:</b>	Freeze-tag
<b>Manufactured in:</b>	Malaysia
<b>Company:</b>	Berlinger & Co. AG
<b>Address:</b>	Mitteldorfstrasse 2, CH-9608 Ganterischwil, Switzerland
<b>Telephone:</b>	+41 (71) 982 88 11
<b>Email:</b>	<a href="mailto:info@berlinger.com">info@berlinger.com</a> ,
<b>Web address:</b>	<a href="http://www.berlinger.com">http://www.berlinger.com</a>

**Specifications**

<b>Product type:</b>	Irreversible freeze indicator	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.014 kg
<b>Minimum temperature:</b>	-20°C	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	+50°C	<b>Dimensions:</b>	5.0 x 3.1 x 1.05 cm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/- 0.5°C	<b>Min logging interval:</b>	---
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Lithium coin cell	<b>User interface:</b>	LCD screen
<b>Battery shelf life:</b>	60 months from manufacture date	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	Device always active	<b>IP rating:</b>	67
<b>Memory capacity:</b>	N/A		
<b>Comments:</b>	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 than 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		
<b>Minimum order:</b>	500	<b>Year base price:</b>	2022
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	500
<b>Price per unit:</b>	8.90 USD per unit	<b>Volume per carton:</b>	0.031 m3
		<b>Weight per carton:</b>	7.50 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	151-04141	<b>Verification laboratory:</b>	METAS
<b>Current PQS status:</b>	pre-qualified ; 27 May 2008	<b>Valid until:</b>	May, 2023

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





## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/009</b>
<b>Description:</b>	Electronic freeze indicator
<b>Manufacturer's ref:</b>	FreezeAlert TM
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Sensitech Inc.
<b>Address:</b>	A Business Unit of Carrier Corporation, Suite 258X, 800 Cummings Center. Beverly, MA 01915 United States
<b>Telephone:</b>	+1 978 - 927- 7033
<b>Email:</b>	<a href="mailto:adeleo@carrier.com">adeleo@carrier.com</a> , <a href="mailto:mmarks@carrier.com">mmarks@carrier.com</a> ,
<b>Web address:</b>	<a href="http://www.sensitech.com">http://www.sensitech.com</a>

## Specifications

<b>Product type:</b>	Irreversible freeze indicator	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.014 kg
<b>Minimum temperature:</b>	---	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	+55°C	<b>Dimensions:</b>	5.15 x 3.5 x 1.0 cm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/-0.5°C	<b>Min logging interval:</b>	N/A
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Lithium coin-cell	<b>User interface:</b>	Start button switch
<b>Battery shelf life:</b>	can be stored inactivated for 12 months	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	36 months (if stored for maximum 12 months)	<b>IP rating:</b>	IP64
<b>Memory capacity:</b>	N/A		
<b>Comments:</b>	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		
<b>Minimum order:</b>	500	<b>Year base price:</b>	2009
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	1000
<b>Price per unit:</b>	500 units: 4.53 US\$; 1000 units: 3.89 US\$ 5000 units: 3.64 US\$ 10 000 units: 3.40 US\$	<b>Volume per carton:</b>	0.066 m3
		<b>Weight per carton:</b>	15.3 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	S09EEC00004/C/BL/CEG Feb 2009	<b>Verification laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Current PQS status:</b>	pre-qualified ; 03 Mar 2009	<b>Valid until:</b>	May, 2023

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/010</b>
<b>Description:</b>	40 day Electronic shipping indicator
<b>Manufacturer's ref:</b>	VaxAlert TM
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Sensitech Inc.
<b>Address:</b>	A Business Unit of Carrier Corporation, Suite 258X, 800 Cummings Center. Beverly, MA 01915 United States
<b>Telephone:</b>	+1 978 - 927- 7033
<b>Email:</b>	<a href="mailto:adeleo@carrier.com">adeleo@carrier.com</a> , <a href="mailto:mmarks@carrier.com">mmarks@carrier.com</a> ,
<b>Web address:</b>	<a href="http://www.sensitech.com">http://www.sensitech.com</a>

## Specifications

<b>Product type:</b>	40 day Electronic shipping indicator	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.015
<b>Minimum temperature:</b>	-30°	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	+55°c	<b>Dimensions:</b>	9.89 x 5.80 x 1.75
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/-0.5°C	<b>Min logging interval:</b>	1 mn
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Not replaceable single use	<b>User interface:</b>	Device itself
<b>Battery shelf life:</b>	18 mths	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	Minimum 20 days	<b>IP rating:</b>	65
<b>Memory capacity:</b>	--		
<b>Comments:</b>	VaxalertTM is an electronic temperature indicator. It provides alarm status and alarm history. There are three types of Vaxalert (Type 1, Type 2, Type Prevar and Type Rotateg). 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		
<b>Minimum order:</b>	20	<b>Year base price:</b>	2009
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	20
<b>Price per unit:</b>	20-100 units: 17.5 US\$; 101-1000 units: 14 US\$ 1001 - 3000 units: 11.75 US\$ 3000 units and more: on request	<b>Volume per carton:</b>	0.0044 m3
		<b>Weight per carton:</b>	6.8 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	S09EEC00004/A/BL/CEG	<b>Verification laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Current PQS status:</b>	pre-qualified ; 08 May 2009	<b>Valid until:</b>	May, 2023

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/013</b>
<b>Description:</b>	30-day electronic temperature logger
<b>Manufacturer's ref:</b>	VaxTag 30-day electronic temperature logger
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	LogTag Recorders Limited
<b>Address:</b>	PO Box 362-95, Northcote, Auckland, New Zealand
<b>Telephone:</b>	+64 9 444 5881
<b>Email:</b>	<a href="mailto:sales@logtagrecorders.com">sales@logtagrecorders.com</a>
<b>Web address:</b>	<a href="http://www.logtagrecorders.com">www.logtagrecorders.com</a>

## Specifications

<b>Product type:</b>	30-day electronic refrigerator temperature logger	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.043 kg
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	Polycarbonate
<b>Maximum temperature:</b>	+60°C	<b>Dimensions:</b>	9.30 x 5.45 x 0.86 cm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/- 0.5°C	<b>Min logging interval:</b>	30 seconds
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Lithium	<b>User interface:</b>	Standard Logtag interface cradle
<b>Battery shelf life:</b>		<b>Programmability:</b>	Not applicable
<b>Activated life:</b>	2-3 years	<b>IP rating:</b>	IP 65
<b>Memory capacity:</b>	7770 data points		
<b>Comments:</b>	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.		
<b>Minimum order:</b>	20	<b>Year base price:</b>	2013
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	50
<b>Price per unit:</b>	20 - 99 units: 40.80 USD 100+ units: on request	<b>Volume per carton:</b>	0.0051m3
		<b>Weight per carton:</b>	2.5 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	A66604	<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified ; 19 May 2011	<b>Valid until:</b>	May, 2023

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/014</b>
<b>Description:</b>	Electronic shipping indicator Q-Tag CLm
<b>Manufacturer's ref:</b>	Q-Tag CLm
<b>Manufactured in:</b>	Switzerland
<b>Company:</b>	Berlinger & Co. AG
<b>Address:</b>	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland
<b>Telephone:</b>	+41 (71) 982 88 11
<b>Email:</b>	<a href="mailto:info@berlinger.com">info@berlinger.com</a> ,
<b>Web address:</b>	<a href="http://www.berlinger.com">http://www.berlinger.com</a>

## Specifications

<b>Product type:</b>	Electronic shipping indicator	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.030 kg
<b>Minimum temperature:</b>	- 30°C	<b>Main material:</b>	Non-corrodible plastics (ABS)
<b>Maximum temperature:</b>	+ 55°C	<b>Dimensions:</b>	8.5 x 5.5 x 1.15 cm (without the card)

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	+/- 0.5°C	<b>Min logging interval:</b>	1 min
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Lithium coin cell	<b>User interface:</b>	LCD Stop / Info buttons
<b>Battery shelf life:</b>	60 months from manufacture date	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	40 days	<b>IP rating:</b>	64
<b>Memory capacity:</b>	N/A		

### 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

<b>Minimum order:</b>	100	<b>Year base price:</b>	2022
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	42
<b>Price per unit:</b>	Price at 100 units: 23.35 USD per unit	<b>Volume per carton:</b>	0.004 m3
		<b>Weight per carton:</b>	1.78 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	VA11-02742B	<b>Verification laboratory:</b>	Roth & CO AG
<b>Current PQS status:</b>	pre-qualified ; 29 Jun 2012	<b>Valid until:</b>	May, 2023

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/015</b>
<b>Description:</b>	Electronic freeze indicator Q-Tag Quad
<b>Manufacturer's ref:</b>	Q-Tag Quad
<b>Manufactured in:</b>	Switzerland
<b>Company:</b>	Berlinger & Co. AG
<b>Address:</b>	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland
<b>Telephone:</b>	+41 (71) 982 88 11
<b>Email:</b>	<a href="mailto:info@berlinger.com">info@berlinger.com</a> ,
<b>Web address:</b>	<a href="http://www.berlinger.com">http://www.berlinger.com</a>

## Specifications

<b>Product type:</b>	Irreversible freeze indicator	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.016 kg
<b>Minimum temperature:</b>	- 30°C	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	+ 55°C	<b>Dimensions:</b>	5.3 x 3.9 x 1.1 cm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	+/- 0.5 °C	<b>Min logging interval:</b>	Preset 1 minute
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Lithium coin cell	<b>User interface:</b>	LCD Start/Stop button
<b>Battery shelf life:</b>	60 mths from manufacture date	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	60 mths from manufacture date	<b>IP rating:</b>	67
<b>Memory capacity:</b>	N/A		

<b>Comments:</b>	<p>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.</p> <p>Function: This irreversible temperature indicator consists of an electronic temperature measuring circuit with associated LCD display. 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.</p> <p>Discounts apply for large orders</p>
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<b>Minimum order:</b>	100	<b>Year base price:</b>	2022
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	100
<b>Price per unit:</b>	Price at 100 units: 11.65 USD per unit	<b>Volume per carton:</b>	0.004 m3
		<b>Weight per carton:</b>	1.78 kg
		<b>Incoterms:</b>	EXW

<b>Verification report:</b>	VA11-02742 A	<b>Verification laboratory:</b>	Roth & CO AG
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<b>Current PQS status:</b>	<i>pre-qualified ; 29 Jun 2012</i>	<b>Valid until:</b>	<i>May, 2023</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/016</b>
<b>Description:</b>	Electronic shipping indicator Q-Tag CLM doc
<b>Manufacturer's ref:</b>	Q-Tag CLM doc
<b>Manufactured in:</b>	Switzerland
<b>Company:</b>	Berlinger & Co. AG
<b>Address:</b>	Mitteldorfstrasse 2, CH-9608 Ganterischwil, Switzerland
<b>Telephone:</b>	+41 (71) 982 88 11
<b>Email:</b>	<a href="mailto:info@berlinger.com">info@berlinger.com</a> ,
<b>Web address:</b>	<a href="http://www.berlinger.com">http://www.berlinger.com</a>

## Specifications

<b>Product type:</b>	40 day Electronic Shipping Indicator	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.036 kg
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	+60°C	<b>Dimensions:</b>	9.4 x 5.4 x 1.2 cm (without card)
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/- 0.5°C	<b>Min logging interval:</b>	preset 1 min
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Lithium coin cell	<b>User interface:</b>	LCD
<b>Battery shelf life:</b>	24 months from manufacture date	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	40 days	<b>IP rating:</b>	65
<b>Memory capacity:</b>	N/A		
<b>Comments:</b>	<p>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.</p> <p>Accessories:</p> <ul style="list-style-type: none"> <li>- Data verification with Berlinger Verifier</li> <li>- Data management with Berlinger Smartview</li> </ul> <p>All devices are delivered with NIST/LAC traceable certificate Discounts apply for large orders</p>		
<b>Minimum order:</b>	20	<b>Year base price:</b>	2020
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	42
<b>Price per unit:</b>	Price at 20 units: 40.95 USD per unit	<b>Volume per carton:</b>	0.004 m3
		<b>Weight per carton:</b>	1.69 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	VA11-02742C1	<b>Verification laboratory:</b>	Roth & CO AG
<b>Current PQS status:</b>	pre-qualified ; 04 Jul 2012	<b>Valid until:</b>	May, 2023

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



## **E006:**      **Temperature monitoring devices**

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**PQS code:**                      **E006/019**

**Description:**                      Remote Temperature Monitoring Device

**Manufacturer's ref:**              SmartLine

**Manufactured in:**                Netherlands

**Company:**                        Berlinger & Co. AG

**Address:**                         Mitteldorfstrasse 2,  
CH-9608 Ganterischwil,  
Switzerland

*Telephone:*                        +41 (71) 982 88 11

*Email:*                              [info@berlinger.com](mailto:info@berlinger.com),

*Web address:*                    <http://www.berlinger.com>

# Specifications

<b>Product type:</b>	Remote Temperature Monitoring Device	<b>Display medium:</b>	computer online
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	
<b>Minimum temperature:</b>	-40°C	<b>Main material:</b>	Metals and ABS
<b>Maximum temperature:</b>	+85°C	<b>Dimensions:</b>	
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	±0.5°C	<b>Min logging interval:</b>	10 sec
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Lithium	<b>User interface:</b>	web based system
<b>Battery shelf life:</b>	36 months from manufacture date	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	36 months from manufacture date	<b>IP rating:</b>	67/65
<b>Memory capacity:</b>	8,192 data points per sensor		
<b>Comments:</b>	<p>SmartLine is a set of wireless data loggers that provide fully automated data collection of temperature conditions, eliminating manual activities and significantly improving process efficiency. SmartLine is made up of 3 key components: SmartPoint devices communicate with a wireless mesh network consisting of a SmartGate and SmartRouters that extend the range of the communication.</p> <p>Smartline is a wireless temperature monitoring network for cold rooms or facility temperature monitoring -an easy to install wireless network of sensors provides wireless communication for continuous temperature monitoring. This network communicates with battery operated wireless temperature sensors that will be placed in storage facilities. These sensors contain a temperature and/or humidity sensor, and also function as wireless data loggers. The measured data is uploaded to and analyzed by a secured central database. In case of a temperature excursion or a door left open in your cold room or facility, a flashing light turns on as well as automated e-mail and/or SMS alert are going to be send out to user configurable addresses.</p> <p>SmartView web application: a flexible web-based software platform that collects the data from multiple Smartline locations into an integrated real-time view. The software platform creates a dashboard view with real-time visibility, alerts, history reports, and several analysis options. It is accessible in your web browser (login and password). The alarm is visual and audible</p>		
<b>Minimum order:</b>	1	<b>Year base price:</b>	2022
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	
<b>Price per unit:</b>	Hardware USD 2'212 for a small Walk In Cold Room	<b>Volume per carton:</b>	
		<b>Weight per carton:</b>	
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>		<b>Verification laboratory:</b>	METAS
<b>Current PQS status:</b>	pre-qualified ; 24 Jan 2013	<b>Valid until:</b>	May, 2023
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			





## **E006:**      **Temperature monitoring devices**

**PQS code:**                      **E006/020**

**Description:**                      30 day electronic temperature logger

**Manufacturer's ref:**              Fridge-tag 2

**Manufactured in:**                Switzerland/Malaysia

**Company:**                        Berlinger & Co. AG

**Address:**                         Mitteldorfstrasse 2,  
CH-9608 Ganterischwil,  
Switzerland

*Telephone:*                        +41 (71) 982 88 11

*Email:*                               [info@berlinger.com](mailto:info@berlinger.com),

*Web address:*                    <http://www.berlinger.com>

# Specifications

<b>Product type:</b>	30-day electronic refrigerator temperature logger	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.109 kg
<b>Minimum temperature:</b>	-40°C	<b>Main material:</b>	Non-corrodible plastic (ABS)
<b>Maximum temperature:</b>	+60°C	<b>Dimensions:</b>	12.8 x 7.5 x 1.9 cm

## MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	±0.5°C	<b>Min logging interval:</b>	1 min
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Lithium coin cell	<b>User interface:</b>	LCD
<b>Battery shelf life:</b>	42 months from manufacturing date	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	42 months from manufacturing date	<b>IP rating:</b>	64
<b>Memory capacity:</b>	N/A		

<b>Comments:</b>	<p>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.</p> <p>FREE Apps:          The Fridge Tag 2 has been verified to be compatible with the free Varo Android application &lt;<a href="https://varo-app.org/">https://varo-app.org/</a>&gt;, 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 &lt;<a href="https://pogo-lt.org/">https://pogo-lt.org/</a>&gt;. 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.</p>		
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<b>Minimum order:</b>	20	<b>Year base price:</b>	2022
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	32
<b>Price per unit:</b>	48.00 USD per unit	<b>Volume per carton:</b>	0.009 m3
		<b>Weight per carton:</b>	4.63 kg
		<b>Incoterms:</b>	EXW

<b>Verification report:</b>	VA 13-00120	<b>Verification laboratory:</b>	Roth & CO AG
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<b>Current PQS status:</b>	<i>pre-qualified ; 31 Jan 2013</i>	<b>Valid until:</b>	<i>May, 2023</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/021</b>
<b>Description:</b>	40 day electronic shipping indicator
<b>Manufacturer's ref:</b>	TIC20 - WA/B & TIC20 - WC
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	LogTag Recorders Limited
<b>Address:</b>	PO Box 362-95, Northcote, Auckland, New Zealand
<b>Telephone:</b>	+64 9 444 5881
<b>Email:</b>	<a href="mailto:sales@logtagrecorders.com">sales@logtagrecorders.com</a>
<b>Web address:</b>	<a href="http://www.logtagrecorders.com">www.logtagrecorders.com</a>

## Specifications

<b>Product type:</b>	40 day Electronic Shipping Indicator	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.0293 kg
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	Polycarbonate
<b>Maximum temperature:</b>	+55°C	<b>Dimensions:</b>	7.33 x 5.45 x 0.83 cm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	±0.5°C ((-5 to 25°C)	<b>Min logging interval:</b>	6 min
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	LiMg non replaceable	<b>User interface:</b>	LCD
<b>Battery shelf life:</b>	1 1/2 year	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	7 months	<b>IP rating:</b>	65
<b>Memory capacity:</b>	N/A		
<b>Comments:</b>	<p>The LogTag TIC20 is a irreversible electronic temperature indicator for use in monitoring temperature &amp; 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.</p> <p>Order codes :</p> <p>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)).</p> <p>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.</p> <p>TIC20-WR : WHO type Rotateq only</p> <p>TIC20-WP : WHO type Prevenar only for Prevenar 7-valent conjugated vaccine (4 packs = 200 units, 0.031m3, 8.5kg)</p>		
<b>Minimum order:</b>	20	<b>Year base price:</b>	2013
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	50
<b>Price per unit:</b>	20-49 units: 24.00 USD 50+units: on request	<b>Volume per carton:</b>	0.006m3
		<b>Weight per carton:</b>	2kg
		<b>Incoterms:</b>	FOB
<b>Verification report:</b>	7191045935-EEC12/02	<b>Verification laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Current PQS status:</b>	pre-qualified ; 06 Mar 2013	<b>Valid until:</b>	May, 2023

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/022</b>
<b>Description:</b>	User programmable temperature data logger CB
<b>Manufacturer's ref:</b>	LIBERO CB
<b>Manufactured in:</b>	Switzerland
<b>Company:</b>	ELPRO-BUCHS AG
<b>Address:</b>	Langaulistrasse 45 9470 Buchs Suisse
<b>Telephone:</b>	+41 81 552 08 08
<b>Email:</b>	<a href="mailto:andrea.bischof@elpro.com">andrea.bischof@elpro.com</a>
<b>Web address:</b>	<a href="http://www.elpro.com/">http://www.elpro.com/</a>

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.038 kg
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	+80°C	<b>Dimensions:</b>	9.6 x 3.7 x 1.1 cm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	± 0.3°C	<b>Min logging interval:</b>	1 min, user programmable
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	CR Lithium	<b>User interface:</b>	USB for computer
<b>Battery shelf life:</b>	min 1 year (no activation)	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	12 months	<b>IP rating:</b>	65
<b>Memory capacity:</b>	8800 data points		

Accessories:  
\* freeware  
- liberoCONFIG - Configuration Software\*  
- LIBERO SmartStart - Quick Configuration Tool\*  
- liberoMANAGER - Online Cold Chain Database  
- elproVIEWER - Analysis Software\*  
- elproASSISTANT - Task Manager

**Comments:** 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

<b>Minimum order:</b>	40	<b>Year base price:</b>	2013
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 17025 -	<b>Pieces per carton:</b>	40
<b>Price per unit:</b>	40+ = 30.00USD; 120+ = 28.50USD 600+ = 27.00USD; 1000+ = on request	<b>Volume per carton:</b>	0.003m3
		<b>Weight per carton:</b>	1.67kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	SAS SCS 25 March 2010	<b>Verification laboratory:</b>	METAS
<b>Current PQS status:</b>	pre-qualified ; 10 Jul 2013	<b>Valid until:</b>	May, 2023

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/023</b>
<b>Description:</b>	User programmable temperature data logger CS
<b>Manufacturer's ref:</b>	LIBERO CS
<b>Manufactured in:</b>	Switzerland
<b>Company:</b>	ELPRO-BUCHS AG
<b>Address:</b>	Langaulistrasse 45 9470 Buchs Suisse
<b>Telephone:</b>	+41 81 552 08 08
<b>Email:</b>	<a href="mailto:andrea.bischof@elpro.com">andrea.bischof@elpro.com</a>
<b>Web address:</b>	<a href="http://www.elpro.com/">http://www.elpro.com/</a>

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.038kg
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	+80°C	<b>Dimensions:</b>	9.6 x 3.7 x 1.1 cm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	± 0.3°C	<b>Min logging interval:</b>	1 min, user programmable
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	CR Lithium	<b>User interface:</b>	USB for computer
<b>Battery shelf life:</b>	min 1 year (no activation)	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	1 year	<b>IP rating:</b>	IP 65
<b>Memory capacity:</b>	8800 data		
<b>Accessories:</b> * freeware - liberoCONFIG - Configuration Software* - LIBERO SmartStart - Quick Configuration Tool* - liberoMANAGER - Online Cold Chain Database - elproVIEWER - Analysis Software* - elproASSISTANT - Task Manager			
<b>Comments:</b>	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		
<b>Minimum order:</b>	40	<b>Year base price:</b>	2013
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 17025 -	<b>Pieces per carton:</b>	40
<b>Price per unit:</b>	40+ = 40.00USD; 120+ = 38.00USD 600+ = 36.00USD 1000+ = on request to manufacturer	<b>Volume per carton:</b>	0.003m3
		<b>Weight per carton:</b>	1.67 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	SAS SCS 122	<b>Verification laboratory:</b>	METAS
<b>Current PQS status:</b>	pre-qualified ; 11 Jul 2013	<b>Valid until:</b>	May, 2023

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/028</b>
<b>Description:</b>	User programmable temperature data logger
<b>Manufacturer's ref:</b>	TT4 USB Multi-Alarm Monitor
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Sensitech Inc.
<b>Address:</b>	A Business Unit of Carrier Corporation, Suite 258X, 800 Cummings Center. Beverly, MA 01915 United States
<b>Telephone:</b>	+1 978 - 927- 7033
<b>Email:</b>	<a href="mailto:adeleo@carrier.com">adeleo@carrier.com</a> , <a href="mailto:mmarks@carrier.com">mmarks@carrier.com</a> ,
<b>Web address:</b>	<a href="http://www.sensitech.com">http://www.sensitech.com</a>

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	71 grams
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	+70°C	<b>Dimensions:</b>	10.0cm L x 5.5cm W x 2.1cm H
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	±0.5°C(-20°C to 45°C); ±1.0°C(-30°C to -20°C); option ±0.2°C at 0°C	<b>Min logging interval:</b>	10 seconds
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	3.6 V lithium battery	<b>User interface:</b>	LCD + PC interfaceUSB 2.0
<b>Battery shelf life:</b>	1 year	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	12 months	<b>IP rating:</b>	IP67
<b>Memory capacity:</b>	16000 data points		
<b>Comments:</b>	TT4 USB Multi-Alarm monitor (single use) offers a highly flexible alarm design that provides users the ability to program up to six (6) independent time-and-temperature alarm thresholds that can be any combination of four (4) different alarm types: 1). Single temperature limit (high or low) 2). Single Temperature Range Alarm consisting of a lower and upper temperature limit 3). Dual Temperature Range Alarm that links two temperature ranges to the same time threshold and 4). Time only Alarm. Included in the downloaded time-and-temperature data is the NIST traceable Certificate of Validation.		
<b>Minimum order:</b>	20	<b>Year base price:</b>	2014
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	20
<b>Price per unit:</b>	20-100 units: 37.50 USD; 101-500 units: 35.50 USD	<b>Volume per carton:</b>	0.0044 m3
	501-1000 units: 35.25 USD	<b>Weight per carton:</b>	1.4 kg
	>1000 units: on request	<b>Incoterms:</b>	EXW
<b>Verification report:</b>	PO:37450; JN: T-49508-11	<b>Verification laboratory:</b>	Tektronix Service Solutions
<b>Current PQS status:</b>	<i>pre-qualified ; 04 Jul 2014</i>		<b>Valid until:</b> <i>May, 2022</i>

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

**E006: Temperature monitoring devices**

<b>PQS code:</b>	<b>E006/029</b>
<b>Description:</b>	40 day electronic shipping indicator
<b>Manufacturer's ref:</b>	VaxAlertTM USB
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Sensitech Inc.
<b>Address:</b>	A Business Unit of Carrier Corporation, Suite 258X, 800 Cummings Center. Beverly, MA 01915 United States
<b>Telephone:</b>	+1 978 - 927- 7033
<b>Email:</b>	<a href="mailto:adeleo@carrier.com">adeleo@carrier.com</a> , <a href="mailto:mmarks@carrier.com">mmarks@carrier.com</a> ,
<b>Web address:</b>	<a href="http://www.sensitech.com">http://www.sensitech.com</a>

**Specifications**

<b>Product type:</b>	40 day Electronic shipping indicator	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	70.9g
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	+55°C	<b>Dimensions:</b>	10.1 x 5.6 x 1.96

**MECHANICAL AND ELECTRONIC DEVICES ONLY**

<b>Accuracy:</b>	±0.5°C between -5°C and +25°C	<b>Min logging interval:</b>	pre-set 2 min
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	3.6V Lithium	<b>User interface:</b>	LCD and PC downloadable
<b>Battery shelf life:</b>	24 mths	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	12 mths	<b>IP rating:</b>	64
<b>Memory capacity:</b>	16 000 data points		

<b>Comments:</b>	<p>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.</p> <p>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.</p>
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<b>Minimum order:</b>	20	<b>Year base price:</b>	2014
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	20
<b>Price per unit:</b>	19.00€ per unit	<b>Volume per carton:</b>	
		<b>Weight per carton:</b>	1.04
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	ACS-E14535	<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified ; 18 Dec 2014	<b>Valid until:</b>	May, 2023

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





## E006: Temperature monitoring devices

**PQS code:** E006/030

**Description:** Electronic Shipping Indicator

**Manufacturer's ref:** Q-tag® CLm doc L

**Manufactured in:** Switzerland

**Company:** Berlinger & Co. AG

**Address:** Mitteldorfstrasse 2,  
CH-9608 Ganterischwil,  
Switzerland

**Telephone:** +41 (71) 982 88 11

**Email:** [info@berlinger.com](mailto:info@berlinger.com),

**Web address:** <http://www.berlinger.com>

## Specifications

<b>Product type:</b>	40 day Electronic Shipping Indicator	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.036 kg
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	+60°C	<b>Dimensions:</b>	9.4 x 5.4 x 1.2 cm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	±0.5°C	<b>Min logging interval:</b>	1 min to 1 hour
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Lithium coin cell	<b>User interface:</b>	LCD + PC downloadable
<b>Battery shelf life:</b>	24 months from manufacture date	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	40 days	<b>IP rating:</b>	65
<b>Memory capacity:</b>	38,000 data points		

<b>Comments:</b>	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		
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<b>Minimum order:</b>	50	<b>Year base price:</b>	2022
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	50
<b>Price per unit:</b>	Price at 20 units: 42.15 USD per unit	<b>Volume per carton:</b>	0.004 m3
		<b>Weight per carton:</b>	1.98 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	VA15-0238-10	<b>Verification laboratory:</b>	Roth & CO AG
<b>Current PQS status:</b>	pre-qualified ; 17 Apr 2015	<b>Valid until:</b>	May, 2023

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





PERFORMANCE QUALITY SAFETY



## E006: Temperature monitoring devices

**PQS code:**

**E006/036**

**Description:**

Remote Temperature Monitoring Device

**Manufacturer's ref:**

ICE3 - Model BC141

**Manufactured in:**

South Africa

**Company:**

Beyond Wireless Technology (Pty) Ltd

**Address:**

21 Cradock avenue  
Rosebank  
Johannesburg  
South Africa

**Telephone:**

+27 (0)112432960/1

**Email:**

[info@beyondwireless.co.za](mailto:info@beyondwireless.co.za)

**Web address:**

<http://beyondwireless.co.za/>

# Specifications

<b>Product type:</b>	Remote Temperature Monitoring System	<b>Display medium:</b>	Onboard LCD and Online (via internet browser)
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.3 kg
<b>Minimum temperature:</b>	-50°C	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	150°C	<b>Dimensions:</b>	17.5 cm x 4.0 cm x 7.5 cm

## MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	0.2°C at 25C	<b>Min logging interval:</b>	60 seconds
<b>Power source:</b>	Battery	<b>Alarm type:</b>	Acoustic
<b>Battery type:</b>	Lithium	<b>User interface:</b>	Membrane keypad, App, Internet browser
<b>Battery shelf life:</b>	10 years	<b>Programmability:</b>	Remotely programmable
<b>Activated life:</b>	Approx 7 years	<b>IP rating:</b>	IP54
<b>Memory capacity:</b>	130 days on board, unlimited on portal		

<b>Comments:</b>	<ul style="list-style-type: none"> <li>• Inputs: 4 x temperature, 1 x ambient temperature, 1 x ambient humidity, 1 x Door, 1 x Power.</li> <li>• Magnetically mounted, DIY tool-free installation in under 5 minutes.</li> <li>• 100% IMMUNE TO DAMAGE FROM POWER SURGE (OFF THE GRID)!!!</li> <li>• Global SIM with multi-network roaming included *</li> <li>• SMS Gateway and SMS notifications included *</li> <li>• Portal access included *</li> <li>• Smartphone App (Android and iOS) included *</li> <li>• Multilayer, remotely configurable alarm parameters.</li> <li>• Real-time SMS, email, smartphone app, and online alarming with multi-recipient escalation.</li> <li>• Real-time GIS dashboard.</li> <li>• Historic online cold chain reporting &amp; performance analysis.</li> <li>• Detailed root-cause and corrective action analytics by region, site, asset, make and model</li> </ul> <p>WATCH THE VIDEO HERE -&gt;&gt; <a href="http://beyondwireless.co.za/how-it-works/">http://beyondwireless.co.za/how-it-works/</a></p> <p>Alarm types include: Buzzer, LED, LCD (at unit), SMS, Email, App, ColdCloud portal (remotely)</p> <p>Optional extras:</p> <ul style="list-style-type: none"> <li>-FreezeGuard (patent pending): Automatically switches Fridge off when it gets too cold.</li> <li>-Remote controller (Patent pending): Electronic thermostat which can be set remotely over the internet (via ColdCloud)</li> <li>- GPS model: Includes tracking to give visibility of temperature along a route e.g. in refrigerated trucks.</li> </ul>
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<b>Minimum order:</b>	1	<b>Year base price:</b>	2015
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	1
<b>Price per unit:</b>	\$300 once-off and \$360 per year	<b>Volume per carton:</b>	0.0015
		<b>Weight per carton:</b>	0..350 kg
		<b>Incoterms:</b>	FCA

<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified ; 11 Nov 2015</i>	<b>Valid until:</b>	<i>May, 2023</i>

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/037</b>
<b>Description:</b>	Remote Temperature Monitoring Device
<b>Manufacturer's ref:</b>	Ice3-Extra-BC440
<b>Manufactured in:</b>	South Africa
<b>Company:</b>	Beyond Wireless Technology (Pty) Ltd
<b>Address:</b>	21 Cradock avenue Rosebank Johannesburg South Africa
<b>Telephone:</b>	+27 (0)112432960/1
<b>Email:</b>	<a href="mailto:info@beyondwireless.co.za">info@beyondwireless.co.za</a>
<b>Web address:</b>	<a href="http://beyondwireless.co.za/">http://beyondwireless.co.za/</a>

## Specifications

<b>Product type:</b>	Remote Temperature Monitoring System	<b>Display medium:</b>	Onboard LCD and online
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	1.5
<b>Minimum temperature:</b>	-10	<b>Main material:</b>	PS
<b>Maximum temperature:</b>	55	<b>Dimensions:</b>	23.0 x 8.0 x 26.0 cm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	0.5°C	<b>Min logging interval:</b>	60 seconds
<b>Power source:</b>	Mains + backup battery	<b>Alarm type:</b>	Acoustic
<b>Battery type:</b>	Panasonic 18650B	<b>User interface:</b>	Internet browser
<b>Battery shelf life:</b>		<b>Programmability:</b>	User programmed
<b>Activated life:</b>	72 hrs autonomy or 1000 cycles	<b>IP rating:</b>	IP54
<b>Memory capacity:</b>	50,000		

### Comments:

The Ice3 Remote temperature Monitoring Device (RTMD) is used to provide automatic remote logging, real-time monitoring and alarming for cold chain storage facilities and assets such as warehouses, fridges, freezers, walk-in cold rooms and vehicles. The device is capable of monitoring up-to 5 Temperature inputs and relative humidity. The device can also be configured to monitor mains power and/or door position. It Automatically logs temperature data which is then wirelessly transmitted via the local cellular network to the ColdCloud portal where the user is able to view and download historic and real-time cold chain data via a secure username and password protected website from any internet enabled device. Alarms thresholds and alarm recipients are configured remotely via the ColdCloud portal and in the event of a temperature excursion being detected, the system can automatically send the alarm to multiple recipients via both SMS and Email.

<b>Minimum order:</b>	1	<b>Year base price:</b>	2015
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	1
<b>Price per unit:</b>	\$580	<b>Volume per carton:</b>	0.011
	NTC temperature probes \$39	<b>Weight per carton:</b>	1.5
	Annual fee \$480 per year	<b>Incoterms:</b>	FCA

<b>Verification report:</b>	<b>Verification laboratory:</b>
<b>Current PQS status:</b>	<b>Valid until:</b>
<i>pre-qualified ; 11 Nov 2015</i>	<i>May, 2023</i>

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/038</b>
<b>Description:</b>	Irreversible freeze indicator
<b>Manufacturer's ref:</b>	TICT-iS0°Tag
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	LogTag Records Limited
<b>Address:</b>	PO Box 362-95, Northcote, Auckland, New Zealand

**Telephone:** +64 9 444 5881  
**Email:** [sales@logtagrecords.com](mailto:sales@logtagrecords.com)  
**Web address:** [www.logtagrecords.com](http://www.logtagrecords.com)

## Specifications

<b>Product type:</b>	Irreversible freeze indicator	<b>Display medium:</b>	Custom LCD display
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.019Kg
<b>Minimum temperature:</b>	-25°C	<b>Main material:</b>	Polycarbonate
<b>Maximum temperature:</b>	+60°C	<b>Dimensions:</b>	7.15 x 3.3 x 0.86 cm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	+/- 0.5°C	<b>Min logging interval:</b>	5 mins
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	3V Lithium Li-Mg coin cell	<b>User interface:</b>	LCD screen
<b>Battery shelf life:</b>	3 years	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	3 years	<b>IP rating:</b>	64
<b>Memory capacity:</b>	1096 MIN/MAX events, 540 real time measurements		

<b>Comments:</b>	<p>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.</p> <p>The product is made from durable polycarbonate plastic and features an LCD display and a START/MARK button.</p> <p>The LogTag TICT iS0°Tag® can monitor and record statistics against a -0.5°C temperature limit for up to 3 years, showing OK if environmental conditions remain at or above this limit. If, however, temperatures go below -0.5°C 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.</p>
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<b>Minimum order:</b>	50	<b>Year base price:</b>	2016
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	200
<b>Price per unit:</b>	50-999 units: 6.5 \$US more than 1000 units: POA	<b>Volume per carton:</b>	0.017 m3
		<b>Weight per carton:</b>	4.5kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	7191129301-EEC16/NCH	<b>Verification laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Current PQS status:</b>	pre-qualified ; 25 Apr 2016	<b>Valid until:</b>	May, 2023

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/039</b>
<b>Description:</b>	Remote Temperature Monitoring Device
<b>Manufacturer's ref:</b>	ColdTrace 5
<b>Manufactured in:</b>	India
<b>Company:</b>	Nexleaf Analytics
<b>Address:</b>	2356 Pelham Avenue Los Angeles CA 90064 USA
<b>Telephone:</b>	+12139156729
<b>Email:</b>	<a href="mailto:info@nexleaf.org">info@nexleaf.org</a>
<b>Web address:</b>	<a href="http://www.nexleaf.org">www.nexleaf.org</a>

## Specifications

<b>Product type:</b>	Remote Temperature Monitoring System	<b>Display medium:</b>	LCD, Computer, Phone, Tablet
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.25
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	Polycarbonate and ABS
<b>Maximum temperature:</b>	+55°C	<b>Dimensions:</b>	140 mm x 150 mm x 30 mm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	0.5°C	<b>Min logging interval:</b>	1 minute
<b>Power source:</b>	Rechargeable and Replaceable battery	<b>Alarm type:</b>	Acoustic
<b>Battery type:</b>	Li-ion	<b>User interface:</b>	Web Based
<b>Battery shelf life:</b>	2	<b>Programmability:</b>	Remotely programmable
<b>Activated life:</b>		<b>IP rating:</b>	
<b>Memory capacity:</b>	5 years		

### Comments:

ColdTrace5 is a wireless temperature monitoring system for cold chain equipment (CCE). ColdTrace5 transmits data and provides real-time temperature alerts through audio alarm, SMS (text message), and email. Its technical features include dual SIM capacity, long battery life, external antenna and data upload through GPRS and SMS. Dashboard features include equipment performance and power availability summary reports on any device. Alerts for each sensor can be configured remotely, allowing one ColdTrace5 unit to monitor up to 5 CCE per site. The unit price includes (i) 2 sensor cables, (ii) power adapter, (iii) mounting hardware, and (iv) training guides. Dashboard is available at \$24/year per device. Multiple users can access the dashboard without any software installation. Warranty is only provided on the device and not the accessories. Customer supplies SIM cards and SMS gateway services. Other components and services are available for an additional fee, including additional sensor cables (CT5 has 5 ports), PQS-approved solar installation kit, data analytics tools, language customization, and data integration with existing systems (e.g. LMIS)

<b>Minimum order:</b>	1	<b>Year base price:</b>	2019
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	1
<b>Price per unit:</b>	1-500 units: 189 USD per unit Contact Nexleaf for pricing >500 units	<b>Volume per carton:</b>	0.002 m3
		<b>Weight per carton:</b>	0.75 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	<b>Verification laboratory:</b>		
<b>Current PQS status:</b>	pre-qualified ; 20 Jul 2016	<b>Valid until:</b>	May, 2022

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



## E006: Temperature monitoring devices

**PQS code:** E006/040

**Description:** 30-day electronic temperature logger

**Manufacturer's ref:** Fridge-tag 2 E

**Manufactured in:** Switzerland/Malaysia

**Company:** Berlinger & Co. AG

**Address:** Mitteldorfstrasse 2,  
CH-9608 Ganterschwil,  
Switzerland

**Telephone:** +41 (71) 982 88 11

**Email:** [info@berlinger.com](mailto:info@berlinger.com),

**Web address:** <http://www.berlinger.com>

## Specifications

<b>Product type:</b>	30-day electronic refrigerator temperature logger	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.112 kg
<b>Minimum temperature:</b>	-40°C	<b>Main material:</b>	Non-corrodible plastic (ABS)
<b>Maximum temperature:</b>	+60°C	<b>Dimensions:</b>	12.8 x 7.5 x 1.9 cm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	±0.5°C	<b>Min logging interval:</b>	1 min
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Lithium coin cell	<b>User interface:</b>	LCD
<b>Battery shelf life:</b>	66 months from the manufacturing date	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	66 months from the manufacturing date	<b>IP rating:</b>	64
<b>Memory capacity:</b>	N/A		

<b>Comments:</b>	<p>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.</p> <p>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.</p> <p>FREE Apps:</p> <p>The Fridge Tag 2 has been verified to be compatible with the free Varo Android application &lt;<a href="https://varo-app.org/">https://varo-app.org/</a>&gt;, 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 &lt;<a href="https://pogo-lt.org/">https://pogo-lt.org/</a>&gt;.</p> <p>The Varo and Pogo LT apps are free. They are developed and maintained by a third party, not affiliated with Berlinger.</p> <p>However, we consider both apps a complementary value-add to our Fridge-tags that come for free. Discounts apply for large orders</p>		
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<b>Minimum order:</b>	20	<b>Year base price:</b>	2022
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	50
<b>Price per unit:</b>	For 20 units 78.50 USD per unit	<b>Volume per carton:</b>	0.017 m3
		<b>Weight per carton:</b>	8.00 Kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	VA 16-01816	<b>Verification laboratory:</b>	Roth & CO AG
<b>Current PQS status:</b>	pre-qualified ; 30 Oct 2016	<b>Valid until:</b>	May, 2023

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/041</b>
<b>Description:</b>	Remote Temperature Monitoring Device
<b>Manufacturer's ref:</b>	Fridge-tag 3 without SIM card
<b>Manufactured in:</b>	Switzerland
<b>Company:</b>	Berlinger & Co. AG
<b>Address:</b>	Mitteldorfstrasse 2, CH-9608 Ganterischwil, Switzerland
<b>Telephone:</b>	+41 (71) 982 88 11
<b>Email:</b>	<a href="mailto:info@berlinger.com">info@berlinger.com</a> ,
<b>Web address:</b>	<a href="http://www.berlinger.com">http://www.berlinger.com</a>

## Specifications

<b>Product type:</b>	Remote Temperature Monitoring System	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.170 kg
<b>Minimum temperature:</b>	-35°C	<b>Main material:</b>	Non-corrodible plastic (ABS)
<b>Maximum temperature:</b>	+55°C	<b>Dimensions:</b>	13.6 x 9.8 x 2.1 cm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	± 0.5°C	<b>Min logging interval:</b>	1 min
<b>Power source:</b>	Rechargeable and Replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Lithium Polymer Li-ion battery	<b>User interface:</b>	LCD
<b>Battery shelf life:</b>	36 months from delivery date	<b>Programmability:</b>	Factory programmed/online configurable
<b>Activated life:</b>	N/A	<b>IP rating:</b>	50
<b>Memory capacity:</b>	60 days on device and 5 years on RTM online platform		
<b>Comments:</b>	<p>The Fridge-tag 3 is a temperature monitoring solution with real-time alert for the continuous monitoring of sensitive vaccines and pharmaceuticals stored in medical refrigerators &amp; freezers. In case of a temperature deviation, the Fridge-tag 3 immediately sends a notification by SMS to the predefined person(s) in charge. A fully comprehensive emergency plan can now be activated to prevent damage of the valuable goods. The Fridge-tag 3 is only available including the 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. A quotation will include the design of the system as well as the fees for SIM cards and software. The country specific fees are available upon request</p>		
<b>Minimum order:</b>	20	<b>Year base price:</b>	2022
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	1
<b>Price per unit:</b>	Price at 20 units: \$254 excluding country costs	<b>Volume per carton:</b>	0.002 m3
		<b>Weight per carton:</b>	0.22 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	VA16-01074	<b>Verification laboratory:</b>	Roth & CO AG
<b>Current PQS status:</b>	pre-qualified ; 30 Oct 2016	<b>Valid until:</b>	May, 2023

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





PERFORMANCE QUALITY SAFETY



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/042</b>
<b>Description:</b>	30-day electronic temperature logger
<b>Manufacturer's ref:</b>	HETL-01
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Product type:</b>	30-day electronic refrigerator temperature logger	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>		<b>Weight</b>	0.14 kg
<b>Minimum temperature:</b>	-20	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	+50	<b>Dimensions:</b>	13.1 x 2.4
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	± 0.5°C	<b>Min logging interval:</b>	6 min
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Non-rechargeable lithium battery	<b>User interface:</b>	device itself
<b>Battery shelf life:</b>	3 years	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	2 years	<b>IP rating:</b>	IP65
<b>Memory capacity:</b>	8192 data points		
<b>Comments:</b>	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		
<b>Minimum order:</b>	5	<b>Year base price:</b>	2016
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	5
<b>Price per unit:</b>	1-100 units: USD 23.00 101-200 units: USD 22.00; 201-500 units: USD 21.00 >501 units: USD 20.00	<b>Volume per carton:</b>	0.001m3
		<b>Weight per carton:</b>	0.14 kg
		<b>Incoterms:</b>	FCA
<b>Verification report:</b>	WB-16-243	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	<i>pre-qualified ; 14 Jul 2016</i>	<b>Valid until:</b>	<i>May, 2024</i>

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/043</b>
<b>Description:</b>	User programmable temperature data logger
<b>Manufacturer's ref:</b>	Weblogger II
<b>Manufactured in:</b>	Sweden
<b>Company:</b>	Temperature Sensitive Solutions AB
<b>Address:</b>	Temperature Sensitive Solutions AB, Kammakargatan 9 A, 111 40 Stockholm, Sweden
<b>Telephone:</b>	+4686300606
<b>Email:</b>	<a href="mailto:kjell.runngren@tss.se">kjell.runngren@tss.se</a>
<b>Web address:</b>	<a href="http://www.tss.se">http://www.tss.se</a>

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.036 Kg
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	70°C	<b>Dimensions:</b>	9.0 x 4.3 x 1.15 cm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	+/- 0.5°C	<b>Min logging interval:</b>	1 min
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	CR Lithium	<b>User interface:</b>	USB for computer
<b>Battery shelf life:</b>	1 year	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	12 months	<b>IP rating:</b>	IP 65
<b>Memory capacity:</b>	40 000 data points		

<b>Comments:</b>	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.
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<b>Minimum order:</b>	100	<b>Year base price:</b>	2017
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	100
<b>Price per unit:</b>	100-250: €39	<b>Volume per carton:</b>	0.0104 m3
	250+: €38	<b>Weight per carton:</b>	4.0 kg
	1000+: on request to manufacturer	<b>Incoterms:</b>	FCA

<b>Verification report:</b>	<b>Verification laboratory:</b>		
<b>Current PQS status:</b>	pre-qualified ; 03 Mar 2017	<b>Valid until:</b>	May, 2024

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



PERFORMANCE QUALITY SAFETY



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/044</b>
<b>Description:</b>	User programmable temperature data logger
<b>Manufacturer's ref:</b>	ITAG4
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	TempSen Electronics Company
<b>Address:</b>	2F, Building C2, Espace No. 6000 Shenzhuan Road Shanghai 201619 China
<b>Telephone:</b>	+862167685210
<b>Email:</b>	<a href="mailto:info@tempsen.com">info@tempsen.com</a> ; <a href="mailto:issac@tempsen.com">issac@tempsen.com</a>
<b>Web address:</b>	<a href="http://www.tempsen.com">www.tempsen.com</a>

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.025 Kg
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	Polycarbonate
<b>Maximum temperature:</b>	70°C	<b>Dimensions:</b>	93 mm L x 45 mm W x 7 mm H
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/- 0.5°C	<b>Min logging interval:</b>	1 min
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	3 V Lithium metal battery	<b>User interface:</b>	LCD
<b>Battery shelf life:</b>	2 years	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	2 months	<b>IP rating:</b>	IP 65
<b>Memory capacity:</b>	7200 readings		
<b>Comments:</b>			
<b>Minimum order:</b>	20	<b>Year base price:</b>	2017
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	20
<b>Price per unit:</b>	(10-100 units): 20.99 \$ >100 units: 19.49 \$	<b>Volume per carton:</b>	0.0000013m3
		<b>Weight per carton:</b>	0.57 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	<b>Verification laboratory:</b>		
<b>Current PQS status:</b>	<i>pre-qualified ; 04 Oct 2017</i>	<b>Valid until:</b>	<i>May, 2023</i>

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



PERFORMANCE QUALITY SAFETY



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/045</b>
<b>Description:</b>	User programmable temperature data logger
<b>Manufacturer's ref:</b>	ITAG4 Bio
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	TempSen Electronics Company
<b>Address:</b>	2F, Building C2, Espace No. 6000 Shenzhuan Road Shanghai 201619 China
<b>Telephone:</b>	+862167685210
<b>Email:</b>	<a href="mailto:info@tempsen.com">info@tempsen.com</a> ; <a href="mailto:issac@tempsen.com">issac@tempsen.com</a>
<b>Web address:</b>	<a href="http://www.tempsen.com">www.tempsen.com</a>

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.025 Kg
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	Polycarbonate
<b>Maximum temperature:</b>	70°C	<b>Dimensions:</b>	93mm L x 45mm W x 7mm H
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/- 0.5°C	<b>Min logging interval:</b>	1 min
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	3 V Lithium metal battery	<b>User interface:</b>	LCD
<b>Battery shelf life:</b>	2 years	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	2 months	<b>IP rating:</b>	IP 65
<b>Memory capacity:</b>	7200 data points		
<b>Comments:</b>			
<b>Minimum order:</b>	20	<b>Year base price:</b>	2017
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	20
<b>Price per unit:</b>	(10-100 units): 23.99 \$ >100 units: 21.99 \$	<b>Volume per carton:</b>	0.0000013m3
		<b>Weight per carton:</b>	0.57 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified ; 04 Oct 2017	<b>Valid until:</b>	May, 2023

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



PERFORMANCE QUALITY SAFETY



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/046</b>
<b>Description:</b>	User programmable temperature data logger
<b>Manufacturer's ref:</b>	TempTale® Ultra
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Sensitech Inc.
<b>Address:</b>	A Business Unit of Carrier Corporation, Suite 258X, 800 Cummings Center. Beverly, MA 01915 United States
<b>Telephone:</b>	+1 978 - 927- 7033
<b>Email:</b>	<a href="mailto:adeleo@carrier.com">adeleo@carrier.com</a> , <a href="mailto:mmarks@carrier.com">mmarks@carrier.com</a> ,
<b>Web address:</b>	<a href="http://www.sensitech.com">http://www.sensitech.com</a>

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.051 Kg
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	70°C	<b>Dimensions:</b>	10.8cm L x 5.0cm W x 1.25cm H
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/- 0.5°C	<b>Min logging interval:</b>	30 seconds
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	3 V coin cell lithium battery	<b>User interface:</b>	LCD
<b>Battery shelf life:</b>	1 year	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	12 months	<b>IP rating:</b>	IP64
<b>Memory capacity:</b>	16000 data points		
<b>Comments:</b>			
<b>Minimum order:</b>	20	<b>Year base price:</b>	2017
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	20
<b>Price per unit:</b>	(20-100 units): \$ 40.00	<b>Volume per carton:</b>	0.0044 m3
	(101-500): \$38.00	<b>Weight per carton:</b>	1 kg
	501 - 1000 units: \$36.00	<b>Incoterms:</b>	EXW
<b>Verification report:</b>	<b>Verification laboratory:</b>		
<b>Current PQS status:</b>	<i>pre-qualified ; 04 Oct 2017</i>	<b>Valid until:</b>	<i>May, 2023</i>
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/047</b>
<b>Description:</b>	User programmable temperature data logger
<b>Manufacturer's ref:</b>	DeltaTrak Model 40527
<b>Manufactured in:</b>	United States
<b>Company:</b>	DeltaTrak Inc.
<b>Address:</b>	P.O.Box 398 Pleasanton CA 94566 USA
<b>Telephone:</b>	+1 925 2492250 +1 925 249 2250
<b>Email:</b>	<a href="mailto:malvino@deltatrak.com">malvino@deltatrak.com</a> , <a href="mailto:rcaron@deltatrak.com">rcaron@deltatrak.com</a> , <a href="mailto:orderprocessing@deltatrak.com">orderprocessing@deltatrak.com</a> ,
<b>Web address:</b>	<a href="http://www.deltatrak.com/">http://www.deltatrak.com/</a>

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	90.7 grams
<b>Minimum temperature:</b>	-50°C	<b>Main material:</b>	ABS Plastic
<b>Maximum temperature:</b>	40°C	<b>Dimensions:</b>	40 mm x 93 mm x 24 mm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	(±0.5°C from -50°C to 25°C)	<b>Min logging interval:</b>	5 seconds
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Acoustic
<b>Battery type:</b>	Two AAA lithium batteries,	<b>User interface:</b>	LCD + PC downloadable
<b>Battery shelf life:</b>	2 years	<b>Programmability:</b>	Factory and user programmable
<b>Activated life:</b>	24 months	<b>IP rating:</b>	IP64
<b>Memory capacity:</b>	32496 total recording capacity		

### 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 per freezer 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.

<b>Minimum order:</b>	1	<b>Year base price:</b>	2017
<b>Quality standard:</b>	- ISO 9001:2008 - ISO 17025 -	<b>Pieces per carton:</b>	1
<b>Price per unit:</b>	pricing upon request	<b>Volume per carton:</b>	0.768 m3
		<b>Weight per carton:</b>	0.091 kg
		<b>Incoterms:</b>	FOB
<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified ; 08 Dec 2017</i>	<b>Valid until:</b>	<i>May, 2023</i>

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



## E006: Temperature monitoring devices

**PQS code:** E006/048

**Description:** Remote Temperature Monitoring Device

**Manufacturer's ref:** Blulog

**Manufactured in:** Poland

**Company:** Blulog Sp. z o.o

**Address:** Ul. Sielska 10/14  
Biuro 14  
60-129 Poznan

**Telephone:** +48606641176

**Email:** [jeremy.laurens@blulog.eu](mailto:jeremy.laurens@blulog.eu)

**Web address:** <http://blulog.eu/en/>

## Specifications

<b>Product type:</b>	Remote Temperature Monitoring System	<b>Display medium:</b>	Lenovo Tablet
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.03 Kg
<b>Minimum temperature:</b>	-40°C	<b>Main material:</b>	metal, plastic
<b>Maximum temperature:</b>	+60°C	<b>Dimensions:</b>	85x55x5 mm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	0.5°C	<b>Min logging interval:</b>	1 min
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Lithium non-replaceable	<b>User interface:</b>	Web application, Adroid application, windows softw
<b>Battery shelf life:</b>	3 years	<b>Programmability:</b>	temperature treshold, alert delay, start delay, measurement interval, alert sending
<b>Activated life:</b>	3 years	<b>IP rating:</b>	IP 67
<b>Memory capacity:</b>	5000 data points		
<b>Comments:</b>			
<b>Minimum order:</b>	5	<b>Year base price:</b>	2018
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	5
<b>Price per unit:</b>	1-50 units: 210USD / Tablet + USB hub + holder	<b>Volume per carton:</b>	0.005m3
	50-500 units: 200USD / Tablet + USB hub + holder	<b>Weight per carton:</b>	1.7kg
	500 - 1000 units: 190USD / Tablet + USB hub + hold	<b>Incoterms:</b>	EXW
<b>Verification report:</b>	EN 12830	<b>Verification laboratory:</b>	CEMAFROID SAS
<b>Current PQS status:</b>	pre-qualified ; 09 Apr 2018	<b>Valid until:</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/049</b>
<b>Description:</b>	User programmable temperature data logger
<b>Manufacturer's ref:</b>	I-PLUG pdf BIO
<b>Manufactured in:</b>	Switzerland
<b>Company:</b>	Switrac SA
<b>Address:</b>	Switrac SA. ( CHE-257.142.822) Via F. Catenazzi 5 CH – 6850 Mendrisio Switzerland
<b>Telephone:</b>	+41916461874
<b>Email:</b>	<a href="mailto:alex.guillen@switrac.com">alex.guillen@switrac.com</a>
<b>Web address:</b>	<a href="http://www.switrac.com">www.switrac.com</a>

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	29 grams
<b>Minimum temperature:</b>	-40°C	<b>Main material:</b>	Compostable bioplastic
<b>Maximum temperature:</b>	65°C	<b>Dimensions:</b>	75 x 31 x 15 mm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/- 0.3°C	<b>Min logging interval:</b>	10 seconds
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Manganese Dioxide Lithium Battery	<b>User interface:</b>	USB for computer
<b>Battery shelf life:</b>	2 years	<b>Programmability:</b>	By Manufacturer or User.
<b>Activated life:</b>	12 months	<b>IP rating:</b>	IP65
<b>Memory capacity:</b>	16,000 total recording capacity		

### Comments:

<b>Minimum order:</b>	50	<b>Year base price:</b>	2018
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	100
<b>Price per unit:</b>	50 to 250 EUR 19 300 to 450 EUR 18 500 to 1000 EUR 16	<b>Volume per carton:</b>	0.0152 M3
		<b>Weight per carton:</b>	2 KG
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified ; 09 Apr 2018	<b>Valid until:</b>	May, 2023

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





## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/050</b>
<b>Description:</b>	Vaccine Vial Monitor Type 30
<b>Manufacturer's ref:</b>	HeatMarker@ VVM 30
<b>Manufactured in:</b>	
<b>Company:</b>	Temptime Corporation, A Zebra Technologies Company
<b>Address:</b>	116 American Road, Morris Plains, NJ, 07950, United States
<b>Telephone:</b>	+1 973 630 6000
<b>Email:</b>	<a href="mailto:TempMonitoring@zebra.com">TempMonitoring@zebra.com</a>
<b>Web address:</b>	<a href="http://www.zebra.com/tempmonitoring">www.zebra.com/tempmonitoring</a>

## Specifications

<b>Product type:</b>	Vaccine vial monitor	<b>Main material:</b>	
<b>Mode of operation:</b>	Chemical	<b>Dimensions:</b>	
<b>Minimum temperature:</b>		<b>Weight</b>	
<b>Maximum temperature:</b>		<b>Display medium:</b>	
<b>Time to endpoint 37°C:</b>	30	<b>Time to endpoint 25°C:</b>	193
<b>Time to endpoint 5°C:</b>			
	<b>Full label</b>	<b>Dot</b>	
<b>Minimum order :</b>	500,000	50,000	
<b>Standard label size:</b>	20 mm x 44 mm	10 mm dot (circle)	
	57 mm x 15 mm	16 mm 10 mm (rectangular)	
	48 mm x 18 mm		
<b>Indicators per roll:</b>	10,000	10,000	
<b>Core size:</b>	76 mm	76 mm	
<b>Comments:</b>			
<b>Price per unit:</b>	On request to manufacturer	<b>Incoterms:</b>	EXW
<b>Quality standard:</b>	;#ISO 9001:2008;#ISO 13485;#		
<b>Verification report:</b>	A65115	<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified; 24 Mar 2007	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/051</b>
<b>Description:</b>	Vaccine Vial Monitor Type 7
<b>Manufacturer's ref:</b>	HeatMarker@ VVM 7
<b>Manufactured in:</b>	United States
<b>Company:</b>	Temptime Corporation, A Zebra Technologies Company
<b>Address:</b>	116 American Road, Morris Plains, NJ, 07950, United States
<b>Telephone:</b>	+1 973 630 6000
<b>Email:</b>	<a href="mailto:TempMonitoring@zebra.com">TempMonitoring@zebra.com</a>
<b>Web address:</b>	<a href="http://www.zebra.com/tempmonitoring">www.zebra.com/tempmonitoring</a>

## Specifications

<b>Product type:</b>	Vaccine vial monitor	<b>Main material:</b>	
<b>Mode of operation:</b>	Chemical	<b>Dimensions:</b>	
<b>Minimum temperature:</b>	-30°C	<b>Weight</b>	
<b>Maximum temperature:</b>	+50	<b>Display medium:</b>	Color change
<b>Time to endpoint 37°C:</b>	7	<b>Time to endpoint 25°C:</b>	45
<b>Time to endpoint 5°C:</b>			
	<b>Full label</b>	<b>Dot</b>	
<b>Minimum order :</b>	500,000	50,000	
<b>Standard label size:</b>	20 mm x 44 mm	10 mm dot (circle)	
	57 mm x 15 mm	16 mm 10 mm (rectangular)	
	48 mm x 18 mm		
<b>Indicators per roll:</b>	10,000	10,000	
<b>Core size:</b>	76 mm	76 mm	
<b>Comments:</b>			
<b>Price per unit:</b>	On request to manufacturer	<b>Incoterms:</b>	EXW
<b>Quality standard:</b>	;#ISO 9001:2008;#ISO 13485;#		
<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified; 08 Oct 2007	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/052</b>
<b>Description:</b>	Vaccine Vial Monitor Type 11
<b>Manufacturer's ref:</b>	HeatMarker@ VVM 11
<b>Manufactured in:</b>	United States
<b>Company:</b>	Temptime Corporation, A Zebra Technologies Company
<b>Address:</b>	116 American Road, Morris Plains, NJ, 07950, United States
<b>Telephone:</b>	+1 973 630 6000
<b>Email:</b>	<a href="mailto:TempMonitoring@zebra.com">TempMonitoring@zebra.com</a>
<b>Web address:</b>	<a href="http://www.zebra.com/tempmonitoring">www.zebra.com/tempmonitoring</a>

## Specifications

<b>Product type:</b>	Vaccine vial monitor	<b>Main material:</b>	
<b>Mode of operation:</b>	Chemical	<b>Dimensions:</b>	
<b>Minimum temperature:</b>		<b>Weight</b>	
<b>Maximum temperature:</b>		<b>Display medium:</b>	
<b>Time to endpoint 37°C:</b>	11	<b>Time to endpoint 25°C:</b>	71
<b>Time to endpoint 5°C:</b>			
	<b>Full label</b>	<b>Dot</b>	
<b>Minimum order :</b>	500,000	50,000	
<b>Standard label size:</b>	20 mm x 44 mm	10 mm dot (circle)	
	57 mm x 15 mm	16 mm 10 mm (rectangular)	
	48 mm x 18 mm		
<b>Indicators per roll:</b>	10,000	10,000	
<b>Core size:</b>	76 mm	76 mm	
<b>Comments:</b>			
<b>Price per unit:</b>	On request to manufacturer	<b>Incoterms:</b>	EXW
<b>Quality standard:</b>	;#ISO 9001:2008;#		
<b>Verification report:</b>	LLTPL/TL/2017-01/01	<b>Verification laboratory:</b>	Lisaline Lifescience Technologies PVT. LTD
<b>Current PQS status:</b>	<i>pre-qualified; 19 Jun 2018</i>	<b>Valid until :</b>	<i>May, 2024</i>
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



PERFORMANCE QUALITY SAFETY



## E006: Temperature monitoring devices

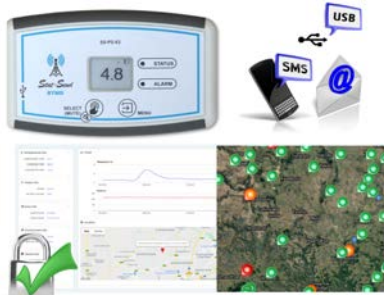
<b>PQS code:</b>	<b>E006/054</b>
<b>Description:</b>	Vaccine Vial Monitor Type 14
<b>Manufacturer's ref:</b>	HeatMarker@ VVM 14
<b>Manufactured in:</b>	United States
<b>Company:</b>	Temptime Corporation, A Zebra Technologies Company
<b>Address:</b>	116 American Road, Morris Plains, NJ, 07950, United States
<b>Telephone:</b>	+1 973 630 6000
<b>Email:</b>	<a href="mailto:TempMonitoring@zebra.com">TempMonitoring@zebra.com</a>
<b>Web address:</b>	<a href="http://www.zebra.com/tempmonitoring">www.zebra.com/tempmonitoring</a>

## Specifications

<b>Product type:</b>	Vaccine vial monitor	<b>Main material:</b>	
<b>Mode of operation:</b>	Chemical	<b>Dimensions:</b>	
<b>Minimum temperature:</b>	-30°C	<b>Weight</b>	
<b>Maximum temperature:</b>	+50	<b>Display medium:</b>	Color change
<b>Time to endpoint 37°C:</b>	14	<b>Time to endpoint 25°C:</b>	90
<b>Time to endpoint 5°C:</b>			
	<b>Full label</b>	<b>Dot</b>	
<b>Minimum order :</b>	500,000	50,000	
<b>Standard label size:</b>	20 mm x 44 mm	10 mm dot (circle)	
	57 mm x 15 mm	16 mm 10 mm (rectangular)	
	48 mm x 18 mm		
<b>Indicators per roll:</b>	10,000	10,000	
<b>Core size:</b>	76 mm	76 mm	
<b>Comments:</b>			
<b>Price per unit:</b>	On request to manufacturer	<b>Incoterms:</b>	EXW
<b>Quality standard:</b>	;#ISO 9001:2008;#		
<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified; 15 Jun 2018	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



PERFORMANCE QUALITY SAFETY



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/055</b>
<b>Description:</b>	Remote Temperature Monitoring Device
<b>Manufacturer's ref:</b>	Stat-Send
<b>Manufactured in:</b>	South Africa
<b>Company:</b>	Zero Appliances (Pty) Ltd
<b>Address:</b>	P.O. Box 426 Edenvale 1610 Gauteng Province South Africa
<b>Telephone:</b>	(010) 207 1600
<b>Email:</b>	<a href="mailto:rudi@zeroappliances.co.za">rudi@zeroappliances.co.za</a> ; <a href="mailto:brigitte@zeroappliances.co.za">brigitte@zeroappliances.co.za</a>
<b>Web address:</b>	<a href="http://www.zeroappliances.co.za">www.zeroappliances.co.za</a>

## Specifications

<b>Product type:</b>	Remote Temperature Monitoring System	<b>Display medium:</b>	EPD, Computer, Phone, Tablet
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.6 kg
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	+50°C	<b>Dimensions:</b>	15.3 x 9.0 x 5.5 cm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	+/-0.5°C	<b>Min logging interval:</b>	60 seconds
<b>Power source:</b>	Mains + backup battery	<b>Alarm type:</b>	Acoustic
<b>Battery type:</b>	Lithium Polymer battery (Li-Po)	<b>User interface:</b>	EPD, Keypad, Web Portal
<b>Battery shelf life:</b>	3 years	<b>Programmability:</b>	Remote Firmware Update Capability, Online configurable
<b>Activated life:</b>	NA	<b>IP rating:</b>	50
<b>Memory capacity:</b>	30 Days on device		

### Comments:

- Support up to 5 X Temperature probe (3 X probes standard kit)
- 1 X Ambient temperature probe, 1 X Door sensor, 1 X Humidity sensor, 1 X Movement sensor.
- Power quality measurement ( 1 X Power Voltage with frequency, 1 X Secondary power present)
- Up to 2 X Fan speed sensors.
- Remote firmware update capabilities.
- USB interface for log downloads using a suitable USB memory device.
- Global SIM supporting communication in any region.
- Online Portal access included. (Supporting multiple layers of user privileges)
- SMS gateway for alarm notification with three layer programmable escalation.
- Automated reports generated via web portal (e-mailed to appropriate user).

<b>Minimum order:</b>		<b>Year base price:</b>	2018
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	1
<b>Price per unit:</b>	1-49: \$250; Portal access: 20 USD/month	<b>Volume per carton:</b>	0.0054 m3
	50-99: \$243	<b>Weight per carton:</b>	1.25
	100-499: \$233	<b>Incoterms:</b>	EXW
<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified ; 30 Oct 2018</i>	<b>Valid until:</b>	<i>May, 2023</i>

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/056</b>
<b>Description:</b>	User Programmable data logger
<b>Manufacturer's ref:</b>	LIBERO W
<b>Manufactured in:</b>	Switzerland
<b>Company:</b>	ELPRO-BUCHS AG
<b>Address:</b>	Langaulistrasse 45 9470 Buchs Suisse
<b>Telephone:</b>	+41 81 552 08 08
<b>Email:</b>	<a href="mailto:andrea.bischof@elpro.com">andrea.bischof@elpro.com</a>
<b>Web address:</b>	<a href="http://www.elpro.com/">http://www.elpro.com/</a>

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LCD (Base Station) LED (Sensor)
<b>Mode of operation:</b>	wireless	<b>Weight</b>	0.195 kg
<b>Minimum temperature:</b>	-35°C	<b>Main material:</b>	ABS PLASTIC
<b>Maximum temperature:</b>	+50°C	<b>Dimensions:</b>	115 × 82.5 × 27 mm (Base Station) 73 x 17 (Sensor)

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	+/- 0.4°C	<b>Min logging interval:</b>	1 minute
<b>Power source:</b>	Replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Alkaline Battery	<b>User interface:</b>	LCD screen
<b>Battery shelf life:</b>	2 years	<b>Programmability:</b>	User programmed
<b>Activated life:</b>		<b>IP rating:</b>	IP67
<b>Memory capacity:</b>	70,000 readings (Base Station) & upto 2,200 in Sensor		

### Comments:

<b>Minimum order:</b>	1	<b>Year base price:</b>	2019
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	1
<b>Price per unit:</b>	\$400 - 1	<b>Volume per carton:</b>	0.0012 m3
	\$380 -27	<b>Weight per carton:</b>	350 g
	\$368 - 54 & \$352 - 108	<b>Incoterms:</b>	EXW

<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified ; 18 Jan 2019</i>	<b>Valid until:</b>	<i>May, 2023</i>

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/057</b>
<b>Description:</b>	Threshold Indicator40
<b>Manufacturer's ref:</b>	LIMITmarker I-K
<b>Manufactured in:</b>	United States
<b>Company:</b>	Temptime Corporation, A Zebra Technologies Company
<b>Address:</b>	116 American Road, Morris Plains, NJ, 07950, United States
<b>Telephone:</b>	+1 973 630 6000
<b>Email:</b>	<a href="mailto:TempMonitoring@zebra.com">TempMonitoring@zebra.com</a>
<b>Web address:</b>	<a href="http://www.zebra.com/tempmonitoring">www.zebra.com/tempmonitoring</a>

## Specifications

<b>Product type:</b>	Threshold Indicator 40°C	<b>Display medium:</b>	
<b>Mode of operation:</b>	Chemical	<b>Weight</b>	
<b>Minimum temperature:</b>	-24°C	<b>Main material:</b>	
<b>Maximum temperature:</b>		<b>Dimensions:</b>	
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>		<b>Min logging interval:</b>	
<b>Power source:</b>	Passive device	<b>Alarm type:</b>	Not applicable
<b>Battery type:</b>		<b>User interface:</b>	
<b>Battery shelf life:</b>		<b>Programmability:</b>	Not applicable
<b>Activated life:</b>		<b>IP rating:</b>	
<b>Memory capacity:</b>			
<b>Comments:</b>			
<b>Minimum order:</b>	50000	<b>Year base price:</b>	2019
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	
<b>Price per unit:</b>		<b>Volume per carton:</b>	
		<b>Weight per carton:</b>	
		<b>Incoterms:</b>	
<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified ; 27 Mar 2019	<b>Valid until:</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/058</b>
<b>Description:</b>	Vaccine Vial Monitor Type 250
<b>Manufacturer's ref:</b>	HEATmarker® VVM 250
<b>Manufactured in:</b>	United States
<b>Company:</b>	Temptime Corporation, A Zebra Technologies Company
<b>Address:</b>	116 American Road, Morris Plains, NJ, 07950, United States
<b>Telephone:</b>	+1 973 630 6000
<b>Email:</b>	<a href="mailto:TempMonitoring@zebra.com">TempMonitoring@zebra.com</a>
<b>Web address:</b>	<a href="http://www.zebra.com/tempmonitoring">www.zebra.com/tempmonitoring</a>

## Specifications

<b>Product type:</b>	Vaccine vial monitor	<b>Main material:</b>	
<b>Mode of operation:</b>	Chemical	<b>Dimensions:</b>	
<b>Minimum temperature:</b>		<b>Weight</b>	
<b>Maximum temperature:</b>		<b>Display medium:</b>	
<b>Time to endpoint 37°C:</b>	250	<b>Time to endpoint 25°C:</b>	900
<b>Time to endpoint 5°C:</b>			
	<b>Full label</b>	<b>Dot</b>	
<b>Minimum order :</b>	500,000	50,000	
<b>Standard label size:</b>	20 mm x 44 mm	10 mm dot (circle)	
	57 mm x 15 mm	16 mm 10 mm (rectangular)	
	48 mm x 18 mm		
<b>Indicators per roll:</b>	10,000	10,000	
<b>Core size:</b>	76 mm	76 mm	
<b>Comments:</b>	Dots (typically on 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. Custom solutions including a combination of approved litho/paper/film substrate and over-laminate (if applicable) are available upon request.		
<b>Price per unit:</b>	On request to manufacturer	<b>Incoterms:</b>	EXW
<b>Quality standard:</b>	;#ISO 9001:2008;#		
<b>Verification report:</b>		<b>Verification laboratory:</b>	Lisaline Lifescience Technologies PVT. LTD
<b>Current PQS status:</b>	pre-qualified; 27 Mar 2019	<b>Valid until :</b>	May, 2024

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



**E006: Temperature monitoring devices**

<b>PQS code:</b>	<b>E006/059</b>
<b>Description:</b>	Combined VVM250 and Threshold Indicator40
<b>Manufacturer's ref:</b>	HEATmarker® VVM+250
<b>Manufactured in:</b>	United States
<b>Company:</b>	Temptime Corporation, A Zebra Technologies Company
<b>Address:</b>	116 American Road, Morris Plains, NJ, 07950, United States
<b>Telephone:</b>	+1 973 630 6000
<b>Email:</b>	<a href="mailto:TempMonitoring@zebra.com">TempMonitoring@zebra.com</a>
<b>Web address:</b>	<a href="http://www.zebra.com/tempmonitoring">www.zebra.com/tempmonitoring</a>

**Specifications**

<b>Product type:</b>	Combined VVM and Threshold Indicator	<b>Display medium:</b>
<b>Mode of operation:</b>	Chemical	<b>Weight</b>
<b>Minimum temperature:</b>	-24°C	<b>Main material:</b>
<b>Maximum temperature:</b>		<b>Dimensions:</b>

**MECHANICAL AND ELECTRONIC DEVICES ONLY**

<b>Accuracy:</b>		<b>Min logging interval:</b>
<b>Power source:</b>	Passive device	<b>Alarm type:</b> Not applicable
<b>Battery type:</b>		<b>User interface:</b>
<b>Battery shelf life:</b>		<b>Programmability:</b> Not applicable
<b>Activated life:</b>		<b>IP rating:</b>
<b>Memory capacity:</b>		

<b>Comments:</b>	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
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<b>Minimum order:</b>	50000	<b>Year base price:</b>	2019
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	
<b>Price per unit:</b>		<b>Volume per carton:</b>	
		<b>Weight per carton:</b>	
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>		<b>Verification laboratory:</b>	Lisaline Lifescience Technologies PVT. LTD
<b>Current PQS status:</b>	pre-qualified ; 28 Mar 2019	<b>Valid until:</b>	May, 2024

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/060</b>
<b>Description:</b>	Remote Temperature Monitoring Device
<b>Manufacturer's ref:</b>	Haier U-Cool
<b>Manufactured in:</b>	
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Product type:</b>	Remote Temperature Monitoring System	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.2
<b>Minimum temperature:</b>	-40°C	<b>Main material:</b>	ABS PLASTIC
<b>Maximum temperature:</b>	+65°C	<b>Dimensions:</b>	11.5 cm x 7.2 cm x 2.2 cm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	+/- 0.5°C	<b>Min logging interval:</b>	1 minute
<b>Power source:</b>	Rechargeable battery	<b>Alarm type:</b>	Acoustic
<b>Battery type:</b>	Li-ion	<b>User interface:</b>	LCD screen
<b>Battery shelf life:</b>	2 years	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	36 months	<b>IP rating:</b>	IP66
<b>Memory capacity:</b>			

<b>Comments:</b>	"Haier U-COOL Remote Temperature Monitoring Device, providing on-time on-line temperature data monitoring, and the alarms can be received via audio, visual, 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)."
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<b>Minimum order:</b>		<b>Year base price:</b>	2019
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	
<b>Price per unit:</b>		<b>Volume per carton:</b>	
		<b>Weight per carton:</b>	
		<b>Incoterms:</b>	

<b>Verification report:</b>	<b>Verification laboratory:</b>
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<b>Current PQS status:</b>	<i>pre-qualified ; 10 Jul 2019</i>	<b>Valid until:</b>	<i>May, 2024</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



PERFORMANCE QUALITY SAFETY



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/061</b>
<b>Description:</b>	Remote Temperature Monitoring Device
<b>Manufacturer's ref:</b>	VM1000
<b>Manufactured in:</b>	South Africa
<b>Company:</b>	IKHAYA Automation systems
<b>Address:</b>	Ikhaya Automation Systems Kwa Zulu Natal South Africa
<b>Telephone:</b>	0861 111 105
<b>Email:</b>	<a href="mailto:praba@ikas.co.za">praba@ikas.co.za</a> <a href="mailto:eckart@ikas.co.za">eckart@ikas.co.za</a>
<b>Web address:</b>	<a href="https://www.ikas.io">https://www.ikas.io</a>

## Specifications

<b>Product type:</b>	Remote Temperature Monitoring System	<b>Display medium:</b>	LCD or any internet enabled device
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.45 kg
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	ABS PLASTIC
<b>Maximum temperature:</b>	+55°C	<b>Dimensions:</b>	13.5 X 10.0 X 5.0

#### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	+/- 0.5°C	<b>Min logging interval:</b>	1 minute
<b>Power source:</b>	Mains + backup battery	<b>Alarm type:</b>	Not applicable
<b>Battery type:</b>	Li-ion	<b>User interface:</b>	Web based + LCD
<b>Battery shelf life:</b>	3 YEARS	<b>Programmability:</b>	Factory or online configurable
<b>Activated life:</b>	36 months	<b>IP rating:</b>	IP54
<b>Memory capacity:</b>	90 days using internal memory		

<b>Comments:</b>	<p>Ikhaya Automation Systems provides a plug &amp; 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.</p> <p>A RTMS kit comes standard with:</p> <ul style="list-style-type: none"> <li>1 x VM 1000 (RTMS)</li> <li>1 x Digital Temperature Probe</li> <li>1 x Internal Temperature &amp; Humidity Sensor</li> <li>1 x GPS location monitoring</li> <li>2 x Internal Lithium Ion Batteries</li> <li>1 x 2 Pin universal power adaptor</li> <li>1 x Door Sensor</li> <li>2 x Velcro Strips</li> </ul> <p>We offer flexibility such as:</p> <ol style="list-style-type: none"> <li>1. We could provide a universal sim card that suits your specific requirements or you could provide your own local sim card.</li> <li>2. Interactive Display - past and present alarms can be viewed by interactive LCD display or web platform</li> <li>3. The standard VM1000 can accept 4 digital probes while the radio version VM1000R can accept 4 wired and 4 wireless probes</li> <li>4. The wireless probes can do Temperature &amp; Humidity, Pulse counting or take in a 4-20mA input</li> </ol> <p>The RTMS can be configured into 2 states:</p> <p>Option 1</p> <p>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.</p> <p>Option 2</p> <p>Real-time monitoring system with interactive web service consisting of Dashboard, Reports, Alerts &amp; Graphs, remote viewing of current status.</p> <p>Alerts can be set up on all variables being monitored by the VM1000; to mention a few Temperature, Humidity, Door Status, Power Failure &amp; 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.</p> <p>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.</p> <p>Automated reports are generated daily, weekly, monthly or over a customized period using our playback option. This includes:</p> <ol style="list-style-type: none"> <li>1. Detailed summary of variables with a graph</li> <li>2. Logs for the pre-defined period</li> <li>3. Exceptions for variables that have exceeded their threshold</li> <li>4. Alarm history for alerts that have been dispatched to it recipients</li> </ol> <p>Pricing</p> <p>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</p>		
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<b>Minimum order:</b>	1	<b>Year base price:</b>	2019
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	1
<b>Price per unit:</b>	\$250: 1 -49 units	<b>Volume per carton:</b>	0.003 m3
	\$225: 50 - 99 units	<b>Weight per carton:</b>	0.7 Kg
	\$202: >100 units	<b>Incoterms:</b>	EXW
<b>Verification report:</b>	<b>Verification laboratory:</b>		
<b>Current PQS status:</b>	<i>pre-qualified ; 31 Jul 2019</i>	<b>Valid until:</b>	<i>May, 2024</i>

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/062</b>
<b>Description:</b>	Electronic Freeze Indicator
<b>Manufacturer's ref:</b>	Endicate Freeze
<b>Manufactured in:</b>	Switzerland
<b>Company:</b>	Swittrace SA
<b>Address:</b>	Swittrace SA. ( CHE-257.142.822) Via F. Catenazzi 5 CH – 6850 Mendrisio Switzerland
<b>Telephone:</b>	+41916461874
<b>Email:</b>	<a href="mailto:alex.guillen@swittrace.com">alex.guillen@swittrace.com</a>
<b>Web address:</b>	<a href="http://www.swittrace.com">www.swittrace.com</a>

## Specifications

<b>Product type:</b>	Acoustic and / or visual alarm units	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Chemical	<b>Weight</b>	15 g
<b>Minimum temperature:</b>	-20 °C	<b>Main material:</b>	
<b>Maximum temperature:</b>	70 °C	<b>Dimensions:</b>	45 x 45 x 8 mm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/- 0.5°C	<b>Min logging interval:</b>	1 minute
<b>Power source:</b>	Passive device	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	CR2025	<b>User interface:</b>	LCD
<b>Battery shelf life:</b>	3 YEARS	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>		<b>IP rating:</b>	IP64
<b>Memory capacity:</b>			
<b>Comments:</b>			
<b>Minimum order:</b>	10	<b>Year base price:</b>	2019
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	
<b>Price per unit:</b>	EUR 4.50	<b>Volume per carton:</b>	
		<b>Weight per carton:</b>	
		<b>Incoterms:</b>	
<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified ;</i>	<b>Valid until:</b>	<i>May, 2023</i>
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/063</b>
<b>Description:</b>	Electronic Shipping Indicator Type 1
<b>Manufacturer's ref:</b>	Endicate Type 1
<b>Manufactured in:</b>	Switzerland
<b>Company:</b>	Switrace SA
<b>Address:</b>	Switrace SA. ( CHE-257.142.822) Via F. Catenazzi 5 CH – 6850 Mendrisio Switzerland
<b>Telephone:</b>	+41916461874
<b>Email:</b>	<a href="mailto:alex.guillen@switrace.com">alex.guillen@switrace.com</a>
<b>Web address:</b>	<a href="http://www.switrace.com">www.switrace.com</a>

## Specifications

<b>Product type:</b>	Acoustic and / or visual alarm units	<b>Display medium:</b>	
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	15 g
<b>Minimum temperature:</b>		<b>Main material:</b>	
<b>Maximum temperature:</b>		<b>Dimensions:</b>	45 x 45 x 8 mm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/- 0.5°C	<b>Min logging interval:</b>	1 minute
<b>Power source:</b>	Passive device	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	CR2025	<b>User interface:</b>	
<b>Battery shelf life:</b>	3 YEARS	<b>Programmability:</b>	Not applicable
<b>Activated life:</b>	2 months	<b>IP rating:</b>	
<b>Memory capacity:</b>			
<b>TYPE 1 DEVICE:</b>			
<b>Comments:</b>	>45°C FOR 1 HOUR >30°C FOR 10 HOURS <-0.5 °C FOR 1 HOUR		
<b>Minimum order:</b>		<b>Year base price:</b>	2019
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	
<b>Price per unit:</b>		<b>Volume per carton:</b>	
		<b>Weight per carton:</b>	
		<b>Incoterms:</b>	
<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified ;</i>	<b>Valid until:</b>	<i>May, 2023</i>
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/064</b>
<b>Description:</b>	Electronic Shipping Indicator Type 2
<b>Manufacturer's ref:</b>	Endicate Type 2
<b>Manufactured in:</b>	
<b>Company:</b>	Switrac SA
<b>Address:</b>	Switrac SA. ( CHE-257.142.822) Via F. Catenazzi 5 CH – 6850 Mendrisio Switzerland
<b>Telephone:</b>	+41916461874
<b>Email:</b>	<a href="mailto:alex.guillen@switrac.com">alex.guillen@switrac.com</a>
<b>Web address:</b>	<a href="http://www.switrac.com">www.switrac.com</a>

## Specifications

<b>Product type:</b>	20-day electronic shipping indicator	<b>Display medium:</b>	
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	15 g
<b>Minimum temperature:</b>		<b>Main material:</b>	Plastic
<b>Maximum temperature:</b>		<b>Dimensions:</b>	44 x 44 8 mm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/- 0.5°C	<b>Min logging interval:</b>	15 minutes
<b>Power source:</b>	Passive device	<b>Alarm type:</b>	Not applicable
<b>Battery type:</b>	CR 2025	<b>User interface:</b>	LCD screen
<b>Battery shelf life:</b>	5 years	<b>Programmability:</b>	Not applicable
<b>Activated life:</b>	2 months	<b>IP rating:</b>	
<b>Memory capacity:</b>			
<b>Comments:</b>			
<b>Minimum order:</b>		<b>Year base price:</b>	2019
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	
<b>Price per unit:</b>		<b>Volume per carton:</b>	
		<b>Weight per carton:</b>	
		<b>Incoterms:</b>	
<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified ;</i>	<b>Valid until:</b>	<i>May, 2023</i>
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



PERFORMANCE QUALITY SAFETY



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/065</b>
<b>Description:</b>	User Programable data logger
<b>Manufacturer's ref:</b>	BT360
<b>Manufactured in:</b>	Switzerland
<b>Company:</b>	Swittrace SA
<b>Address:</b>	Swittrace SA. ( CHE-257.142.822) Via F. Catenazzi 5 CH – 6850 Mendrisio Switzerland
<b>Telephone:</b>	+41916461874
<b>Email:</b>	<a href="mailto:alex.guillen@swittrace.com">alex.guillen@swittrace.com</a>
<b>Web address:</b>	<a href="http://www.swittrace.com">www.swittrace.com</a>

## Specifications

<b>Product type:</b>	Acoustic and / or visual alarm units	<b>Display medium:</b>	
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	
<b>Minimum temperature:</b>		<b>Main material:</b>	PLASTIC
<b>Maximum temperature:</b>		<b>Dimensions:</b>	49 x 70 x 25 mm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/- 0.5°C	<b>Min logging interval:</b>	1 minute
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	LITHIUM COIN CELL	<b>User interface:</b>	
<b>Battery shelf life:</b>	1 YEARS	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	UPTO 1 YEAR	<b>IP rating:</b>	IP67
<b>Memory capacity:</b>			
<b>Comments:</b>			
<b>Minimum order:</b>	10	<b>Year base price:</b>	2019
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Pieces per carton:</b>	10
<b>Price per unit:</b>	EUR 120	<b>Volume per carton:</b>	50 CM3
		<b>Weight per carton:</b>	
		<b>Incoterms:</b>	
<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified ;</i>	<b>Valid until:</b>	<i>May, 2023</i>
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			





## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/067</b>
<b>Description:</b>	Chemical Freeze Indicator
<b>Manufacturer's ref:</b>	FREEZEmarker® L - PQS
<b>Manufactured in:</b>	United States
<b>Company:</b>	Temptime Corporation, A Zebra Technologies Company
<b>Address:</b>	116 American Road, Morris Plains, NJ, 07950, United States
<b>Telephone:</b>	+1 973 630 6000
<b>Email:</b>	<a href="mailto:TempMonitoring@zebra.com">TempMonitoring@zebra.com</a>
<b>Web address:</b>	<a href="http://www.zebra.com/tempmonitoring">www.zebra.com/tempmonitoring</a>

## Specifications

<b>Product type:</b>	Chemical Freeze Indicator	<b>Display medium:</b>	Colour Change Indicator
<b>Mode of operation:</b>	Chemical	<b>Weight</b>	
<b>Minimum temperature:</b>	2°C	<b>Main material:</b>	
<b>Maximum temperature:</b>	37°C	<b>Dimensions:</b>	29 mm x 20 mm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>		<b>Min logging interval:</b>	
<b>Power source:</b>	Passive device	<b>Alarm type:</b>	Not applicable
<b>Battery type:</b>		<b>User interface:</b>	
<b>Battery shelf life:</b>		<b>Programmability:</b>	Not applicable
<b>Activated life:</b>		<b>IP rating:</b>	
<b>Memory capacity:</b>			

### 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.

<b>Minimum order:</b>	1	<b>Year base price:</b>	2020
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	
<b>Price per unit:</b>		<b>Volume per carton:</b>	
		<b>Weight per carton:</b>	
		<b>Incoterms:</b>	
<b>Verification report:</b>		<b>Verification laboratory:</b>	Lisaline Lifescience Technologies PVT. LTD
<b>Current PQS status:</b>	pre-qualified ; 05 Aug 2020	<b>Valid until:</b>	May, 2024

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



## E006: Temperature monitoring devices

**PQS code:** E006/068

**Description:** Electronic Shipping Indicator

**Manufacturer's ref:** LIBERO ITS

**Manufactured in:** Switzerland/Malaysia

**Company:** ELPRO-BUCHS AG

**Address:** Langaulistrasse 45  
9470 Buchs  
Suisse

**Telephone:** +41 81 552 08 08

**Email:** [andrea.bischof@elpro.com](mailto:andrea.bischof@elpro.com)

**Web address:** <http://www.elpro.com/>

## Specifications

<b>Product type:</b>	20-day electronic shipping indicator	<b>Display medium:</b>	3 LEDs
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.0045 kg
<b>Minimum temperature:</b>	-30°	<b>Main material:</b>	Metal housing
<b>Maximum temperature:</b>	70°C	<b>Dimensions:</b>	2.6 × 2.8 × 0.28 cm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	"±0.5 °C in the core range of -10 °C to +50 °C, typical accuracy (95 % of all indicators) ±0.4 °C	<b>Min logging interval:</b>	1 minute
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Not replaceable single use	<b>User interface:</b>	Mobile phone App
<b>Battery shelf life:</b>	12 months	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	48 months	<b>IP rating:</b>	
<b>Memory capacity:</b>			
<b>Comments:</b>			
<b>Minimum order:</b>	400	<b>Year base price:</b>	2020
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	400
<b>Price per unit:</b>	1 Enveloppe of 10 units: CHF 125.00 1 Box of 400 units: CHF 3'920.00 1 Container of 400 units: CHF 24'960.00	<b>Volume per carton:</b>	box: 31 x 24 x 3 cm
		<b>Weight per carton:</b>	1 envelope: 0.088 kg
		<b>Incoterms:</b>	FAS
<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified ; 25 Sep 2020	<b>Valid until:</b>	May, 2023
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			

**E006: Temperature monitoring devices**

<b>PQS code:</b>	<b>E006/069</b>
<b>Description:</b>	User Programmable data logger
<b>Manufacturer's ref:</b>	Trek Pro
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Parsyl Inc.
<b>Address:</b>	Parsyl Inc. 2825 Larimer Str, Denver, CO 80205 USA
<b>Telephone:</b>	+1 (844) 472-7795
<b>Email:</b>	<a href="mailto:ssawadogo@parsyl.com">ssawadogo@parsyl.com</a>
<b>Web address:</b>	<a href="http://www.parsyl.com">www.parsyl.com</a>

**Specifications**

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LEDs
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.065 kg
<b>Minimum temperature:</b>	-40°C	<b>Main material:</b>	Polycarbonate + ABS
<b>Maximum temperature:</b>	70°C	<b>Dimensions:</b>	2.01 x 3.81 x 9.98
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	0.1 °C	<b>Min logging interval:</b>	1 sec
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Acoustic
<b>Battery type:</b>	3V LiFeS2	<b>User interface:</b>	Switch, button, LEDs, audible alarms, mobile app
<b>Battery shelf life:</b>	10 years	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	36 months	<b>IP rating:</b>	IP67
<b>Memory capacity:</b>	500,000		
<b>Comments:</b>			
<b>Minimum order:</b>	80	<b>Year base price:</b>	2020
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	80
<b>Price per unit:</b>	pricing upon request	<b>Volume per carton:</b>	0.02 m3
		<b>Weight per carton:</b>	5.2 Kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	1006736-001	<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified ; 28 Sep 2020</i>	<b>Valid until:</b>	<i>May, 2024</i>

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



PERFORMANCE QUALITY SAFETY



## E006: Temperature monitoring devices

**PQS code:** E006/070**Description:** 40 day Electronic Shipping Indicator**Manufacturer's ref:** USRID-16WC and USRID-16WA/B**Manufactured in:** China; People's Republic of**Company:** LogTag Recorders Limited**Address:** PO Box 362-95, Northcote,  
Auckland, New Zealand**Telephone:** +64 9 444 5881**Email:** [sales@logtagrecorders.com](mailto:sales@logtagrecorders.com)**Web address:** [www.logtagrecorders.com](http://www.logtagrecorders.com)

## Specifications

<b>Product type:</b>	Electronic Shipping Indicator	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	39 g
<b>Minimum temperature:</b>	-30°	<b>Main material:</b>	Polycarbonate with Lexan label
<b>Maximum temperature:</b>	70°C	<b>Dimensions:</b>	93mm(H) x 54.5mm (W) x 8.6mm (T)

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	Better than $\pm 0.5^{\circ}\text{C}$ for $-20^{\circ}\text{C}$ to $+40^{\circ}\text{C}$ , better than $\pm 0.7^{\circ}\text{C}$ outside this range	<b>Min logging interval:</b>	5 minutes
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	3V LiMnO2 Button cell	<b>User interface:</b>	LCD screen
<b>Battery shelf life:</b>	18 Months	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	7 months	<b>IP rating:</b>	IP64
<b>Memory capacity:</b>	5760		

<b>Comments:</b>	"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."		
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<b>Minimum order:</b>	20	<b>Year base price:</b>	2020
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	50
<b>Price per unit:</b>	\$27.50 US for 20 - 99 pieces	<b>Volume per carton:</b>	0.006m3
		<b>Weight per carton:</b>	2.3 kg
		<b>Incoterms:</b>	FOB

<b>Verification report:</b>	<b>Verification laboratory:</b> TUV SUD PSB Pte Ltd		
<b>Current PQS status:</b>	pre-qualified ; 01 Oct 2020	<b>Valid until:</b>	May, 2023

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

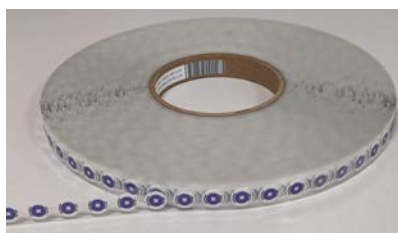


## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/071</b>
<b>Description:</b>	Vaccine Vial Monitor Type 1
<b>Manufacturer's ref:</b>	HEATmarker® VVM1
<b>Manufactured in:</b>	United States
<b>Company:</b>	Temptime Corporation, A Zebra Technologies Company
<b>Address:</b>	116 American Road, Morris Plains, NJ, 07950, United States
<b>Telephone:</b>	+1 973 630 6000
<b>Email:</b>	<a href="mailto:TempMonitoring@zebra.com">TempMonitoring@zebra.com</a>
<b>Web address:</b>	<a href="http://www.zebra.com/tempmonitoring">www.zebra.com/tempmonitoring</a>

## Specifications

Product type:	Vaccine vial monitor	Main material:	
Mode of operation:	Chemical	Dimensions:	
Minimum temperature:	□□□□□-12°C	Weight	
Maximum temperature:	+93°C	Display medium:	Self-adhesive labels supplied on rolls
Time to endpoint 37°C:	1	Time to endpoint 25°C:	0
Time to endpoint 5°C:			
	Full label	Dot	
Minimum order :	500,000	50,000	
Standard label size:	20 mm x 44 mm	10 mm dot (circle)	
	57 mm x 15 mm	16 mm 10 mm (rectangular)	
	48 mm x 18 mm		
Indicators per roll:	10,000	10,000	
Core size:	76 mm	76 mm	
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 per unit:	On request to manufacturer	Incoterms:	EXW
Quality standard:	;#ISO 9001:2008;#		
Verification report:		Verification laboratory:	Lisaline Lifescience Technologies PVT. LTD
Current PQS status:	pre-qualified; 11 Jan 2021		Valid until : May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/072</b>
<b>Description:</b>	Combined VVM30 & Threshold Indicator40
<b>Manufacturer's ref:</b>	HEATmarker® VVM+30
<b>Manufactured in:</b>	United States
<b>Company:</b>	Temptime Corporation, A Zebra Technologies Company
<b>Address:</b>	116 American Road, Morris Plains, NJ, 07950, United States
<b>Telephone:</b>	+1 973 630 6000
<b>Email:</b>	<a href="mailto:TempMonitoring@zebra.com">TempMonitoring@zebra.com</a>
<b>Web address:</b>	<a href="http://www.zebra.com/tempmonitoring">www.zebra.com/tempmonitoring</a>

## Specifications

<b>Product type:</b>	Vaccine vial monitor	<b>Main material:</b>	
<b>Mode of operation:</b>	Chemical	<b>Dimensions:</b>	
<b>Minimum temperature:</b>		<b>Weight</b>	
<b>Maximum temperature:</b>		<b>Display medium:</b>	
<b>Time to endpoint 37°C:</b>	30	<b>Time to endpoint 25°C:</b>	193
<b>Time to endpoint 5°C:</b>			
	<b>Full label</b>	<b>Dot</b>	
<b>Minimum order :</b>	500,000	50,000	
<b>Standard label size:</b>	20 mm x 44 mm	10 mm dot (circle)	
	57 mm x 15 mm	16 mm 10 mm (rectangular)	
	48 mm x 18 mm		
<b>Indicators per roll:</b>	10,000	10,000	
<b>Core size:</b>	76 mm	76 mm	
<b>Comments:</b>	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.		
<b>Price per unit:</b>	On request to manufacturer	<b>Incoterms:</b>	EXW
<b>Quality standard:</b>	;#ISO 9001:2015;#		
<b>Verification report:</b>		<b>Verification laboratory:</b>	Lisaline Lifescience Technologies PVT. LTD
<b>Current PQS status:</b>	pre-qualified; 15 Jan 2021	<b>Valid until :</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/073</b>
<b>Description:</b>	USER PROGRAMMABLE DATA LOGGER
<b>Manufacturer's ref:</b>	mSupply ColdChain
<b>Manufactured in:</b>	United Kingdom
<b>Company:</b>	The mSupply Foundation
<b>Address:</b>	The mSupply Foundation, 111 Karangahape Rd, Auckland 1010, New Zealand

**Telephone:** +64225190499  
**Email:** [coldchain@msupply.foundation](mailto:coldchain@msupply.foundation)  
**Web address:** <https://msupply.foundation/projects/coldchain>

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	Mobile device
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.0083kg
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	polycarbonate enclosure
<b>Maximum temperature:</b>	+75°C	<b>Dimensions:</b>	Diameter: 3.38cm, Height: 1.02cm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	+/-0.3°C	<b>Min logging interval:</b>	1 minute
<b>Power source:</b>	Replaceable Battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	3V: CR2032: Lithium	<b>User interface:</b>	via mSupply ColdChain application on tablet
<b>Battery shelf life:</b>	2 years	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	12 onths	<b>IP rating:</b>	IP54
<b>Memory capacity:</b>	20,000 datapoints		

### Comments:

mSupply ColdChain is an electronic temperature data logger. The system uses Bluetooth to configure each sensor (individual or default sensor settings are possible) as well as display temperature logs. The use of Bluetooth removes the requirement for physical connection (via sensor lead or USB) or internet connectivity. Data can still synchronise to the cloud if internet is available.

mSupply ColdChain provides immediate display of received temperature logs - both graphical and tabular data display are available. Sensor log intervals can be programmed between 1 and 100 minutes. Delayed log start functionality can also be programmed. The sensor itself can store up to 20,000 data points. mSupply ColdChain provides unlimited storage on the tablet and removes old data from the sensor during synchronisation. Temperature logs (either all or specified period) can be exported and shared via csv. Logs can also be sent to mSupply desktop and dashboards if configured.

User programmable visual alarms can be set for temperature breaches (including high and low single exposure, and high and low cumulative exposure). Cumulative breaches can also be defined by time period

<b>Minimum order:</b>	1	<b>Year base price:</b>	2021
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	1
<b>Price per unit:</b>	\$35.88	<b>Volume per carton:</b>	0.000005 m3
		<b>Weight per carton:</b>	0.01 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>		<b>Verification laboratory:</b>	Intertek India
<b>Current PQS status:</b>	pre-qualified ; 08 Feb 2021	<b>Valid until:</b>	May, 2023

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



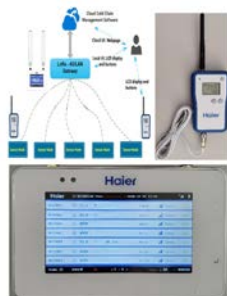
## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/074</b>
<b>Description:</b>	USER PROGRAMMABLE DATA LOGGER
<b>Manufacturer's ref:</b>	NT TEMPERATURE DATA LOGGER
<b>Manufactured in:</b>	India
<b>Company:</b>	BPRO LABS PVT LTD
<b>Address:</b>	A1 Deju Plaza , No. 2 South Avenue, Srinagar Colony, Saidapet, Chennai TN-600 015, INDIA
<b>Telephone:</b>	(+91) 90039 00188
<b>Email:</b>	<a href="mailto:hanifa@bprolabs.com">hanifa@bprolabs.com</a> / <a href="mailto:info@bprolabs.com">info@bprolabs.com</a>
<b>Web address:</b>	<a href="http://www.bprolabs.com">www.bprolabs.com</a>

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LCD Display
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	75 g
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	+70°C	<b>Dimensions:</b>	97 X 49 X 23 mm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/-0.5°C (-30°C to +50°C) and +/-1.0°C(+50°C - 70°C)	<b>Min logging interval:</b>	1 minute
<b>Power source:</b>	3.6V DC user replaceable Battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Li-SOCl2 Lithium	<b>User interface:</b>	LCD DISPLAY
<b>Battery shelf life:</b>	2 years	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	12-15 months	<b>IP rating:</b>	IP54
<b>Memory capacity:</b>	32000 datapoints		
<b>Comments:</b>	User Replacable Battery, Shadow Logging Feature, Alarm Log Report etc.,		
<b>Minimum order:</b>	1	<b>Year base price:</b>	2021
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	
<b>Price per unit:</b>	\$17 for MOQ of 100 Nos	<b>Volume per carton:</b>	
		<b>Weight per carton:</b>	
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>		<b>Verification laboratory:</b>	Techbio Solutions
<b>Current PQS status:</b>	<i>pre-qualified ; 08 Feb 2021</i>	<b>Valid until:</b>	<i>May, 2022</i>
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			





## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/075</b>
<b>Description:</b>	Remote Temperature Monitoring Device
<b>Manufacturer's ref:</b>	U-COOL-LORA
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Haier Biomedical Co., Ltd
<b>Address:</b>	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
<b>Telephone:</b>	+86-532-88935593
<b>Email:</b>	<a href="mailto:wenming.wang@haierbiomedical.com">wenming.wang@haierbiomedical.com</a>
<b>Web address:</b>	<a href="http://www.haiermedical.com">http://www.haiermedical.com</a>

## Specifications

<b>Product type:</b>	Remote Temperature Monitoring System	<b>Display medium:</b>	LCD Display
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.64Kg
<b>Minimum temperature:</b>	-40°C	<b>Main material:</b>	Gateway: Aluminium frame; Logger: ABS
<b>Maximum temperature:</b>	+80°C	<b>Dimensions:</b>	160 x 100 x 33 mm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/-0.5°C	<b>Min logging interval:</b>	1 minute
<b>Power source:</b>	Mains + backup battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Lithium	<b>User interface:</b>	LCD DISPLAY
<b>Battery shelf life:</b>	3 years	<b>Programmability:</b>	Not applicable
<b>Activated life:</b>	36 months	<b>IP rating:</b>	IP50
<b>Memory capacity:</b>	Memory capacity (readings) 30 days on board, 10years on portal Alarm type		
<b>Comments:</b>	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.		
<b>Minimum order:</b>	1	<b>Year base price:</b>	2021
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	1
<b>Price per unit:</b>	The software fee: 200 USD to 300 per year The hardware fee: 1350USD (1-50 units) The hardware fee: 1300USD (51-100 unit)	<b>Volume per carton:</b>	0.023 m3
		<b>Weight per carton:</b>	1X Gateway: 0.64Kg
		<b>Incoterms:</b>	FCA
<b>Verification report:</b>	<b>Verification laboratory:</b>		
<b>Current PQS status:</b>	pre-qualified ; 08 Feb 2021	<b>Valid until:</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			



PERFORMANCE QUALITY SAFETY



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/076</b>
<b>Description:</b>	User programmable data logger
<b>Manufacturer's ref:</b>	UTRID-16
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	LogTag Recorders Limited
<b>Address:</b>	PO Box 362-95, Northcote, Auckland, New Zealand

**Telephone:** +64 9 444 5881  
**Email:** [sales@logtagrecorders.com](mailto:sales@logtagrecorders.com)  
**Web address:** [www.logtagrecorders.com](http://www.logtagrecorders.com)

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LCD Display
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	39 grams
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	Polycarbonate
<b>Maximum temperature:</b>	+65°C	<b>Dimensions:</b>	93mm(H) x 54.5mm (W) x 8.6mm (T) including USB cap

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	Better than $\pm 0.5$ °C for -20 °C to +40 °C, better than $\pm 0.7$ °C for -30 °C to -20 °C and +40 °C to +60	<b>Min logging interval:</b>	1 minute
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	CR2450 3V Li-MnO2 UN38.3 approved coin cell	<b>User interface:</b>	USB / Display / Buttons
<b>Battery shelf life:</b>	12 months	<b>Programmability:</b>	Not applicable
<b>Activated life:</b>	24 months	<b>IP rating:</b>	IP65
<b>Memory capacity:</b>	16,129 readings		

<b>Comments:</b>	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.
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<b>Minimum order:</b>	20	<b>Year base price:</b>	2021
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	50
<b>Price per unit:</b>	48 USD	<b>Volume per carton:</b>	0.028
		<b>Weight per carton:</b>	2.3 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	7191245516-EEC20-01-PSB-WHO	<b>Verification laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Current PQS status:</b>	pre-qualified ; 18 Mar 2021	<b>Valid until:</b>	May, 2023

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



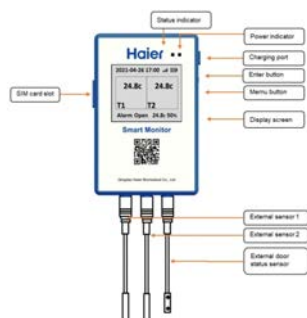
## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/077</b>
<b>Description:</b>	Electronic Shipping Indicator
<b>Manufacturer's ref:</b>	Parsyl Trek Tab
<b>Manufactured in:</b>	
<b>Company:</b>	Parsyl Inc.
<b>Address:</b>	Parsyl Inc. 2825 Larimer Str, Denver, CO 80205 USA
<b>Telephone:</b>	+1 (844) 472-7795
<b>Email:</b>	<a href="mailto:ssawadogo@parsyl.com">ssawadogo@parsyl.com</a>
<b>Web address:</b>	<a href="http://www.parsyl.com">www.parsyl.com</a>

## Specifications

<b>Product type:</b>	Electronic Shipping Indicator	<b>Display medium:</b>	Mobile device
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.009 kg
<b>Minimum temperature:</b>	-30°C	<b>Main material:</b>	Polycarbonate + ABS
<b>Maximum temperature:</b>	+70°C	<b>Dimensions:</b>	5.1x 2.6x 0.53
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/-0.4°C	<b>Min logging interval:</b>	1 sec
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Not applicable
<b>Battery type:</b>	3V LiMnO2	<b>User interface:</b>	mobile app, LED
<b>Battery shelf life:</b>	2 years	<b>Programmability:</b>	Not applicable
<b>Activated life:</b>	3 months	<b>IP rating:</b>	IP67
<b>Memory capacity:</b>	14,400 samples		
<b>Comments:</b>			
<b>Minimum order:</b>	50	<b>Year base price:</b>	2021
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	50
<b>Price per unit:</b>	Pricing models vary	<b>Volume per carton:</b>	0.021609
		<b>Weight per carton:</b>	5.2
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	1006736-001	<b>Verification laboratory:</b>	Intertek India
<b>Current PQS status:</b>	pre-qualified ; 26 Apr 2021	<b>Valid until:</b>	May, 2024

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



## E006: Temperature monitoring devices

**PQS code:** E006/078

**Description:** Remote Temperature Monitoring Device

**Manufacturer's ref:** U-COOL Pro

**Manufactured in:**

**Company:** Qingdao Haier Biomedical Co., Ltd

**Address:** No.280 Fengyuan Road  
High-tech Zone  
Qingdao(266111),  
China; People's Republic of

**Telephone:** +86-532-88935593

**Email:** [wenming.wang@haierbiomedical.com](mailto:wenming.wang@haierbiomedical.com)

**Web address:** <http://www.haiermedical.com>

## Specifications

<b>Product type:</b>	Remote Temperature Monitoring System	<b>Display medium:</b>	LCD Display
<b>Mode of operation:</b>		<b>Weight</b>	200 g
<b>Minimum temperature:</b>	-40 °C	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	+65°C	<b>Dimensions:</b>	112mm*75mm*21mm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	±0.5°C	<b>Min logging interval:</b>	1 min
<b>Power source:</b>	Replaceable Battery	<b>Alarm type:</b>	Acoustic
<b>Battery type:</b>		<b>User interface:</b>	LCD screen
<b>Battery shelf life:</b>	2 years	<b>Programmability:</b>	Not applicable
<b>Activated life:</b>	36 months	<b>IP rating:</b>	
<b>Memory capacity:</b>			
<b>Comments:</b>	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.		
<b>Minimum order:</b>		<b>Year base price:</b>	2021
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	
<b>Price per unit:</b>		<b>Volume per carton:</b>	
		<b>Weight per carton:</b>	
		<b>Incoterms:</b>	
<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified ; 08 Jun 2021	<b>Valid until:</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			

**E006: Temperature monitoring devices**

<b>PQS code:</b>	<b>E006/079</b>
<b>Description:</b>	USER PROGRAMMABLE DATA LOGGER
<b>Manufacturer's ref:</b>	Honeywell BluTag 360™
<b>Manufactured in:</b>	India
<b>Company:</b>	Honeywell International (India) Private Limited
<b>Address:</b>	302, Level 3, Summer Court, Near Seasons Mall Magarpatta City, Hadapsar, Pune - 411013 India
<b>Telephone:</b>	+91 9820717523
<b>Email:</b>	<a href="mailto:Suraj.Subramoniam@Honeywell.com">Suraj.Subramoniam@Honeywell.com</a>
<b>Web address:</b>	<a href="https://blutag360.honeywell.com/">https://blutag360.honeywell.com/</a>

**Specifications**

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LED + Digital display through Honeywell BluTag 360™ Software
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	~0.050 kg
<b>Minimum temperature:</b>	-30 degree	<b>Main material:</b>	Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS)
<b>Maximum temperature:</b>	60 degrees	<b>Dimensions:</b>	76.9 x 61.2 x 13.5 mm

**MECHANICAL AND ELECTRONIC DEVICES ONLY**

<b>Accuracy:</b>	-/+ 0.5 °C	<b>Min logging interval:</b>	1 minute
<b>Power source:</b>	coin cell battery 3V	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Lithium Coin	<b>User interface:</b>	USB
<b>Battery shelf life:</b>	18 months from the date of Manufacturing	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	12 Months (min)	<b>IP rating:</b>	IP65
<b>Memory capacity:</b>	16,000 data points		

<b>Comments:</b>	"Features - Customizable text area in Configuration page available in Software to fill additional information (e.g. shipment information, instructions for recipient if any, Product description etc.) that would be visible upon generation of shipment report Any event of excursion can be checked directly by inspecting the data logger's LED display ( A solid green light would indicate no excursion, while a red light would indicate excursion) or in more detail by downloading the logged data via USB interface to a PC running Honeywell BluTag 360 software -Shipment reports can be downloaded in PDF + EXCEL. In case of single use configuration, a PDF report is automatically generated without need for any software. NIST Traceable Calibration Validation Certificate available for download for every single device via Honeywell BluTag 360 software"
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<b>Minimum order:</b>	20	<b>Year base price:</b>	2021
<b>Quality standard:</b>	- ISO 9001:2015 - ISO 17025 -	<b>Pieces per carton:</b>	20
<b>Price per unit:</b>	MOQ of 20 to 100 units - \$ 20 / unit MOQ of 20 to 100 units - \$ 18 / unit MOQ of 20 to 100 units - \$ 16 / unit	<b>Volume per carton:</b>	0.0057 m3
		<b>Weight per carton:</b>	1.2 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	19647169 001 (TUV )	<b>Verification laboratory:</b>	TUV SUD PSB Pte Ltd
<b>Current PQS status:</b>	pre-qualified ; 06 Jul 2021	<b>Valid until:</b>	May, 2024

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/080</b>
<b>Description:</b>	Remote Temperature Monitoring Device
<b>Manufacturer's ref:</b>	Parsyl Trek Pro & Gateway
<b>Manufactured in:</b>	Thailand
<b>Company:</b>	Parsyl Inc.
<b>Address:</b>	Parsyl Inc. 2825 Larimer Str, Denver, CO 80205 USA
<b>Telephone:</b>	+1 (844) 472-7795
<b>Email:</b>	<a href="mailto:ssawadogo@parsyl.com">ssawadogo@parsyl.com</a>
<b>Web address:</b>	<a href="http://www.parsyl.com">www.parsyl.com</a>

## Specifications

<b>Product type:</b>	Acoustic and / or visual alarm units	<b>Display medium:</b>	LED and mobile phone
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.579 kg
<b>Minimum temperature:</b>	-40°C	<b>Main material:</b>	Polycarbonate + ABS
<b>Maximum temperature:</b>	+70°C	<b>Dimensions:</b>	2.0x3.9x10 cm (Trek Pro), 4.2x9.8x11.7 cm (Gateway)
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	0.1 °C	<b>Min logging interval:</b>	1 sec
<b>Power source:</b>	Mains + backup battery	<b>Alarm type:</b>	Not applicable
<b>Battery type:</b>	3V LiFeS2	<b>User interface:</b>	Switch, button, LEDs, audible alarms, mobile appli
<b>Battery shelf life:</b>	10 years	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	36 months	<b>IP rating:</b>	
<b>Memory capacity:</b>			
<b>Comments:</b>	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 & Gateway includes: Global SIM data, access to the Parsyl platform, 3 year warranty, and SMS/email notifications.		
<b>Minimum order:</b>	1	<b>Year base price:</b>	2022
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	2
<b>Price per unit:</b>	\$400	<b>Volume per carton:</b>	0.021609 m3
		<b>Weight per carton:</b>	24.7 g
		<b>Incoterms:</b>	FCA
<b>Verification report:</b>	1006736-001	<b>Verification laboratory:</b>	Tektronix Service Solutions
<b>Current PQS status:</b>	pre-qualified ; 24 Mar 2022	<b>Valid until:</b>	May, 2024

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/081</b>
<b>Description:</b>	30 Day Temperature Logger
<b>Manufacturer's ref:</b>	LM-XS Pro E006
<b>Manufactured in:</b>	India
<b>Company:</b>	G-Tek Corporation Private Limited
<b>Address:</b>	3, JALARAM MANDIR ROAD, MAHAVIR INDUSTRIAL ESTATE, KARELIBAUG, Karelilbagh Vadodara - 390018, Gujarat, India
<b>Telephone:</b>	+91 98 242 61702
<b>Email:</b>	<a href="mailto:asu@gtek-india.com">asu@gtek-india.com</a>
<b>Web address:</b>	<a href="http://www.gtek-india.com">www.gtek-india.com</a>

## Specifications

<b>Product type:</b>	30-day electronic refrigerator temperature logger	<b>Display medium:</b>	LCD Display
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.10 kg
<b>Minimum temperature:</b>	-40 °C	<b>Main material:</b>	Polycarbonate plastic; non-breakable, non-corrodible
<b>Maximum temperature:</b>	+60 °C	<b>Dimensions:</b>	12.8 (L) x 6.0 (W) x 2.0 (H) cm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	-/+ 0.5 °C	<b>Min logging interval:</b>	1 minute (5 minutes prefixed)
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	"Non-Replaceable 3.0 V 950mAh; CR2477 Panasonic	<b>User interface:</b>	LCD
<b>Battery shelf life:</b>	3.5 years	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	36 months	<b>IP rating:</b>	IP64
<b>Memory capacity:</b>	34560 records		

### Comments:

"(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."

<b>Minimum order:</b>	1	<b>Year base price:</b>	2022
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	30
<b>Price per unit:</b>	1-100 units: US\$75 per unit 101-250 units: US\$55 per unit > 250 units :Consult Factory	<b>Volume per carton:</b>	0.038 m3
		<b>Weight per carton:</b>	8 Kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	Intertek India Private Limited	<b>Verification laboratory:</b>	Intertek India
<b>Current PQS status:</b>	pre-qualified ; 26 Apr 2022	<b>Valid until:</b>	May, 2023

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





## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/082</b>
<b>Description:</b>	USER PROGRAMMABLE DATA LOGGER
<b>Manufacturer's ref:</b>	Vac-TL-01
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Inspired Technology Ltd
<b>Address:</b>	10, ANSON ROAD, #22 02INTERNATIONAL PLAZA, SINGAPORE 079903
<b>Telephone:</b>	+971589887197
<b>Email:</b>	<a href="mailto:mohamed@inspiredtechnology.co">mohamed@inspiredtechnology.co</a>
<b>Web address:</b>	<a href="http://www.inspiredtechnology.co">http://www.inspiredtechnology.co</a>

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.065 kg
<b>Minimum temperature:</b>	-30 degree	<b>Main material:</b>	Polycarbonate
<b>Maximum temperature:</b>	+70°C	<b>Dimensions:</b>	9.7 X 5.3 X 8.0 cm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	`+/- 0.5°C (-20°C to +40°C); +/- 1.0°C(other range)	<b>Min logging interval:</b>	10 seconds
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Coin Cell Battery 3V	<b>User interface:</b>	LCD DISPLAY
<b>Battery shelf life:</b>	2 Years	<b>Programmability:</b>	User programmed
<b>Activated life:</b>		<b>IP rating:</b>	IP65
<b>Memory capacity:</b>	16,000 data points		
<b>Comments:</b>	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.		
<b>Minimum order:</b>	30	<b>Year base price:</b>	2022
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	30
<b>Price per unit:</b>	Price per unit : \$20EA Price per 10 units : \$20EA 100+ units: \$19 EA; 500+ units on request.	<b>Volume per carton:</b>	0.004m3
		<b>Weight per carton:</b>	1.8 Kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	CE-JOB-NDA-21-000878-001	<b>Verification laboratory:</b>	Intertek India
<b>Current PQS status:</b>	pre-qualified ; 26 Apr 2022	<b>Valid until:</b>	May, 2024

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





PERFORMANCE QUALITY SAFETY



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/083</b>
<b>Description:</b>	User programmable data logger
<b>Manufacturer's ref:</b>	LogEt 1
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Elitech Technology Inc.
<b>Address:</b>	2528 Qume Dr. Ste 2, San Jose, CA 95131
<b>Telephone:</b>	+86 188 7332 5608
<b>Email:</b>	<a href="mailto:ellie@e-elitech.com">ellie@e-elitech.com</a>
<b>Web address:</b>	<a href="http://www.elitechlog.com">www.elitechlog.com</a>

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.065 kg
<b>Minimum temperature:</b>	-30°	<b>Main material:</b>	Polycarbonate
<b>Maximum temperature:</b>	+70°C	<b>Dimensions:</b>	9.7 X 5.3 X 8.0 cm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	-/+ 0.5 °C	<b>Min logging interval:</b>	10 seconds
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Coin Cell Battery 3V	<b>User interface:</b>	LCD DISPLAY
<b>Battery shelf life:</b>	2 years	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	6 months	<b>IP rating:</b>	IP67
<b>Memory capacity:</b>	16,000 data points		

### 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  
 "

<b>Minimum order:</b>	30	<b>Year base price:</b>	2022
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	30
<b>Price per unit:</b>	30-100 units: 18.50 USD	<b>Volume per carton:</b>	0.0043 m3
	100-500 units: 17.50 USD	<b>Weight per carton:</b>	1.8 Kg
	>500 units: on request to manufacturer	<b>Incoterms:</b>	EXW

<b>Verification report:</b>	TUV E8A 114320 0001 Rev. 00	<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified ; 02 Jun 2022	<b>Valid until:</b>	May, 2023

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/084</b>
<b>Description:</b>	User programmable data logger
<b>Manufacturer's ref:</b>	Parsyl Trek Tab
<b>Manufactured in:</b>	Thailand
<b>Company:</b>	Parsyl Inc.
<b>Address:</b>	Parsyl Inc. 2825 Larimer Str, Denver, CO 80205 USA
<b>Telephone:</b>	+1 (844) 472-7795
<b>Email:</b>	<a href="mailto:ssawadogo@parsyl.com">ssawadogo@parsyl.com</a>
<b>Web address:</b>	<a href="http://www.parsyl.com">www.parsyl.com</a>

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.009 kg
<b>Minimum temperature:</b>		<b>Main material:</b>	Polycarbonate + ABS
<b>Maximum temperature:</b>		<b>Dimensions:</b>	5.1x 2.6x 0.53

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	-/+ 0.5 °C	<b>Min logging interval:</b>	1 sec
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Not applicable
<b>Battery type:</b>	3V LiMnO2	<b>User interface:</b>	mobile app, LED
<b>Battery shelf life:</b>	2 years	<b>Programmability:</b>	Not applicable
<b>Activated life:</b>	12 Months (min)	<b>IP rating:</b>	
<b>Memory capacity:</b>	10,000 datapoints		

<b>Comments:</b>	<p>""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.</p> <ul style="list-style-type: none"><li>• The Trek Tab device includes temperature sensor.</li><li>• Users can configure multiple visual alarms to alert them when a threshold has been breached.</li><li>• 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.</li><li>• 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.</li><li>• Offloaded data is automatically uploaded to the Parsyl web platform.</li><li>• 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.</li><li>• The Parsyl web application provides timelines and details of excursions that help to prevent the same issues from happening again in the future.</li></ul>		
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<b>Minimum order:</b>	50	<b>Year base price:</b>	2022
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	50
<b>Price per unit:</b>	\$12	<b>Volume per carton:</b>	0.02
		<b>Weight per carton:</b>	5.2 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>		<b>Verification laboratory:</b>	Intertek India
<b>Current PQS status:</b>	<i>pre-qualified ; 02 Jun 2022</i>		<b>Valid until:</b> <i>May, 2024</i>

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/085</b>
<b>Description:</b>	User programmable data logger
<b>Manufacturer's ref:</b>	testo 184 T3
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Testo SE & Co. KGaA
<b>Address:</b>	Celsiusstr. 2 79822 Titisee-Neustadt Germany
<b>Telephone:</b>	+49 7653 681 – 6156
<b>Email:</b>	
<b>Web address:</b>	<a href="http://www.testo.de">www.testo.de</a>

## Specifications

<b>Product type:</b>	User-programmable temperature data logger	<b>Display medium:</b>	LCD Display
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	45g
<b>Minimum temperature:</b>	-35°C	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	+70°C	<b>Dimensions:</b>	97 X 12 X 40 mm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	-/+ 0.5 °C	<b>Min logging interval:</b>	1 minute
<b>Power source:</b>	Replaceable Battery	<b>Alarm type:</b>	Not applicable
<b>Battery type:</b>	CR2450 3V	<b>User interface:</b>	2 buttons, 3 LED, 1 display
<b>Battery shelf life:</b>	10 years	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	3 months	<b>IP rating:</b>	IP67
<b>Memory capacity:</b>	40,000 datapoints		

### 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."

<b>Minimum order:</b>		<b>Year base price:</b>	2022
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	
<b>Price per unit:</b>	108 euros	<b>Volume per carton:</b>	
		<b>Weight per carton:</b>	
		<b>Incoterms:</b>	
<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified ; 01 Jul 2022	<b>Valid until:</b>	May, 2024

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/086</b>
<b>Description:</b>	Electronic Shipping Indicator
<b>Manufacturer's ref:</b>	Vax Ultima
<b>Manufactured in:</b>	
<b>Company:</b>	Inspired Technology Ltd
<b>Address:</b>	10, ANSON ROAD, #22 02INTERNATIONAL PLAZA, SINGAPORE 079903
<b>Telephone:</b>	+971589887197
<b>Email:</b>	<a href="mailto:mohamed@inspiredtechnology.co">mohamed@inspiredtechnology.co</a>
<b>Web address:</b>	<a href="http://www.inspiredtechnology.co">http://www.inspiredtechnology.co</a>

## Specifications

<b>Product type:</b>	Electronic Shipping Indicator	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.03kg
<b>Minimum temperature:</b>	-30 degree	<b>Main material:</b>	ABS
<b>Maximum temperature:</b>	+60 °C	<b>Dimensions:</b>	9.55 X 4.90 X 0.78 cm
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	+/-0.5°C	<b>Min logging interval:</b>	1 seconds
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	Coin Cell Battery 3V	<b>User interface:</b>	LCD and PC downloadable
<b>Battery shelf life:</b>	2 years	<b>Programmability:</b>	Not applicable
<b>Activated life:</b>	12 Months (min)	<b>IP rating:</b>	IP65
<b>Memory capacity:</b>	32000 datapoints		
<b>Comments:</b>	<p>"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.</p> <p>Vax Ultima-Electronic shipping indicator is supplied Pre-programmed four versions :</p> <ul style="list-style-type: none"> <li>• 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).</li> <li>• 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.</li> <li>• Type Rotateq: Rotateq only</li> <li>• Type Prevenar: only for Prevenar 7 and 13 -valent conjugated vaccine.</li> </ul> <p>Each version is offered with 111 days recording period @ 5 minutes recording interval &amp; 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."</p>		
<b>Minimum order:</b>	20	<b>Year base price:</b>	2022
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	20
<b>Price per unit:</b>	\$21	<b>Volume per carton:</b>	0.002 m3
		<b>Weight per carton:</b>	0.65 KG
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>		<b>Verification laboratory:</b>	Techbio Solutions
<b>Current PQS status:</b>	pre-qualified ; 14 Sep 2022	<b>Valid until:</b>	May, 2024

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



## E006: Temperature monitoring devices

**PQS code:** E006/087

**Description:** Remote Temperature Monitoring Device

**Manufacturer's ref:** SmartMonitor SITE L

**Manufactured in:** Sri Lanka

**Company:** Berlinger & Co. AG

**Address:** Mitteldorfstrasse 2,  
CH-9608 Ganterschwil,  
Switzerland

**Telephone:** +41 (71) 982 88 11

**Email:** [info@berlinger.com](mailto:info@berlinger.com),

**Web address:** <http://www.berlinger.com>

# Specifications

<b>Product type:</b>	Remote Temperature Monitoring System	<b>Display medium:</b>	Liquid Crystal
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	180 g
<b>Minimum temperature:</b>	-40 °C	<b>Main material:</b>	plastic housing
<b>Maximum temperature:</b>	+75 °C	<b>Dimensions:</b>	7.2 x 12.5 x 2.0 cm

## MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	+/- 0.5°C in the range of [-10°C, +45°C]	<b>Min logging interval:</b>	5 minutes
<b>Power source:</b>	Mains + backup battery	<b>Alarm type:</b>	Acoustic
<b>Battery type:</b>	Ni-MH battery pack	<b>User interface:</b>	USB & cloud
<b>Battery shelf life:</b>	0.5 years	<b>Programmability:</b>	User programmed
<b>Activated life:</b>	7 days	<b>IP rating:</b>	UIP65
<b>Memory capacity:</b>			

"Remote temperature monitoring of refrigerator/freezers.

As part of the SmartSystem, the SmartMonitor SITE L provides real-time monitoring of temperature alarms through visual and acoustic alarms. At the same time transmits status monitoring data to the central SmartView platform, which displays all measurement data, trends and alarms. SmartView also provides alarm notification for customer-defined contacts to selected cell phones and/or email. The SmartSystem includes SmartView software and global mobile network coverage (cellular). The SmartMonitor features visual + audio alarms on the device.

### Comments:

The SmartMonitor SITE L covers a temperature range from -200 °C to +75 °C, with specific SmartSensors for different temperature ranges and up to 24 individually programmable alarm rules for temperature and humidity. The communication technologies included are Cellular LTE Cat M1 (4G/5G), NB-IoT, 2G; WiFi; GNSS. Webbased SmartView can be used by multiple users without installing additional software. Temperature data can be integrated into other systems (LMIS etc).

#### Accessories:

- SmartCradle for secure mounting of the SmartMonitor SITE L
- SmartHub for connecting up to 4 external sensors to the SITE L SmartMonitor.
- SmartSensor extension cable for efficient and reliable installation (1m)

More information: <https://www.berlinger.com/temperature-monitoring/services/smartsystem-user-support>"

<b>Minimum order:</b>	10	<b>Year base price:</b>	2023
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	10
<b>Price per unit:</b>	USD 325	<b>Volume per carton:</b>	0.023 m3
		<b>Weight per carton:</b>	2.00 kg
		<b>Incoterms:</b>	FCA

<b>Verification report:</b>	<b>Verification laboratory:</b>		
<b>Current PQS status:</b>	<i>pre-qualified ; 29 Jan 2023</i>	<b>Valid until:</b>	<i>May, 2024</i>

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



## E006: Temperature monitoring devices

**PQS code:** E006/088

**Description:** Electronic Shipping Indicator - ULT

**Manufacturer's ref:** Q-tag CLM doc D

**Manufactured in:** Switzerland

**Company:** Berlinger & Co. AG

**Address:** Mitteldorfstrasse 2,  
CH-9608 Ganterischwil,  
Switzerland

**Telephone:** +41 (71) 982 88 11

**Email:** [info@berlinger.com](mailto:info@berlinger.com),

**Web address:** <http://www.berlinger.com>

## Specifications

<b>Product type:</b>	Electronic Shipping Indicator	<b>Display medium:</b>	LCD Display
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	54 g
<b>Minimum temperature:</b>	-96°C	<b>Main material:</b>	Plastic housing
<b>Maximum temperature:</b>	+30°C	<b>Dimensions:</b>	94 x 54 x 20 mm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	+/- 0.5°C from -30°C to +30°C   +/- 1.5°C from -96°C to -30°C	<b>Min logging interval:</b>	1 min
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>		<b>User interface:</b>	LCD DISPLAY
<b>Battery shelf life:</b>	1 1/2 year	<b>Programmability:</b>	Not applicable
<b>Activated life:</b>	1.3 months	<b>IP rating:</b>	IP65
<b>Memory capacity:</b>	38,000 data points		

"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.

**Comments:**

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"

<b>Minimum order:</b>	20	<b>Year base price:</b>	2023
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	25
<b>Price per unit:</b>	\$98.5	<b>Volume per carton:</b>	0.0045 m3
		<b>Weight per carton:</b>	1.68 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	VA15-00564 / VA18-02042	<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified ; 16 Feb 2023	<b>Valid until:</b>	May, 2024

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





## E006: Temperature monitoring devices

**PQS code:** E006/089

**Description:** Electronic Shipping Indicator

**Manufacturer's ref:** Q-tag CLM doc Ice

**Manufactured in:** Switzerland

**Company:** Berlinger & Co. AG

**Address:** Mitteldorfstrasse 2,  
CH-9608 Ganterischwil,  
Switzerland

**Telephone:** +41 (71) 982 88 11

**Email:** [info@berlinger.com](mailto:info@berlinger.com),

**Web address:** <http://www.berlinger.com>

## Specifications

<b>Product type:</b>	Electronic Shipping Indicator	<b>Display medium:</b>	Liquid Crystal
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	54 g
<b>Minimum temperature:</b>	-40 °C	<b>Main material:</b>	Plastic housing
<b>Maximum temperature:</b>	+60 °C	<b>Dimensions:</b>	94 x 54 x 20 mm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	+/- 0.5°C from -30°C to +40°C	<b>Min logging interval:</b>	1 min
<b>Power source:</b>		<b>Alarm type:</b>	Visual
<b>Battery type:</b>	LTC	<b>User interface:</b>	LCD
<b>Battery shelf life:</b>	1 1/2 year	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	1.3 months	<b>IP rating:</b>	IP65
<b>Memory capacity:</b>	38000 datapoints		

"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:

- Comments:**
- 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

<b>Minimum order:</b>	20	<b>Year base price:</b>	2023
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	25
<b>Price per unit:</b>		<b>Volume per carton:</b>	0.0045 m3
		<b>Weight per carton:</b>	1.68 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	VA15-00564	<b>Verification laboratory:</b>	Roth & CO AG
<b>Current PQS status:</b>	pre-qualified ; 16 Feb 2023	<b>Valid until:</b>	May, 2024

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





## E006: Temperature monitoring devices

**PQS code:** E006/090

**Description:** Electronic Shipping Indicator

**Manufacturer's ref:** Q-tag CLM doc Ice R

**Manufactured in:** Switzerland

**Company:** Berlinger & Co. AG

**Address:** Mitteldorfstrasse 2,  
CH-9608 Ganterwil,  
Switzerland

**Telephone:** +41 (71) 982 88 11

**Email:** [info@berlinger.com](mailto:info@berlinger.com),

**Web address:** <http://www.berlinger.com>

## Specifications

<b>Product type:</b>	Electronic Shipping Indicator	<b>Display medium:</b>	LCD Display
<b>Mode of operation:</b>		<b>Weight</b>	54 g
<b>Minimum temperature:</b>	-40 °C	<b>Main material:</b>	plastic housing
<b>Maximum temperature:</b>	+60°C	<b>Dimensions:</b>	94 x 54 x 20 mm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	+/- 0.8°C from -40°C to +60°C	<b>Min logging interval:</b>	1 min
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>		<b>User interface:</b>	LCD DISPLAY
<b>Battery shelf life:</b>	1 1/2 year	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	1.3 months	<b>IP rating:</b>	IP65
<b>Memory capacity:</b>	38,000 data points		

"Reusable freeze multi-alarm shipping temperature USB logger

For reoccurring 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:

### Comments:

- 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

<b>Minimum order:</b>	20	<b>Year base price:</b>	2023
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	25
<b>Price per unit:</b>	122.40	<b>Volume per carton:</b>	0.0045 m3
		<b>Weight per carton:</b>	1.68 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	VA15-00564	<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	pre-qualified ; 17 Feb 2023	<b>Valid until:</b>	May, 2024

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



## **E006:**      **Temperature monitoring devices**

**PQS code:**                      **E006/091**

**Description:**                      Remote Temperature Monitoring System

**Manufacturer's ref:**              CTX

**Manufactured in:**                India

**Company:**                        Nexleaf Analytics

**Address:**                         2356 Pelham Avenue  
Los Angeles  
CA 90064  
USA

*Telephone:*                        +12139156729

*Email:*                               [info@nexleaf.org](mailto:info@nexleaf.org)

*Web address:*                    [www.nexleaf.org](http://www.nexleaf.org)

# Specifications

<b>Product type:</b>	Remote Temperature Monitoring System	<b>Display medium:</b>	LCD Display
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.425 kg
<b>Minimum temperature:</b>	- 30°C	<b>Main material:</b>	Polycarbonate
<b>Maximum temperature:</b>	+ 55°C	<b>Dimensions:</b>	15.5 x 12.0 x 2.5cm

## MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	-/+ 0.5 °C	<b>Min logging interval:</b>	1 min
<b>Power source:</b>	replaceable battery	<b>Alarm type:</b>	Not applicable
<b>Battery type:</b>	Lithium	<b>User interface:</b>	LCD, buttons, LED, phone app
<b>Battery shelf life:</b>	2 years	<b>Programmability:</b>	Remotely programmable
<b>Activated life:</b>	60 mths from manufacture date	<b>IP rating:</b>	IP50
<b>Memory capacity:</b>	18,000 data points		

Electronic real-time temperature monitoring (RTM) system for storage rooms, freezers, walk-in cold

rooms, and refrigerators, equipped with:

\* Up to 16 wireless temperature sensors

\* 6 open door sensors

\* Base station 2G, NBloT, and WiFi capable with ambient temperature and humidity sensor

\* Sensors are Bluetooth Low Energy (BLE) 5.0 and can be used from mobile phones.

ColdTrace X (CTX) is the universal wireless RTM solution for the entire vaccine cold chain.

Deployed as a base station and up to 16 sensors, CTX can be used effectively in any storage facility,

from a clinic fridge to a national cold room. CTX's modular design makes deploying CTX simple, cost-effective, and scalable for your team; Nexleaf's 5-year warranty means you'll be able to rely on

CTX in the long term.

Through years of design and iteration, CTX solves the toughest RTM challenges: common hardware

means one common training curriculum, wireless sensors prevent broken cables, strong batteries and caching prevent data outages, and strong WiFi capability serves as a robust alternative to cellular data.

Nexleaf's ColdTrace software serves both the healthcare worker on the front lines, and the policymakers in the ministry. Easily-configurable text alerts empower healthcare workers to care for

## Comments:

at-risk vaccines and cold chain equipment. The ColdTrace.org data portal is used to examine temperature plots, create and schedule custom reports, and remotely configure devices. The installation workflow makes it easy to install new devices or fridges.

Purchase of 1000+ kits includes one year of a dedicated, full-time in-country Nexleaf impact consultant, whose role is to work side-by-side with your team to maximize your success with using CTX.

Features include:

1. 3-year warranty with purchase 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 CCE power and temperature

5. LMS interoperability: Single sign on (SSO), WHO PQS E006/DS01.1, and custom integrations available on request

1 fridge kit (1 base station, 1 temperature sensor, data subscription) 3-year all in price

\* 1000+ kits: \$439.40

\* 50 too 999 kits: \$467.80

\* 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 details.

Contact for 4x fridge kit, WIC kit, 2x WIC kit, 3x WIC kit pricing.

<b>Minimum order:</b>	1	<b>Year base price:</b>	2023
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	
<b>Price per unit:</b>	1000+ kits: \$439.40	<b>Volume per carton:</b>	
		<b>Weight per carton:</b>	
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>		<b>Verification laboratory:</b>	Intertek India
<b>Current PQS status:</b>	pre-qualified ; 14 Apr 2023	<b>Valid until:</b>	May, 2024

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

**E006: Temperature monitoring devices**

<b>PQS code:</b>	<b>E006/092</b>
<b>Description:</b>	Irreversible Freeze Indicator
<b>Manufacturer's ref:</b>	LM Pro IN031
<b>Manufactured in:</b>	India
<b>Company:</b>	G-Tek Corporation Private Limited
<b>Address:</b>	3, JALARAM MANDIR ROAD, MAHAVIR INDUSTRIAL ESTATE, KARELIBAUG, Karelilbagh Vadodara - 390018, Gujarat, India
<b>Telephone:</b>	+91 98 242 61702
<b>Email:</b>	<a href="mailto:asu@gtek-india.com">asu@gtek-india.com</a>
<b>Web address:</b>	<a href="http://www.gtek-india.com">www.gtek-india.com</a>

**Specifications**

<b>Product type:</b>	Irreversible freeze indicator	<b>Display medium:</b>	LCD
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0,030 kg
<b>Minimum temperature:</b>	- 20°C	<b>Main material:</b>	Polycarbonate plastic
<b>Maximum temperature:</b>	+50°C	<b>Dimensions:</b>	7.0 L x 3.5 W x 1.3 H cm

**MECHANICAL AND ELECTRONIC DEVICES ONLY**

<b>Accuracy:</b>	± 0.5 °C	<b>Min logging interval:</b>	
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Not applicable
<b>Battery type:</b>	Lithium Coin Cell Battery	<b>User interface:</b>	LCD
<b>Battery shelf life:</b>	3.5 years	<b>Programmability:</b>	Not applicable
<b>Activated life:</b>	42 months	<b>IP rating:</b>	
<b>Memory capacity:</b>			

**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.

<b>Minimum order:</b>	100	<b>Year base price:</b>	2023
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	
<b>Price per unit:</b>	\$6 for 100 units	<b>Volume per carton:</b>	0.0072 m3
		<b>Weight per carton:</b>	5 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified ; 15 May 2023</i>	<b>Valid until:</b>	

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/093</b>
<b>Description:</b>	30-Day Electronic Temperature logger
<b>Manufacturer's ref:</b>	Fridge-tag 2L
<b>Manufactured in:</b>	Malaysia
<b>Company:</b>	Berlinger & Co. AG
<b>Address:</b>	Mitteldorfstrasse 2, CH-9608 Ganterschwil, Switzerland
<b>Telephone:</b>	+41 (71) 982 88 11
<b>Email:</b>	<a href="mailto:info@berlinger.com">info@berlinger.com</a> ,
<b>Web address:</b>	<a href="http://www.berlinger.com">http://www.berlinger.com</a>

## Specifications

<b>Product type:</b>	30-day electronic refrigerator temperature logger	<b>Display medium:</b>	
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.112 kg
<b>Minimum temperature:</b>		<b>Main material:</b>	Plastic housing
<b>Maximum temperature:</b>		<b>Dimensions:</b>	12.8 x 7.5 x 1.9 cm

### MECHANICAL AND ELECTRONIC DEVICES ONLY

<b>Accuracy:</b>	+/- 0.5 °C	<b>Min logging interval:</b>	5 mn
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Not applicable
<b>Battery type:</b>	Lithium Button Cell	<b>User interface:</b>	LCD display
<b>Battery shelf life:</b>	1 year	<b>Programmability:</b>	
<b>Activated life:</b>	24 months	<b>IP rating:</b>	
<b>Memory capacity:</b>			

<b>Comments:</b>	<p>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.</p> <p>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.</p> <p>The Fridge Tag 2L has been verified to be compatible with:</p> <ul style="list-style-type: none"><li>- Berlinger SmartView software</li><li>- the free Varo app &lt;<a href="https://varo-app.org/">https://varo-app.org/</a>&gt;</li><li>- the free Pogo LT app &lt;<a href="https://pogo-lt.org/">https://pogo-lt.org/</a>&gt;</li><li>- Open mSupply (LMIS solution)</li></ul> <p>Discounts apply for large orders</p>
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<b>Minimum order:</b>		<b>Year base price:</b>	2023
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	
<b>Price per unit:</b>		<b>Volume per carton:</b>	
		<b>Weight per carton:</b>	
		<b>Incoterms:</b>	
<b>Verification report:</b>		<b>Verification laboratory:</b>	
<b>Current PQS status:</b>	<i>pre-qualified ; 16 May 2023</i>	<b>Valid until:</b>	

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



## E006: Temperature monitoring devices

<b>PQS code:</b>	<b>E006/094</b>
<b>Description:</b>	Electronic Shipping Indicator
<b>Manufacturer's ref:</b>	TempSir-VC
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Sichuan Etomatoes Technology Co Ltd
<b>Address:</b>	88 Tianchen Road, High-tech West District, Chengdu, China
<b>Telephone:</b>	+86 13684059332
<b>Email:</b>	<a href="mailto:cg@etomatoes.com">cg@etomatoes.com</a>
<b>Web address:</b>	<a href="http://etomatoes.com">etomatoes.com</a>

## Specifications

<b>Product type:</b>	Acoustic and / or visual alarm units	<b>Display medium:</b>	LCD Display
<b>Mode of operation:</b>	Electronic	<b>Weight</b>	0.057
<b>Minimum temperature:</b>	- 30°C	<b>Main material:</b>	Non-corrodible plastics
<b>Maximum temperature:</b>	+70°C	<b>Dimensions:</b>	10.25 x 5.2 x 1.6
<b>MECHANICAL AND ELECTRONIC DEVICES ONLY</b>			
<b>Accuracy:</b>	±0.5°C	<b>Min logging interval:</b>	1 min
<b>Power source:</b>	Non-replaceable battery	<b>Alarm type:</b>	Visual
<b>Battery type:</b>	3 V Lithium	<b>User interface:</b>	LCD display screen, with LEDs
<b>Battery shelf life:</b>	2 years	<b>Programmability:</b>	Factory programmed
<b>Activated life:</b>	6 months	<b>IP rating:</b>	IP65
<b>Memory capacity:</b>			
<b>Comments:</b>			
<b>Minimum order:</b>	15	<b>Year base price:</b>	2023
<b>Quality standard:</b>	- ISO 9001:2015 -	<b>Pieces per carton:</b>	15
<b>Price per unit:</b>	25~100 units: 18.0 USD 101~500 units: 17.0 USD	<b>Volume per carton:</b>	0.001078 m3
		<b>Weight per carton:</b>	0.92 kg
		<b>Incoterms:</b>	EXW
<b>Verification report:</b>	WB-22-0018	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	pre-qualified ; 25 Jul 2023	<b>Valid until:</b>	May, 2024
Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			

# E007

## Cold chain accessories

This section covers miscellaneous cold chain accessories. A PQS specification for small voltage stabilizers has now been published and manufacturers have been invited to submit products for re-qualification. Meanwhile, the PIS qualified equipment can still be obtained from UNICEF Supply Division.

### **E007.1 Voltage stabilizers for refrigerators and freezers**

Wherever voltage fluctuations exceed  $\pm 15\%$  of the rated voltage at the supply point WHO recommends that refrigerators and freezers should be connected to the mains supply via a voltage stabilizer. 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 surges.

Tap-changing voltage stabilizers are the most suitable type of voltage stabilizer for refrigeration equipment. There are a number of different models on the market; some are more reliable than others. A common type, supplied by many manufacturers, uses electronic tap-changing technology. This type is prone to failure due to switching stresses. The most reliable devices use relays. As an example, one typical widely used unit can control output voltages between  $-8\%$  to  $+9\%$  when the input voltage varies between  $-34\%$  to  $+26\%$ .

The simplest arrangement is to supply one single-outlet unit with each refrigeration 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 PIS, separate models were available for compression and absorption refrigerators and freezers. Under PQS all models will be pre-qualified for both types of equipment – when using the older devices ALWAYS choose the right type and make sure that it is connected to the correct appliance.

### **E007.2 Refrigerator spare parts and kits**

Products in this category at present remain unchanged from the PIS 2000 catalogue for the time being.

**Currently there are no data sheets for this section**



## E007

## Energy Harvesting for solar direct drive

<b>PQS code:</b>	<b>E007/001</b>
<b>Type of appliance:</b>	Energy Harvest Control
<b>Manufacturer's ref:</b>	Health Centre Kit
<b>Manufactured in:</b>	
<b>Comapany:</b>	B Medical Systems Sarl
<b>Address:</b>	17 Op der Hei L-9809 Hosingen Luxembourg
<b>Telephone:</b>	+ 35 2 92 07 311
<b>Email:</b>	info@bmedicalsystems.com, Gilles.Ries@bmedicalsystems.com, Admilson.Pinto@bmedicalsystems.com
<b>Web address:</b>	www.bmedicalsystems.com

### Specifications

<b>Climate zone:</b>	Hot
<b>Power input:</b>	47
<b>Nominal power:</b>	55 W

### Power outlets

<b>Cooling appliance:</b>	
<b>Harvesting LED lights:</b>	yes
<b>Fan connector:</b>	
<b>USB ports:</b>	1 Amp
<b>Car socket:</b>	12.6 V

### Load included

Led Lights portable:

Fan:

### Available Energy Harvest

<b>Connected load</b>	<b>Run time per day</b>
2 xLED + fan	16 hours

<b>Solar radiation:</b>	3.5 kWh/m2/day
<b>Min average daily energy:</b>	465 Wh
<b>Max energy on battery:</b>	120 Wh

<b>Max</b>	<b>Number of ports</b>
47 V	

14.7 V

**Shipping volume:**

**Price year:**

**Price**

**Quality standard:**

**Verification report:**

**Current PQS status:** *pre-qualified*

**Note:**

**Shipping weight:**

**Incoterms:** EXW

**Specification ref:**

**Verification laboratory:**

**Validity until:** *May 31, 2023*

### Comments





## E007

## Single-phase voltage stabilizer

PQS code:	E007/003
Type of appliance:	Single Phase Voltage Stabiliser
Manufacturer's ref:	SVS04-22
Manufactured in:	
Comapany:	Sollatek (UK) Limited
Address:	Sollatek House, Waterside Drive, Langley SL3 6EZ, United Kingdom
Telephone:	+441753214500
Email:	maan.allos@sollatek.com
Web address:	www.sollatek.com

### Specifications

Climate zone:

Power input:

Nominal power:

#### Power outlets

Nominal

Cooling appliance:

Harvesting LED lights:

Fan connector:

USB ports:

Car socket:

#### Load included

Led Lights portable:

Fan:

### Available Energy Harvest

Connected load

Run time per day

Run time at night on battery

Max

Number of ports

Solar radiation:

Min average daily energy:

Max energy on battery:

Shipping volume:

Price year:

Price

Quality standard:

Verification report:

Current PQS status: *pre-qualified*

Note:

Shipping weight:

Incoterms:

Specification ref:

Verification laboratory:

Validity until: *May 31, 2023*

### Comments



PERFORMANCE QUALITY SAFETY



## E007

## Single-phase voltage stabilizer

PQS code:	E007/004
Type of appliance:	Single Phase Voltage Stabiliser - Extended Range
Manufacturer's ref:	SVS04E-22
Manufactured in:	
Comapany:	Sollatek (UK) Limited
Address:	Sollatek House, Waterside Drive, Langley SL3 6EZ, United Kingdom
Telephone:	+441753214500
Email:	maan.allos@sollatek.com
Web address:	www.sollatek.com

### Specifications

Climate zone:

Power input:

Nominal power:

#### Power outlets

Nominal

Cooling appliance:

Harvesting LED lights:

Fan connector:

USB ports:

Car socket:

#### Load included

Led Lights portable:

Fan:

#### Available Energy Harvest

Connected load

Run time per day

Solar radiation:

Min average daily energy:

Max energy on battery:

Max

Number of ports

Shipping volume:

Price year:

Price

Quality standard:

Verification report:

Current PQS status: *pre-qualified*

Note:

Shipping weight:

Incoterms:

Specification ref:

Verification laboratory:

Validity until: *May 31, 2023*

### Comments



## E007

## Single-phase voltage stabilizer

**PQS code:** E007/005

**Type of appliance:** Single Phase Voltage Stabiliser

**Manufacturer's ref:** HVS-1000

**Manufactured in:**

**Comapany:** Qingdao Haier Biomedical Co., Ltd

**Address:** No.280 Fengyuan Road  
High-tech Zone  
Qingdao(266111),  
China; People's Republic of

**Telephone:** +86-532-88935593

**Email:** wenming.wang@haierbiomedical.com

**Web address:** <http://www.haiermedical.com>

### Specifications

**Climate zone:**

**Power input:**

**Nominal power:**

### Power outlets

Nominal

**Cooling appliance:**

**Harvesting LED lights:**

**Fan connector:**

**USB ports:**

**Car socket:**

### Load included

**Led Lights portable:**

**Fan:**

### Available Energy Harvest

**Connected load**      **Run time per day**

**Solar radiation:**

**Min average daily energy:**

**Max energy on battery:**

**Max**

**Number of ports**

**Shipping volume:**

**Price year:**

**Price**

**Quality standard:**

**Verification report:**

**Current PQS status:** *pre-qualified*

**Note:**

**Shipping weight:**

**Incoterms:**

**Specification ref:**

**Verification laboratory:**

**Validity until:** *May 31, 2024*

### Comments



## E007

## Single-phase voltage stabilizer

PQS code:	E007/006
Type of appliance:	Single Phase Voltage Stabiliser - Extended Range
Manufacturer's ref:	HVS-1000E
Manufactured in:	
Comapany:	Qingdao Haier Biomedical Co., Ltd
Address:	No.280 Fengyuan Road High-tech Zone Qingdao(266111), China; People's Republic of
Telephone:	+86-532-88935593
Email:	wenming.wang@haierbiomedical.com
Web address:	http://www.haiermedical.com

### Specifications

Climate zone:

Power input:

Nominal power:

#### Power outlets

Nominal

Cooling appliance:

Harvesting LED lights:

Fan connector:

USB ports:

Car socket:

#### Load included

Led Lights portable:

Fan:

#### Available Energy Harvest

Connected load

Run time per day

Solar radiation:

Min average daily energy:

Max energy on battery:

Max

Number of ports

Shipping volume:

Price year:

Price

Quality standard:

Verification report:

Current PQS status: *pre-qualified*

Note:

Shipping weight:

Incoterms:

Specification ref:

Verification laboratory:

Validity until: *May 31, 2024*

### Comments



PERFORMANCE QUALITY SAFETY



## E007

## Single-phase voltage stabilizer

PQS code:	E007/007
Type of appliance:	Single Phase Voltage Stabiliser - Extended Range
Manufacturer's ref:	WHT-230ER
Manufactured in:	
Comapany:	SAGAR ELECTRICALS
Address:	14A Industrial Estate, Jagadhri Road, Ambala Cantt, Haryana 133001, India
Telephone:	+91 171 2699445
Email:	info@electrogard.com
Web address:	www.electrogard.com

### Specifications

Climate zone:

Power input:

Nominal power:

#### Power outlets

Nominal

Cooling appliance:

Harvesting LED lights:

Fan connector:

USB ports:

Car socket:

#### Load included

Led Lights portable:

Fan:

### Available Energy Harvest

Connected load

Run time per day

Solar radiation:

Min average daily energy:

Max energy on battery:

Max

Number of ports

Shipping volume:

Price year:

Price

Quality standard:

Verification report:

Current PQS status: *pre-qualified*

Note:

Shipping weight:

Incoterms:

Specification ref:

Verification laboratory:

Validity until: *May 31, 2024*

### Comments



## E007

## Single-phase voltage stabilizer

PQS code:	E007/008
Type of appliance:	Voltage Stabiliser (Integrated)
Manufacturer's ref:	PPS MFS-100Lw
Manufactured in:	
Comapany:	Thyatron Electronic Appliptions SA
Address:	Erymanthos Achaia Patra 25008 Greece
Telephone:	+30 2694 062 010
Email:	info@thyatron.gr
Web address:	<a href="https://www.thyatron.gr">https://www.thyatron.gr</a>

### Specifications

Climate zone:

Power input:

Nominal power:

#### Power outlets

Nominal

Cooling appliance:

Harvesting LED lights:

Fan connector:

USB ports:

Car socket:

#### Load included

Led Lights portable:

Fan:

### Available Energy Harvest

Connected load

Run time per day

Solar radiation:

Min average daily energy:

Max energy on battery:

Max

Number of ports

Shipping volume:

Price year:

Price

Quality standard:

Verification report:

Current PQS status: *pre-qualified*

Note:

Shipping weight:

Incoterms:

Specification ref:

Verification laboratory:

Validity until: *May 31, 2024*

### Comments

# E008

## Single-use injection devices

The products listed in this section include single-use syringes and needle-free injectors used to administer vaccines. Reusable syringes are no longer listed and are no longer recommended by WHO.

### Correct use of injections for immunization

**An injection should only be given if it is necessary. Every injection given must be safe.**

- An injection for immunization is necessary (with the exception of oral vaccines).
- An immunization injection is safe when the vaccine is injected using the appropriate equipment and according to the recommended procedures<sup>1</sup> for injection and disposal.

The following equipment may, in principle, be used to administer injectable vaccines:

- Auto-disable syringes to ISO 7886-3:2005.
- Single-use auto-disable needle-free syringe injectors.

### E008.1 Auto-disable (AD) syringes with fixed needles

PQS pre-qualified syringes must now comply with ISO 7886-3:2005 - *Sterile hypodermic syringes for single use - Part 3: Auto-disable syringes for fixed-dose immunization*.

The auto-disable syringe is the preferred type of disposable equipment for the administration of vaccines in both routine and mass immunization programmes. The auto-disable syringe carries the lowest risk of person-to-person transmission of blood borne pathogens because it cannot be reused<sup>2</sup>.

### E008.2 Single-use auto-disable needle-free syringe injectors

It remains current WHO policy that this type of injector can be used only if laboratory tests show that it does not carry a risk of contamination.

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<sup>1</sup> [WHO/EPI/TRAM/98.01-11 Rev 1](#). *Immunization in practice series*.

<sup>2</sup> [WHO/V&B/99.25](#). *Safety of injections: WHO-UNICEF-UNFPA joint statement on the use of auto-disable syringes in immunization services*.

WHO has published a PQS specification and verification protocol for these devices<sup>3</sup> and recommends that only injectors which meet the requirements set out in these documents should be used. Currently there are no pre-qualified models, but when such equipment becomes available it will be included in the PQS data sheets.

### **E008.3      Standard disposable syringes**

Standard disposable syringes and needles should not be used for immunization purposes because there is no guarantee that they will be destroyed after a single use. UNICEF will not supply this type of syringe for immunization purposes.

**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.

### **E008.4      Disposal of injection equipment**

Additional equipment is necessary to ensure the safety of the contaminated waste stream - see section E010:

- Safety boxes for the collection of used syringes, needles and sharps.
- Needle disablers and needle safety boxes.
- Incinerators and autoclaves for final disposal of used injection equipment.

Injection equipment is only safe if users strictly follow the procedures specified for its use, and this includes safe disposal.<sup>4</sup>

**E008 data sheets follow**

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<sup>3</sup> WHO/PQS/E08/JI01.1: *Specification for single-use auto-disable needle-free syringe injectors.*

[WHO/PQS/E08/JI01-VP.1](#). *Verification protocol for single-use auto-disable needle-free syringe injectors.*

<sup>4</sup> [WHO/BCT/03.12](#). *Guiding principles to ensure injection device security..*





PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

**PQS code:** E008/004  
**Description:** AD syringe 0.5 ml  
**Manufacturer's reference:** MEDECO® INJECT AD 0.5 ml  
**Manufactured in:** United Arab Emirates  
**Company:** Abu Dhabi Medical Devices Co. L.L.C  
**Address:** P.O.Box 30485, Abu Dhabi  
United Arab Emirates

**Telephone:** +971-2-6199100  
**Email:** [info@admd.ae](mailto:info@admd.ae)  
**Web address:** <http://www.admd.ae>

## Specifications

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark 1639
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	1400
<b>AD mechanism:</b>	valve in the syringe hub	<b>Volume per carton (m3):</b>	1,400 pcs 0.055 m3, 3,000 0.112m3
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	1,400 pcs 5.7 kg, 3,000 11.1kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	1400 or 3000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	EXW
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	100 000 units and more: 0.054 US\$ per piece
<b>Year base price:</b>	2016		

**Comments:** available in two carton sizes, 1,400pcs and 3,000 pcs

**Current PQS status:** pre-qualified ; 25 Sep 2005

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

<b>PQS code:</b>	<b>E008/007</b>
<b>Description:</b>	AD syringe 0.5ml
<b>Manufacturer's reference:</b>	Kojak Seling 0.5ml
<b>Manufactured in:</b>	India
<b>Company:</b>	Hindustan Syringes & Medical Devices Ltd.
<b>Address:</b>	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India
<b>Telephone:</b>	+91 129-4061151/58
<b>Email:</b>	<a href="mailto:hmduk@hmdhealthcare.com">hmduk@hmdhealthcare.com</a>
<b>Web address:</b>	<a href="http://www.hmdhealthcare.com">www.hmdhealthcare.com</a>

## Specifications

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	2000
<b>AD mechanism:</b>	Locked / broken plunger	<b>Volume per carton (m3):</b>	0.09 m3
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	13.7 kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	20,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister or ribbon pack	<b>Prices per unit:</b>	USD 3.5/100 Pcs
<b>Year base price:</b>	2011		

**Comments:** Option: Two types of packs with 100 units or 200 units  
Other needle sizes available on request

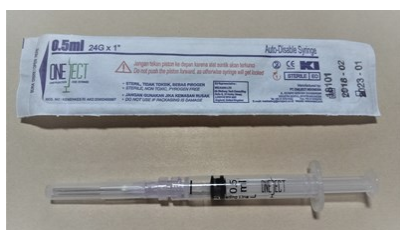
**Current PQS status:** pre-qualified ; 22 Dec 2004

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

**PQS code:** E008/019  
**Description:** AD syringe 0.5ml  
**Manufacturer's reference:** K1 OneJect AD 0.5ml  
**Manufactured in:** Indonesia  
**Company:** PT Oneject Indonesia  
**Address:** Sentul Industrial Estate  
Jl.Olympic Raya Kav B9  
Bogor 16810,  
Indonesia

**Telephone:** +62 21 879 17 422

**Email:** [marketing@oneject.co.id](mailto:marketing@oneject.co.id)

**Web address:** [www.oneject.co.id](http://www.oneject.co.id)

## Specifications

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE 0044
<b>Fixed needle size:</b>	24G x 1" (0.55 x 25 mm)	<b>Pieces per carton:</b>	1600
<b>AD mechanism:</b>	Locked / broken plunger	<b>Volume per carton (m3):</b>	0.06 m3
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	7.7 kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	16,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Upon request to manufacturer
<b>Year base price:</b>	2005		

**Comments:**

**Current PQS status:** pre-qualified ; 12 Oct 2005

**Valid until :** May 2024

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

**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/020</b>
<b>Description:</b>	AD syringe 0.5ml
<b>Manufacturer's reference:</b>	Yushou® AD syringe 0.5ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Wuxi Yushou Medical Appliances Co., Ltd
<b>Address:</b>	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China
<b>Telephone:</b>	+86 (510)3777555
<b>Email:</b>	<a href="mailto:mike@chinasyringe.com">mike@chinasyringe.com</a> ; <a href="mailto:helen@chinasyringe.com">helen@chinasyringe.com</a>
<b>Web address:</b>	<a href="http://www.chinasyringe.com">http://www.chinasyringe.com</a>

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	3000
<b>AD mechanism:</b>	Clip locking plunger at start	<b>Volume per carton (m3):</b>	0.088 m3
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	11 kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	200,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Price available on request
<b>Year base price:</b>	2005		

**Comments:****Current PQS status:** *pre-qualified ; 22 Sep 2005***Valid until :** *May 2024***Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased

**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/025</b>
<b>Description:</b>	Retractable AD syringe 0.5ml
<b>Manufacturer's reference:</b>	Vanishpoint® Retractable AD syringe 0.5ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Retractable Technologies, Inc.
<b>Address:</b>	511 Lobo Lane, Little Elm, TX 75068
<b>Telephone:</b>	+1 972 294 1010
<b>Email:</b>	<a href="mailto:kduesman@retractable.com">kduesman@retractable.com</a>
<b>Web address:</b>	<a href="http://www.retractable.com">www.retractable.com</a>

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	800
<b>AD mechanism:</b>	Retraction of needle into barrel by spring	<b>Volume per carton (m3):</b>	0.0432 m3
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	4.5 kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	800
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	<i>On request</i>
<b>Year base price:</b>	2005		

**Comments:** The retraction of the needle is considered as a reuse prevention feature (RUP) and a sharp injury Protection (SIP)

**Current PQS status:** *pre-qualified ; 15 Jun 2005*

**Valid until :** *May 2024*

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

**E008: Auto-disable syringe for fixed dose immunization**

**PQS code:** E008/026  
**Description:** AD syringe 0.5ml  
**Manufacturer's reference:** AD syringe 0.5ml K1  
**Manufactured in:** Vietnam  
**Company:** Vietnam Medical Equipment Corporation  
**Address:** Dai Dong - Hoan Son Industrial Zone  
Hoan Son Commune  
Tien Du District  
Bac Ninh Province  
Vietnam  
**Telephone:** +84 4 5760770  
**Email:** [huongltt@vinamed.com.vn](mailto:huongltt@vinamed.com.vn)  
**Web address:**

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	2400
<b>AD mechanism:</b>	locked/broken plunger	<b>Volume per carton (m3):</b>	0.107 m3
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	9.8 kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	2400
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	On request
<b>Year base price:</b>	2016		

**Comments:**

**Current PQS status:** pre-qualified ; 14 Jul 2006

**Valid until :** May 2023

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



PERFORMANCE QUALITY SAFETY



## **E008:** Auto-disable syringe for fixed dose immunization

**PQS code:** E008/030  
**Description:** AD syringe 0.05 ml  
**Manufacturer's reference:** K1 Oneject 0.05 ml  
**Manufactured in:** Indonesia  
**Company:** PT Oneject Indonesia  
**Address:** Sentul Industrial Estate  
Jl.Olympic Raya Kav B9  
Bogor 16810,  
Indonesia

**Telephone:** +62 21 879 17 422

**Email:** [marketing@oneject.co.id](mailto:marketing@oneject.co.id)

**Web address:** [www.oneject.co.id](http://www.oneject.co.id)

## Specifications

<b>Graduations:</b>	0.05ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE 0044
<b>Fixed needle size:</b>	26G x 3/8" (0.45 x 10 mm)	<b>Pieces per carton:</b>	1600
<b>AD mechanism:</b>	Locked / broken plunger	<b>Volume per carton (m3):</b>	0.06 m3
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	6.3 kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	16,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	On request
<b>Year base price:</b>	2007		

**Comments:**

**Current PQS status:** pre-qualified ; 21 May 2007

**Valid until :** May 2024

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

**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/032</b>
<b>Description:</b>	AD syringe 0.1ml
<b>Manufacturer's reference:</b>	YUSHOU® AD syringe 0.1ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Wuxi Yushou Medical Appliances Co., Ltd
<b>Address:</b>	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China
<b>Telephone:</b>	+86 (510)3777555
<b>Email:</b>	<a href="mailto:mike@chinasyringe.com">mike@chinasyringe.com</a> ; <a href="mailto:helen@chinasyringe.com">helen@chinasyringe.com</a>
<b>Web address:</b>	<a href="http://www.chinasyringe.com">http://www.chinasyringe.com</a>

**Specifications**

<b>Graduations:</b>	0.1ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	3000
<b>AD mechanism:</b>	locking clip, locked trapped piston	<b>Volume per carton (m3):</b>	0.088 m3
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	11 kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	200,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	On request
<b>Year base price:</b>	2008		

**Comments:****Current PQS status:** *pre-qualified ; 05 Jan 2009***Valid until :** *May 2024***Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased



**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/033</b>
<b>Description:</b>	AD syringe 0.05ml
<b>Manufacturer's reference:</b>	Yushou® AD syringe 0.05ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Wuxi Yushou Medical Appliances Co., Ltd
<b>Address:</b>	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China
<b>Telephone:</b>	+86 (510)3777555
<b>Email:</b>	<a href="mailto:mike@chinasyringe.com">mike@chinasyringe.com</a> ; <a href="mailto:helen@chinasyringe.com">helen@chinasyringe.com</a>
<b>Web address:</b>	<a href="http://www.chinasyringe.com">http://www.chinasyringe.com</a>

**Specifications**

<b>Graduations:</b>	0.05ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	3000
<b>AD mechanism:</b>	locking clip, locked trapped piston	<b>Volume per carton (m3):</b>	0.088 m3
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	11 kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	200,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	On request
<b>Year base price:</b>	2008		

**Comments:****Current PQS status:** *pre-qualified ; 05 Jan 2009***Valid until :** *May 2024***Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased

**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/034</b>
<b>Description:</b>	AD syringe 0.5 ml
<b>Manufacturer's reference:</b>	AD syringe 0.5 ml SKIFA
<b>Manufactured in:</b>	Indonesia
<b>Company:</b>	Mitra Rajawali Banjaran, PT
<b>Address:</b>	JL. Raya Banjaran KM16 Bandung, Jawa Barat Indonesia
<b>Telephone:</b>	+62 22 594 0151
<b>Email:</b>	<a href="mailto:mrb.sekre@gmail.com">mrb.sekre@gmail.com</a> , <a href="mailto:restijuliawati@yahoo.com">restijuliawati@yahoo.com</a> , <a href="mailto:irmayuliarachmat@gmail.com">irmayuliarachmat@gmail.com</a>
<b>Web address:</b>	<a href="http://www.mrb.co.id">http://www.mrb.co.id</a>

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	SO 13485
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	2000
<b>AD mechanism:</b>	locked middle injection -broken plunger	<b>Volume per carton (m3):</b>	0.071 m3
<b>AD location:</b>	Middle of injection	<b>Weight per carton (kg):</b>	9.64 kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	10 000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Plastic ribbon	<b>Prices per unit:</b>	<i>On request</i>
<b>Year base price:</b>	2008		

**Comments:****Current PQS status:** *pre-qualified ; 14 Jan 2009***Valid until :** *May 2024***Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased

**E008: Auto-disable syringe for fixed dose immunization**

**PQS code:** E008/035  
**Description:** AD syringe 0.5ml  
**Manufacturer's reference:** Auto-disable syringe 0.5ml BD SoloShot™ Mini  
**Manufactured in:** Spain  
**Company:** Becton Dickinson  
**Address:** 1 Becton Drive, Franklin Lakes, NJ 07417 USA MC238  
**Telephone:** +1 201-847-5149  
**Email:** [Chee\\_Lum@BD.COM](mailto:Chee_Lum@BD.COM)  
**Web address:** <http://www.bd.com>

**Specifications**

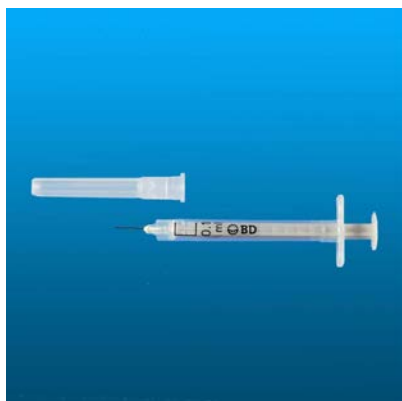
<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	3300
<b>AD mechanism:</b>	locking clip; locked trapped piston	<b>Volume per carton (m3):</b>	0.102 m3
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	10.45 /10.20 kg
<b>Number of components:</b>	2 pieces	<b>Minimum order:</b>	3300 / 3600 /4320
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	On request
<b>Year base price:</b>	2009		

**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

**Current PQS status:** pre-qualified ; 08 Apr 2009

**Valid until :** May 2024

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

**E008: Auto-disable syringe for fixed dose immunization**

**PQS code:** E008/036  
**Description:** AD syringe 0.1ml  
**Manufacturer's reference:** AD syringe 0.1ml BD SoloShot™ Mini  
**Manufactured in:** Spain  
**Company:** Becton Dickinson  
**Address:** 1 Becton Drive, Franklin Lakes, NJ 07417 USA MC238  
**Telephone:** +1 201-847-5149  
**Email:** [Chee\\_Lum@BD.COM](mailto:Chee_Lum@BD.COM)  
**Web address:** <http://www.bd.com>

**Specifications**

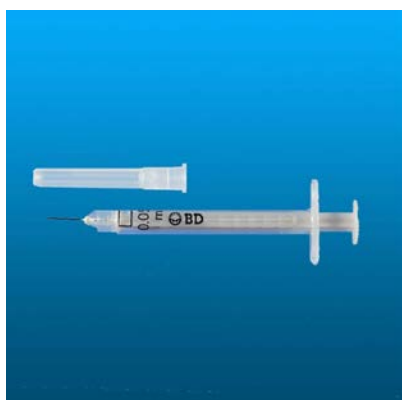
<b>Graduations:</b>	0.1ml	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	3300
<b>AD mechanism:</b>	locking clip; locked trapped piston	<b>Volume per carton (m3):</b>	0.102 m3
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	10.45 kg / 10.2 kg
<b>Number of components:</b>	2 pieces	<b>Minimum order:</b>	3300 / 3600
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	On request
<b>Year base price:</b>	2009		

**Comments:** Product is available in 100pc per shelf pack, which results respectively in 3300 pcs per carton

**Current PQS status:** pre-qualified ; 08 Apr 2009

**Valid until :** May 2024

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

**E008: Auto-disable syringe for fixed dose immunization**

**PQS code:** E008/037  
**Description:** AD syringe 0.05ml  
**Manufacturer's reference:** AD syringe 0.05ml BD SoloShot™ Mini  
**Manufactured in:** Spain  
**Company:** Becton Dickinson  
**Address:** 1 Becton Drive, Franklin Lakes, NJ 07417 USA MC238  
**Telephone:** +1 201-847-5149  
**Email:** [Chee\\_Lum@BD.COM](mailto:Chee_Lum@BD.COM)  
**Web address:** <http://www.bd.com>

**Specifications**

<b>Graduations:</b>	0.05ml	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	3300
<b>AD mechanism:</b>	locking clip; locked trapped piston	<b>Volume per carton (m3):</b>	0.102 m3
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	10.45 kg / 10.2 kg
<b>Number of components:</b>	2 pieces	<b>Minimum order:</b>	3300
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	On request
<b>Year base price:</b>	2009		

**Comments:** Product is available in 100 pcper shelf pack, which results in 3300 pcs per carton

**Current PQS status:** pre-qualified ; 08 Apr 2009

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

<b>PQS code:</b>	<b>E008/039</b>
<b>Description:</b>	AD syringe 0.5 ml
<b>Manufacturer's reference:</b>	KOJAK SELINGE 0.5ml
<b>Manufactured in:</b>	India
<b>Company:</b>	Hindustan Syringes & Medical Devices Ltd.
<b>Address:</b>	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India
<b>Telephone:</b>	+91 129-4061151/58
<b>Email:</b>	<a href="mailto:hmduk@hmdhealthcare.com">hmduk@hmdhealthcare.com</a>
<b>Web address:</b>	<a href="http://www.hmdhealthcare.com">www.hmdhealthcare.com</a>

## Specifications

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	2000
<b>AD mechanism:</b>	locked / broken plunger	<b>Volume per carton (m3):</b>	0.09 m3
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	13.7 kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	20,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister or ribbon pack	<b>Prices per unit:</b>	USD 3.5/100 Pcs
<b>Year base price:</b>	2011		

**Comments:** Two types of packs with 100 units or 200 units  
Other needle size available upon request

**Current PQS status:** pre-qualified ; 15 Apr 2009

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## **E008:** Auto-disable syringe for fixed dose immunization

**PQS code:** E008/040  
**Description:** AD Syringe 0.5ml  
**Manufacturer's reference:** AD Syringe 0.5ml - Revital CADY  
**Manufactured in:** Kenya  
**Company:** Revital Health Care (EPZ) Limited  
**Address:** LR No. 5025/1239, Takaungu  
80100 Mombasa  
Kenya  
**Telephone:** +254 72241 2900  
**Email:** [info@revitalhealthcare.com](mailto:info@revitalhealthcare.com)  
**Web address:** [www.revitalhealthcare.com](http://www.revitalhealthcare.com)

## Specifications

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE 0123
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	3600
<b>AD mechanism:</b>	Plunger Disable	<b>Volume per carton (m3):</b>	0.134/0.112
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	6 kg
<b>Number of components:</b>	2 pieces	<b>Minimum order:</b>	860 000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Per unit: 0.06 €
<b>Year base price:</b>	2008		

**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.

**Current PQS status:** pre-qualified ; 08 Oct 2009

**Valid until :** May 2024

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

**E008: Auto-disable syringe for fixed dose immunization**

**PQS code:** E008/041  
**Description:** AD syringe 0.5ml  
**Manufacturer's reference:** AD syringe 0.5ml  
**Manufactured in:** China; People's Republic of  
**Company:** Anhui Tiankang Medical Technology Co., Ltd  
**Address:** 228, Weiyl Road,  
Economic Development Zone,  
Tianchang City,  
Anhui Province  
China; People's Republic of

**Telephone:** +86 550 7022258

**Email:** [marshall988@163.net](mailto:marshall988@163.net)

**Web address:** <http://www.tkmedical.com>

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	7680
<b>AD mechanism:</b>	Clip blocking plunger	<b>Volume per carton (m3):</b>	Container 28 m3
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	Container 3840 kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	768 000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Up to 768 000 units: 0.0405 €
<b>Year base price:</b>	2008		Up to 1 590 000 units: 0.0378 €

**Comments:** Cartons of 7680 boxes of 100 pieces

**Current PQS status:** pre-qualified ; 12 Nov 2009

**Valid until :** May 2024

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





PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

**PQS code:** E008/043  
**Description:** AD syringe 0.5ml  
**Manufacturer's reference:** AD syringe 0.5ml  
**Manufactured in:** China; People's Republic of  
**Company:** Jiangxi Sanxin Medtec Co.,Ltd  
**Address:** 999 Fushan Road, Xiaolan Economic Development Zone,  
Nanchang, Jiangxi, P.C. 330200  
China; People's Republic of  
**Telephone:** +86 791 85988111  
**Email:** [sanxin-med@vip.163.com](mailto:sanxin-med@vip.163.com)  
**Web address:** [www.sanxin-med.com](http://www.sanxin-med.com)

## Specifications

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	3000
<b>AD mechanism:</b>	Plunger lock	<b>Volume per carton (m3):</b>	0.1 m3
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	15 kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	2000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	On request
<b>Year base price:</b>	2009		

Comments:

**Current PQS status:** pre-qualified ; 02 Sep 2010

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

<b>PQS code:</b>	<b>E008/045</b>
<b>Description:</b>	AD syringe 0.1ml
<b>Manufacturer's reference:</b>	Kojak AD syringe 0.1ml
<b>Manufactured in:</b>	India
<b>Company:</b>	Hindustan Syringes & Medical Devices Ltd.
<b>Address:</b>	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India
<b>Telephone:</b>	+91 129-4061151/58
<b>Email:</b>	<a href="mailto:hmduk@hmdhealthcare.com">hmduk@hmdhealthcare.com</a>
<b>Web address:</b>	<a href="http://www.hmdhealthcare.com">www.hmdhealthcare.com</a>

## Specifications

<b>Graduations:</b>	0.1ml	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	26G x 3/8" (0.45 x 10 mm)	<b>Pieces per carton:</b>	3200
<b>AD mechanism:</b>	Locked / broken plunger	<b>Volume per carton (m3):</b>	0.09m3
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	12.20kgs
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	80,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	USD 4/100 Pcs
<b>Year base price:</b>	2020		

**Comments:** Two types of packs with 100 units or 200 units  
Other needle sizes available on request

**Current PQS status:** pre-qualified ; 10 May 2011

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

**PQS code:** E008/048  
**Description:** AD syringe 0.5ml  
**Manufacturer's reference:** Apple K1 AD syringe  
**Manufactured in:** Pakistan  
**Company:** AMSON VACCINES & PHARMA (PVT) LTD.  
**Address:** 115, Industrial Triangle, Kahuta road, Islamabad Pakistan  
**Telephone:** +92 51 4492022  
**Email:** [naveed@amson.org.pk](mailto:naveed@amson.org.pk)  
**Web address:** [www.amson.org.pk](http://www.amson.org.pk)

## Specifications

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 9001,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	24G x 1" (0.55 x 25 mm)	<b>Pieces per carton:</b>	1200
<b>AD mechanism:</b>	Locked / broken plunger	<b>Volume per carton (m3):</b>	0.07 m3
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	8.62 kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	100,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	On request to manufacturer
<b>Year base price:</b>	2012		

Comments:

**Current PQS status:** pre-qualified ; 02 Nov 2012

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

**PQS code:** E008/049  
**Description:** AD syringe 0.1ml  
**Manufacturer's reference:** Yi Xin 0.1ml  
**Manufactured in:** China; People's Republic of  
**Company:** Jiangxi Sanxin Medtec Co.,Ltd  
**Address:** 999 Fushan Road, Xiaolan Economic Development Zone,  
Nanchang, Jiangxi, P.C. 330200  
China; People's Republic of  
**Telephone:** +86 791 85988111  
**Email:** [sanxin-med@vip.163.com](mailto:sanxin-med@vip.163.com)  
**Web address:** [www.sanxin-med.com](http://www.sanxin-med.com)

## Specifications

<b>Graduations:</b>	0.1ml	<b>Quality standard:</b>	-----, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	26G x 3/8" (0.45 x 10 mm)	<b>Pieces per carton:</b>	3000
<b>AD mechanism:</b>	Plunger lock	<b>Volume per carton (m3):</b>	0.104m3
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	11
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	100,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	
<b>Year base price:</b>	2013		

Comments:

**Current PQS status:** pre-qualified ; 13 Jan 2013

**Valid until :** May 2024

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

**E008: Auto-disable syringe for fixed dose immunization****PQS code:** E008/050**Description:** single-use auto-disable needle-free jet injector**Manufacturer's reference:** Pharmajet Stratis®**Manufactured in:** United States**Company:** PharmaJet, Inc.**Address:** 400 Corporate Circle,  
Suite N  
Golden, Colorado 80401  
USA**Telephone:** +1 303 526-4278**Email:** [Chris.Cappello@pharmajet.com](mailto:Chris.Cappello@pharmajet.com)**Web address:** <http://www.pharmajet.com/>**Specifications**

Reset station	Injector	Needle free syringe	Filling adapter
Reference manufacturer C501-20	Reference manufacturer: C501-10	Reference manufacturer: C501-34	Reference manufacturer: C501-43 & C501-46
Activation: manual	Administration: IM or SC	Nominal capacity and graduation: 0.5ml	Material of adaptor: Polycarbonate
Force applied:	Energy source: spring	Main materials of syringe: Polycarbonate	Compatibility only with the Stratis needle-free syringe
Life time cycles: 20,000 min	Main material: ABS, stainless steel	Prevented from reuse by: Plunger break before injection	Intended for one vial use for field-filling of syringes
Carrying case IP: 55	Inadvertent actuation prevention feature	Primary packaging: paper blister packs	Primary packaging: paper blister packs
Warranty 2 years	Warranty 2 years	Number of syringes per box: 100 units	Number of adapters per box: 75 units
The PharmaJet Stratis™ needle-free injection system is intended to deliver various medications and vaccines either intramuscularly or subcutaneously by means of narrow precise fluid stream, which penetrates body tissues.			
Quality system Standard	ISO 13485,	Product standard:	ISO 7886-3; FDA 510(k); CE 556625

**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.

**Current PQS status:** pre-qualified ; 31 Jan 2013**Valid until :** May 2024**Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

<b>PQS code:</b>	<b>E008/051</b>
<b>Description:</b>	AD syringe 0.5ml
<b>Manufacturer's reference:</b>	JMI AD syringe 0.5ml
<b>Manufactured in:</b>	Bangladesh
<b>Company:</b>	JMI Syringes & Medical Devices Ltd.
<b>Address:</b>	Unique Heights 117 Kazi Nazrul Islam Avenue Dhaka-1217 Bangladesh.
<b>Telephone:</b>	+880255138723
<b>Email:</b>	<a href="mailto:info@jmigroup-bd.com">info@jmigroup-bd.com</a>
<b>Web address:</b>	<a href="http://www.jmisyringe.com/">http://www.jmisyringe.com/</a>

## Specifications

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	2400
<b>AD mechanism:</b>	Plunger lock	<b>Volume per carton (m3):</b>	0.133 m3
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	15.6 kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	192,000
<b>Other needle options:</b>	No	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	<i>Upon request to manufacturer</i>
<b>Year base price:</b>	2013		

Comments:

**Current PQS status:** *pre-qualified ; 29 May 2013*

**Valid until :** *May 2024*

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

**PQS code:** E008/052  
**Description:** AD syringe 0.05ml  
**Manufacturer's reference:** OnejectII 0.05ml AD syringe  
**Manufactured in:** Indonesia  
**Company:** PT Oneject Indonesia  
**Address:** Sentul Industrial Estate  
Jl.Olympic Raya Kav B9  
Bogor 16810,  
Indonesia

**Telephone:** +62 21 879 17 422

**Email:** [marketing@oneject.co.id](mailto:marketing@oneject.co.id)

**Web address:** [www.oneject.co.id](http://www.oneject.co.id)

## Specifications

<b>Graduations:</b>	0.05ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	1600
<b>AD mechanism:</b>	Locked / broken plunger	<b>Volume per carton (m3):</b>	0.051m3
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	8.23kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	16,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Upon request to manufacturer
<b>Year base price:</b>	2013		

**Comments:**

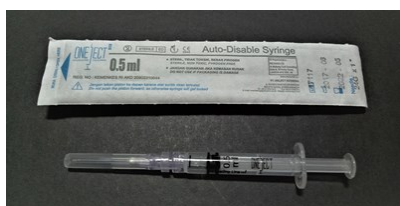
**Current PQS status:** pre-qualified ; 05 Jun 2013

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

**PQS code:** E008/053  
**Description:** AD syringe 0.5ml  
**Manufacturer's reference:** OnejectII 0.5 ml AD syringe  
**Manufactured in:** Indonesia  
**Company:** PT Oneject Indonesia  
**Address:** Sentul Industrial Estate  
Jl.Olympic Raya Kav B9  
Bogor 16810,  
Indonesia

**Telephone:** +62 21 879 17 422

**Email:** [marketing@oneject.co.id](mailto:marketing@oneject.co.id)

**Web address:** [www.oneject.co.id](http://www.oneject.co.id)

## Specifications

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	24G x 1" (0.55 x 25 mm)	<b>Pieces per carton:</b>	1600
<b>AD mechanism:</b>	Locked / broken plunger	<b>Volume per carton (m3):</b>	0.052m3
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	7.66kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	16,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Upon request to manufacturer
<b>Year base price:</b>	2013		

**Comments:**

**Current PQS status:** pre-qualified ; 05 Jun 2013

**Valid until :** May 2024

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





PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

**PQS code:** E008/056

**Description:** Retractable AD syringe 0.5ml

**Manufacturer's reference:** Haiou Retractable auto disable syringe 0.5ml

**Manufactured in:** China; People's Republic of

**Company:** Guangdong Haiou Medical Apparatus Co., Ltd

**Address:** Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China

**Telephone:** +86-663-2758666

**Email:** [market01@haiou.net.cn](mailto:market01@haiou.net.cn)

**Web address:** <http://www.haiou.net.cn>

## Specifications

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	3000
<b>AD mechanism:</b>	Plunger lock / needle retraction	<b>Volume per carton (m3):</b>	0.087m3
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	13kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	100,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Upon request to manufacturer
<b>Year base price:</b>	2013		

Comments:

**Current PQS status:** pre-qualified ; 29 Jul 2013

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

<b>PQS code:</b>	<b>E008/057</b>
<b>Description:</b>	AD syringe 0.05ml
<b>Manufacturer's reference:</b>	AD syringe 0.05ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Anhui Tiankang Medical Technology Co., Ltd
<b>Address:</b>	228, Weiye Road, Economic Development Zone, Tianchang City, Anhui Province China; People's Republic of
<b>Telephone:</b>	+86 550 7022258
<b>Email:</b>	<a href="mailto:marshall988@163.net">marshall988@163.net</a>
<b>Web address:</b>	<a href="http://www.tkmedical.com">http://www.tkmedical.com</a>

## Specifications

<b>Graduations:</b>	0.05ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	2000
<b>AD mechanism:</b>	Plunger lock by stainless jaw at start of injection	<b>Volume per carton (m3):</b>	0.069 m3
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	10 kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	200,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	<i>Upon request</i>
<b>Year base price:</b>	2013		

Comments:

**Current PQS status:** *pre-qualified ; 29 Jul 2013*

**Valid until :** *May 2024*

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

**PQS code:** E008/058  
**Description:** AD syringe 0.25ml  
**Manufacturer's reference:** Auto-disable syringe 0.25ml  
**Manufactured in:** China; People's Republic of  
**Company:** Anhui Tiangkang Medical Technology Co., Ltd  
**Address:** 228, Weiye Road,  
Economic Development Zone,  
Tianchang City,  
Anhui Province  
China; People's Republic of

**Telephone:** +86 550 7022258

**Email:** [marshall988@163.net](mailto:marshall988@163.net)

**Web address:** <http://www.tkmedical.com>

## Specifications

<b>Graduations:</b>	0.25ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	2000
<b>AD mechanism:</b>	Plunger lock by stainless steel jaw at start of injection	<b>Volume per carton (m3):</b>	0.069 m3
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	10 kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	200,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Upon request
<b>Year base price:</b>	2013		

**Comments:**

**Current PQS status:** pre-qualified ; 29 Jul 2013

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

<b>PQS code:</b>	<b>E008/060</b>
<b>Description:</b>	AD syringe 0.5ml
<b>Manufacturer's reference:</b>	Destroject 0.5ml AD (1000) syringe
<b>Manufactured in:</b>	Pakistan
<b>Company:</b>	AMSON VACCINES & PHARMA (PVT) LTD.
<b>Address:</b>	115, Industrial Triangle, Kahuta road, Islamabad Pakistan
<b>Telephone:</b>	+92 51 4492022
<b>Email:</b>	<a href="mailto:naveed@amson.org.pk">naveed@amson.org.pk</a>
<b>Web address:</b>	<a href="http://www.amson.org.pk">www.amson.org.pk</a>

## Specifications

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	100
<b>AD mechanism:</b>	Plunger lock by cremalliere at start	<b>Volume per carton (m3):</b>	0.097m3
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	12.5kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	32,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	EXW
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Upon request
<b>Year base price:</b>	2014		

**Comments:** Previously E008/042 requalified by Amson

**Current PQS status:** pre-qualified ; 01 Apr 2014

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

**PQS code:** E008/062  
**Description:** AD syringe 0.5mL  
**Manufacturer's reference:** AD syringe 0.5mL  
**Manufactured in:** China; People's Republic of  
**Company:** Sanavita Pharmaceuticals GMBH  
**Address:** Spaldingstr. 110B  
D- 20097  
Hamburg  
Germany  
**Telephone:** +49 40 730 8853-0  
**Email:** [info@sanavita.net](mailto:info@sanavita.net), [pelin.kiehl@sanavita.net](mailto:pelin.kiehl@sanavita.net),  
[guenter.kunde@sanavita.net](mailto:guenter.kunde@sanavita.net)  
**Web address:** [www.sanavita.net](http://www.sanavita.net)

## Specifications

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	3000
<b>AD mechanism:</b>	metal clip	<b>Volume per carton (m3):</b>	0.087m3
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	13kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	3000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Upon request to manufacturer
<b>Year base price:</b>	2015		

Comments:

**Current PQS status:** pre-qualified ; 01 Jul 2015

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

**PQS code:** E008/063  
**Description:** AD syringe 0.05mL  
**Manufacturer's reference:** AD syringe 0.05mL  
**Manufactured in:** China; People's Republic of  
**Company:** Sanavita Pharmaceuticals GMBH  
**Address:** Spaldingstr. 110B  
D- 20097  
Hamburg  
Germany  
**Telephone:** +49 40 730 8853-0  
**Email:** [info@sanavita.net](mailto:info@sanavita.net), [pelin.kiehl@sanavita.net](mailto:pelin.kiehl@sanavita.net),  
[guenter.kunde@sanavita.net](mailto:guenter.kunde@sanavita.net)  
**Web address:** [www.sanavita.net](http://www.sanavita.net)

## Specifications

<b>Graduations:</b>	0.05ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	3000
<b>AD mechanism:</b>	metal clip	<b>Volume per carton (m3):</b>	0.087m3
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	13kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	3000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Upon request to manufacturer
<b>Year base price:</b>	2015		

Comments:

**Current PQS status:** pre-qualified ; 01 Jul 2015

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

**PQS code:** E008/064  
**Description:** AD syringe 0.1mL  
**Manufacturer's reference:** AD syringe 0.1mL  
**Manufactured in:** China; People's Republic of  
**Company:** Sanavita Pharmaceuticals GMBH  
**Address:** Spaldingstr. 110B  
D- 20097  
Hamburg  
Germany  
**Telephone:** +49 40 730 8853-0  
**Email:** [info@sanavita.net](mailto:info@sanavita.net), [pelin.kiehl@sanavita.net](mailto:pelin.kiehl@sanavita.net),  
[guenter.kunde@sanavita.net](mailto:guenter.kunde@sanavita.net)  
**Web address:** [www.sanavita.net](http://www.sanavita.net)

## Specifications

<b>Graduations:</b>	0.1ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	3000
<b>AD mechanism:</b>	metal clip	<b>Volume per carton (m3):</b>	0.087m3
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	13kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	3000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Upon request to manufacturer
<b>Year base price:</b>	2015		

Comments:

**Current PQS status:** pre-qualified ; 01 Jul 2015

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

**PQS code:** E008/065  
**Description:** AD Syringe 0.1 mL  
**Manufacturer's reference:** Oneject II AD Syringe 0.1 mL  
**Manufactured in:** Indonesia  
**Company:** PT Oneject Indonesia  
**Address:** Sentul Industrial Estate  
Jl.Olympic Raya Kav B9  
Bogor 16810,  
Indonesia

**Telephone:** +62 21 879 17 422

**Email:** [marketing@oneject.co.id](mailto:marketing@oneject.co.id)

**Web address:** [www.oneject.co.id](http://www.oneject.co.id)

## Specifications

<b>Graduations:</b>	0.1ml	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	1600
<b>AD mechanism:</b>	Locked / broken plunger	<b>Volume per carton (m3):</b>	0.09 m3/carton
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	10.6 Kg
<b>Number of components:</b>		<b>Minimum order:</b>	1600
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Upon request to manufacturer
<b>Year base price:</b>	2015		

**Comments:**

**Current PQS status:** pre-qualified ; 12 Sep 2015

**Valid until :** May 2024

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





PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

**PQS code:** E008/066  
**Description:** AD syringe 0.5ml  
**Manufacturer's reference:** Ramy AD syringe 0.5ml  
**Manufactured in:** Saudi Arabia  
**Company:** Al Shifa Medical Syringe MFG.Co.  
**Address:** 1st Industrial City P.O. Box 7917  
Dammam 31472  
Saudi Arabia  
**Telephone:** +966138474284  
**Email:** [info@alshifa.com](mailto:info@alshifa.com)  
**Web address:** [www.alshifa.com](http://www.alshifa.com)

## Specifications

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	1000
<b>AD mechanism:</b>	Plunger lock	<b>Volume per carton (m3):</b>	0.06 per carton
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	8.02 per carton
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	1000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	EXW
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	0.0455 USD per unit
<b>Year base price:</b>	2018		

Comments:

**Current PQS status:** pre-qualified ; 22 Oct 2015

**Valid until :** May 2022

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

**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/068</b>
<b>Description:</b>	Retractable 0.05ml Auto Disable Syringe
<b>Manufacturer's reference:</b>	Haiou Retractable auto disable syringe 0.05ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Guangdong Haiou Medical Apparatus Co., Ltd
<b>Address:</b>	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China
<b>Telephone:</b>	+86-663-2758666
<b>Email:</b>	<a href="mailto:market01@haiou.net.cn">market01@haiou.net.cn</a>
<b>Web address:</b>	<a href="http://www.haiou.net.cn">http://www.haiou.net.cn</a>

**Specifications**

<b>Graduations:</b>	0.05ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	3600
<b>AD mechanism:</b>	Manual retractable	<b>Volume per carton (m3):</b>	0.094
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	15
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	100,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	<i>On request</i>
<b>Year base price:</b>	2017		

**Comments:****Current PQS status:** *pre-qualified ; 01 Jun 2017***Valid until :** *May 2024***Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased

**E008: Auto-disable syringe for fixed dose immunization**

**PQS code:** E008/069  
**Description:** 0.05mlAD BCG syringe  
**Manufacturer's reference:** MEDECO INJECT AD 0.05ml BCG  
**Manufactured in:** United Arab Emirates  
**Company:** Abu Dhabi Medical Devices Co. L.L.C  
**Address:** P.O.Box 30485, Abu Dhabi  
United Arab Emirates

**Telephone:** +971-2-6199100  
**Email:** [info@admd.ae](mailto:info@admd.ae)  
**Web address:** <http://www.admd.ae>

**Specifications**

<b>Graduations:</b>	0.05ml	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	1400
<b>AD mechanism:</b>	One way valve auto disable mechanism	<b>Volume per carton (m3):</b>	0.053 M3 for 1400 Pcs pack. 0.112 M3 for 3000 Pcs
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	5.46 Kg for 1400 Pcs pack and 11.1 Kg for 3000 Pcs
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	1400 or 3000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	EXW
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	0.068 USD
<b>Year base price:</b>	2017		

**Comments:** Available in 1400 Pcs or 3000 Pcs per carton

**Current PQS status:** pre-qualified ; 01 Jun 2017

**Valid until :** May 2024

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

**E008: Auto-disable syringe for fixed dose immunization**

**PQS code:** E008/070  
**Description:** 0.1ml AD BCG syringe  
**Manufacturer's reference:** MEDECO INJECT AD 0.1ml BCG  
**Manufactured in:** United Arab Emirates  
**Company:** Abu Dhabi Medical Devices Co. L.L.C  
**Address:** P.O.Box 30485, Abu Dhabi  
United Arab Emirates

**Telephone:** +971-2-6199100  
**Email:** [info@admd.ae](mailto:info@admd.ae)  
**Web address:** <http://www.admd.ae>

**Specifications**

<b>Graduations:</b>	0.1ml	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	1400
<b>AD mechanism:</b>	One way valve auto-disable mechanism	<b>Volume per carton (m3):</b>	0.053 M3 for 1400 Pcs pack. 0.112 M3 for 3000 Pcs
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	5.46 Kg for 1400 Pcs pack and 11.1 Kg for 3000 Pcs
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	1400
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	EXW
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	0.068 USD
<b>Year base price:</b>	2017		

**Comments:** Available in two carton sizes 1400 Pcs or 3000 Pcs

**Current PQS status:** pre-qualified ; 01 Jun 2017

**Valid until :** May 2024

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

**E008: Auto-disable syringe for fixed dose immunization**

**PQS code:** E008/071  
**Description:** Single Use auto-disable needle-free jet injector  
**Manufacturer's reference:** PharmaJet® Tropis®  
**Manufactured in:** United States  
**Company:** PharmaJet, Inc.  
**Address:** 400 Corporate Circle,  
Suite N  
Golden, Colorado 80401  
USA  
**Telephone:** +1 303 526-4278  
**Email:** [Chris.Cappello@pharmajet.com](mailto:Chris.Cappello@pharmajet.com)  
**Web address:** <http://www.pharmajet.com/>

**Specifications**

Reset station	Injector	Needle free syringe	Filling adapter
Reference manufacturer C501-20	Reference manufacturer: C501-10	Reference manufacturer: C501-34	Reference manufacturer: C501-43 & C501-46
Activation: manual	Administration: IM or SC	Nominal capacity and graduation: 0.5ml	Material of adaptor: Polycarbonate
Force applied:	Energy source: spring	Main materials of syringe: Polycarbonate	Compatibility only with the Stratis needle-free syringe
Life time cycles: 20,000 min	Main material: ABS, stainless steel	Prevented from reuse by: Plunger break before injection	Intended for one vial use for field-filling of syringes
Carrying case IP: 55	Inadvertent actuation prevention feature	Primary packaging: paper blister packs	Primary packaging: paper blister packs
Warranty 2 years	Warranty 2 years	Number of syringes per box: 100 units	Number of adapters per box: 75 units
The PharmaJet Stratis™ needle-free injection system is intended to deliver various medications and vaccines either intramuscularly or subcutaneously by means of narrow precise fluid stream, which penetrates body tissues.			
Quality system Standard	-----, ISO 13485,	Product standard:	ISO 7886-3; -----

**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.

**Current PQS status:** pre-qualified ; 04 Jun 2018**Valid until :** May 2024**Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased

**E008: Auto-disable syringe for fixed dose immunization**

**PQS code:** E008/072  
**Description:** 0.1 ml 27G AD syringe  
**Manufacturer's reference:** Auto Disable Syringe 0.1 ml. 27G - Bawal  
**Manufactured in:** India  
**Company:** Becton Dickinson  
**Address:** 1 Becton Drive, Franklin Lakes, NJ 07417 USA MC238  
**Telephone:** +1 201-847-5149  
**Email:** [Chee\\_Lum@BD.COM](mailto:Chee_Lum@BD.COM)  
**Web address:** <http://www.bd.com>

**Specifications**

<b>Graduations:</b>	0.1ml	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	----
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	3300
<b>AD mechanism:</b>		<b>Volume per carton (m3):</b>	0.103
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	10.2
<b>Number of components:</b>	2 pieces	<b>Minimum order:</b>	66000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	<i>price on request</i>
<b>Year base price:</b>	2019		

**Comments:****Current PQS status:** *pre-qualified ; 16 May 2019***Valid until :** *May 2023***Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased

**E008: Auto-disable syringe for fixed dose immunization**

**PQS code:** E008/073  
**Description:** BD 0.5 ml AD syringe 23G  
**Manufacturer's reference:** Auto Disable Syringe 0.5 ml. 23G - Bawal  
**Manufactured in:** India  
**Company:** Becton Dickinson  
**Address:** 1 Becton Drive, Franklin Lakes, NJ 07417 USA MC238  
**Telephone:** +1 201-847-5149  
**Email:** [Chee\\_Lum@BD.COM](mailto:Chee_Lum@BD.COM)  
**Web address:** <http://www.bd.com>

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	----
<b>Fixed needle size:</b>		<b>Pieces per carton:</b>	3300
<b>AD mechanism:</b>		<b>Volume per carton (m3):</b>	0.102
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	10.4
<b>Number of components:</b>	2 pieces	<b>Minimum order:</b>	66000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	<i>price on request</i>
<b>Year base price:</b>	2019		

**Comments:****Current PQS status:** *pre-qualified ; 16 May 2019***Valid until :** *May 2023***Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased

**E008: Auto-disable syringe for fixed dose immunization**

**PQS code:** E008/074  
**Description:** 0.05ml AD syringe  
**Manufacturer's reference:** Hongda 0.05ml AD syringe  
**Manufactured in:** China; People's Republic of  
**Company:** Jiangxi Hongda Medical Equipment Group Ltd  
**Address:** 39 South Shengi Road  
Jinxian county, Nanchang City  
Jiangxi province  
China; People's Republic of  
**Telephone:** +86 791 85628828  
**Email:** [hongda008@jxhd.cn](mailto:hongda008@jxhd.cn)  
**Web address:** <http://www.jxhd.cn>

**Specifications**

<b>Graduations:</b>	0.05ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	1500
<b>AD mechanism:</b>		<b>Volume per carton (m3):</b>	0.097954
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	19
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	1000,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	<i>available on request</i>
<b>Year base price:</b>	2019		

**Comments:** Available in cartons of 1,500 & 2,000

**Current PQS status:** *pre-qualified ; 08 Jul 2019*

**Valid until :** *May 2024*

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



**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/075</b>
<b>Description:</b>	0.5ml Auto Disable syringe
<b>Manufacturer's reference:</b>	Apple K-1 3ring AD syringe
<b>Manufactured in:</b>	Pakistan
<b>Company:</b>	AMSON VACCINES & PHARMA (PVT) LTD.
<b>Address:</b>	115, Industrial Triangle, Kahuta road, Islamabad Pakistan
<b>Telephone:</b>	+92 51 4492022
<b>Email:</b>	<a href="mailto:naveed@amson.org.pk">naveed@amson.org.pk</a>
<b>Web address:</b>	<a href="http://www.amson.org.pk">www.amson.org.pk</a>

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	1200
<b>AD mechanism:</b>	Locked/broken Plunger	<b>Volume per carton (m3):</b>	0.07
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	8.62
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	1000,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	EXW
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Price available on request
<b>Year base price:</b>	2019		

**Comments:****Current PQS status:** pre-qualified ; 16 Jul 2019**Valid until :** May 2024**Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased

**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/076</b>
<b>Description:</b>	0.5ml Auto Disable Syringe
<b>Manufacturer's reference:</b>	Haiou 0.5ml Auto Disable Syringe
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Guangdong Haiou Medical Apparatus Co., Ltd
<b>Address:</b>	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China
<b>Telephone:</b>	+86-663-2758666
<b>Email:</b>	<a href="mailto:market01@haiou.net.cn">market01@haiou.net.cn</a>
<b>Web address:</b>	<a href="http://www.haiou.net.cn">http://www.haiou.net.cn</a>

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	3000
<b>AD mechanism:</b>	Plunger break	<b>Volume per carton (m3):</b>	0.086
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	13
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	100,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	on request
<b>Year base price:</b>	2019		on request

**Comments:****Current PQS status:** *pre-qualified ; 04 Nov 2019***Valid until :** *May 2024***Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased

**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/078</b>
<b>Description:</b>	0.05ml AD syringe
<b>Manufacturer's reference:</b>	Haiou 0.05ml Auto Disable Syringe
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Guangdong Haiou Medical Apparatus Co., Ltd
<b>Address:</b>	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China
<b>Telephone:</b>	+86-663-2758666
<b>Email:</b>	<a href="mailto:market01@haiou.net.cn">market01@haiou.net.cn</a>
<b>Web address:</b>	<a href="http://www.haiou.net.cn">http://www.haiou.net.cn</a>

**Specifications**

<b>Graduations:</b>	0.05ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	27G x 3/8" (0.40 x 10 mm)	<b>Pieces per carton:</b>	3000
<b>AD mechanism:</b>	Broken plunger	<b>Volume per carton (m3):</b>	0.086
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	13
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	100,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	<i>Price available on request</i>
<b>Year base price:</b>	2020		

**Comments:****Current PQS status:** *pre-qualified ; 10 Nov 2020***Valid until :** *May 2024***Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased

**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/080</b>
<b>Description:</b>	0.3ml AD syringe
<b>Manufacturer's reference:</b>	0.3ml AD syringe
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Wuxi Yushou Medical Appliances Co., Ltd
<b>Address:</b>	No.115 Nongxinhe Road Xishan District Wuxi city Jiangsu Province China
<b>Telephone:</b>	+86 (510)3777555
<b>Email:</b>	<a href="mailto:mike@chinasyringe.com">mike@chinasyringe.com</a> ; <a href="mailto:helen@chinasyringe.com">helen@chinasyringe.com</a>
<b>Web address:</b>	<a href="http://www.chinasyringe.com">http://www.chinasyringe.com</a>

**Specifications**

<b>Graduations:</b>	-----	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polyethylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	3000
<b>AD mechanism:</b>	AD	<b>Volume per carton (m3):</b>	
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	11
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	200,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	On request to manufacturer
<b>Year base price:</b>	2020		

**Comments:** Graduation 0.3ml. Average deadspace 0.0056mL

**Current PQS status:** pre-qualified ; 31 Dec 2020

**Valid until :** May 2024

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

**E008: Auto-disable syringe for fixed dose immunization**

**PQS code:** E008/081  
**Description:** 0.3ml AD syringe  
**Manufacturer's reference:** MEDECO INJECT AD 0.3ml  
**Manufactured in:** United Arab Emirates  
**Company:** Abu Dhabi Medical Devices Co. L.L.C  
**Address:** P.O.Box 30485, Abu Dhabi  
United Arab Emirates

**Telephone:** +971-2-6199100  
**Email:** [info@admd.ae](mailto:info@admd.ae)  
**Web address:** <http://www.admd.ae>

**Specifications**

<b>Graduations:</b>	-----	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	3000
<b>AD mechanism:</b>	Valve in the syringe hub	<b>Volume per carton (m3):</b>	0.1
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	11.5
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	100,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	EXW
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	0.054 USD
<b>Year base price:</b>	2021		

**Comments:** Graduation 0.3ml. Average deadspace 0.0231mL

**Current PQS status:** pre-qualified ; 13 Jan 2021

**Valid until :** May 2024

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

**E008: Auto-disable syringe for fixed dose immunization**

**PQS code:** E008/082  
**Description:** 0.3mL AD  
**Manufacturer's reference:** 0.3mL AD Soloshot Mini  
**Manufactured in:** Spain  
**Company:** Becton Dickinson  
**Address:** 1 Becton Drive, Franklin Lakes, NJ 07417 USA MC238  
**Telephone:** +1 201-847-5149  
**Email:** [Chee\\_Lum@BD.COM](mailto:Chee_Lum@BD.COM)  
**Web address:** <http://www.bd.com>

**Specifications**

<b>Graduations:</b>	-----	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	200
<b>AD mechanism:</b>	locking clip; locked trapped piston	<b>Volume per carton (m3):</b>	0.1032
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	10.289
<b>Number of components:</b>	2 pieces	<b>Minimum order:</b>	3600
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	<i>price on request</i>
<b>Year base price:</b>	2021		

**Comments:** Graduation 0.3ml. Average deadspace 0.0069mL

**Current PQS status:** *pre-qualified ; 29 Jan 2021*

**Valid until :** *May 2023*

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

**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/083</b>
<b>Description:</b>	0.3ml AD syringe
<b>Manufacturer's reference:</b>	TKMD 0.3ml AD syringe with fixed needle
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Anhui Tiankang Medical Technology Co., Ltd
<b>Address:</b>	228, Weiye Road, Economic Development Zone, Tianchang City, Anhui Province China; People's Republic of

**Telephone:** +86 550 7022258

**Email:** [marshall988@163.net](mailto:marshall988@163.net)

**Web address:** <http://www.tkmedical.com>

**Specifications**

<b>Graduations:</b>	-----	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	2000
<b>AD mechanism:</b>	Plunger lock by stainless steel jaw at	<b>Volume per carton (m3):</b>	0.068656
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	10
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	200,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	<i>price on request</i>
<b>Year base price:</b>	2021		

**Comments:** Graduation 0.3ml. Average deadspace 0.005mL

**Current PQS status:** *pre-qualified ; 08 Apr 2021*

**Valid until :** *May 2024*

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

<b>PQS code:</b>	<b>E008/084</b>
<b>Description:</b>	0.3ml AD syringe
<b>Manufacturer's reference:</b>	Kojak Seling 0.3ml
<b>Manufactured in:</b>	India
<b>Company:</b>	Hindustan Syringes & Medical Devices Ltd.
<b>Address:</b>	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India
<b>Telephone:</b>	+91 129-4061151/58
<b>Email:</b>	<a href="mailto:hmduk@hmdhealthcare.com">hmduk@hmdhealthcare.com</a>
<b>Web address:</b>	<a href="http://www.hmdhealthcare.com">www.hmdhealthcare.com</a>

## Specifications

<b>Graduations:</b>	-----	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	2000
<b>AD mechanism:</b>	Locked/broken plunger	<b>Volume per carton (m3):</b>	0.07
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	9.81
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	20,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister or ribbon pack	<b>Prices per unit:</b>	USD 4.50/100 Pcs
<b>Year base price:</b>	2021		

**Comments:** Graduation 0.3ml. Average deadspace 0.025mL

**Current PQS status:** pre-qualified ; 30 Apr 2021

**Valid until :** May 2024

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



**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/085</b>
<b>Description:</b>	AD Syringe 0.3ml
<b>Manufacturer's reference:</b>	Haiou AD Syringe 0.3ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Guangdong Haiou Medical Apparatus Co., Ltd
<b>Address:</b>	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China
<b>Telephone:</b>	+86-663-2758666
<b>Email:</b>	<a href="mailto:market01@haiou.net.cn">market01@haiou.net.cn</a>
<b>Web address:</b>	<a href="http://www.haiou.net.cn">http://www.haiou.net.cn</a>

**Specifications**

<b>Graduations:</b>	-----	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	3000
<b>AD mechanism:</b>	Broken plunger	<b>Volume per carton (m3):</b>	0.086
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	13
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	100,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	<i>price available on request</i>
<b>Year base price:</b>	2021		

**Comments:****Current PQS status:** *pre-qualified ; 11 Jun 2021***Valid until :** *May 2024***Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

**PQS code:** E008/086  
**Description:** Oneject 0.3ml AD  
**Manufacturer's reference:** Oneject 0.3ml AD  
**Manufactured in:** Indonesia  
**Company:** PT Oneject Indonesia  
**Address:** Sentul Industrial Estate  
Jl.Olympic Raya Kav B9  
Bogor 16810,  
Indonesia

**Telephone:** +62 21 879 17 422

**Email:** [marketing@oneject.co.id](mailto:marketing@oneject.co.id)

**Web address:** [www.oneject.co.id](http://www.oneject.co.id)

## Specifications

<b>Graduations:</b>	-----	<b>Quality standard:</b>	-----, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	24G x 1" (0.55 x 25 mm)	<b>Pieces per carton:</b>	1600
<b>AD mechanism:</b>	Locked / broken plunger	<b>Volume per carton (m3):</b>	0.057
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	7.8
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	16,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Upon request to manufacturer
<b>Year base price:</b>	2021		

**Comments:** Graduation 0.3mL. Average deadspace 0.021mL

**Current PQS status:** pre-qualified ; 31 Aug 2021

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## **E008:** Auto-disable syringe for fixed dose immunization

**PQS code:** E008/087  
**Description:** Retractable AD syringe 0.3ml  
**Manufacturer's reference:** Vanishpoint retractable AD syringe 0.3ml  
**Manufactured in:** China; People's Republic of  
**Company:** Retractable Technologies, Inc.  
**Address:** 511 Lobo Lane, Little Elm, TX 75068  
  
**Telephone:** +1 972 294 1010  
**Email:** [kduesman@retractable.com](mailto:kduesman@retractable.com)  
**Web address:** [www.retractable.com](http://www.retractable.com)

## Specifications

<b>Graduations:</b>	-----	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	-----
<b>Fixed needle size:</b>	25G x 3/4" (0.50 x 19 mm)	<b>Pieces per carton:</b>	100
<b>AD mechanism:</b>	Retractable	<b>Volume per carton (m3):</b>	0.041
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	4.9
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	800
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	\$0.18 per unit
<b>Year base price:</b>	2021		

**Comments:** Graduation 0.3mL. Average deadspace 0.023mL

**Current PQS status:** pre-qualified ;

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## **E008:** Auto-disable syringe for fixed dose immunization

<b>PQS code:</b>	<b>E008/088</b>
<b>Description:</b>	Auto-Disable Syringe 0.3ml
<b>Manufacturer's reference:</b>	SOL-GUARD Auto-Disable Syringe 0.3ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Sol-Millennium Medical Inc.
<b>Address:</b>	315 Shawnee North Drive Suite 100 Suwanee GA USA
<b>Telephone:</b>	+41 76 675 65 86
<b>Email:</b>	<a href="mailto:mbelluzzi@sol-m.com">mbelluzzi@sol-m.com</a> , <a href="mailto:ppasia@sol-m.com">ppasia@sol-m.com</a> , <a href="mailto:yzhao@sol-m.com">yzhao@sol-m.com</a> , <a href="mailto:yhong@sol-m.com">yhong@sol-m.com</a>
<b>Web address:</b>	<a href="http://www.sol-m.com">www.sol-m.com</a>

## Specifications

<b>Graduations:</b>	-----	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	Device license (Canada)
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	2400
<b>AD mechanism:</b>	AD	<b>Volume per carton (m3):</b>	0.088
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	9.6
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	100,800
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	<i>price on request</i>
<b>Year base price:</b>	2022		

**Comments:** Graduation 0.3mL. Average deadspace 0.003mL

**Current PQS status:** *pre-qualified ; 17 Feb 2022*

**Valid until :** *May 2024*

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

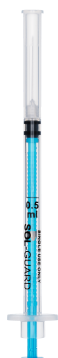
**E008: Auto-disable syringe for fixed dose immunization**

**PQS code:** E008/089  
**Description:** 0.5mL Auto Disable syringe  
**Manufacturer's reference:** 0.5mL Auto Disable syringe  
**Manufactured in:** India  
**Company:** SPM Medicare Pvt. Ltd.  
**Address:** B-40  
Phase-II  
Noida-201305  
U.P  
India  
**Telephone:** +91-120-4270212-21 , +91- 7982924076  
**Email:** [sahilkashyap.export@spmmedicare.com](mailto:sahilkashyap.export@spmmedicare.com),  
[headexport@spmmedicare.com](mailto:headexport@spmmedicare.com)  
**Web address:** [www.spmmedicare.com](http://www.spmmedicare.com)

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	-----
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	2000
<b>AD mechanism:</b>	Locked / Broken Plunger	<b>Volume per carton (m3):</b>	0.0969
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	12.96
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	20,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Plastic ribbon	<b>Prices per unit:</b>	USD 0.0600 per unit ( 20000pcs to 300,000pcs)
<b>Year base price:</b>	2022		USD 0.0500 per unit ( 300,000pcs to 1 million pcs)
			USD 0.0450 per unit ( 1 million pcs and above)

**Comments:****Current PQS status:** pre-qualified ; 11 Mar 2022**Valid until :** May 2024**Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased

**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/090</b>
<b>Description:</b>	0.5mL Auto Disable syringe
<b>Manufacturer's reference:</b>	Sol-Guard 0.5mL Auto Disable syringe
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Sol-Millennium Medical Inc.
<b>Address:</b>	315 Shawnee North Drive Suite 100 Suwanee GA USA
<b>Telephone:</b>	+41 76 675 65 86
<b>Email:</b>	<a href="mailto:mbelluzzi@sol-m.com">mbelluzzi@sol-m.com</a> , <a href="mailto:ppasia@sol-m.com">ppasia@sol-m.com</a> , <a href="mailto:yzhao@sol-m.com">yzhao@sol-m.com</a> , <a href="mailto:yhong@sol-m.com">yhong@sol-m.com</a>
<b>Web address:</b>	<a href="http://www.sol-m.com">www.sol-m.com</a>

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	Device license (Canada)
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	2400
<b>AD mechanism:</b>	locking clip, locked trapped plunger	<b>Volume per carton (m3):</b>	0.088
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	9.6kg
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	100,800
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	<i>price available on request</i>
<b>Year base price:</b>	2022		

**Comments:****Current PQS status:** *pre-qualified ; 20 Apr 2022***Valid until :** *May 2024***Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased

**E008: Auto-disable syringe for fixed dose immunization**

**PQS code:** E008/091  
**Description:** 0.1 mL AD syringe  
**Manufacturer's reference:** 0.1 mL AD syringe  
**Manufactured in:** China; People's Republic of  
**Company:** Zhejiang Lingyang Medical Apparatus Co., Ltd  
**Address:** Bai Shuiyang 317031  
Linhai  
Peoples's Republic of China  
**Telephone:** +86-13676623978  
**Email:** [lingyangmedical@163.com](mailto:lingyangmedical@163.com)  
**Web address:** [www.ly-medical.com](http://www.ly-medical.com)

**Specifications**

<b>Graduations:</b>	0.1ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	-----
<b>Fixed needle size:</b>	26G x 3/8" (0.45 x 10 mm)	<b>Pieces per carton:</b>	4000
<b>AD mechanism:</b>		<b>Volume per carton (m3):</b>	0.138
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	16.6
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	4,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Price available on request
<b>Year base price:</b>	2022		

**Comments:****Current PQS status:** pre-qualified ; 17 May 2022**Valid until :** May 2024**Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

<b>PQS code:</b>	<b>E008/092</b>
<b>Description:</b>	AD Syringe 0.2 ml
<b>Manufacturer's reference:</b>	KOJAK SELINGE 0.2 ml
<b>Manufactured in:</b>	India
<b>Company:</b>	Hindustan Syringes & Medical Devices Ltd.
<b>Address:</b>	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India
<b>Telephone:</b>	+91 129-4061151/58
<b>Email:</b>	<a href="mailto:hmduk@hmdhealthcare.com">hmduk@hmdhealthcare.com</a>
<b>Web address:</b>	<a href="http://www.hmdhealthcare.com">www.hmdhealthcare.com</a>

## Specifications

<b>Graduations:</b>	-----	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	2000
<b>AD mechanism:</b>	Locked / Broken Plunger	<b>Volume per carton (m3):</b>	0.07
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	9.81
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	20,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister or ribbon pack	<b>Prices per unit:</b>	USD 4.70/100 Pcs
<b>Year base price:</b>	2022		

**Comments:** Graduation 0.2mL. Average deadspace 0.021mL

**Current PQS status:** pre-qualified ; 17 May 2022

**Valid until :** May 2024

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





PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

<b>PQS code:</b>	<b>E008/093</b>
<b>Description:</b>	Auto-Disable Syringe 0.25ml
<b>Manufacturer's reference:</b>	SOL-GUARD Auto-Disable Syringe 0.25ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Sol-Millennium Medical Inc.
<b>Address:</b>	315 Shawnee North Drive Suite 100 Suwanee GA USA
<b>Telephone:</b>	+41 76 675 65 86
<b>Email:</b>	<a href="mailto:mbelluzzi@sol-m.com">mbelluzzi@sol-m.com</a> , <a href="mailto:ppasia@sol-m.com">ppasia@sol-m.com</a> , <a href="mailto:yzhao@sol-m.com">yzhao@sol-m.com</a> , <a href="mailto:yhong@sol-m.com">yhong@sol-m.com</a>
<b>Web address:</b>	<a href="http://www.sol-m.com">www.sol-m.com</a>

## Specifications

<b>Graduations:</b>	0.25ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	Device license (Canada)
<b>Fixed needle size:</b>		<b>Pieces per carton:</b>	2400
<b>AD mechanism:</b>	metal clip	<b>Volume per carton (m3):</b>	9.6
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	9.6
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	100,800
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	price available on request
<b>Year base price:</b>	2022		

**Comments:** Graduation 0.25mL. Average deadspace 0.003mL  
0.25ml G25x5/8"

**Current PQS status:** pre-qualified ; 17 May 2022

**Valid until :** May 2024

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

**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/094</b>
<b>Description:</b>	Auto-Disable Syringe 0.2ml
<b>Manufacturer's reference:</b>	SOL-GUARD Auto-Disable Syringe 0.2ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Sol-Millennium Medical Inc.
<b>Address:</b>	315 Shawnee North Drive Suite 100 Suwanee GA USA
<b>Telephone:</b>	+41 76 675 65 86
<b>Email:</b>	<a href="mailto:mbelluzzi@sol-m.com">mbelluzzi@sol-m.com</a> , <a href="mailto:ppasia@sol-m.com">ppasia@sol-m.com</a> , <a href="mailto:yzhao@sol-m.com">yzhao@sol-m.com</a> , <a href="mailto:yhong@sol-m.com">yhong@sol-m.com</a>
<b>Web address:</b>	<a href="http://www.sol-m.com">www.sol-m.com</a>

**Specifications**

<b>Graduations:</b>	-----	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	Device license (Canada)
<b>Fixed needle size:</b>		<b>Pieces per carton:</b>	2400
<b>AD mechanism:</b>	metal clip	<b>Volume per carton (m3):</b>	0.088
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	9.6
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	100,800
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	price available on request
<b>Year base price:</b>	2022		

**Comments:** Graduation 0.2mL. Average deadspace 0.003mL  
0.2ml G25x5/8"

**Current PQS status:** pre-qualified ; 17 May 2022

**Valid until :** May 2024

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



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

<b>PQS code:</b>	<b>E008/095</b>
<b>Description:</b>	0.25 ml AD syringe
<b>Manufacturer's reference:</b>	KOJAK SELINGE 0.25 ml
<b>Manufactured in:</b>	India
<b>Company:</b>	Hindustan Syringes & Medical Devices Ltd.
<b>Address:</b>	174, Sector - 25, Ballabgarh - 121 004 (Haryana) India
<b>Telephone:</b>	+91 129-4061151/58
<b>Email:</b>	<a href="mailto:hmduk@hmdhealthcare.com">hmduk@hmdhealthcare.com</a>
<b>Web address:</b>	<a href="http://www.hmdhealthcare.com">www.hmdhealthcare.com</a>

## Specifications

<b>Graduations:</b>	0.25ml	<b>Quality standard:</b>	ISO 9001, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	2000
<b>AD mechanism:</b>	Locked / Broken Plunger	<b>Volume per carton (m3):</b>	0.07
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	9.81
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	20,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister or ribbon pack	<b>Prices per unit:</b>	USD 4.70/100 Pcs
<b>Year base price:</b>	2022		

**Comments:** Graduation 0.25mL. Average deadspace 0.021mL

**Current PQS status:** pre-qualified ; 02 Jun 2022

**Valid until :** May 2024

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

**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/096</b>
<b>Description:</b>	AD Syringe 0.65 mL
<b>Manufacturer's reference:</b>	Auto-Disable Syringe 0.65ml G26x3/8"
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Sol-Millennium Medical Inc.
<b>Address:</b>	315 Shawnee North Drive Suite 100 Suwanee GA USA
<b>Telephone:</b>	+41 76 675 65 86
<b>Email:</b>	<a href="mailto:mbelluzzi@sol-m.com">mbelluzzi@sol-m.com</a> , <a href="mailto:ppasia@sol-m.com">ppasia@sol-m.com</a> , <a href="mailto:yzhao@sol-m.com">yzhao@sol-m.com</a> , <a href="mailto:yhong@sol-m.com">yhong@sol-m.com</a>
<b>Web address:</b>	<a href="http://www.sol-m.com">www.sol-m.com</a>

**Specifications**

<b>Graduations:</b>	-----	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	-----
<b>Fixed needle size:</b>	26G x 3/8" (0.45 x 10 mm)	<b>Pieces per carton:</b>	2400
<b>AD mechanism:</b>	Clip locking plunger	<b>Volume per carton (m3):</b>	0.088
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	9.6
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	100,800
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Price on request
<b>Year base price:</b>	2022		

**Comments:** Graduation 0.65mL. Average deadspace 0.003mL

**Current PQS status:** pre-qualified ; 19 Aug 2022

**Valid until :** May 2024

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

**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/097</b>
<b>Description:</b>	0.5mL AD syringe
<b>Manufacturer's reference:</b>	Revital Cady 0.5ml 3piece Autodisable Syringe
<b>Manufactured in:</b>	Kenya
<b>Company:</b>	Revital Health Care (EPZ) Limited
<b>Address:</b>	LR No. 5025/1239, Takaungu 80100 Mombasa Kenya
<b>Telephone:</b>	+254 72241 2900
<b>Email:</b>	<a href="mailto:info@revitalhcare.com">info@revitalhcare.com</a>
<b>Web address:</b>	<a href="http://www.revitalhealthcare.com">www.revitalhealthcare.com</a>

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	4000
<b>AD mechanism:</b>	AD	<b>Volume per carton (m3):</b>	0.1031
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	11.6
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	640000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FCA
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	NA
<b>Year base price:</b>	2022		NA
			NA

**Comments:****Current PQS status:** pre-qualified ; 16 Jun 2023**Valid until :** May 2024**Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased**NEW Product AS AT 16.06.2023**

**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/098</b>
<b>Description:</b>	Auto Disable Syringe for fixed-dose immunization
<b>Manufacturer's reference:</b>	Iscon 0.5mL AD syringe
<b>Manufactured in:</b>	India
<b>Company:</b>	ISCON SURGICALS LTD.
<b>Address:</b>	B-70 Marudhar Ind. Area, MIA 2nd Phase, Basni, Jodhpur, Rajasthan 342005, India
<b>Telephone:</b>	+91 291 274 0553
<b>Email:</b>	<a href="mailto:nitin@pricon.co.in">nitin@pricon.co.in</a>
<b>Web address:</b>	<a href="https://www.isconsurgicals.net/">https://www.isconsurgicals.net/</a>

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	2000
<b>AD mechanism:</b>		<b>Volume per carton (m3):</b>	0.08
<b>AD location:</b>	Middle of injection	<b>Weight per carton (kg):</b>	9.8
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	2000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	upto 100,000 / 4.75\$ per 100
<b>Year base price:</b>	2023		upto 500,000 / 4.50\$ per 100
			above 500,00 / 4.25\$ per 100

**Comments:****Current PQS status:** *pre-qualified ;***Valid until :** May 2024**Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased**NEW Product AS AT 05.07.2023**



PERFORMANCE QUALITY SAFETY



## E008: Auto-disable syringe for fixed dose immunization

**PQS code:** E008/099  
**Description:** 0.5mL AD syringe  
**Manufacturer's reference:** Oneject 0.5 AD  
**Manufactured in:** Indonesia  
**Company:** PT Oneject Indonesia  
**Address:** Sentul Industrial Estate  
Jl.Olympic Raya Kav B9  
Bogor 16810,  
Indonesia

**Telephone:** +62 21 879 17 422

**Email:** [marketing@oneject.co.id](mailto:marketing@oneject.co.id)

**Web address:** [www.oneject.co.id](http://www.oneject.co.id)

## Specifications

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	200
<b>AD mechanism:</b>	Locked / broken Plunger	<b>Volume per carton (m3):</b>	0.007
<b>AD location:</b>	Start of injection	<b>Weight per carton (kg):</b>	0.8
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	1000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	Upon request to manufacturer
<b>Year base price:</b>	2023		

**Comments:**

**Current PQS status:** pre-qualified ; 25 Sep 2023

**Valid until :** May 2024

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

**NEW Product AS AT 25.09.2023**

**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/122</b>
<b>Description:</b>	0.1ml AD syringe
<b>Manufacturer's reference:</b>	Hongda 0.1ml AD syringe
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Jiangxi Hongda Medical Equipment Group Ltd
<b>Address:</b>	39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of
<b>Telephone:</b>	+86 791 85628828
<b>Email:</b>	<a href="mailto:hongda008@jxhd.cn">hongda008@jxhd.cn</a>
<b>Web address:</b>	<a href="http://www.jxhd.cn">http://www.jxhd.cn</a>

**Specifications**

<b>Graduations:</b>	0.1ml	<b>Quality standard:</b>	-----, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	25G x 3/4" (0.50 x 19 mm)	<b>Pieces per carton:</b>	1500
<b>AD mechanism:</b>	AD	<b>Volume per carton (m3):</b>	0.0979m3
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	19
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	100,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	<i>price available on request</i>
<b>Year base price:</b>	2017		

**Comments:****Current PQS status:** *pre-qualified ; 12 Oct 2018***Valid until :** *May 2024***Note:** If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased





PERFORMANCE QUALITY SAFETY



## **E008:** Auto-disable syringe for fixed dose immunization

**PQS code:** E008/123  
**Description:** 0.5ml AD syringe  
**Manufacturer's reference:** Hongda 0.5ml AD syringe  
**Manufactured in:** China; People's Republic of  
**Company:** Jiangxi Hongda Medical Equipment Group Ltd  
**Address:** 39 South Shengi Road  
Jinxian county, Nanchang City  
Jiangxi province  
China; People's Republic of  
**Telephone:** +86 791 85628828  
**Email:** [hongda008@jxhd.cn](mailto:hongda008@jxhd.cn)  
**Web address:** <http://www.jxhd.cn>

## **Specifications**

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	-----, ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	1500
<b>AD mechanism:</b>	Locked/broken plunger	<b>Volume per carton (m3):</b>	0.0979m3
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	19
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	100,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	FOB
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	<i>price available on request</i>
<b>Year base price:</b>	2017		

**Comments:**

**Current PQS status:** *pre-qualified ; 12 Oct 2018*

**Valid until :** *May 2024*

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

**E008: Auto-disable syringe for fixed dose immunization**

<b>PQS code:</b>	<b>E008/124</b>
<b>Description:</b>	0.5ml Auto Disable syringe
<b>Manufacturer's reference:</b>	ICO 0.5ml Auto Disable syringe
<b>Manufactured in:</b>	Egypt
<b>Company:</b>	International Company for Medical Necessities
<b>Address:</b>	Industrial Zone Block No. 19&67 Abu Tig Assuit Egypt
<b>Telephone:</b>	+2 (088) 49 50200 - 202 - 250
<b>Email:</b>	<a href="mailto:mak@medical-ico.com">mak@medical-ico.com</a>
<b>Web address:</b>	<a href="http://www.medical-ico.com">www.medical-ico.com</a> & <a href="mailto:aak@medical-ico.com">aak@medical-ico.com</a>

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Quality standard:</b>	ISO 13485,
<b>Syringe material(s):</b>	Polypropylene	<b>Markings:</b>	CE mark
<b>Fixed needle size:</b>	23G x 1" (0.60 x 25 mm)	<b>Pieces per carton:</b>	2000
<b>AD mechanism:</b>	Locking plunger	<b>Volume per carton (m3):</b>	0.710 x 0.385 x 0.308
<b>AD location:</b>	Upon completion of injection	<b>Weight per carton (kg):</b>	13.2
<b>Number of components:</b>	3 pieces	<b>Minimum order:</b>	500,000
<b>Other needle options:</b>	Yes	<b>Incoterms:</b>	EXW
<b>Primary packaging:</b>	Blister pack	<b>Prices per unit:</b>	100,000 US\$0.039
<b>Year base price:</b>	2019		1,000,000 US\$0.038
			>1,000,000 US\$0.0378

Comments:

Current PQS status: *pre-qualified ; 30 Apr 2019*Valid until : *May 2024*

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

# E009

(not currently used)

**WARNING:** Steam sterilizers for sterilizing reusable injection equipment were listed in Section E9 of PIS 2000. This type of equipment is no longer recommended for use in immunization programmes.

# E010

## Waste management equipment

Waste disposal is a key element of any immunization programme. Poorly managed waste arising from immunization sessions exposes health workers and the community to infection and to injury. The cost of waste disposal must be incorporated into the budget and training plans of all immunization activities.

### E010.1 Safety boxes

Puncture-resistant containers for the collection and disposal of used sharps, including disposable and 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 general population. Containers are available in a range of sizes.

The relevant PQS specification requires safety boxes to have a minimum capacity of 20 syringes per litre. This figure should be used to estimate need. It is good practice to order more boxes than the calculated minimum to take account of inefficiencies such as the premature collection of partly filled containers and the use of containers for purposes other than immunization. WHO recommends over-ordering by 150% to 200%<sup>1</sup>.

### E010.2 Incinerator boxes

**WARNING:** Incinerator boxes for on-site burning are no longer recommended by WHO. They have been excluded from the PQS because low temperature

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<sup>1</sup> [WHO/V&B/02.11](#). *Guidelines for estimating costs of introducing new vaccines into the national immunization system.*

incineration releases toxic gases and this should be avoided. Controlled combustion above 800°C is needed to prevent this.

### **E010.3 Needle disablers**

These devices are designed to cut the needle from a used syringe and to hold the offcuts in a disposable sharps container. Use of these devices can reduce the risk of needle-stick injury to workers dealing with the waste stream and also increase the effective capacity of safety boxes. Because the needles are removed, it also allows the use of cheaper alternative syringe containers.

**WARNING:** There are hazards associated with the use of needle disablers and their adoption requires careful evaluation of risks and benefits.

### **E010.4 Incinerators and autoclaves**

Auto-combustion type incinerators, which achieve temperatures in excess of 800°C, are recommended for the final disposal of all contaminated sharps, including syringes and needles used for immunization. This equipment ensures the most complete destruction of used sharps while also causing minimal environmental pollution. Product information on incinerators and autoclaves is available at <http://www.healthcarewaste.org> which provides reference documents and links and gives guidance on decision-making.

A PQS specification and verification protocol for waste disposal autoclaves is currently under development.

<b>E010 data sheets follow</b>
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## E010: Waste management products

**PQS code:** E010/001  
**Description:** Safety box 5L  
**Manufacturer's reference:** POLYSAFE® 5L  
**Manufactured in:** Norway  
**Company:** POLYNOR AS  
**Address:** Oslo Science Park  
Gaustadalléen 21  
N- 0349 Oslo  
Norway

**Telephone:** +47 932 59 486

**Email:** [maria@polynor.no](mailto:maria@polynor.no) [post@polynor.no](mailto:post@polynor.no)

**Web address:** <http://www.polynor.no>

## Specifications

<b>Volume (Liter):</b>	5 L	<b>Syringe hole diameter (mm):</b>	38 mm
<b>Nominal syringe capacity:</b>	155 units	<b>Material:</b>	recycled carton board
<b>Dimensions before assembly (mm):</b>	590 x 280 x 4.5 mm	<b>Colour:</b>	White
<b>Dimensions after assembly (mm):</b>	342 x 159 x 130 mm		
<b>Weight empty (g):</b>	300 g		
<b>Minimum order:</b>	25 units	<b>Pieces per carton:</b>	25 units
<b>Year base price:</b>	2008	<b>Volume per carton:</b>	0.02 m3
<b>Price per unit:</b>	On request	<b>Weight per carton:</b>	8 kg
		<b>Incoterms:</b>	FCA
		<b>Quality standard:</b>	ISO 9001
<b>Verification report:</b>	115-26166.e rev.1	<b>Verification laboratory:</b>	ForceTechnology
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 10 Jul 2008</i>		<b>Valid until :</b> <i>May, 2024</i>

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



## E010: Waste management products

**PQS code:** E010/002  
**Description:** Safety box 10L  
**Manufacturer's reference:** POLYSAFE® 10L  
**Manufactured in:** Norway  
**Company:** POLYNOR AS  
**Address:** Oslo Science Park  
Gaustadalléen 21  
N- 0349 Oslo  
Norway

**Telephone:** +47 932 59 486

**Email:** [maria@polynor.no](mailto:maria@polynor.no) [post@polynor.no](mailto:post@polynor.no)

**Web address:** <http://www.polynor.no>

## Specifications

<b>Volume (Liter):</b>	10 L	<b>Syringe hole diameter (mm):</b>	38 mm
<b>Nominal syringe capacity:</b>	306 syringes	<b>Material:</b>	Recycled carton board, water resistant
<b>Dimensions before assembly (mm):</b>	603 x 385 x 5.2 mm	<b>Colour:</b>	White
<b>Dimensions after assembly (mm):</b>	300 x 250 x 150 mm		
<b>Weight empty (g):</b>	486 g		
<b>Minimum order:</b>	15 units	<b>Pieces per carton:</b>	15 units
<b>Year base price:</b>	2008	<b>Volume per carton:</b>	0.02 m3
<b>Price per unit:</b>	On request	<b>Weight per carton:</b>	8 kg
		<b>Incoterms:</b>	FCA
		<b>Quality standard:</b>	ISO 9001
<b>Verification report:</b>	108-21912-2	<b>Verification laboratory:</b>	ForceTechnology
<b>Comments:</b>	Boxes of 15 units		
<b>Current PQS status:</b>	<i>pre-qualified; 10 Apr 2008</i>	<b>Valid until :</b>	<i>May, 2024</i>

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



## E010: Waste management products

**PQS code:** E010/003  
**Description:** Safety box 15L  
**Manufacturer's reference:** POLYSAFE® 15L  
**Manufactured in:** Norway  
**Company:** POLYNOR AS  
**Address:** Oslo Science Park  
Gaustadalléen 21  
N- 0349 Oslo  
Norway

**Telephone:** +47 932 59 486  
**Email:** [maria@polynor.no](mailto:maria@polynor.no) [post@polynor.no](mailto:post@polynor.no)  
**Web address:** <http://www.polynor.no>

## Specifications

<b>Volume (Liter):</b>	15 L	<b>Syringe hole diameter (mm):</b>	39 mm
<b>Nominal syringe capacity:</b>	450 units	<b>Material:</b>	Recycled carton board, water resistant
<b>Dimensions before assembly (mm):</b>	775 x 445 x 5.7 mm	<b>Colour:</b>	White
<b>Dimensions after assembly (mm):</b>	310 x 240 x 210 mm		
<b>Weight empty (g):</b>	680 g		
<b>Minimum order:</b>	10 units	<b>Pieces per carton:</b>	10 units per carton
<b>Year base price:</b>	2008	<b>Volume per carton:</b>	0.02 m3
<b>Price per unit:</b>	On request	<b>Weight per carton:</b>	8.1 kg
		<b>Incoterms:</b>	FCA
		<b>Quality standard:</b>	ISO 9001
<b>Verification report:</b>	108-21912-3	<b>Verification laboratory:</b>	ForceTechnology
<b>Comments:</b>	Boxes of 10 units		
<b>Current PQS status:</b>	<i>pre-qualified; 10 Jul 2008</i>	<b>Valid until :</b>	<i>May, 2024</i>

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



**E010: Waste management products**

**PQS code:** E010/006  
**Description:** Safety box 5L  
**Manufacturer's reference:** Kojak safety box 5L  
**Manufactured in:** India  
**Company:** Hindustan Syringes & Medical Devices Ltd.  
**Address:** 174, Sector - 25, Ballabgarh - 121 004 (Haryana) India

**Telephone:** +91 129-4061151/58

**Email:** [hmduk@hmdhealthcare.com](mailto:hmduk@hmdhealthcare.com)

**Web address:** [www.hmdhealthcare.com](http://www.hmdhealthcare.com)

**Specifications**

<b>Volume (Liter):</b>	5 L	<b>Syringe hole diameter (mm):</b>	38 mm
<b>Nominal syringe capacity:</b>	100 units	<b>Material:</b>	Yellow duplex kraft board
<b>Dimensions before assembly (mm):</b>	585 x 285 x 4 mm	<b>Colour:</b>	Yellow
<b>Dimensions after assembly (mm):</b>	285 x 160 x 125 mm		
<b>Weight empty (g):</b>	275 g		
<b>Minimum order:</b>	25 units	<b>Pieces per carton:</b>	25 units
<b>Year base price:</b>	2020	<b>Volume per carton:</b>	0.016 m3
<b>Price per unit:</b>	0.55 USD/pc	<b>Weight per carton:</b>	8.10 kg
		<b>Incoterms:</b>	FCA
		<b>Quality standard:</b>	ISO 9001
<b>Verification report:</b>	108-32733-(20 April 2009)	<b>Verification laboratory:</b>	ForceTechnology
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 28 Apr 2009</i>		<b>Valid until :</b> <i>May, 2024</i>

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



## E010: Waste management products

<b>PQS code:</b>	<b>E010/008</b>
<b>Description:</b>	Safety box 2.5L
<b>Manufacturer's reference:</b>	Medibest Disposafe 2.5L
<b>Manufactured in:</b>	Indonesia
<b>Company:</b>	PT.Medibest Indonesia
<b>Address:</b>	Plaza Bona Indah, Office #A2-C4 Jalan Karang Tengah Raya Lebak Bulus – Cilandak Jakarta Selatan 12440, Indonesia
<b>Telephone:</b>	+62 21 765 3248
<b>Email:</b>	<a href="mailto:info@medibestgroup.com">info@medibestgroup.com</a>
<b>Web address:</b>	<a href="http://www.medibestgroup.com">http://www.medibestgroup.com</a>

## Specifications

<b>Volume (Liter):</b>	2.5 L	<b>Syringe hole diameter (mm):</b>	40 mm with fringes
<b>Nominal syringe capacity:</b>	81 syringes	<b>Material:</b>	recycled board and virgin fiber
<b>Dimensions before assembly (mm):</b>	551 x 238 x 2.21 mm	<b>Colour:</b>	Yellow
<b>Dimensions after assembly (mm):</b>	238 x 127 x 116 mm		
<b>Weight empty (g):</b>	290 g		
<b>Minimum order:</b>	25	<b>Pieces per carton:</b>	25 units
<b>Year base price:</b>	2009	<b>Volume per carton:</b>	0.024 m3
<b>Price per unit:</b>	On request	<b>Weight per carton:</b>	7.5 kg
		<b>Incoterms:</b>	FCA
		<b>Quality standard:</b>	ISO 9001
<b>Verification report:</b>	109-24758-1 (May 2009)	<b>Verification laboratory:</b>	ForceTechnology
<b>Comments:</b>	Carton of 25 units; custom made printing on demand		
<b>Current PQS status:</b>	<i>pre-qualified; 24 Jul 2009</i>	<b>Valid until :</b> <i>May, 2023</i>	

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



## E010: Waste management products

<b>PQS code:</b>	<b>E010/009</b>
<b>Description:</b>	Safety box 5L
<b>Manufacturer's reference:</b>	Medibest Disposafe 5L
<b>Manufactured in:</b>	Indonesia
<b>Company:</b>	PT.Medibest Indonesia
<b>Address:</b>	Plaza Bona Indah, Office #A2-C4 Jalan Karang Tengah Raya Lebak Bulus – Cilandak Jakarta Selatan 12440, Indonesia
<b>Telephone:</b>	+62 21 765 3248
<b>Email:</b>	<a href="mailto:info@medibestgroup.com">info@medibestgroup.com</a>
<b>Web address:</b>	<a href="http://www.medibestgroup.com">http://www.medibestgroup.com</a>

## Specifications

<b>Volume (Liter):</b>	5 L	<b>Syringe hole diameter (mm):</b>	40 mmwith fringes
<b>Nominal syringe capacity:</b>	142 syringes	<b>Material:</b>	recycled carton board and virgin fiber
<b>Dimensions before assembly (mm):</b>	660 x 238 x 2.21 mm	<b>Colour:</b>	Yellow
<b>Dimensions after assembly (mm):</b>	290 x 158 x 130 mm		
<b>Weight empty (g):</b>	376 g		
<b>Minimum order:</b>	25 units	<b>Pieces per carton:</b>	25 units
<b>Year base price:</b>	2009	<b>Volume per carton:</b>	0.029 m3
<b>Price per unit:</b>	On request	<b>Weight per carton:</b>	9 kg
		<b>Incoterms:</b>	FCA
		<b>Quality standard:</b>	ISO 9001
<b>Verification report:</b>	109-24758.b (June 2009)	<b>Verification laboratory:</b>	ForceTechnology
<b>Comments:</b>	Carton of 25 units; custom printing on demand		
<b>Current PQS status:</b>	<i>pre-qualified; 24 Jul 2009</i> <b>Valid until :</b> <i>May, 2023</i>		

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



## E010: Waste management products

<b>PQS code:</b>	<b>E010/010</b>
<b>Description:</b>	Safety box 5L
<b>Manufacturer's reference:</b>	Sol-Millennium Safety Box 5L
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Shanghai Sol-Millennium Medical Products Co. Ltd.
<b>Address:</b>	Sol-Millennium Medical Products Co., Ltd. Unit 1801-1803, No. 2 Grand Gateway No. 3 Hongqiao Road Xuhui District Shanghai 200030 China
<b>Telephone:</b>	+86-21-68622586-17
<b>Email:</b>	<a href="mailto:ayu@sol-m.com">ayu@sol-m.com</a>
<b>Web address:</b>	<a href="http://www.sol-m.com">www.sol-m.com</a>

## Specifications

<b>Volume (Liter):</b>	5	<b>Syringe hole diameter (mm):</b>	38
<b>Nominal syringe capacity:</b>	150	<b>Material:</b>	cardboard
<b>Dimensions before assembly (mm):</b>	600 x 280 x 5.0	<b>Colour:</b>	Brown
<b>Dimensions after assembly (mm):</b>	288 x 165 x 130		
<b>Weight empty (g):</b>	270		
<b>Minimum order:</b>	5000	<b>Pieces per carton:</b>	25
<b>Year base price:</b>	2010	<b>Volume per carton:</b>	0.018 m3
<b>Price per unit:</b>	On request	<b>Weight per carton:</b>	8 kg
		<b>Incoterms:</b>	EXW
		<b>Quality standard:</b>	ISO 9001
<b>Verification report:</b>	110-29507 (August 2010)	<b>Verification laboratory:</b>	ForceTechnology
<b>Comments:</b>	Carton of 25 units		
<b>Current PQS status:</b>	<i>pre-qualified; 01 Nov 2010</i>	<b>Valid until :</b>	<i>May, 2024</i>

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



## E010: Waste management products

**PQS code:** E010/011  
**Description:** Safety box 5L  
**Manufacturer's reference:** SB TimSafe 5L NE  
**Manufactured in:** Sweden  
**Company:** Smurfit Kappa Sverige AB  
**Address:** Box 43,  
SE-285 21 Markaryd,  
Sweden

**Telephone:** +46 72 18 18 862, +46 433 181 30  
**Email:** [solidsales@smurfitkappa.se](mailto:solidsales@smurfitkappa.se)  
**Web address:** <http://www.timboard.se>

## Specifications

<b>Volume (Liter):</b>	5 Liter	<b>Syringe hole diameter (mm):</b>	38 mm
<b>Nominal syringe capacity:</b>	150 units	<b>Material:</b>	Recycled board and virgin fiber
<b>Dimensions before assembly (mm):</b>	468 x 260 x 4 mm	<b>Colour:</b>	White
<b>Dimensions after assembly (mm):</b>	154 x 113 x 315 mm		
<b>Weight empty (g):</b>	250 g		
<b>Minimum order:</b>	100	<b>Pieces per carton:</b>	25 units
<b>Year base price:</b>	2018	<b>Volume per carton:</b>	0.013 m3
<b>Price per unit:</b>	0.89 €	<b>Weight per carton:</b>	6.54 kg
	22.25 € per 25 pack	<b>Incoterms:</b>	EXW
		<b>Quality standard:</b>	ISO 9001
<b>Verification report:</b>	113-28810	<b>Verification laboratory:</b>	ForceTechnology
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 24 Sep 2013</i>		<b>Valid until :</b> <i>May, 2024</i>

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



## E010: Waste management products

**PQS code:** E010/017  
**Description:** 5L Safety box  
**Manufacturer's reference:** SAFE5L4K  
**Manufactured in:** Finland  
**Company:** Pa-Hu Oy  
**Address:** Teollisuustie 2,  
FIN-02880 Veikkola,  
Finland

**Telephone:** +358-20 789 1000

**Email:** [sales@pa-hu.fi](mailto:sales@pa-hu.fi)

**Web address:** <http://www.pa-hu.fi>

## Specifications

<b>Volume (Liter):</b>	5L	<b>Syringe hole diameter (mm):</b>	38
<b>Nominal syringe capacity:</b>	150	<b>Material:</b>	carton
<b>Dimensions before assembly (mm):</b>	460 x 260 x 3.65	<b>Colour:</b>	brown
<b>Dimensions after assembly (mm):</b>	305 x 113 x 153		
<b>Weight empty (g):</b>	210		
<b>Minimum order:</b>	2000 pieces = 1 pallet	<b>Pieces per carton:</b>	25
<b>Year base price:</b>	2019	<b>Volume per carton:</b>	0.014 m3/CTN of 25
<b>Price per unit:</b>	2000 pieces 0.86€/pc > 46,000 pc 0.82€/pc >96,000 0.77€/pc	<b>Weight per carton:</b>	5.8kg/CTN of 25
		<b>Incoterms:</b>	FCA
		<b>Quality standard:</b>	ISO 9001
<b>Verification report:</b>	119-22766.b 21.06.2019	<b>Verification laboratory:</b>	ForceTechnology
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 05 Jul 2019</i>		<b>Valid until :</b> <i>May, 2023</i>

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



## E010: Waste management products

<b>PQS code:</b>	<b>E010/018</b>
<b>Description:</b>	Safety Box 5L
<b>Manufacturer's reference:</b>	5 litre Safety box "LeSafe"
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Leff International Trading Co Ltd
<b>Address:</b>	10, Yan er'dao Road Qingdao 266000 P.R.China
<b>Telephone:</b>	+ 86 532 88961819
<b>Email:</b>	<a href="mailto:david@lefftrade.org">david@lefftrade.org</a>
<b>Web address:</b>	<a href="http://www.lefftrade.org">www.lefftrade.org</a>

## Specifications

<b>Volume (Liter):</b>	5	<b>Syringe hole diameter (mm):</b>	39
<b>Nominal syringe capacity:</b>	171	<b>Material:</b>	cardboard
<b>Dimensions before assembly (mm):</b>	595 x 255 x 4.19	<b>Colour:</b>	brown
<b>Dimensions after assembly (mm):</b>	310 x 150 x 112		
<b>Weight empty (g):</b>	254		
<b>Minimum order:</b>	100	<b>Pieces per carton:</b>	25
<b>Year base price:</b>	2022	<b>Volume per carton:</b>	0.016
<b>Price per unit:</b>	100 units: USD 0.98 1000 units: USD 0.97 10000 units: USD 0.89	<b>Weight per carton:</b>	7.2 (25 units)
		<b>Incoterms:</b>	EXW
		<b>Quality standard:</b>	ISO 9001
<b>Verification report:</b>	122-21633 rev.2, dated on Apr. 8th, 2022	<b>Verification laboratory:</b>	ForceTechnology
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 03 Mar 2022</i>	<b>Valid until :</b>	<i>May, 2024</i>

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



## E010: Waste management products

<b>PQS code:</b>	<b>E010/019</b>
<b>Description:</b>	5L Safety box
<b>Manufacturer's reference:</b>	HFD-5L
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Hengfengda EPT INC.
<b>Address:</b>	No. 20 Building Yantaiqian Community Yinzhu Street Office Huangdao District Qingdao City Shandong Province China
<b>Telephone:</b>	86-532-86613167
<b>Email:</b>	<a href="mailto:alex@qdhfdept.com">alex@qdhfdept.com</a>
<b>Web address:</b>	

## Specifications

<b>Volume (Liter):</b>	5	<b>Syringe hole diameter (mm):</b>	38
<b>Nominal syringe capacity:</b>	150	<b>Material:</b>	cardboard
<b>Dimensions before assembly (mm):</b>	568x281x3.6	<b>Colour:</b>	brown
<b>Dimensions after assembly (mm):</b>	325x162x125		
<b>Weight empty (g):</b>	332		
<b>Minimum order:</b>	100 pieces	<b>Pieces per carton:</b>	25
<b>Year base price:</b>	2023	<b>Volume per carton:</b>	0.016
<b>Price per unit:</b>	1,000 units USD 0.93	<b>Weight per carton:</b>	9
	10,000 units: USD 0.86	<b>Incoterms:</b>	
	1,000,000 units: USD 0.72	<b>Quality standard:</b>	ISO 9001
<b>Verification report:</b>	122-30007	<b>Verification laboratory:</b>	ForceTechnology
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 18 Jan 2023</i>		<b>Valid until :</b> <i>May, 2024</i>

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





## E010: Waste management products

<b>PQS code:</b>	<b>E10 013</b>
<b>Description:</b>	2.5L Safety Box
<b>Manufacturer's reference:</b>	PT. Tonnindo Eramulya 2.5L Safety Box
<b>Manufactured in:</b>	Indonesia
<b>Company:</b>	PT. Tonnindo Eramulya
<b>Address:</b>	Jl.Pembangunan III # 14E. Jakarta 10130 Indonesia

**Telephone:** +62 216321717

**Email:** [tonnindo@cbn.net.id](mailto:tonnindo@cbn.net.id)

**Web address:** <http://tonnindo.com>

## Specifications

<b>Volume (Liter):</b>	2.5L	<b>Syringe hole diameter (mm):</b>	42mm
<b>Nominal syringe capacity:</b>	80	<b>Material:</b>	recycled board and virgin fibre, water resistant
<b>Dimensions before assembly (mm):</b>	530 x 230 x 28	<b>Colour:</b>	yellow
<b>Dimensions after assembly (mm):</b>	235 x 120 x 110		
<b>Weight empty (g):</b>	227		
<b>Minimum order:</b>	100	<b>Pieces per carton:</b>	25
<b>Year base price:</b>	2017	<b>Volume per carton:</b>	0.001m3
<b>Price per unit:</b>	> 10,000 USD 2.46	<b>Weight per carton:</b>	9kg
	>1,000 USD 2.93	<b>Incoterms:</b>	DDP
	<1,000 USD 2.98	<b>Quality standard:</b>	ISO 9001
<b>Verification report:</b>		<b>Verification laboratory:</b>	ForceTechnology
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 18 Aug 2017</i>	<b>Valid until :</b>	<i>May, 2024</i>

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



## E010: Waste management products

<b>PQS code:</b>	<b>E10 015</b>
<b>Description:</b>	5L Safety Box
<b>Manufacturer's reference:</b>	PT. Tonnindo Eramulya 5L Safety Box
<b>Manufactured in:</b>	Indonesia
<b>Company:</b>	PT. Tonnindo Eramulya
<b>Address:</b>	Jl.Pembangunan III # 14E. Jakarta 10130 Indonesia

**Telephone:** +62 216321717

**Email:** [tonnindo@cbn.net.id](mailto:tonnindo@cbn.net.id)

**Web address:** <http://tonnindo.com>

## Specifications

<b>Volume (Liter):</b>	5L	<b>Syringe hole diameter (mm):</b>	38mm
<b>Nominal syringe capacity:</b>	171	<b>Material:</b>	recycled board and virgin fibre, water resistant
<b>Dimensions before assembly (mm):</b>	584mmx270mmx28mm	<b>Colour:</b>	yellow
<b>Dimensions after assembly (mm):</b>	290mmx150x120mm		
<b>Weight empty (g):</b>	357g		
<b>Minimum order:</b>	100pcs	<b>Pieces per carton:</b>	25
<b>Year base price:</b>	2017	<b>Volume per carton:</b>	0.00163m3
<b>Price per unit:</b>	>10,000 USD 3.46	<b>Weight per carton:</b>	12.5kg
	>1,000 USD 3.92	<b>Incoterms:</b>	DDP
	>100 USD 3.98	<b>Quality standard:</b>	ISO 9001
<b>Verification report:</b>	117-24734.b rev.1	<b>Verification laboratory:</b>	ForceTechnology
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified;</i>	<b>Valid until :</b> <i>May, 2024</i>	

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

**E010: Waste management products**

**PQS code:** E10/016  
**Description:** 5L Safety box  
**Manufacturer's reference:** Medeco Safety Box 5L  
**Manufactured in:** United Arab Emirates  
**Company:** Abu Dhabi Medical Devices Co. L.L.C  
**Address:** P.O.Box 30485, Abu Dhabi  
United Arab Emirates

**Telephone:** +971-2-6199100

**Email:** [info@admd.ae](mailto:info@admd.ae)

**Web address:** <http://www.admd.ae>

**Specifications**

<b>Volume (Liter):</b>	5	<b>Syringe hole diameter (mm):</b>	38.7
<b>Nominal syringe capacity:</b>	377	<b>Material:</b>	recyclable cardboard
<b>Dimensions before assembly (mm):</b>	465x255x4.8	<b>Colour:</b>	Yellow
<b>Dimensions after assembly (mm):</b>	310x150x110		
<b>Weight empty (g):</b>	215		
<b>Minimum order:</b>	25 units (1 carton)	<b>Pieces per carton:</b>	25
<b>Year base price:</b>	2019	<b>Volume per carton:</b>	0.02
<b>Price per unit:</b>	1USD	<b>Weight per carton:</b>	6.5
		<b>Incoterms:</b>	EXW
		<b>Quality standard:</b>	ISO 9001
<b>Verification report:</b>	7191172189-EEC17-WBH	<b>Verification laboratory:</b>	
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 15 Feb 2019</i>		<b>Valid until :</b> <i>May, 2024</i>

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

# E011

## Specimen collection equipment

Currently there are no PQS specifications for specimen collection equipment. These will be developed in the near future in collaboration with other partners. Meanwhile, the PIS qualified equipment can still be obtained from UNICEF Supply Division.

### E011.1 Stool specimen collection for AFP

The full procedures describing how to collect a stool specimen are explained in [WHO/EPI/GEN/95.01 Rev.1](#). *Field guide for supplementary activities aimed at achieving polio eradication*.

### E011.2 Sending specimens via a 'reverse cold chain'

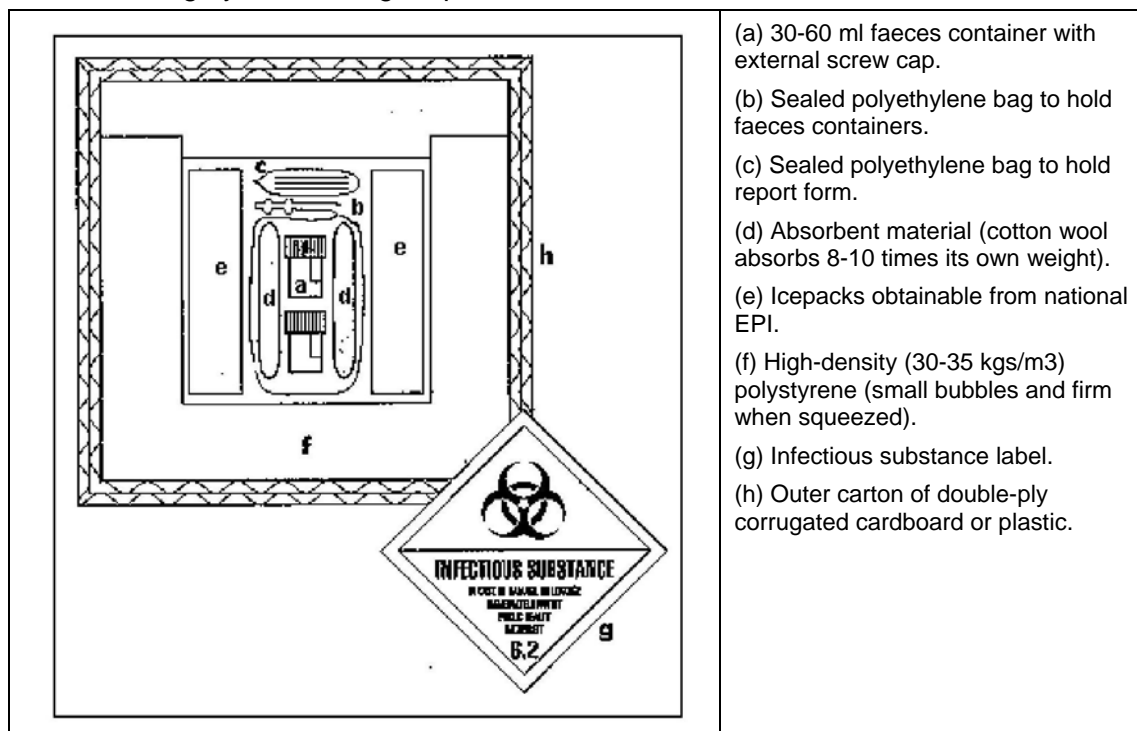
Poliovirus is sensitive to heat: the titre (virus concentration) is maintained at -20°C, but deteriorates when exposed to higher temperatures. The higher the titre, the more easily a laboratory can detect the virus. The possibility of detection therefore depends on the original titre, the duration and degree of post-collection exposure to higher temperatures and the quality of the laboratory. The first two aspects can be influenced in the field by timely collection and correct transport of stool specimens.

After collection, the specimens must be placed immediately in a refrigerator or, for shipment, in a cold box at 0°C to +8°C between frozen ice packs. Aim for the specimens to arrive at the laboratory within 72 hours of collection. If this is not possible, the specimens must be frozen at -20°C and then shipped frozen, preferably with dry ice or with cold packs that have also been frozen at -20°C. Try to limit repeated freezing and thawing to a minimum. This process of keeping the specimen refrigerated or frozen is called a 'reverse cold chain'. If a reverse cold chain is not properly maintained at all times during transport, polioviruses will not survive in the stool specimen.

### E011.3 Basic rules for specimen storage and transport

- **Storage at 0°C - 8°C:** 3-4 days between collection and arrival at laboratory. (Check the cold life of the carrier in the product data sheet).
- **Storage at -20°C:** Indefinitely.
- Repeatedly freezing and thawing decreases the titre of the sample.
- Avoid storing samples in refrigerators or cold boxes used for vaccines or medicines.
- If separate storage is unavoidable, seal specimens in 2-3 layers of plastic bags and separate them properly from vaccines.

- Before packing the specimen carrier, disinfect the inside of the carrier with a solution of 1 part bleach to 10 parts water.
- Inform the receiving laboratory in advance.
- If sending by air, investigate procedures in advance.



Source: WHO/V&B/00.13. *Product Information Sheets*

# E012

(not currently used)

# **E013**

## **Therapeutic injection devices**

The products listed in this new section include single-use syringes for therapeutic use. All PQS pre-qualified syringes in this category must now comply with ISO 7886-4: 2006 - *Sterile hypodermic syringes for single use - Part 4: Syringes with re-use prevention feature*.

The recommendations on safe disposal of used injection equipment given in the guidance notes to section E010 also apply to this category.

<b>E013 data sheets follow</b>
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**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/001</b>
<b>Description:</b>	RUP syringe 2ml
<b>Manufacturer's reference:</b>	Kojak Seling 2ml
<b>Manufactured in:</b>	India
<b>Company:</b>	Hindustan Syringes & Medical Devices Ltd. 174, Sector - 25, Ballabgarh - 121 004 (Haryana) India
<b>Address:</b>	
<b>Telephone:</b>	+91 129-4061151/58
<b>Email:</b>	<a href="mailto:hmduk@hmdhealthcare.com">hmduk@hmdhealthcare.com</a>
<b>Web address:</b>	<a href="http://www.hmdhealthcare.com">www.hmdhealthcare.com</a>

**Specifications**

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	23G x 1" (0.60 x 25.4 mm)
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Locked/broken plunger	<b>Primary packaging:</b>	Paper or Ribbon pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	2000	<b>Volume per carton (m3):</b>	0.09 m3
<b>Minimum order:</b>	18000	<b>Weight per carton (kg):</b>	14.5 kg
<b>Year base price:</b>	2016	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	USD 3.25/100 Pcs		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>	Packs of 100 units Other needle sizes with detachable option available upon request		
<b>Current PQS status:</b>	<b>pre-qualified; 24 Mar 2007</b> Valid until : <b>May, 2024</b>		

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/002

**Description:** RUP Retractable 3 ml

**Manufacturer's reference:** Vanishpoint® Retractable syringe 3 ml

**Manufactured in:** United States

**Company:** Retractable Technologies, Inc.  
511 Lobo Lane, Little Elm, TX 75068

**Address:**

**Telephone:** +1 972 294 1010

**Email:** [kduesman@retractable.com](mailto:kduesman@retractable.com)

**Web address:** [www.retractable.com](http://www.retractable.com)

## Specifications

<b>Graduations:</b>	0.1 ml	<b>Needle size:</b>	23G x 1" (25mm)
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Retraction of needle into barrel by spring	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	600	<b>Volume per carton (m3):</b>	0.0432 m3
<b>Minimum order:</b>	600	<b>Weight per carton (kg):</b>	5.9 kg
<b>Year base price:</b>	2005	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	On request		

**Quality standard:** - ISO 13485 -

**Comments:** The retraction of the needle is considered as a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)

**Current PQS status:** *pre-qualified; 15 Jun 2005*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/005</b>
<b>Description:</b>	RUP Retractable 1ml
<b>Manufacturer's reference:</b>	Vanishpoint® Retractable 1 ml Tuberculin
<b>Manufactured in:</b>	United States
<b>Company:</b>	Retractable Technologies, Inc.
<b>Address:</b>	511 Lobo Lane, Little Elm, TX 75068
<b>Telephone:</b>	+1 972 294 1010
<b>Email:</b>	<a href="mailto:kduesman@retractable.com">kduesman@retractable.com</a>
<b>Web address:</b>	<a href="http://www.retractable.com">www.retractable.com</a>

## Specifications

<b>Graduations:</b>	0.01 ml	<b>Needle size:</b>	27 g x 12.7 mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Retraction of needle into barrel by spring	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	100	<b>Volume per carton (m3):</b>	0.0432 m3
<b>Minimum order:</b>	800	<b>Weight per carton (kg):</b>	4.59 kg
<b>Year base price:</b>	2005	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	on request		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	The retraction of the needle is considered as a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)		
<b>Current PQS status:</b>	<b><i>pre-qualified; 16 Jun 2005</i></b>	<b>Valid until :</b>	<b><i>May, 2024</i></b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/006

**Description:** RUP retractable 1ml

**Manufacturer's reference:** Vanishpoint® Retractable 1 ml

**Manufactured in:** China; People's Republic of

**Company:** Retractable Technologies, Inc.

**Address:** 511 Lobo Lane, Little Elm, TX 75068

**Telephone:** +1 972 294 1010

**Email:** [kduesman@retractable.com](mailto:kduesman@retractable.com)

**Web address:** [www.retractable.com](http://www.retractable.com)

## Specifications

<b>Graduations:</b>	0.01 ml	<b>Needle size:</b>	27G x 12.7 mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Retraction of needle into barrel by spring	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	800	<b>Volume per carton (m3):</b>	0.0432 m3
<b>Minimum order:</b>	800	<b>Weight per carton (kg):</b>	4.5 kg
<b>Year base price:</b>	2005	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	On request		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	The retraction of the needle is considered as a reuse prevention feature (RUP) and a sharp injury Protection (SIP)		
<b>Current PQS status:</b>	<b>pre-qualified; 15 Jun 2005</b>		<b>Valid until :</b> <b>May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/007

**Description:** RUP Retractable 10ml

**Manufacturer's reference:** Vanishpoint® Retractable 10ml

**Manufactured in:** China; People's Republic of

**Company:** Retractable Technologies, Inc.

**Address:** 511 Lobo Lane, Little Elm, TX 75068

**Telephone:** +1 972 294 1010

**Email:** [kduesman@retractable.com](mailto:kduesman@retractable.com)

**Web address:** [www.retractable.com](http://www.retractable.com)

## Specifications

<b>Graduations:</b>	0.2	<b>Needle size:</b>	21Gx1.5" (38mm)
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Retraction of needle into barrel by spring	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	100	<b>Volume per carton (m3):</b>	0.068 m3
<b>Minimum order:</b>	600	<b>Weight per carton (kg):</b>	9.7 kg
<b>Year base price:</b>	2005	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	On request		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	The retraction of the needle is considered as a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)		
<b>Current PQS status:</b>	<b>pre-qualified; 15 Jun 2005</b>		<b>Valid until :</b> <b>May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/008</b>
<b>Description:</b>	RUP Retractable 5ml
<b>Manufacturer's reference:</b>	Vanishpoint® Retractable 5ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Retractable Technologies, Inc.
<b>Address:</b>	511 Lobo Lane, Little Elm, TX 75068
<b>Telephone:</b>	+1 972 294 1010
<b>Email:</b>	<a href="mailto:kduesman@retractable.com">kduesman@retractable.com</a>
<b>Web address:</b>	<a href="http://www.retractable.com">www.retractable.com</a>

## Specifications

<b>Graduations:</b>	0.2 ml	<b>Needle size:</b>	21Gx1.5" (38mm)
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Retraction of needle into barrel by spring	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	100	<b>Volume per carton (m3):</b>	0.045 m3
<b>Minimum order:</b>	600	<b>Weight per carton (kg):</b>	8.2 kg
<b>Year base price:</b>	2005	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	On request		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	The retraction of the needle is considered as a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)		
<b>Current PQS status:</b>	<b><i>pre-qualified; 16 Jun 2005</i></b>	<b>Valid until :</b>	<b><i>May, 2024</i></b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/009

**Description:** RUP retractable 3ml

**Manufacturer's reference:** Vanishpoint® Retractable 3ml

**Manufactured in:** China; People's Republic of

**Company:** Retractable Technologies, Inc.

**Address:** 511 Lobo Lane, Little Elm, TX 75068

**Telephone:** +1 972 294 1010

**Email:** [kduesman@retractable.com](mailto:kduesman@retractable.com)

**Web address:** [www.retractable.com](http://www.retractable.com)

## Specifications

<b>Graduations:</b>	0.1 ml	<b>Needle size:</b>	23Gx1" (25mm)
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Needle retraction into barrel by spring	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	100	<b>Volume per carton (m3):</b>	0.0432 m3
<b>Minimum order:</b>	600	<b>Weight per carton (kg):</b>	5.9 kg
<b>Year base price:</b>	2005	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	On request		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	The retraction of the needle is considered as a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)		
<b>Current PQS status:</b>	<b>pre-qualified; 16 Jun 2005</b>		<b>Valid until :</b> <b>May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/014</b>
<b>Description:</b>	RUP retractable 1ml Insulin
<b>Manufacturer's reference:</b>	Vanishpoint® Retractable 1 ml Insulin
<b>Manufactured in:</b>	United States
<b>Company:</b>	Retractable Technologies, Inc.
<b>Address:</b>	511 Lobo Lane, Little Elm, TX 75068
<b>Telephone:</b>	+1 972 294 1010
<b>Email:</b>	<a href="mailto:kduesman@retractable.com">kduesman@retractable.com</a>
<b>Web address:</b>	<a href="http://www.retractable.com">www.retractable.com</a>

## Specifications

<b>Graduations:</b>	unit dose	<b>Needle size:</b>	29G x 12.7 mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Retraction of needle into barrel by spring	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>		<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	800	<b>Volume per carton (m3):</b>	0.0432 m3
<b>Minimum order:</b>	800	<b>Weight per carton (kg):</b>	4.5 kg
<b>Year base price:</b>	2005	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	On request		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	The retraction of the needle is considered as a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)		
<b>Current PQS status:</b>	<b>pre-qualified; 15 Jun 2005</b>	<b>Valid until :</b>	<b>May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/015</b>
<b>Description:</b>	RUP retractable 1ml Insulin
<b>Manufacturer's reference:</b>	Vanishpoint® Retractable 1ml insulin
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Retractable Technologies, Inc.
<b>Address:</b>	511 Lobo Lane, Little Elm, TX 75068
<b>Telephone:</b>	+1 972 294 1010
<b>Email:</b>	<a href="mailto:kduesman@retractable.com">kduesman@retractable.com</a>
<b>Web address:</b>	<a href="http://www.retractable.com">www.retractable.com</a>

## Specifications

<b>Graduations:</b>	1 unit	<b>Needle size:</b>	29G x 12.7 mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Retraction of needle into barrel by spring	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	100	<b>Volume per carton (m3):</b>	0.0432 m3
<b>Minimum order:</b>	800	<b>Weight per carton (kg):</b>	4.5 kg
<b>Year base price:</b>	2005	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	On request		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	The retraction of the needle is considered as a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)		
<b>Current PQS status:</b>	<b><i>pre-qualified; 15 Jun 2005</i></b>	<b>Valid until :</b>	<b><i>May, 2024</i></b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



**E013: Hypodermic syringes with reuse prevention feature**

<b>PQS code:</b>	<b>E013/018</b>
<b>Description:</b>	RUP syringe 5ml
<b>Manufacturer's reference:</b>	Kojak Seling 5ml
<b>Manufactured in:</b>	India
<b>Company:</b>	Hindustan Syringes & Medical Devices Ltd. 174, Sector - 25, Ballabgarh - 121 004 (Haryana) India
<b>Address:</b>	
<b>Telephone:</b>	+91 129-4061151/58
<b>Email:</b>	<a href="mailto:hmduk@hmdhealthcare.com">hmduk@hmdhealthcare.com</a>
<b>Web address:</b>	<a href="http://www.hmdhealthcare.com">www.hmdhealthcare.com</a>

**Specifications**

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	21G x 1 1/2" (0.80 x 38 mm)
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	locked/broken plunger	<b>Primary packaging:</b>	Paper or Ribbon pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.08 m3
<b>Minimum order:</b>	16800	<b>Weight per carton (kg):</b>	12.6 kg
<b>Year base price:</b>	2020	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	USD 3.75/100 Pcs		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>	Packs of 100 units Other needle sizes with detachable option available upon request		
<b>Current PQS status:</b>	<b>pre-qualified; 24 Feb 2008</b> Valid until : <b>May, 2024</b>		

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## **E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** **E013/019**  
**Description:** RUP syringe 3ml  
**Manufacturer's reference:** Oneject K1 3ml  
**Manufactured in:** Indonesia  
**Company:** PT Oneject Indonesia  
Sentul Industrial Estate  
Jl.Olympic Raya Kav B9  
**Address:** Bogor 16810,  
Indonesia

**Telephone:** +62 21 879 17 422  
**Email:** [marketing@oneject.co.id](mailto:marketing@oneject.co.id)  
**Web address:** [www.oneject.co.id](http://www.oneject.co.id)

## Specifications

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	23G x 1 1/4"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Locked & broken plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1800	<b>Volume per carton (m3):</b>	0.11 m3
<b>Minimum order:</b>	18000	<b>Weight per carton (kg):</b>	13.6 kg
<b>Year base price:</b>	2010	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	On request to manufacturer		

**Quality standard:** - ISO 9001 - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 07 May 2007*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/020</b>
<b>Description:</b>	RUP syringe 10ml
<b>Manufacturer's reference:</b>	Kojak Seling 10 ml
<b>Manufactured in:</b>	India
<b>Company:</b>	Hindustan Syringes & Medical Devices Ltd. 174, Sector - 25, Ballabgarh - 121 004 (Haryana) India
<b>Address:</b>	
<b>Telephone:</b>	+91 129-4061151/58
<b>Email:</b>	<a href="mailto:hmduk@hmdhealthcare.com">hmduk@hmdhealthcare.com</a>
<b>Web address:</b>	<a href="http://www.hmdhealthcare.com">www.hmdhealthcare.com</a>

## Specifications

<b>Graduations:</b>	0.5ml	<b>Needle size:</b>	21G x 1 1/2" (0.80 x 38mm)
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Locked/broken plunger	<b>Primary packaging:</b>	Paper or Ribbon pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	900	<b>Volume per carton (m3):</b>	0.09 m3
<b>Minimum order:</b>	9000	<b>Weight per carton (kg):</b>	13.4 kg
<b>Year base price:</b>	2011	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	USD 4.75/100 Pcs		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>	Packs of 50 units or 100 units Other needle sizes available upon request		
<b>Current PQS status:</b>	<b>pre-qualified; 08 Mar 2007</b>		<b>Valid until : May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## **E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** **E013/023**

**Description:** RUP syringe 1ml

**Manufacturer's reference:** Oneject K1 1ml

**Manufactured in:** Indonesia

**Company:** PT Oneject Indonesia  
Sentul Industrial Estate  
Jl.Olympic Raya Kav B9  
Bogor 16810,  
Indonesia

**Address:**

**Telephone:** +62 21 879 17 422

**Email:** [marketing@oneject.co.id](mailto:marketing@oneject.co.id)

**Web address:** [www.oneject.co.id](http://www.oneject.co.id)

## Specifications

<b>Graduations:</b>	1 ml	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Locked & broken plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1800	<b>Volume per carton (m3):</b>	0.11 m3
<b>Minimum order:</b>	18000	<b>Weight per carton (kg):</b>	13.6 kg
<b>Year base price:</b>	2010	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	On request to manufacturer		

**Quality standard:** - ISO 9001 - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 07 May 2007*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

**PQS code:** E013/024  
**Description:** RUP syringe 5ml  
**Manufacturer's reference:** Oneject K1 5ml  
**Manufactured in:** Indonesia  
**Company:** PT Oneject Indonesia  
Sentul Industrial Estate  
Jl.Olympic Raya Kav B9  
**Address:** Bogor 16810,  
Indonesia

**Telephone:** +62 21 879 17 422  
**Email:** [marketing@oneject.co.id](mailto:marketing@oneject.co.id)  
**Web address:** [www.oneject.co.id](http://www.oneject.co.id)

## Specifications

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	21G x 1 1/2"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger locked and broken	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		

<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.09m3
<b>Minimum order:</b>	12000	<b>Weight per carton (kg):</b>	11.1 kg

<b>Year base price:</b>	2008	<b>Incoterms:</b>	FOB
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<b>Price per unit:</b>	On request to manufacturer
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<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -
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**Comments:**

<b>Current PQS status:</b>	<i>pre-qualified; 21 May 2007</i>	<b>Valid until :</b>	<i>May, 2024</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/027  
**Description:** RUP syringe 1ml  
**Manufacturer's reference:** SoloShotTM IX 1ml syringe  
**Manufactured in:** Spain  
**Company:** Becton Dickinson  
**Address:** 1 Becton Drive, Franklin Lakes, NJ 07417 USA MC238  
**Telephone:** +1 201-847-5149  
**Email:** [Chee\\_Lum@BD.COM](mailto:Chee_Lum@BD.COM)  
**Web address:** <http://www.bd.com>

**Specifications**

<b>Graduations:</b>	1 ml	<b>Needle size:</b>	22G x 25mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	2 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Plunger locking clip	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	At start of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I A		
<b>Pieces per carton:</b>	200	<b>Volume per carton (m3):</b>	0.102 m3
<b>Minimum order:</b>	2400	<b>Weight per carton (kg):</b>	11.49 kg
<b>Year base price:</b>	2010	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	On request to manufacturer		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		

**Comments:**

**Current PQS status:** *pre-qualified; 28 May 2007* Valid until : *May, 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

**PQS code:** E013/029

**Description:** RUP syringe 3ml

**Manufacturer's reference:** Yushou 3ml

**Manufactured in:** China; People's Republic of

**Company:** Wuxi Yushou Medical Appliances Co., Ltd  
No.115 Nongxinhe Road  
Xishan District  
Wuxi city  
Jiangsu Province  
China

**Address:**

**Telephone:** +86 (510)3777555

**Email:** [mike@chinasyringe.com](mailto:mike@chinasyringe.com); [helen@chinasyringe.com](mailto:helen@chinasyringe.com)

**Web address:** <http://www.chinasyringe.com>

**Specifications**

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	23G x 1 1/4"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger lock with clip	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	At start of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I A		
<b>Pieces per carton:</b>	2400	<b>Volume per carton (m3):</b>	??
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	13 kg
<b>Year base price:</b>	2021	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	On request to manufacturer		

**Quality standard:** - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 27 May 2008*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/034</b>
<b>Description:</b>	RUP syringe 2ml
<b>Manufacturer's reference:</b>	Haiou syringe 2ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Guangdong Haiou Medical Apparatus Co., Ltd
<b>Address:</b>	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China
<b>Telephone:</b>	+86-663-2758666
<b>Email:</b>	<a href="mailto:market01@haiou.net.cn">market01@haiou.net.cn</a>
<b>Web address:</b>	<a href="http://www.haiou.net.cn">http://www.haiou.net.cn</a>

## Specifications

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	23G x 25mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	2400	<b>Volume per carton (m3):</b>	0.118 m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	15.5 kg
<b>Year base price:</b>	2008	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	On request		
<b>Quality standard:</b>	- ISO 13485 -		

**Comments:**

<b>Current PQS status:</b>	<i>pre-qualified; 30 Apr 2009</i>	<b>Valid until :</b>	<i>May, 2024</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn',



**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/035</b>
<b>Description:</b>	RUP syringe 5ml
<b>Manufacturer's reference:</b>	Haiou syringe 5ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Guangdong Haiou Medical Apparatus Co., Ltd
<b>Address:</b>	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China
<b>Telephone:</b>	+86-663-2758666
<b>Email:</b>	<a href="mailto:market01@haiou.net.cn">market01@haiou.net.cn</a>
<b>Web address:</b>	<a href="http://www.haiou.net.cn">http://www.haiou.net.cn</a>

## Specifications

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	21G x 40mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1800	<b>Volume per carton (m3):</b>	0.116 m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	16 kg
<b>Year base price:</b>	2008	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	On request		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 30 Apr 2009</i>	<b>Valid until :</b>	<i>May, 2024</i>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/036

**Description:** RUP syringe 10ml

**Manufacturer's reference:** Haiou syringe 10ml

**Manufactured in:** China; People's Republic of

**Company:** Guangdong Haiou Medical Apparatus Co., Ltd

**Address:** Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China

**Telephone:** +86-663-2758666

**Email:** [market01@haiou.net.cn](mailto:market01@haiou.net.cn)

**Web address:** <http://www.haiou.net.cn>

## Specifications

<b>Graduations:</b>	1ml	<b>Needle size:</b>	21G x 40mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.11 m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	15.5 kg
<b>Year base price:</b>	2008	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	On request		
<b>Quality standard:</b>	- ISO 13485 -		

**Comments:**

**Current PQS status:** *pre-qualified; 30 Apr 2009* Valid until : *May, 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

<b>PQS code:</b>	<b>E013/037</b>
<b>Description:</b>	RUP syringe 3ml
<b>Manufacturer's reference:</b>	RG-Non reusable syringe 3ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Royal Group
<b>Address:</b>	ONB-E/2, Mehar Sons Estate, Talpur Road, Karachi-74000, Pakistan
<b>Telephone:</b>	+92-21-32400270 Ext. 232; +92-21-32470301
<b>Email:</b>	<a href="mailto:royalgroup@pakistan.gov.pk">royalgroup@pakistan.gov.pk</a> , <a href="mailto:noman.khan@royalgroupweb.com">noman.khan@royalgroupweb.com</a> <a href="mailto:info@royalgroupweb.com">info@royalgroupweb.com</a>
<b>Web address:</b>	<a href="http://www.royalgroupweb.com">http://www.royalgroupweb.com</a>

**Specifications**

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger lock and break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	2000	<b>Volume per carton (m3):</b>	0.123 m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	17 kg
<b>Year base price:</b>	2009	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	On request		

**Quality standard:** - ISO 13485 -**Comments:** Sole distributor of RG brand Non Reusable Syringe for Changzhou Tongda Medical Appliance Co.,Ltd. Sanhekou Street, Zhenglu Town, Tianning District, Changzhou, Jiangsu, China.**Current PQS status:** *pre-qualified; 21 May 2009* **Valid until :** *May, 2024***Note:** If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/038</b>
<b>Description:</b>	RUP syringe 5ml
<b>Manufacturer's reference:</b>	RG-Non reusable syringe 5ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Royal Group
<b>Address:</b>	ONB-E/2, Mehar Sons Estate, Talpur Road, Karachi-74000, Pakistan
<b>Telephone:</b>	+92-21-32400270 Ext. 232; +92-21-32470301
<b>Email:</b>	<a href="mailto:royalgroup@pakistan.gov.pk">royalgroup@pakistan.gov.pk</a> , <a href="mailto:noman.khan@royalgroupweb.com">noman.khan@royalgroupweb.com</a> <a href="mailto:info@royalgroupweb.com">info@royalgroupweb.com</a>
<b>Web address:</b>	<a href="http://www.royalgroupweb.com">http://www.royalgroupweb.com</a>

## Specifications

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	21G x 1 1/2"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger block and break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	2000	<b>Volume per carton (m3):</b>	0.0135 m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	22 kg
<b>Year base price:</b>	2009	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	On request		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	Sole distributor of RG brand Non Reusable Syringe for Changzhou Tongda Medical Appliance Co.,Ltd. Sanhekou Street, Zhenglu Town, Tianning District, Changzhou, Jiangsu, China.		
<b>Current PQS status:</b>	<b>pre-qualified; 21 May 2009</b>		<b>Valid until :</b> <b>May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

**PQS code:** E013/039

**Description:** RUP syringe 20ml

**Manufacturer's reference:** Kojak Seling 20ml

**Manufactured in:** India

**Company:** Hindustan Syringes & Medical Devices Ltd.  
174, Sector - 25, Ballabgarh - 121 004  
(Haryana) India

**Address:**

**Telephone:** +91 129-4061151/58

**Email:** [hmduk@hmdhealthcare.com](mailto:hmduk@hmdhealthcare.com)

**Web address:** [www.hmdhealthcare.com](http://www.hmdhealthcare.com)

## Specifications

<b>Graduations:</b>	1ml	<b>Needle size:</b>	21G x 1 1/2" (0.80 x 38 mm)
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	locked/broken plunger	<b>Primary packaging:</b>	Paper or Ribbon pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	400	<b>Volume per carton (m3):</b>	0.103 m3
<b>Minimum order:</b>	4000	<b>Weight per carton (kg):</b>	13 kg
<b>Year base price:</b>	2020	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	USD 8.90/100 Pcs		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>	Packs of 25 units Other needle sizes available upon request		
<b>Current PQS status:</b>	<b>pre-qualified; 18 Jun 2009</b>		<b>Valid until : May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/040</b>
<b>Description:</b>	RUP syringe 5ml
<b>Manufacturer's reference:</b>	Revital 5ml (3 piece)
<b>Manufactured in:</b>	Kenya
<b>Company:</b>	Revital Health Care (EPZ) Limited LR No. 5025/1239, Takaungu 80100 Mombasa Kenya
<b>Address:</b>	
<b>Telephone:</b>	+254 72241 2900
<b>Email:</b>	<a href="mailto:info@revitalhcare.com">info@revitalhcare.com</a>
<b>Web address:</b>	<a href="http://www.revitalhealthcare.com">www.revitalhealthcare.com</a>

## Specifications

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	21Gx1 ½" (38mm)
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger (gasket) lock	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		

<b>Pieces per carton:</b>	2500	<b>Volume per carton (m3):</b>	0.141
<b>Minimum order:</b>	500000	<b>Weight per carton (kg):</b>	21.5 kg

<b>Year base price:</b>	2008	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	0.05 US\$		

**Quality standard:** - ISO 13485 -

**Comments:** CE 0123  
Plunger gasket can be provided in black or white

**Current PQS status:** *pre-qualified; 02 Sep 2009* Valid until : *May, 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

**PQS code:** E013/041

**Description:** RUP syringe 1ml

**Manufacturer's reference:** Yushou Syringe 1ml

**Manufactured in:** China; People's Republic of

**Company:** Wuxi Yushou Medical Appliances Co., Ltd  
No.115 Nongxinhe Road  
Xishan District  
Wuxi city  
Jiangsu Province  
China

**Address:**

**Telephone:** +86 (510)3777555

**Email:** [mike@chinasyringe.com](mailto:mike@chinasyringe.com); [helen@chinasyringe.com](mailto:helen@chinasyringe.com)

**Web address:** <http://www.chinasyringe.com>

## Specifications

<b>Graduations:</b>	0.05ml	<b>Needle size:</b>	25G x 20mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Plunger lock with metallic clip	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	At start of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I A		
<b>Pieces per carton:</b>	2400	<b>Volume per carton (m3):</b>	0.094 m3
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	11 kg
<b>Year base price:</b>	2008	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	On request		

**Quality standard:** - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 15 Sep 2009*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

**PQS code:** E013/042  
**Description:** 2ml 3 piece RUP syringe  
**Manufacturer's reference:** Revital 2ml (3 piece)  
**Manufactured in:** Kenya  
**Company:** Revital Health Care (EPZ) Limited  
LR No. 5025/1239, Takaungu  
80100 Mombasa  
Kenya  
**Address:**  
**Telephone:** +254 72241 2900  
**Email:** [info@revitalhcare.com](mailto:info@revitalhcare.com)  
**Web address:** [www.revitalhealthcare.com](http://www.revitalhealthcare.com)

**Specifications**

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger block and break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	3500	<b>Volume per carton (m3):</b>	0.130 m3
<b>Minimum order:</b>	700000	<b>Weight per carton (kg):</b>	19.5 kg
<b>Year base price:</b>	2008	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	Per unit: 0.027 US\$		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	CE 0123		
<b>Current PQS status:</b>	<i>pre-qualified; 08 Jan 2009</i>	<b>Valid until :</b>	<i>May, 2024</i>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



**E013: Hypodermic syringes with reuse prevention feature**

**PQS code:** E013/043  
**Description:** RUP syringe 5ml  
**Manufacturer's reference:** Revital 5ml ( 2 piece)  
**Manufactured in:** Kenya  
**Company:** Revital Health Care (EPZ) Limited  
LR No. 5025/1239, Takaungu  
80100 Mombasa  
Kenya  
**Address:**  
**Telephone:** +254 72241 2900  
**Email:** [info@revitalhcare.com](mailto:info@revitalhcare.com)  
**Web address:** [www.revitalhealthcare.com](http://www.revitalhealthcare.com)

**Specifications**

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	21Gx1 ½" (38mm)
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	2 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger lock and break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		

<b>Pieces per carton:</b>	2500	<b>Volume per carton (m3):</b>	0.128 m3
<b>Minimum order:</b>	500000	<b>Weight per carton (kg):</b>	17.6 kg

<b>Year base price:</b>	2008	<b>Incoterms:</b>	FCA
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<b>Price per unit:</b>	Per unit: 0.0295 US\$
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<b>Quality standard:</b>	- ISO 13485 -
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<b>Comments:</b>	CE 0123
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<b>Current PQS status:</b>	<i>pre-qualified; 08 Jan 2009</i>	<b>Valid until :</b>	<i>May, 2024</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/044</b>
<b>Description:</b>	RUP retractable 1ml Tuberculin
<b>Manufacturer's reference:</b>	Safegard Retractable safety syringe 1ml Tuberculin
<b>Manufactured in:</b>	Hungary
<b>Company:</b>	Safegard Medical (Hungary) Kft Safegard Medical ( Hungary ) Kft Farkaslyuk
<b>Address:</b>	Joszerencset terv 15 3608 Hungary
<b>Telephone:</b>	+36 48 470758
<b>Email:</b>	<a href="mailto:filippif@safegardmedical.hu">filippif@safegardmedical.hu</a>
<b>Web address:</b>	<a href="http://www.safegardmedical.com">www.safegardmedical.com</a>

**Specifications**

<b>Graduations:</b>	0.01ml	<b>Needle size:</b>	27G x 1/2"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Needle retraction	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	100	<b>Volume per carton (m3):</b>	0.056 m3
<b>Minimum order:</b>	1000	<b>Weight per carton (kg):</b>	5.4 kg
<b>Year base price:</b>	2016	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	0.08 US\$/pc		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	The retraction of the needle is considered as a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)		
<b>Current PQS status:</b>	<b>pre-qualified; 22 Feb 2010</b>		<b>Valid until : May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/045</b>
<b>Description:</b>	RUP retractable 3ml
<b>Manufacturer's reference:</b>	Safegard Retractable Safety syringe 3ml
<b>Manufactured in:</b>	Hungary
<b>Company:</b>	Safegard Medical (Hungary) Kft Safegard Medical ( Hungary ) Kft Farkaslyuk
<b>Address:</b>	Joszerencset terv 15 3608 Hungary
<b>Telephone:</b>	+36 48 470758
<b>Email:</b>	<a href="mailto:filippif@safegardmedical.hu">filippif@safegardmedical.hu</a>
<b>Web address:</b>	<a href="http://www.safegardmedical.com">www.safegardmedical.com</a>

## Specifications

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	23G x 1/2"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Needle retraction	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	100	<b>Volume per carton (m3):</b>	0.07 m3
<b>Minimum order:</b>	1000	<b>Weight per carton (kg):</b>	7.3 kg
<b>Year base price:</b>	2016	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	0.085 US\$/pc		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	The retraction of the needle is considered as a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)		
<b>Current PQS status:</b>	<i>pre-qualified; 22 Feb 2010</i>		Valid until : <i>May, 2024</i>
<b>Note:</b> If Current PQS status is 'Suspended' or 'Withdrawn',			

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/046</b>
<b>Description:</b>	RUP retractable 5ml
<b>Manufacturer's reference:</b>	Safegard Retractable Safety Syringe 5ml
<b>Manufactured in:</b>	Hungary
<b>Company:</b>	Safegard Medical (Hungary) Kft Safegard Medical ( Hungary ) Kft Farkaslyuk
<b>Address:</b>	Joszerencset terv 15 3608 Hungary
<b>Telephone:</b>	+36 48 470758
<b>Email:</b>	<a href="mailto:filippif@safegardmedical.hu">filippif@safegardmedical.hu</a>
<b>Web address:</b>	<a href="http://www.safegardmedical.com">www.safegardmedical.com</a>

## Specifications

<b>Graduations:</b>	0.2 ml	<b>Needle size:</b>	21G x 1 1/4"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Needle retraction into barrel	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	100	<b>Volume per carton (m3):</b>	0.12 m3
<b>Minimum order:</b>	1000	<b>Weight per carton (kg):</b>	9.68 kg
<b>Year base price:</b>	2016	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	0.09 US\$/pc		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	The retraction of the needle is considered as a reuse prevention feature (RUP) and a Sharp Injury Protection (SIP)		
<b>Current PQS status:</b>	<i>pre-qualified; 22 Feb 2010</i>		Valid until : <i>May, 2024</i>
Note: If Current PQS status is 'Suspended' or 'Withdrawn',			

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/051  
**Description:** RUP syringe 2ml  
**Manufacturer's reference:** Revital 2ml (2 piece)  
**Manufactured in:** Kenya  
**Company:** Revital Health Care (EPZ) Limited  
LR No. 5025/1239, Takaungu  
80100 Mombasa  
Kenya  
**Address:**  
**Telephone:** +254 72241 2900  
**Email:** [info@revitalhcare.com](mailto:info@revitalhcare.com)  
**Web address:** [www.revitalhealthcare.com](http://www.revitalhealthcare.com)

**Specifications**

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	2 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger lock and break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	3500	<b>Volume per carton (m3):</b>	0.130 m3
<b>Minimum order:</b>	700000	<b>Weight per carton (kg):</b>	17.5 kg
<b>Year base price:</b>	2008	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	Up to 5 millions: 0.028 US\$	Up to 10 millions: 0.0275 US\$	
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	CE 0123		
<b>Current PQS status:</b>	<i>pre-qualified; 26 Apr 2010</i>		Valid until : <i>May, 2024</i>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/053

**Description:** RUP syringe 2ml

**Manufacturer's reference:** Hongda syringe 2ml

**Manufactured in:** China; People's Republic of

**Company:** Jiangxi Hongda Medical Equipment Group Ltd  
39 South Shengi Road  
Jinxian county, Nanchang City  
Jiangxi province  
China; People's Republic of

**Address:**

**Telephone:** +86 791 85628828

**Email:** [hongda008@jxhd.cn](mailto:hongda008@jxhd.cn)

**Web address:** <http://www.jxhd.cn>

## Specifications

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	21G x 38mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	gasket lock/ plunger break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		

<b>Pieces per carton:</b>	2500	<b>Volume per carton (m3):</b>	0.106 m3
<b>Minimum order:</b>	525000	<b>Weight per carton (kg):</b>	17 kg

<b>Year base price:</b>	2016	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	On request		

**Quality standard:** - ISO 13485 -

**Comments:** Option 2000 or 2400 per cartons  
Other needle sizes available  
Needle at side available  
Fixed needle option available

**Current PQS status:** *pre-qualified; 09 Jun 2010* Valid until : *May, 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/054

**Description:** RUP syringe 5ml

**Manufacturer's reference:** Hongda syringe 5ml

**Manufactured in:** China; People's Republic of

**Company:** Jiangxi Hongda Medical Equipment Group Ltd  
39 South Shengi Road  
Jinxian county, Nanchang City  
Jiangxi province  
China; People's Republic of

**Address:**

**Telephone:** +86 791 85628828

**Email:** [hongda008@jxhd.cn](mailto:hongda008@jxhd.cn)

**Web address:** <http://www.jxhd.cn>

**Specifications**

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	21G x 38mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	gasket lock/ plunger break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		

<b>Pieces per carton:</b>	1500	<b>Volume per carton (m3):</b>	0.124 m3
<b>Minimum order:</b>	525000	<b>Weight per carton (kg):</b>	19 kg

<b>Year base price:</b>	2009	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	On request		

**Quality standard:** - ISO 13485 -

**Comments:** Needle at side available  
Pieces per carton: 2000 or 1800

**Current PQS status:** *pre-qualified; 09 Jun 2010* Valid until : *May, 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

<b>PQS code:</b>	<b>E013/055</b>
<b>Description:</b>	RUP syringe 5ml
<b>Manufacturer's reference:</b>	Shifeng RUP syringe 5ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Chengdu Xinjin Shifeng Medical Apparatus Co, Ltd Chengdu Xinjin Shifeng Medical Apparatus & Instruments Co, Ltd
<b>Address:</b>	C-6, B Glorai Regent Garden #44 4th section South Renmin road Chengdu Sichuan China; People's Republic of
<b>Telephone:</b>	+86 2885170675
<b>Email:</b>	<a href="mailto:xjshifeng2011@163.com">xjshifeng2011@163.com</a>
<b>Web address:</b>	<a href="http://www.xjshifeng.com">www.xjshifeng.com</a>

**Specifications**

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Locked broken plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1600	<b>Volume per carton (m3):</b>	0.122 m3
<b>Minimum order:</b>	1600	<b>Weight per carton (kg):</b>	17 kg
<b>Year base price:</b>	2009	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	0.055 USD		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 30 Aug 2010</i>		Valid until : <i>May, 2023</i>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/056</b>
<b>Description:</b>	RUP 1ml fixed dose
<b>Manufacturer's reference:</b>	Kojak Selinge 1 ml
<b>Manufactured in:</b>	India
<b>Company:</b>	Hindustan Syringes & Medical Devices Ltd. 174, Sector - 25, Ballabgarh - 121 004 (Haryana) India
<b>Address:</b>	
<b>Telephone:</b>	+91 129-4061151/58
<b>Email:</b>	<a href="mailto:hmduk@hmdhealthcare.com">hmduk@hmdhealthcare.com</a>
<b>Web address:</b>	<a href="http://www.hmdhealthcare.com">www.hmdhealthcare.com</a>

## Specifications

<b>Graduations:</b>	1 ml	<b>Needle size:</b>	24G x 25mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Locked/broken plunger	<b>Primary packaging:</b>	Paper or Ribbon pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I A		
<b>Pieces per carton:</b>	2000	<b>Volume per carton (m3):</b>	0.1 m3
<b>Minimum order:</b>	20000	<b>Weight per carton (kg):</b>	14.5 kg
<b>Year base price:</b>	2020	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	USD 3.75/100 Pcs		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>	Packs of 100 units Needle size: 24G x 1" (0.55 x 25mm); other needle sizes available upon request		
<b>Current PQS status:</b>	<b>pre-qualified; 16 Sep 2010</b> Valid until : <b>May, 2024</b>		

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

**PQS code:** E013/057

**Description:** RUP 1ml Sanxin

**Manufacturer's reference:** YIXIN 1 ml

**Manufactured in:** China; People's Republic of

**Company:** Jiangxi Sanxin Medtec Co.,Ltd  
999 Fushan Road, Xiaolan Economic Development Zone,  
Nanchang, Jiangxi, P.C. 330200  
China; People's Republic of

**Address:**

**Telephone:** +86 791 85988111

**Email:** [sanxin-med@vip.163.com](mailto:sanxin-med@vip.163.com)

**Web address:** [www.sanxin-med.com](http://www.sanxin-med.com)

## Specifications

<b>Graduations:</b>	1 ml	<b>Needle size:</b>	25G x 19 mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Plunger locked	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	3000	<b>Volume per carton (m3):</b>	0.12 m3
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	15 kg
<b>Year base price:</b>	2012	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	0.0395 USD		
<b>Quality standard:</b>	- ISO 13485 -		

### Comments:

**Current PQS status:** *pre-qualified; 02 Sep 2010* **Valid until :** *May, 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/058

**Description:** RUP syringe 5ml

**Manufacturer's reference:** Yushou® RUP 5ml

**Manufactured in:** China; People's Republic of

**Company:** Wuxi Yushou Medical Appliances Co., Ltd  
No.115 Nongxinhe Road  
Xishan District  
Wuxi city  
Jiangsu Province  
China

**Address:**

**Telephone:** +86 (510)3777555

**Email:** [mike@chinasyringe.com](mailto:mike@chinasyringe.com); [helen@chinasyringe.com](mailto:helen@chinasyringe.com)

**Web address:** <http://www.chinasyringe.com>

## Specifications

<b>Graduations:</b>	0.2 ml	<b>Needle size:</b>	21G x 1 1/2'
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Locked / broken plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1800	<b>Volume per carton (m3):</b>	0.103 m3
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	13 kg
<b>Year base price:</b>	2021	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	Upon request to manufacturer		

**Quality standard:** - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 07 Mar 2011*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## **E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** **E013/062**  
**Description:** RUP 10ml (2 piece)  
**Manufacturer's reference:** Revital® RUP 10ml 2 piece syringe  
**Manufactured in:** Kenya  
**Company:** Revital Health Care (EPZ) Limited  
LR No. 5025/1239, Takaungu  
80100 Mombasa  
Kenya  
**Address:**  
**Telephone:** +254 72241 2900  
**Email:** [info@revitalhcare.com](mailto:info@revitalhcare.com)  
**Web address:** [www.revitalhealthcare.com](http://www.revitalhealthcare.com)

## Specifications

<b>Graduations:</b>	0.5 ml	<b>Needle size:</b>	21G x 1.5"
<b>Syringe material(s):</b>	PPE, Polyethylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	2 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	locked, broken plunger	<b>Primary packaging:</b>	Plastic ribbon
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	2500	<b>Volume per carton (m3):</b>	0.1874 m3
<b>Minimum order:</b>	500000	<b>Weight per carton (kg):</b>	19.8 kgs
<b>Year base price:</b>	2011	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	Over 1 million: 6.80 USD per pack	Over 5 millions: 6.60 USD per pack	Over 10 millions: 6.50 USD per pack
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	CE 0123		
<b>Current PQS status:</b>	<b><i>pre-qualified; 09 May 2011</i></b>		<b>Valid until : <i>May, 2024</i></b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/063</b>
<b>Description:</b>	RUP syringe 5ml
<b>Manufacturer's reference:</b>	5ml BD Emerald™ PRO RUP
<b>Manufactured in:</b>	Spain
<b>Company:</b>	Becton Dickinson
<b>Address:</b>	1 Becton Drive, Franklin Lakes, NJ 07417 USA MC238
<b>Telephone:</b>	+1 201-847-5149
<b>Email:</b>	<a href="mailto:Chee_Lum@BD.COM">Chee_Lum@BD.COM</a>
<b>Web address:</b>	<a href="http://www.bd.com">http://www.bd.com</a>

**Specifications**

<b>Graduations:</b>	0.2 ml	<b>Needle size:</b>	21G x 40 mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Locking gasket upon completion	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	2000	<b>Volume per carton (m3):</b>	0.103 m3
<b>Minimum order:</b>	2000	<b>Weight per carton (kg):</b>	13.4 kg
<b>Year base price:</b>	2011	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	upon request to manufacturer		

**Quality standard:** - ISO 9001 - ISO 13485 -**Comments:****Current PQS status:** *pre-qualified; 31 May 2011*Valid until : *May, 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/064

**Description:** RUP syringe 1ml

**Manufacturer's reference:** Sanzhong® 1ml

**Manufactured in:** China; People's Republic of

**Company:** Anhui Tiankang Medical Technology Co., Ltd  
228, Weiyi Road,  
Economic Development Zone,  
Tianchang City,  
Anhui Province  
China; People's Republic of

**Address:**

**Telephone:** +86 550 7022258

**Email:** [marshall988@163.net](mailto:marshall988@163.net)

**Web address:** <http://www.tkmedical.com>

## Specifications

<b>Graduations:</b>	0.05 ml	<b>Needle size:</b>	27G x 1/2"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger locked at end of injection	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	2000	<b>Volume per carton (m3):</b>	0.072 m3
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	10 kg
<b>Year base price:</b>	2011	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Over 200 000 units: 0.0407 USD per unit	Over 1 000 000 units: 0.0399 USD per unit	Over 5 000 000 units: 0.0387 USD per unit
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 14 Sep 2011</i>		<b>Valid until :</b> <i>May, 2024</i>
<b>Note:</b> If Current PQS status is 'Suspended' or 'Withdrawn',			

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/065

**Description:** RUP syringe 2ml

**Manufacturer's reference:** Sanzhong® 2ml

**Manufactured in:** China; People's Republic of

**Company:** Anhui Tiankang Medical Technology Co., Ltd  
228, Weiyi Road,  
Economic Development Zone,  
Tianchang City,  
Anhui Province  
China; People's Republic of

**Address:**

**Telephone:** +86 550 7022258

**Email:** [marshall988@163.net](mailto:marshall988@163.net)

**Web address:** <http://www.tkmedical.com>

**Specifications**

<b>Graduations:</b>	0.1 ml	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Locked plunger at the end of injection	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1800	<b>Volume per carton (m3):</b>	0.0927 m3
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	11 kg
<b>Year base price:</b>	2011	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Over 200000 units: 0.0407 USD per unit	Over 1000000 units: 0.0399 USD per unit	Over 5000000 units: 0.0387 USD per unit
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 14 Sep 2011</i>		<b>Valid until :</b> <i>May, 2024</i>
<b>Note:</b> If Current PQS status is 'Suspended' or 'Withdrawn',			

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/066

**Description:** RUP syringe 5ml

**Manufacturer's reference:** Sanzhong® 5ml

**Manufactured in:** China; People's Republic of

**Company:** Anhui Tiankang Medical Technology Co., Ltd  
228, Weiyi Road,  
Economic Development Zone,  
Tianchang City,  
Anhui Province  
China; People's Republic of

**Address:**

**Telephone:** +86 550 7022258

**Email:** [marshall988@163.net](mailto:marshall988@163.net)

**Web address:** <http://www.tkmedical.com>

## Specifications

<b>Graduations:</b>	0.2 ml	<b>Needle size:</b>	22G x 1 1/4"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Locked plunger at end of injection	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.075 m3
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	11 kg
<b>Year base price:</b>	2011	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Over 200000 units: 0.0421 USD per unit	Over 1000000 units: 0.0412 USD per unit	Over 5000000 units: 0.0400 USD per unit
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 14 Sep 2011</i>		<b>Valid until :</b> <i>May, 2024</i>
<b>Note:</b> If Current PQS status is 'Suspended' or 'Withdrawn',			



**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/067

**Description:** RUP syringe 10ml

**Manufacturer's reference:** Sanzhong® 10ml

**Manufactured in:** China; People's Republic of

**Company:** Anhui Tiankang Medical Technology Co., Ltd  
228, Weiyi Road,  
Economic Development Zone,  
Tianchang City,  
Anhui Province  
China; People's Republic of

**Address:**

**Telephone:** +86 550 7022258

**Email:** [marshall988@163.net](mailto:marshall988@163.net)

**Web address:** <http://www.tkmedical.com>

**Specifications**

<b>Graduations:</b>	0.5 ml	<b>Needle size:</b>	21G x 1 1/2"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Locked plunger at the end of injection	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.075 m3
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	14 kg
<b>Year base price:</b>	2011	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Over 200,000 units: 0.0556 USD per unit	Over 1,000,000 units: 0.0545 USD per unit	Over 5,000,000 units: 0.0529 USD per unit
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 14 Sep 2011</i>		Valid until : <i>May, 2024</i>
Note: If Current PQS status is 'Suspended' or 'Withdrawn',			

**E013: Hypodermic syringes with reuse prevention feature**

<b>PQS code:</b>	<b>E013/068</b>
<b>Description:</b>	RUP syringe 2ml
<b>Manufacturer's reference:</b>	Emerald TM PRO 2ml
<b>Manufactured in:</b>	Spain
<b>Company:</b>	Becton Dickinson
<b>Address:</b>	1 Becton Drive, Franklin Lakes, NJ 07417 USA MC238
<b>Telephone:</b>	+1 201-847-5149
<b>Email:</b>	<a href="mailto:Chee_Lum@BD.COM">Chee_Lum@BD.COM</a>
<b>Web address:</b>	<a href="http://www.bd.com">http://www.bd.com</a>

**Specifications**

<b>Graduations:</b>	0.1 ml	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	locked gasket upon completion of injection	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	3000	<b>Volume per carton (m3):</b>	0.103 m3
<b>Minimum order:</b>	3000	<b>Weight per carton (kg):</b>	13.39 kg
<b>Year base price:</b>	2010	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	upon request to manufacturer		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>	1 carton = 30 packs = 3000 units		
<b>Current PQS status:</b>	<b><i>pre-qualified; 21 Oct 2011</i></b>		<b>Valid until : <i>May, 2024</i></b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/069</b>
<b>Description:</b>	RUP syringe 3ml
<b>Manufacturer's reference:</b>	SKIFA RUP syringe 3ml
<b>Manufactured in:</b>	Indonesia
<b>Company:</b>	Mitra Rajawali Banjaran, PT JL. Raya Banjaran KM16 Bandung, Jawa Barat Indonesia
<b>Address:</b>	
<b>Telephone:</b>	+62 22 594 0151
<b>Email:</b>	<a href="mailto:mrb.sekre@gmail.com">mrb.sekre@gmail.com</a> , <a href="mailto:restijuliawati@yahoo.com">restijuliawati@yahoo.com</a> , <a href="mailto:irmayuliarachmat@gmail.com">irmayuliarachmat@gmail.com</a>
<b>Web address:</b>	<a href="http://www.mrb.co.id">http://www.mrb.co.id</a>

## Specifications

<b>Graduations:</b>	0.1 ml	<b>Needle size:</b>	23G x 32mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger locked at end of injection	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	No
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	2000	<b>Volume per carton (m3):</b>	0.17m3
<b>Minimum order:</b>	20000	<b>Weight per carton (kg):</b>	15 kg
<b>Year base price:</b>	2011	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	upon request to manufacturer		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>	Brand name: SKIFA		
<b>Current PQS status:</b>	<b>pre-qualified; 01 Dec 2011</b>		<b>Valid until : May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/070</b>
<b>Description:</b>	RUP syringe 10ml
<b>Manufacturer's reference:</b>	10ml BD EmeraldTM PRO
<b>Manufactured in:</b>	Spain
<b>Company:</b>	Becton Dickinson
<b>Address:</b>	1 Becton Drive, Franklin Lakes, NJ 07417 USA MC238
<b>Telephone:</b>	+1 201-847-5149
<b>Email:</b>	<a href="mailto:Chee_Lum@BD.COM">Chee_Lum@BD.COM</a>
<b>Web address:</b>	<a href="http://www.bd.com">http://www.bd.com</a>

**Specifications**

<b>Graduations:</b>	0.2 ml	<b>Needle size:</b>	21G x 40mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger blocked at bottom of barrel	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.1032 m3
<b>Minimum order:</b>	1200	<b>Weight per carton (kg):</b>	12.05 kg
<b>Year base price:</b>	2011	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	Upon request to mfr		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>	100 units per secondary packaging		
<b>Current PQS status:</b>	<b><i>pre-qualified; 25 Jan 2012</i></b>		<b>Valid until : <i>May, 2024</i></b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/073

**Description:** RUP syringe 10ml

**Manufacturer's reference:** RUP 10ml

**Manufactured in:** China; People's Republic of

**Company:** Wuxi Yushou Medical Appliances Co., Ltd  
No.115 Nongxinhe Road  
Xishan District  
Wuxi city  
Jiangsu Province  
China

**Address:**

**Telephone:** +86 (510)3777555

**Email:** [mike@chinasyringe.com](mailto:mike@chinasyringe.com); [helen@chinasyringe.com](mailto:helen@chinasyringe.com)

**Web address:** <http://www.chinasyringe.com>

## Specifications

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	21G x 1 1/2"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Plunger lock and break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.12 m3
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	13 kg
<b>Year base price:</b>	2012	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Upon request to manufacturer		

**Quality standard:** - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 18 Jul 2012*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

**PQS code:** E013/074

**Description:** RUP retractable syringe 1ml

**Manufacturer's reference:** RUP retractable syringe 1ml

**Manufactured in:** China; People's Republic of

**Company:** Anhui Tiankang Medical Technology Co., Ltd  
228, Weiyi Road,  
Economic Development Zone,  
Tianchang City,  
Anhui Province  
China; People's Republic of

**Address:**

**Telephone:** +86 550 7022258

**Email:** [marshall988@163.net](mailto:marshall988@163.net)

**Web address:** <http://www.tkmedical.com>

**Specifications**

<b>Graduations:</b>	0.05ml	<b>Needle size:</b>	27G x 1/2"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger hooked to inner hub, retraction hub and needle, plunger break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	2000	<b>Volume per carton (m3):</b>	0.072 m3
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	10 kg
<b>Year base price:</b>	2012	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Upon request to manufacturer		

**Quality standard:** - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 25 Jun 2012*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

<b>PQS code:</b>	<b>E013/075</b>
<b>Description:</b>	RUP retractable syringe 2ml
<b>Manufacturer's reference:</b>	RUP retractable syringe 2ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Anhui Tiankang Medical Technology Co., Ltd 228, Weiyi Road, Economic Development Zone, Tianchang City, Anhui Province China; People's Republic of
<b>Address:</b>	
<b>Telephone:</b>	+86 550 7022258
<b>Email:</b>	<a href="mailto:marshall988@163.net">marshall988@163.net</a>
<b>Web address:</b>	<a href="http://www.tkmedical.com">http://www.tkmedical.com</a>

**Specifications**

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger hooked to inner syringe hub, retraction inner hub and needle, plunger break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1800	<b>Volume per carton (m3):</b>	0.0927 m3
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	11 kg
<b>Year base price:</b>	2012	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Upon request to manufacturer		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 25 Jun 2012</i>	<b>Valid until :</b>	<i>May, 2024</i>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/076

**Description:** RUP retractable syringe 5ml

**Manufacturer's reference:** RUP retractable syringe 5ml

**Manufactured in:** China; People's Republic of

**Company:** Anhui Tiankang Medical Technology Co., Ltd  
228, Weiyi Road,  
Economic Development Zone,  
Tianchang City,  
Anhui Province  
China; People's Republic of

**Address:**

**Telephone:** +86 550 7022258

**Email:** [marshall988@163.net](mailto:marshall988@163.net)

**Web address:** <http://www.tkmedical.com>

## Specifications

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	22G x 1 1/4"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger hooked in inner hub, hub and needle retraction, plunger break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.075 m3
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	11 kg
<b>Year base price:</b>	2012	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Upon request to manufacturer		

**Quality standard:** - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 25 Jun 2012*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',



**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/077

**Description:** RUP retractable syringe 10ml

**Manufacturer's reference:** RUP retractable syringe 10ml

**Manufactured in:** China; People's Republic of

**Company:** Anhui Tiankang Medical Technology Co., Ltd  
228, Weiyi Road,  
Economic Development Zone,  
Tianchang City,  
Anhui Province  
China; People's Republic of

**Address:**

**Telephone:** +86 550 7022258

**Email:** [marshall988@163.net](mailto:marshall988@163.net)

**Web address:** <http://www.tkmedical.com>

## Specifications

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	21G x 1 1/2"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger hooked to inner hub, hub and needle retraction, plunger break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.075 m3
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	14 kg
<b>Year base price:</b>	2012	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Upon request to manufacturer		

**Quality standard:** - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 25 Jun 2012*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/078

**Description:** RUP syringe 2ml

**Manufacturer's reference:** Neoject Reuse Prevention 2ml

**Manufactured in:** China; People's Republic of

**Company:** Neomedic Limited  
Unit 2  
Leavesden Lodge  
1A Leavesden Road  
Watford  
WD24 5FR  
United Kingdom

**Address:**

**Telephone:** +44 1923 836379

**Email:** [Irina.Proutski@neomedic.co.uk](mailto:Irina.Proutski@neomedic.co.uk),  
[marketing@neomedic.co.uk](mailto:marketing@neomedic.co.uk)

**Web address:** [www.neomedic.co.uk](http://www.neomedic.co.uk)

## Specifications

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger lock and breakage	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1800	<b>Volume per carton (m3):</b>	0.0927m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	11kg
<b>Year base price:</b>	2012	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	0.04708USD per unit		

**Quality standard:** - ISO 9001 - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 29 Jun 2012*

**Valid until :** *May, 2023*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/079

**Description:** RUP syringe 5ml

**Manufacturer's reference:** Neoject Reuse Prevention 5ml

**Manufactured in:** China; People's Republic of

**Company:** Neomedic Limited  
Unit 2  
Leavesden Lodge  
1A Leavesden Road  
Watford  
WD24 5FR  
United Kingdom

**Address:**

**Telephone:** +44 1923 836379

**Email:** [Irina.Proutski@neomedic.co.uk](mailto:Irina.Proutski@neomedic.co.uk),  
[marketing@neomedic.co.uk](mailto:marketing@neomedic.co.uk)

**Web address:** [www.neomedic.co.uk](http://www.neomedic.co.uk)

## Specifications

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	22G x 1 1/4"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger lock and breakage	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.0750 m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	12 kg
<b>Year base price:</b>	2012	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	0.04972USD		

**Quality standard:** - ISO 9001 - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 29 Jun 2012*

**Valid until :** *May, 2023*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

**PQS code:** E013/080

**Description:** RUP syringe 10ml

**Manufacturer's reference:** Neoject Reuse Prevention 10ml

**Manufactured in:** China; People's Republic of

**Company:** Neomedic Limited  
Unit 2  
Leavesden Lodge  
1A Leavesden Road  
Watford  
WD24 5FR  
United Kingdom

**Address:**

**Telephone:** +44 1923 836379

**Email:** [Irina.Proutski@neomedic.co.uk](mailto:Irina.Proutski@neomedic.co.uk),  
[marketing@neomedic.co.uk](mailto:marketing@neomedic.co.uk)

**Web address:** [www.neomedic.co.uk](http://www.neomedic.co.uk)

**Specifications**

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	21G x 1 1/2"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger lock and breakage	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.1208 m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	14 kg
<b>Year base price:</b>	2012	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	0.0678 USD per unit		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		

**Comments:**

**Current PQS status:** *pre-qualified; 29 Jun 2012* **Valid until :** *May, 2023*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

**PQS code:** **E013/083**

**Description:** RUP syringe 3ml

**Manufacturer's reference:** Yeso-med 3ml

**Manufactured in:** China; People's Republic of

**Company:** Wuxi Yushou Medical Appliances Co., Ltd  
No.115 Nongxinhe Road  
Xishan District  
Wuxi city

**Address:** Jiangsu Province  
China

**Telephone:** +86 (510)3777555

**Email:** [mike@chinasyringe.com](mailto:mike@chinasyringe.com); [helen@chinasyringe.com](mailto:helen@chinasyringe.com)

**Web address:** <http://www.chinasyringe.com>

**Specifications**

<b>Graduations:</b>	0.1 ml	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	plunger lock and break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	2400	<b>Volume per carton (m3):</b>	0.11m3
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	12 kg
<b>Year base price:</b>	2012	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Upon request to manufacturer		

**Quality standard:** - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 08 Oct 2012*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/084</b>
<b>Description:</b>	RUP syringe 2ml
<b>Manufacturer's reference:</b>	Apple K1 RUP 2ml
<b>Manufactured in:</b>	Pakistan
<b>Company:</b>	AMSON VACCINES & PHARMA (PVT) LTD. 115, Industrial Triangle, Kahuta road, Islamabad Pakistan
<b>Address:</b>	
<b>Telephone:</b>	+92 51 4492022
<b>Email:</b>	<a href="mailto:naveed@amson.org.pk">naveed@amson.org.pk</a>
<b>Web address:</b>	<a href="http://www.amson.org.pk">www.amson.org.pk</a>

## Specifications

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger lock & break at completion of injection	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.07 m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	8.62 kg
<b>Year base price:</b>	2012	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	On request to manufacturer		
<b>Quality standard:</b>	- ISO 9001 -		

### Comments:

**Current PQS status:** *pre-qualified; 02 Nov 2012* **Valid until :** *May, 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/085</b>
<b>Description:</b>	RUP syringe 5ml
<b>Manufacturer's reference:</b>	Apple K1 RUP 5ml
<b>Manufactured in:</b>	Pakistan
<b>Company:</b>	AMSON VACCINES & PHARMA (PVT) LTD. 115, Industrial Triangle, Kahuta road, Islamabad Pakistan
<b>Address:</b>	
<b>Telephone:</b>	+92 51 4492022
<b>Email:</b>	<a href="mailto:naveed@amson.org.pk">naveed@amson.org.pk</a>
<b>Web address:</b>	<a href="http://www.amson.org.pk">www.amson.org.pk</a>

## Specifications

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger lock at completion of injection	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.09 m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	10.47 kg
<b>Year base price:</b>	2012	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	On request to manufacturer		
<b>Quality standard:</b>	- ISO 9001 -		

### Comments:

**Current PQS status:** *pre-qualified; 02 Nov 2012* **Valid until :** *May, 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

**PQS code:** E013/086

**Description:** RUP syringe 2ml

**Manufacturer's reference:** Yeso-med 2ml

**Manufactured in:** China; People's Republic of

**Company:** Wuxi Yushou Medical Appliances Co., Ltd  
No.115 Nongxinhe Road  
Xishan District  
Wuxi city  
Jiangsu Province  
China

**Address:**

**Telephone:** +86 (510)3777555

**Email:** [mike@chinasyringe.com](mailto:mike@chinasyringe.com); [helen@chinasyringe.com](mailto:helen@chinasyringe.com)

**Web address:** <http://www.chinasyringe.com>

## Specifications

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	23G X 25mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Piston lock upon completion	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	2400	<b>Volume per carton (m3):</b>	0.11m3
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	12kg
<b>Year base price:</b>	2012	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	upon request to manufacturer		

**Quality standard:** - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 17 Dec 2012*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',



**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/087</b>
<b>Description:</b>	RUP syringe 3ml
<b>Manufacturer's reference:</b>	Q-Safe® 2-3ml
<b>Manufactured in:</b>	Qatar
<b>Company:</b>	Qatari German Company for Medical Devices
<b>Address:</b>	P.O.Box 22556 ABU HAMOUR DOHA, STATE OF QATAR
<b>Telephone:</b>	+974 44581201
<b>Email:</b>	<a href="mailto:sales@qgmd.com">sales@qgmd.com</a>
<b>Web address:</b>	<a href="http://www.qgmd.com">www.qgmd.com</a>

## Specifications

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Retraction of needle and plunger break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1000	<b>Volume per carton (m3):</b>	0.08m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	4.2kg
<b>Year base price:</b>	2013	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	0.067USD		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>	This a 3ml device with a unique 2ml graduation 100 units per pack		
<b>Current PQS status:</b>	<b>pre-qualified; 25 Apr 2013</b>		<b>Valid until :</b> <b>May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/088</b>
<b>Description:</b>	RUP syringe 6ml
<b>Manufacturer's reference:</b>	Q-Safe® 5-6ml
<b>Manufactured in:</b>	Qatar
<b>Company:</b>	Qatari German Company for Medical Devices
<b>Address:</b>	P.O.Box 22556 ABU HAMOUR DOHA, STATE OF QATAR
<b>Telephone:</b>	+974 44581201
<b>Email:</b>	<a href="mailto:sales@qgmd.com">sales@qgmd.com</a>
<b>Web address:</b>	<a href="http://www.qgmd.com">www.qgmd.com</a>

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Needle retraction and plunger break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1000	<b>Volume per carton (m3):</b>	0.09m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	6.5kg
<b>Year base price:</b>	2013	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	0.080USD		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>	This a 6ml device with a unique 5ml graduation		
<b>Current PQS status:</b>	<b><i>pre-qualified; 25 Apr 2013</i></b>		<b>Valid until : <i>May, 2024</i></b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/089</b>
<b>Description:</b>	RUP retractable syringe 3ml
<b>Manufacturer's reference:</b>	Haiou RUP retractable safety syringe 3ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Guangdong Haiou Medical Apparatus Co., Ltd
<b>Address:</b>	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China
<b>Telephone:</b>	+86-663-2758666
<b>Email:</b>	<a href="mailto:market01@haiou.net.cn">market01@haiou.net.cn</a>
<b>Web address:</b>	<a href="http://www.haiou.net.cn">http://www.haiou.net.cn</a>

**Specifications**

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	23G x 25mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Plunger lock and needle retraction	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	2400	<b>Volume per carton (m3):</b>	0.118 m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	17kg
<b>Year base price:</b>	2013	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Upon request to manufacturer		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 05 Jun 2013</i>	<b>Valid until :</b>	<i>May, 2024</i>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/090</b>
<b>Description:</b>	RUP retractable 5ml
<b>Manufacturer's reference:</b>	Haiou RUP retractable safety syringe 5ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Guangdong Haiou Medical Apparatus Co., Ltd
<b>Address:</b>	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China
<b>Telephone:</b>	+86-663-2758666
<b>Email:</b>	<a href="mailto:market01@haiou.net.cn">market01@haiou.net.cn</a>
<b>Web address:</b>	<a href="http://www.haiou.net.cn">http://www.haiou.net.cn</a>

**Specifications**

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	21G x 38mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	plunger lock and needle retraction	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1800	<b>Volume per carton (m3):</b>	0.122m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	18kg
<b>Year base price:</b>	2013	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Upon request to manufacturer		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 05 Jun 2013</i>	<b>Valid until :</b>	<i>May, 2024</i>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

<b>PQS code:</b>	<b>E013/091</b>
<b>Description:</b>	RUP retractable 10ml
<b>Manufacturer's reference:</b>	Haiou RUP retractable syringe 10ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Guangdong Haiou Medical Apparatus Co., Ltd
<b>Address:</b>	Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China
<b>Telephone:</b>	+86-663-2758666
<b>Email:</b>	<a href="mailto:market01@haiou.net.cn">market01@haiou.net.cn</a>
<b>Web address:</b>	<a href="http://www.haiou.net.cn">http://www.haiou.net.cn</a>

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Needle size:</b>	21G x 38mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Plunger lock and needle retraction	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.110m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	17kg
<b>Year base price:</b>	2013	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Upon request to manufacturer		
<b>Quality standard:</b>	- ISO 13485 -		

**Comments:**

<b>Current PQS status:</b>	<i>pre-qualified; 05 Jun 2013</i>	<b>Valid until :</b>	<i>May, 2024</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

**PQS code:** E013/092

**Description:** RUP Insulin 1ml

**Manufacturer's reference:** OnejectII RUP insulin 1ml

**Manufactured in:** Indonesia

**Company:** PT Oneject Indonesia  
Sentul Industrial Estate  
Jl.Olympic Raya Kav B9  
Bogor 16810,  
Indonesia

**Address:**

**Telephone:** +62 21 879 17 422

**Email:** [marketing@oneject.co.id](mailto:marketing@oneject.co.id)

**Web address:** [www.oneject.co.id](http://www.oneject.co.id)

## Specifications

<b>Graduations:</b>	0.02ml	<b>Needle size:</b>	27G x 3/8"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Locked / broken plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1600	<b>Volume per carton (m3):</b>	0.051m3
<b>Minimum order:</b>	16000	<b>Weight per carton (kg):</b>	8.23kg
<b>Year base price:</b>	2013	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Upon request to manufacturer		

**Quality standard:** - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 05 Jun 2013*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

**PQS code:** E013/093  
**Description:** RUP syringe 3ml  
**Manufacturer's reference:** OnejectII RUP 3ml  
**Manufactured in:** Indonesia  
**Company:** PT Oneject Indonesia  
Sentul Industrial Estate  
Jl.Olympic Raya Kav B9  
Bogor 16810,  
Indonesia  
**Address:**

**Telephone:** +62 21 879 17 422  
**Email:** [marketing@oneject.co.id](mailto:marketing@oneject.co.id)  
**Web address:** [www.oneject.co.id](http://www.oneject.co.id)

## Specifications

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	23G x 1 ¼"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Locked / broken plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1600	<b>Volume per carton (m3):</b>	0.087m3
<b>Minimum order:</b>	18000	<b>Weight per carton (kg):</b>	12.20kg
<b>Year base price:</b>	2013	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Upon request to manufacturer		

**Quality standard:** - ISO 13485 -

### Comments:

**Current PQS status:** *pre-qualified; 05 Jun 2013*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/096

**Description:** RUP retractable syringe 1ml

**Manufacturer's reference:** Haiou RUP retractable safety syringe 1ml

**Manufactured in:** China; People's Republic of

**Company:** Guangdong Haiou Medical Apparatus Co., Ltd

**Address:** Nanyuan Industrial Zone, North Liusha, Puning City, Guangdong Province, China

**Telephone:** +86-663-2758666

**Email:** [market01@haiou.net.cn](mailto:market01@haiou.net.cn)

**Web address:** <http://www.haiou.net.cn>

## Specifications

<b>Graduations:</b>	0.01ml	<b>Needle size:</b>	29G x 12mm
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Plunger locked to needle hub upon completion of injection and needle retraction into barrel	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	3000	<b>Volume per carton (m3):</b>	0.101m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	16kg
<b>Year base price:</b>	2013	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Upon request		

**Quality standard:** - ISO 13485 -**Comments:****Current PQS status:** *pre-qualified; 10 Jul 2013*Valid until : *May, 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',





PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

**PQS code:** E013/097

**Description:** RUP syringe 2ml

**Manufacturer's reference:** YI XIN RUP 2ml

**Manufactured in:** China; People's Republic of

**Company:** Jiangxi Sanxin Medtec Co.,Ltd  
999 Fushan Road, Xiaolan Economic Development Zone,  
Nanchang, Jiangxi, P.C. 330200  
China; People's Republic of

**Address:**

**Telephone:** +86 791 85988111

**Email:** [sanxin-med@vip.163.com](mailto:sanxin-med@vip.163.com)

**Web address:** [www.sanxin-med.com](http://www.sanxin-med.com)

## Specifications

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	25G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger lock	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1800	<b>Volume per carton (m3):</b>	0.10 - 0.13 m3
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	10 - 12 kg
<b>Year base price:</b>	2013	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	Upon request of manufacturer		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>	Secondary package can also contain 2400 syringes		
<b>Current PQS status:</b>	<i>pre-qualified; 11 Sep 2013</i>		Valid until : <i>May, 2024</i>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

**PQS code:** E013/098

**Description:** RUP syringe 5ml

**Manufacturer's reference:** YI XIN RUP 5ml

**Manufactured in:** China; People's Republic of

**Company:** Jiangxi Sanxin Medtec Co.,Ltd  
999 Fushan Road, Xiaolan Economic Development Zone,  
Nanchang, Jiangxi, P.C. 330200  
China; People's Republic of

**Address:**

**Telephone:** +86 791 85988111

**Email:** [sanxin-med@vip.163.com](mailto:sanxin-med@vip.163.com)

**Web address:** [www.sanxin-med.com](http://www.sanxin-med.com)

## Specifications

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	25G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger lock	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		

<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.10 m3
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	7 kg

<b>Year base price:</b>	2013	<b>Incoterms:</b>	FCA
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<b>Price per unit:</b>	Upon request to manufacturer
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<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -
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### Comments:

<b>Current PQS status:</b>	<i>pre-qualified; 11 Sep 2013</i>	<b>Valid until :</b>	<i>May, 2024</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

**PQS code:** E013/099  
**Description:** RUP syringe 3ml  
**Manufacturer's reference:** Medeco® Inject RUP 3ml  
**Manufactured in:** United Arab Emirates  
**Company:** Abu Dhabi Medical Devices Co. L.L.C  
P.O.Box 30485, Abu Dhabi  
**Address:** United Arab Emirates

**Telephone:** +971-2-6199100

**Email:** [info@admd.ae](mailto:info@admd.ae)

**Web address:** <http://www.admd.ae>

**Specifications**

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	21G x 1 1/2"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Valve in needle hub	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	At start of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I A		
<b>Pieces per carton:</b>	900	<b>Volume per carton (m3):</b>	900pcs 0.074m3, 1,600pcs 0.1m3
<b>Minimum order:</b>	1000000	<b>Weight per carton (kg):</b>	900 pcs 4.2kg, 1,600pcs 11.6kg
<b>Year base price:</b>	2013	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	Upon request to manufacturer		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>	Nominal capacity 2ml, graduations to 3ml Available in two carton sizes 900pcs and 1,600pcs		
<b>Current PQS status:</b>	<b>pre-qualified; 07 Nov 2013</b>		<b>Valid until : May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/100  
**Description:** RUP syringe 5ml  
**Manufacturer's reference:** Medeco® Inject RUP 5ml  
**Manufactured in:** United Arab Emirates  
**Company:** Abu Dhabi Medical Devices Co. L.L.C  
P.O.Box 30485, Abu Dhabi  
**Address:** United Arab Emirates

**Telephone:** +971-2-6199100

**Email:** [info@admd.ae](mailto:info@admd.ae)

**Web address:** <http://www.admd.ae>

## Specifications

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	21G x 1 1/2"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Valve in needle hub	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	At start of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I A		
<b>Pieces per carton:</b>	800	<b>Volume per carton (m3):</b>	800 pcs 0.073m3, 1,800 0.1m3
<b>Minimum order:</b>	1000000	<b>Weight per carton (kg):</b>	800 pcs 4.9kg, 1,800 pcs 16.5kg
<b>Year base price:</b>	2013	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	Upon request to manufacturer		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>	Available in two carton sizes 800pcs and 1800 pcs		
<b>Current PQS status:</b>	<b>pre-qualified; 07 Nov 2013</b>		<b>Valid until : May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## **E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/101

**Description:** RUP retractable 1ml

**Manufacturer's reference:** Yixin retractable 1ml

**Manufactured in:** China; People's Republic of

**Company:** Jiangxi Sanxin Medtec Co.,Ltd  
999 Fushan Road, Xiaolan Economic Development Zone,  
Nanchang, Jiangxi, P.C. 330200  
China; People's Republic of

**Address:**

**Telephone:** +86 791 85988111

**Email:** [sanxin-med@vip.163.com](mailto:sanxin-med@vip.163.com)

**Web address:** [www.sanxin-med.com](http://www.sanxin-med.com)

## Specifications

<b>Graduations:</b>	0.02ml	<b>Needle size:</b>	29G x 1/2"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Needle retraction into barrel	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		

**Pieces per carton:** 3000

**Volume per carton (m3):** 0.11m3

**Minimum order:** 100000

**Weight per carton (kg):** 15.5 kg

**Year base price:** 2013

**Incoterms:** FCA

**Price per unit:** Upon request to manufacturer

**Quality standard:** - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 03 Dec 2013*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/102</b>
<b>Description:</b>	RUP retractable 3ml
<b>Manufacturer's reference:</b>	Yixin retractable 3ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Jiangxi Sanxin Medtec Co.,Ltd 999 Fushan Road, Xiaolan Economic Development Zone, Nanchang, Jiangxi, P.C. 330200 China; People's Republic of
<b>Address:</b>	
<b>Telephone:</b>	+86 791 85988111
<b>Email:</b>	<a href="mailto:sanxin-med@vip.163.com">sanxin-med@vip.163.com</a>
<b>Web address:</b>	<a href="http://www.sanxin-med.com">www.sanxin-med.com</a>

## Specifications

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	25G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Needle retraction into barrel	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	2400	<b>Volume per carton (m3):</b>	0.15m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	17 kg
<b>Year base price:</b>	2013	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	Upon request to manufacturer		
<b>Quality standard:</b>	- ISO 13485 -		

### Comments:

**Current PQS status:** *pre-qualified; 03 Dec 2013* **Valid until :** *May, 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## **E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** **E013/103**

**Description:** RUP retractable 5ml

**Manufacturer's reference:** YIXIN® retractable 5ml

**Manufactured in:** China; People's Republic of

**Company:** Jiangxi Sanxin Medtec Co.,Ltd  
999 Fushan Road, Xiaolan Economic Development Zone,  
Nanchang, Jiangxi, P.C. 330200  
China; People's Republic of

**Address:**

**Telephone:** +86 791 85988111

**Email:** [sanxin-med@vip.163.com](mailto:sanxin-med@vip.163.com)

**Web address:** [www.sanxin-med.com](http://www.sanxin-med.com)

## Specifications

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Needle retraction into barrel	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.09m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	14kg
<b>Year base price:</b>	23013	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	Upon request to manufacturer		
<b>Quality standard:</b>	- ISO 13485 -		

### Comments:

**Current PQS status:** *pre-qualified; 03 Dec 2013* **Valid until :** *May, 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/105

**Description:** RUP 2mL

**Manufacturer's reference:** RUP syringe 2mL

**Manufactured in:** China; People's Republic of

**Company:** Sanavita Pharmaceuticals GMBH  
Spaldingstr. 110B  
D- 20097  
Hamburg  
Germany

**Address:**

**Telephone:** +49 40 730 8853-0

**Email:** [info@sanavita.net](mailto:info@sanavita.net), [pin.kiehl@sanavita.net](mailto:pin.kiehl@sanavita.net),  
[guenter.kunde@sanavita.net](mailto:guenter.kunde@sanavita.net)

**Web address:** [www.sanavita.net](http://www.sanavita.net)

## Specifications

<b>Graduations:</b>	0.2 mL	<b>Needle size:</b>	21Gx1 ½" (38mm)
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Plunger lock	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		

<b>Pieces per carton:</b>	3000	<b>Volume per carton (m3):</b>	0.127m3
<b>Minimum order:</b>	3000	<b>Weight per carton (kg):</b>	13kg

<b>Year base price:</b>	2016	<b>Incoterms:</b>	FCA
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<b>Price per unit:</b>	Upon request to manufacturer
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<b>Quality standard:</b>	- ISO 13485 -
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**Comments:**

<b>Current PQS status:</b>	<i>pre-qualified; 01 Jul 2015</i>	<b>Valid until :</b>	<i>May, 2024</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn',





PERFORMANCE QUALITY SAFETY

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/106

**Description:** RUP 5mL

**Manufacturer's reference:** RUP syringe 5mL

**Manufactured in:** China; People's Republic of

**Company:** Sanavita Pharmaceuticals GMBH  
Spaldingstr. 110B  
D- 20097  
Hamburg  
Germany

**Address:**

**Telephone:** +49 40 730 8853-0

**Email:** [info@sanavita.net](mailto:info@sanavita.net), [pelin.kiehl@sanavita.net](mailto:pelin.kiehl@sanavita.net),  
[guenter.kunde@sanavita.net](mailto:guenter.kunde@sanavita.net)

**Web address:** [www.sanavita.net](http://www.sanavita.net)

**Specifications**

<b>Graduations:</b>	0.2mL	<b>Needle size:</b>	21Gx1 ½" (38mm)
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Plunger lock	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1800	<b>Volume per carton (m3):</b>	0.137m3
<b>Minimum order:</b>	1800	<b>Weight per carton (kg):</b>	13kg
<b>Year base price:</b>	2016	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	Upon request to manufacturer		

**Quality standard:** - ISO 13485 -**Comments:****Current PQS status:** *pre-qualified; 01 Jul 2015***Valid until :** *May, 2024***Note:** If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

**PQS code:** E013/108

**Description:** RUP Syringe 2 mL

**Manufacturer's reference:** Oneject II RUP Syringe 2 mL

**Manufactured in:** Indonesia

**Company:** PT Oneject Indonesia  
Sentul Industrial Estate  
Jl.Olympic Raya Kav B9  
Bogor 16810,  
Indonesia

**Address:**

**Telephone:** +62 21 879 17 422

**Email:** [marketing@oneject.co.id](mailto:marketing@oneject.co.id)

**Web address:** [www.oneject.co.id](http://www.oneject.co.id)

## Specifications

<b>Graduations:</b>	0.1 mL	<b>Needle size:</b>	23G x 1 ¼"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Locked / broken plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1600	<b>Volume per carton (m3):</b>	0.09 m3
<b>Minimum order:</b>	1600	<b>Weight per carton (kg):</b>	10.6 Kg
<b>Year base price:</b>	2015	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Upon request to manufacturer		
<b>Quality standard:</b>	- ----- - ISO 9001 - ISO 13485 -		

### Comments:

**Current PQS status:** *pre-qualified; 21 Sep 2015* **Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

**PQS code:** E013/109

**Description:** RUP syringe 5 mL

**Manufacturer's reference:** Oneject II RUP Syringe 5 mL

**Manufactured in:** Indonesia

**Company:** PT Oneject Indonesia  
Sentul Industrial Estate  
Jl.Olympic Raya Kav B9  
Bogor 16810,  
Indonesia

**Address:**

**Telephone:** +62 21 879 17 422

**Email:** [marketing@oneject.co.id](mailto:marketing@oneject.co.id)

**Web address:** [www.oneject.co.id](http://www.oneject.co.id)

## Specifications

<b>Graduations:</b>	0.1 mL	<b>Needle size:</b>	21G x 1 ½"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Locked / broken plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.08 m3
<b>Minimum order:</b>	1200	<b>Weight per carton (kg):</b>	12 Kg
<b>Year base price:</b>	2015	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Upon request to manufacturer		
<b>Quality standard:</b>	- ----- - ISO 9001 - ISO 13485 -		

### Comments:

**Current PQS status:** *pre-qualified; 21 Sep 2015* **Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

<b>PQS code:</b>	<b>E013/110</b>
<b>Description:</b>	RUP 1ml
<b>Manufacturer's reference:</b>	SKIFA RUP 1ml
<b>Manufactured in:</b>	Indonesia
<b>Company:</b>	Mitra Rajawali Banjaran, PT JL. Raya Banjaran KM16 Bandung, Jawa Barat Indonesia
<b>Address:</b>	
<b>Telephone:</b>	+62 22 594 0151
<b>Email:</b>	<a href="mailto:mrb.sekre@gmail.com">mrb.sekre@gmail.com</a> , <a href="mailto:restijuliawati@yahoo.com">restijuliawati@yahoo.com</a> , <a href="mailto:irmayuliarachmat@gmail.com">irmayuliarachmat@gmail.com</a>
<b>Web address:</b>	<a href="http://www.mrb.co.id">http://www.mrb.co.id</a>

**Specifications**

<b>Graduations:</b>	0.05mL	<b>Needle size:</b>	26G x ½ “
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Hooked to hub at end of injection	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	100	<b>Volume per carton (m3):</b>	0.142m3
<b>Minimum order:</b>	10000	<b>Weight per carton (kg):</b>	11.88kg
<b>Year base price:</b>	2015	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	24cts		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 07 May 2015</i>		Valid until : <i>May, 2024</i>
Note: If Current PQS status is 'Suspended' or 'Withdrawn',			

**E013: Hypodermic syringes with reuse prevention feature**

<b>PQS code:</b>	<b>E013/111</b>
<b>Description:</b>	RUP 5ml
<b>Manufacturer's reference:</b>	SKIFA RUP 5ml
<b>Manufactured in:</b>	Indonesia
<b>Company:</b>	Mitra Rajawali Banjaran, PT
<b>Address:</b>	JL. Raya Banjaran KM16 Bandung, Jawa Barat Indonesia
<b>Telephone:</b>	+62 22 594 0151
<b>Email:</b>	<a href="mailto:mrb.sekre@gmail.com">mrb.sekre@gmail.com</a> , <a href="mailto:restijuliawati@yahoo.com">restijuliawati@yahoo.com</a> , <a href="mailto:irmayuliarachmat@gmail.com">irmayuliarachmat@gmail.com</a>
<b>Web address:</b>	<a href="http://www.mrb.co.id">http://www.mrb.co.id</a>

**Specifications**

<b>Graduations:</b>	0.2mL	<b>Needle size:</b>	22G x 1 1/2"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Hooked in hub at end of injection	<b>Primary packaging:</b>	Plastic ribbon
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	No
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	100	<b>Volume per carton (m3):</b>	0.710 m3
<b>Minimum order:</b>	10000	<b>Weight per carton (kg):</b>	14.02kg
<b>Year base price:</b>	2015	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	28 cts		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 07 May 2015</i>		Valid until : <i>May, 2024</i>
Note: If Current PQS status is 'Suspended' or 'Withdrawn',			

**E013: Hypodermic syringes with reuse prevention feature**

**PQS code:** E013/112

**Description:** RUP Syringe 10ml

**Manufacturer's reference:** 10 ml Alshifa RUP Syringe

**Manufactured in:** Saudi Arabia

**Company:** Al Shifa Medical Syringe MFG.Co.  
1st Industrial City P.O. Box 7917  
Dammam 31472  
Saudi Arabia

**Address:** Dammam 31472  
Saudi Arabia

**Telephone:** +966138474284

**Email:** [info@alshifa.com](mailto:info@alshifa.com)

**Web address:** [www.alshifa.com](http://www.alshifa.com)

**Specifications**

<b>Graduations:</b>	1ml	<b>Needle size:</b>	21G x 1.5" (0.80 x 38mm)
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Plunger Lock & Break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	450	<b>Volume per carton (m3):</b>	0.061 m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	7.522 kg
<b>Year base price:</b>	2016	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	0.0516 USD per unit		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	Pack of 50 units. Other needle sizes available upon request		
<b>Current PQS status:</b>	<b>pre-qualified; 04 Oct 2016</b>		<b>Valid until : May, 2022</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

**PQS code:** E013/113  
**Description:** RUP Syringe 5ml  
**Manufacturer's reference:** 5 ml Alshifa RUP Syringe  
**Manufactured in:** Saudi Arabia  
**Company:** Al Shifa Medical Syringe MFG.Co.  
1st Industrial City P.O. Box 7917  
Dammam 31472  
Saudi Arabia  
**Address:**  
**Telephone:** +966138474284  
**Email:** [info@alshifa.com](mailto:info@alshifa.com)  
**Web address:** [www.alshifa.com](http://www.alshifa.com)

## Specifications

<b>Graduations:</b>	0.5 ml	<b>Needle size:</b>	23G x1"(0.60 x 25.4mm)
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Plunger Lock & Break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	800	<b>Volume per carton (m3):</b>	0.073 m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	8.696 kg
<b>Year base price:</b>	2016	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	0.0415 USD per unit		
<b>Quality standard:</b>	- ----- - ISO 13485 -		
<b>Comments:</b>	Pack of 100 units. Other needle sizes available upon request		
<b>Current PQS status:</b>	<b>pre-qualified; 04 Oct 2016</b>		<b>Valid until : May, 2022</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY

**E013: Hypodermic syringes with reuse prevention feature**

**PQS code:** E013/114

**Description:** RUP Syringe 3ml

**Manufacturer's reference:** 3 ml Alshifa RUP Syringe

**Manufactured in:** Saudi Arabia

**Company:** Al Shifa Medical Syringe MFG.Co.  
1st Industrial City P.O. Box 7917  
Dammam 31472  
Saudi Arabia

**Address:**

**Telephone:** +966138474284

**Email:** [info@alshifa.com](mailto:info@alshifa.com)

**Web address:** [www.alshifa.com](http://www.alshifa.com)

**Specifications**

<b>Graduations:</b>	0.1 ml	<b>Needle size:</b>	23G x1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Plunger Lock & Break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.061 m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	8.02 kg
<b>Year base price:</b>	2016	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	0.0395 USD per unit		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	Pack of 100 units. Other needle sizes available upon request		
<b>Current PQS status:</b>	<b>pre-qualified; 04 Oct 2016</b>		<b>Valid until : May, 2022</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',





PERFORMANCE QUALITY SAFETY



## E013: Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/115</b>
<b>Description:</b>	RUP Syringe 3ml
<b>Manufacturer's reference:</b>	Smooth Inject Re-Use Prevention Syringe 3ml
<b>Manufactured in:</b>	Egypt
<b>Company:</b>	International Company for Medical Necessities Industrial Zone Block No. 19&67 Abu Tig Assuit Egypt
<b>Address:</b>	
<b>Telephone:</b>	+2 (088) 49 50200 - 202 - 250
<b>Email:</b>	<a href="mailto:mak@medical-ico.com">mak@medical-ico.com</a>
<b>Web address:</b>	<a href="http://www.medical-ico.com">www.medical-ico.com</a> & <a href="mailto:aak@medical-ico.com">aak@medical-ico.com</a>

## Specifications

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	23G x 1 1/4
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Locking plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I A		
<b>Pieces per carton:</b>	2200	<b>Volume per carton (m3):</b>	0.08419 M3
<b>Minimum order:</b>	500000	<b>Weight per carton (kg):</b>	11.55 kg
<b>Year base price:</b>	2019	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	100,000 US\$ 0.028	1m US\$ 0.027	10m US\$ 0.025
<b>Quality standard:</b>	- ----- - ISO 13485 -		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 13 Nov 2017</i>		Valid until : <i>May, 2024</i>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

<b>PQS code:</b>	<b>E013/116</b>
<b>Description:</b>	RUP Syringe 5ml
<b>Manufacturer's reference:</b>	Smooth Inject Re-Use Prevention Syringe 5ml
<b>Manufactured in:</b>	Egypt
<b>Company:</b>	International Company for Medical Necessities Industrial Zone Block No. 19&67 Abu Tig Assuit Egypt
<b>Address:</b>	
<b>Telephone:</b>	+2 (088) 49 50200 - 202 - 250
<b>Email:</b>	<a href="mailto:mak@medical-ico.com">mak@medical-ico.com</a>
<b>Web address:</b>	<a href="http://www.medical-ico.com">www.medical-ico.com</a> & <a href="mailto:aak@medical-ico.com">aak@medical-ico.com</a>

**Specifications**

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	22 G x 1.1/4"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Locked plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I A		
<b>Pieces per carton:</b>	2000	<b>Volume per carton (m3):</b>	0.084m3
<b>Minimum order:</b>	500000	<b>Weight per carton (kg):</b>	13.20 kg
<b>Year base price:</b>	2019	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	100,000 US\$ 0.033	1m US\$ 0.032	10m US\$ 0.031
<b>Quality standard:</b>	- ----- - ISO 13485 -		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 13 Nov 2017</i>		Valid until : <i>May, 2024</i>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/117</b>
<b>Description:</b>	RUP Syringe 10ml
<b>Manufacturer's reference:</b>	Smooth Inject Re-Use Prevention Syringe 10ml
<b>Manufactured in:</b>	
<b>Company:</b>	International Company for Medical Necessities Industrial Zone Block No. 19&67 Abu Tig Assuit Egypt
<b>Address:</b>	
<b>Telephone:</b>	+2 (088) 49 50200 - 202 - 250
<b>Email:</b>	<a href="mailto:mak@medical-ico.com">mak@medical-ico.com</a>
<b>Web address:</b>	<a href="http://www.medical-ico.com">www.medical-ico.com</a> & <a href="mailto:aak@medical-ico.com">aak@medical-ico.com</a>

## Specifications

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	21 G x 1.1/4"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Locked plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I A		
<b>Pieces per carton:</b>	1000	<b>Volume per carton (m3):</b>	0.084m3
<b>Minimum order:</b>	500000	<b>Weight per carton (kg):</b>	10.00kg
<b>Year base price:</b>	2019	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	100,000 US\$ 0.037	1m US\$ 0.036	10m US\$ 0.035
<b>Quality standard:</b>	- - - - -		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 13 Nov 2017</i>		Valid until : <i>May, 2024</i>
Note: If Current PQS status is 'Suspended' or 'Withdrawn',			

**E013: Hypodermic syringes with reuse prevention feature**

<b>PQS code:</b>	<b>E013/118</b>
<b>Description:</b>	RUP Syringe 2ml
<b>Manufacturer's reference:</b>	RG-Non reusable syringe 2ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Royal Group
<b>Address:</b>	ONB-E/2, Mehar Sons Estate, Talpur Road, Karachi-74000, Pakistan
<b>Telephone:</b>	+92-21-32400270 Ext. 232; +92-21-32470301
<b>Email:</b>	<a href="mailto:royalgroup pak@gmail.com">royalgroup pak@gmail.com</a> , <a href="mailto:noman.khan@royalgroupweb.com">noman.khan@royalgroupweb.com</a> <a href="mailto:info@royalgroupweb.com">info@royalgroupweb.com</a>
<b>Web address:</b>	<a href="http://www.royalgroupweb.com">http://www.royalgroupweb.com</a>

**Specifications**

<b>Graduations:</b>	0.5 ml	<b>Needle size:</b>	23Gx1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger lock and break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type II A		
<b>Pieces per carton:</b>	2000	<b>Volume per carton (m3):</b>	0.90447
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	12.78
<b>Year base price:</b>	2018	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	Upon request to manufacturer		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	Sole distributor of RG brand Non Reusable Syringe for Changzhou Tongda Medical Appliance Co.,Ltd. Sanhekou Street, Zhenglu Town, Tianning District, Changzhou, Jiangsu, China.		
<b>Current PQS status:</b>	<b>pre-qualified; 14 Aug 2018</b>		<b>Valid until : May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

<b>PQS code:</b>	<b>E013/119</b>
<b>Description:</b>	RUP Syringe 10ml
<b>Manufacturer's reference:</b>	RG-Non reusable syringe 10ml
<b>Manufactured in:</b>	
<b>Company:</b>	Royal Group
<b>Address:</b>	ONB-E/2, Mehar Sons Estate, Talpur Road, Karachi-74000, Pakistan
<b>Telephone:</b>	+92-21-32400270 Ext. 232; +92-21-32470301
<b>Email:</b>	<a href="mailto:royalgroup@pakistan.gov.pk">royalgroup@pakistan.gov.pk</a> , <a href="mailto:noman.khan@royalgroupweb.com">noman.khan@royalgroupweb.com</a> <a href="mailto:info@royalgroupweb.com">info@royalgroupweb.com</a>
<b>Web address:</b>	<a href="http://www.royalgroupweb.com">http://www.royalgroupweb.com</a>

**Specifications**

<b>Graduations:</b>		<b>Needle size:</b>	21G x 1 ½"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Plunger lock and break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type II A		
<b>Pieces per carton:</b>	1600	<b>Volume per carton (m3):</b>	0.139776
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	18.94
<b>Year base price:</b>	2018	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	On request to manufacturer		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	Sole distributor of RG brand Non Reusable Syringe for Changzhou Tongda Medical Appliance Co.,Ltd. Sanhekou Street, Zhenglu Town, Tianning District, Changzhou, Jiangsu, China.		
<b>Current PQS status:</b>	<b>pre-qualified; 14 Aug 2018</b>		<b>Valid until : May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



PERFORMANCE QUALITY SAFETY

**E013: Hypodermic syringes with reuse prevention feature**

**PQS code:** E013/120

**Description:** 1ml RUP syringe

**Manufacturer's reference:** Hongda 1ml RUP syringe

**Manufactured in:** China; People's Republic of

**Company:** Jiangxi Hongda Medical Equipment Group Ltd  
39 South Shengi Road  
Jinxian county, Nanchang City  
Jiangxi province  
China; People's Republic of

**Address:**

**Telephone:** +86 791 85628828

**Email:** [hongda008@jxhd.cn](mailto:hongda008@jxhd.cn)

**Web address:** <http://www.jxhd.cn>

**Specifications**

<b>Graduations:</b>	0.02	<b>Needle size:</b>	26G 5/8"
<b>Syringe material(s):</b>		<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Gasket locked/broken plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1500	<b>Volume per carton (m3):</b>	0.0979 m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	19
<b>Year base price:</b>	2017	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	price on request		
<b>Quality standard:</b>	- ----- - ISO 13485 -		
<b>Comments:</b>	Pieces per carton: 1500 or other Incoterms: FOB or other		
<b>Current PQS status:</b>	<b>pre-qualified; 12 Oct 2018</b>		<b>Valid until : May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

**PQS code:** E013/121

**Description:** 10ml RUP syringe

**Manufacturer's reference:** Hongda 10ml RUP syringe

**Manufactured in:** China; People's Republic of

**Company:** Jiangxi Hongda Medical Equipment Group Ltd  
39 South Shengi Road  
Jinxian county, Nanchang City  
Jiangxi province  
China; People's Republic of

**Address:**

**Telephone:** +86 791 85628828

**Email:** [hongda008@jxhd.cn](mailto:hongda008@jxhd.cn)

**Web address:** <http://www.jxhd.cn>

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Needle size:</b>	21G x 1 ½"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	locked gasket/plunger break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		

<b>Pieces per carton:</b>	1500	<b>Volume per carton (m3):</b>	0.102m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	16kg

<b>Year base price:</b>	2017	<b>Incoterms:</b>	FOB
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**Price per unit:** price on request

**Quality standard:** - ----- - ISO 13485 -

**Comments:** Incoterms: FOB or other  
Needle at side available  
Pieces per carton: 1500 or 1200

**Current PQS status:** *pre-qualified; 12 Oct 2018* **Valid until :** *May, 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

**PQS code:** E013/122

**Description:** 2ml RUP 23X1 syringe

**Manufacturer's reference:** 2ml LS RUP 23X1 AN Bawal

**Manufactured in:** India

**Company:** Becton Dickinson

**Address:** 1 Becton Drive, Franklin Lakes, NJ 07417 USA MC238

**Telephone:** +1 201-847-5149

**Email:** [Chee\\_Lum@BD.COM](mailto:Chee_Lum@BD.COM)

**Web address:** <http://www.bd.com>

**Specifications**

<b>Graduations:</b>	0.1	<b>Needle size:</b>	24x1
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	locked and breaking plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		

**Pieces per carton:** 2400

**Minimum order:** 48000

**Volume per carton (m3):**

**Weight per carton (kg):**

**Year base price:** 2019

**Price per unit:** price on request

**Incoterms:** FCA

**Quality standard:** - ISO 9001 - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 16 May 2019*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',



**E013: Hypodermic syringes with reuse prevention feature**

**PQS code:** E013/124

**Description:** RUP 3ml syringe

**Manufacturer's reference:** Honga RUP 3ml syringe

**Manufactured in:** China; People's Republic of

**Company:** Jiangxi Hongda Medical Equipment Group Ltd  
39 South Shengi Road  
Jinxian county, Nanchang City  
Jiangxi province  
China; People's Republic of

**Address:**

**Telephone:** +86 791 85628828

**Email:** [hongda008@jxhd.cn](mailto:hongda008@jxhd.cn)

**Web address:** <http://www.jxhd.cn>

**Specifications**

<b>Graduations:</b>	0.1 ml	<b>Needle size:</b>	23G x 1 ¼"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Gasket lock/plunger break	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1500	<b>Volume per carton (m3):</b>	0.0979 m3
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	19
<b>Year base price:</b>	2017	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	price on request		
<b>Quality standard:</b>	- ----- - ISO 13485 -		
<b>Comments:</b>	Incoterms: FOB or other Needle at side available Pieces per carton:2000 or 2400		
<b>Current PQS status:</b>	<b>pre-qualified; 12 Oct 2018</b>		<b>Valid until :</b> <b>May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

**PQS code:** E013/125  
**Description:** 3ml RUP 23X1  
**Manufacturer's reference:** 3ml LS RUP 23X1 AN Bawal  
**Manufactured in:** India  
**Company:** Becton Dickinson  
**Address:** 1 Becton Drive, Franklin Lakes, NJ 07417 USA MC238  
**Telephone:** +1 201-847-5149  
**Email:** [Chee\\_Lum@BD.COM](mailto:Chee_Lum@BD.COM)  
**Web address:** <http://www.bd.com>

**Specifications**

<b>Graduations:</b>	0.1ml	<b>Needle size:</b>	23x1
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Blocking and breaking plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		

<b>Pieces per carton:</b>	2400	<b>Volume per carton (m3):</b>	0.120m3
<b>Minimum order:</b>	48000	<b>Weight per carton (kg):</b>	13.8

<b>Year base price:</b>	2019	<b>Incoterms:</b>	FCA
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<b>Price per unit:</b>	price on request
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<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -
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**Comments:**

<b>Current PQS status:</b>	<i>pre-qualified; 16 May 2019</i>	<b>Valid until :</b>	<i>May, 2024</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

<b>PQS code:</b>	<b>E013/126</b>
<b>Description:</b>	BD Syringe 5ml LS RUP 24X1 AN Bawal
<b>Manufacturer's reference:</b>	5ml LS RUP 24X1 AN Bawal
<b>Manufactured in:</b>	India
<b>Company:</b>	Becton Dickinson
<b>Address:</b>	1 Becton Drive, Franklin Lakes, NJ 07417 USA MC238
<b>Telephone:</b>	+1 201-847-5149
<b>Email:</b>	<a href="mailto:Chee_Lum@BD.COM">Chee_Lum@BD.COM</a>
<b>Web address:</b>	<a href="http://www.bd.com">http://www.bd.com</a>

**Specifications**

<b>Graduations:</b>	0.2 mL	<b>Needle size:</b>	24x1
<b>Syringe material(s):</b>		<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Locking and breaking plunger	<b>Primary packaging:</b>	Plastic ribbon
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1600	<b>Volume per carton (m3):</b>	0.118
<b>Minimum order:</b>	32000	<b>Weight per carton (kg):</b>	11.4
<b>Year base price:</b>	2019	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	price on request		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 16 May 2019</i>		Valid until : <i>May, 2024</i>
Note: If Current PQS status is 'Suspended' or 'Withdrawn',			

**E013: Hypodermic syringes with reuse prevention feature**

**PQS code:** E013/127

**Description:** BD 10ml RUP 21X1

**Manufacturer's reference:** Syringe 10ml LS RUP 21X1 AN Bawal

**Manufactured in:** India

**Company:** Becton Dickinson

**Address:** 1 Becton Drive, Franklin Lakes, NJ 07417 USA MC238

**Telephone:** +1 201-847-5149

**Email:** [Chee\\_Lum@BD.COM](mailto:Chee_Lum@BD.COM)

**Web address:** <http://www.bd.com>

**Specifications**

<b>Graduations:</b>	0.2ml	<b>Needle size:</b>	21X1
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	Locking and breaking plunger	<b>Primary packaging:</b>	Plastic ribbon
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1200	<b>Volume per carton (m3):</b>	0.1358
<b>Minimum order:</b>	24000	<b>Weight per carton (kg):</b>	13.8
<b>Year base price:</b>	2019	<b>Incoterms:</b>	FCA
<b>Price per unit:</b>	price on request		
<b>Quality standard:</b>	- ISO 9001 - ISO 13485 -		
<b>Comments:</b>			
<b>Current PQS status:</b>	<i>pre-qualified; 16 May 2019</i>		Valid until : <i>May, 2024</i>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

**PQS code:** E013/128

**Description:** RUP syringe 1ml

**Manufacturer's reference:** SHIFA syringe 1ml

**Manufactured in:** China; People's Republic of

**Company:** Changzhou Tongda Medical Appliance Co., Ltd  
Sanhekou Street  
Zhenglu Town  
Tianning District  
Changzhou, Jiangsu  
China; People's Republic of

**Address:**

**Telephone:** +86 51988670522

**Email:** [info@tongdamedical.com](mailto:info@tongdamedical.com)

**Web address:** <http://www.tongdachina.com.cn>

**Specifications**

<b>Graduations:</b>	0.1 ml	<b>Needle size:</b>	26Gx5/8"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	locked & broken plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		

<b>Pieces per carton:</b>	2000	<b>Volume per carton (m3):</b>	0.090447
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	12.78

<b>Year base price:</b>	2020	<b>Incoterms:</b>	FOB
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**Price per unit:** price on request

**Quality standard:** - ISO 13485 -

**Comments:** Incoterms: FOB or other, other needle sizes available, Needle at side available, Pieces per carton: 2000 or 2400

**Current PQS status:** *pre-qualified; 20 Oct 2020* Valid until : *May, 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

<b>PQS code:</b>	<b>E013/129</b>
<b>Description:</b>	RUP syringe 3ml
<b>Manufacturer's reference:</b>	SHIFA syringe 3ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Changzhou Tongda Medical Appliance Co., Ltd Sanhekou Street Zhenglu Town Tianning District Changzhou, Jiangsu China; People's Republic of
<b>Address:</b>	
<b>Telephone:</b>	+86 51988670522
<b>Email:</b>	<a href="mailto:info@tongdamedical.com">info@tongdamedical.com</a>
<b>Web address:</b>	<a href="http://www.tongdachina.com.cn">http://www.tongdachina.com.cn</a>

**Specifications**

<b>Graduations:</b>	0.1 ml	<b>Needle size:</b>	24Gx1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	locked and broken plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	2000	<b>Volume per carton (m3):</b>	0.090447
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	12.78
<b>Year base price:</b>	2020	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	price on request		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	Incoterms: FOB or other, Needle at side available, Pieces per carton:2000 or 2400		
<b>Current PQS status:</b>	<b>pre-qualified; 20 Oct 2020</b>		<b>Valid until : May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

<b>PQS code:</b>	<b>E013/130</b>
<b>Description:</b>	RUP syringe 5ml
<b>Manufacturer's reference:</b>	SHIFA syringe 5ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Changzhou Tongda Medical Appliance Co., Ltd Sanhekou Street Zhenglu Town Tianning District Changzhou, Jiangsu China; People's Republic of
<b>Address:</b>	
<b>Telephone:</b>	+86 51988670522
<b>Email:</b>	<a href="mailto:info@tongdamedical.com">info@tongdamedical.com</a>
<b>Web address:</b>	<a href="http://www.tongdachina.com.cn">http://www.tongdachina.com.cn</a>

**Specifications**

<b>Graduations:</b>	0.2 ml	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	locked and broken plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1600	<b>Volume per carton (m3):</b>	0.10212
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	13.7
<b>Year base price:</b>	2020	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	price on request		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	Incoterms: FOB or other, Needle at side available, Pieces per carton:1600 or 2000		
<b>Current PQS status:</b>	<b><i>pre-qualified; 20 Oct 2020</i></b>		<b>Valid until : <i>May, 2024</i></b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

<b>PQS code:</b>	<b>E013/131</b>
<b>Description:</b>	RUP syringe 10ml
<b>Manufacturer's reference:</b>	SHIFA syringe 10ml
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Changzhou Tongda Medical Appliance Co., Ltd Sanhekou Street Zhenglu Town Tianning District Changzhou, Jiangsu China; People's Republic of
<b>Address:</b>	
<b>Telephone:</b>	+86 51988670522
<b>Email:</b>	<a href="mailto:info@tongdamedical.com">info@tongdamedical.com</a>
<b>Web address:</b>	<a href="http://www.tongdachina.com.cn">http://www.tongdachina.com.cn</a>

**Specifications**

<b>Graduations:</b>	0.5ml	<b>Needle size:</b>	22Gx1 1/4"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>	locked and broken plunger	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1600	<b>Volume per carton (m3):</b>	0.139776
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	18.94
<b>Year base price:</b>	2020	<b>Incoterms:</b>	FOB
<b>Price per unit:</b>	price on request		
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	Incoterms: FOB or other, Needle at side available, Pieces per carton:1600 or 1200		
<b>Current PQS status:</b>	<b><i>pre-qualified; 20 Oct 2020</i></b>		<b>Valid until : <i>May, 2024</i></b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',



**E013:** Hypodermic syringes with reuse prevention feature**PQS code:** E013/132**Description:** 1mL RUP syringe**Manufacturer's reference:** Gemtier 1mL RUP syringe**Manufactured in:** China; People's Republic of**Company:** Gemtier Medical (Shanghai) Inc

No.18 Jianding Road

Fengjing Town

Jinshan District

**Address:** Shanghai

201502

People Republic of China

**Telephone:** +86 180 1713 3867**Email:** [lenny.cao@gemtier.com](mailto:lenny.cao@gemtier.com), [sales@gemtier.com](mailto:sales@gemtier.com)**Web address:** <http://www.gemtier.com/>**Specifications**

Graduations:	0.01ml	Needle size:	25G x 1"
Syringe material(s):		Other needle options:	Yes
Number of components:	3 pieces	Needle fixation:	Fixed
RUP mechanism:		Primary packaging:	Paper blister pack
RUP location:	Upon completion of injection	CE mark:	Yes
RUP type:	Type II B		
Pieces per carton:	1800	Volume per carton (m3):	0.123
Minimum order:	100800	Weight per carton (kg):	15
Year base price:	2021	Incoterms:	FOB
Price per unit:	USD 0.073/pc	USD 0.070/pc	USD 0.069/pc
Quality standard:	- ISO 13485 -		
Comments:			
Current PQS status:	pre-qualified; 13 Dec 2021		Valid until : May, 2023

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/133</b>
<b>Description:</b>	3mL RUP
<b>Manufacturer's reference:</b>	3mL RUP
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Wuxi Yushou Medical Appliances Co., Ltd No.115 Nongxinhe Road Xishan District Wuxi city
<b>Address:</b>	Jiangsu Province China
<b>Telephone:</b>	+86 (510)3777555
<b>Email:</b>	<a href="mailto:mike@chinasyringe.com">mike@chinasyringe.com</a> ; <a href="mailto:helen@chinasyringe.com">helen@chinasyringe.com</a>
<b>Web address:</b>	<a href="http://www.chinasyringe.com">http://www.chinasyringe.com</a>

## Specifications

<b>Graduations:</b>	0.2mL	<b>Needle size:</b>	24Gx1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Detachable
<b>RUP mechanism:</b>		<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I A		
<b>Pieces per carton:</b>	2400	<b>Volume per carton (m3):</b>	0.12
<b>Minimum order:</b>	200000	<b>Weight per carton (kg):</b>	12
<b>Year base price:</b>	2021	<b>Incoterms:</b>	
<b>Price per unit:</b>	Price available on request		

**Quality standard:** - ISO 13485 -

**Comments:**

**Current PQS status:** *pre-qualified; 24 Dec 2021*

**Valid until :** *May, 2024*

**Note:** If Current PQS status is 'Suspended' or 'Withdrawn',

**E013:** Hypodermic syringes with reuse prevention feature

<b>PQS code:</b>	<b>E013/134</b>
<b>Description:</b>	Qatari 2mL RUP
<b>Manufacturer's reference:</b>	Qatari 2mL RUP
<b>Manufactured in:</b>	Qatar
<b>Company:</b>	Qatari German Company for Medical Devices
<b>Address:</b>	P.O.Box 22556 ABU HAMOUR DOHA, STATE OF QATAR
<b>Telephone:</b>	+974 44581201
<b>Email:</b>	<a href="mailto:sales@qgmd.com">sales@qgmd.com</a>
<b>Web address:</b>	<a href="http://www.qgmd.com">www.qgmd.com</a>

**Specifications**

<b>Graduations:</b>	2mL	<b>Needle size:</b>	23G x 1"
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	Lock after after injection completed	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1000	<b>Volume per carton (m3):</b>	0.08
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	6.2
<b>Year base price:</b>	2021	<b>Incoterms:</b>	EXW
<b>Price per unit:</b>	0.08 USD		
<b>Quality standard:</b>	- ISO 13485 -		

**Comments:**

**Current PQS status:** *pre-qualified; 07 Jan 2022* Valid until : *May, 2024*

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

**E013: Hypodermic syringes with reuse prevention feature**

<b>PQS code:</b>	<b>E013/135</b>
<b>Description:</b>	1mL RUP syringe
<b>Manufacturer's reference:</b>	Hongda 1mL RUP syringe
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Jiangxi Hongda Medical Equipment Group Ltd 39 South Shengi Road Jinxian county, Nanchang City Jiangxi province China; People's Republic of
<b>Address:</b>	
<b>Telephone:</b>	+86 791 85628828
<b>Email:</b>	<a href="mailto:hongda008@jxhd.cn">hongda008@jxhd.cn</a>
<b>Web address:</b>	<a href="http://www.jxhd.cn">http://www.jxhd.cn</a>

**Specifications**

<b>Graduations:</b>	0.01mL	<b>Needle size:</b>	22G 1
<b>Syringe material(s):</b>	Polypropylene	<b>Other needle options:</b>	Yes
<b>Number of components:</b>	3 pieces	<b>Needle fixation:</b>	Fixed
<b>RUP mechanism:</b>	gasket and plunger is Locked	<b>Primary packaging:</b>	Paper blister pack
<b>RUP location:</b>	Upon completion of injection	<b>CE mark:</b>	Yes
<b>RUP type:</b>	Type I B		
<b>Pieces per carton:</b>	1500	<b>Volume per carton (m3):</b>	0.097954
<b>Minimum order:</b>	100000	<b>Weight per carton (kg):</b>	19
<b>Year base price:</b>	2023	<b>Incoterms:</b>	
<b>Price per unit:</b>	1000units:3.3\$	5000units:3.2\$	10000units:3.1\$
<b>Quality standard:</b>	- ISO 13485 -		
<b>Comments:</b>	different pieces per carton are available such as 1,500 pcs per carton, 3,000.		
<b>Current PQS status:</b>	<b>pre-qualified; 15 Sep 2023</b>		<b>Valid until : May, 2024</b>

Note: If Current PQS status is 'Suspended' or 'Withdrawn',

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- Any Member State and UN organization intending to use the PQS catalogue for procurement purposes should ensure that only products from the manufacturers mentioned in the PQS catalogue are supplied to it. However, inclusion of a product in the PQS catalogue does not constitute any guarantee for the procurement of this product.
- Procurement organizations using the PQS catalogue for procurement purposes remain solely responsible for the procurement of products included in the PQS catalogue, including for ensuring the quality of the products to be delivered to them, for performing other aspects of qualification prior to purchasing, such as ensuring the

financial stability and standing of the supplier, the ability to supply the required quantities and other related aspects, and for ensuring that the products they wish to procure have obtained the required marketing authorizations.

### Guideline revision history

Date	Change summary	Reason for change	Approved
15 April 2011	First publication		