



E003

Refrigerators and Freezers

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

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

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

E003.1: Refrigerator and freezer technologies

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

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

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

Table 1 : Refrigeration options

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

E003.2: IMD-PQS compression refrigerators and freezers

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

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

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

E003.2.1 Mains-powered refrigerators and freezers

E003.2.1.1 Compression refrigerators and freezers with no additional lining

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

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

E003.2.1.2 Ice-lined refrigerators (ILR)

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

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

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

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

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

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

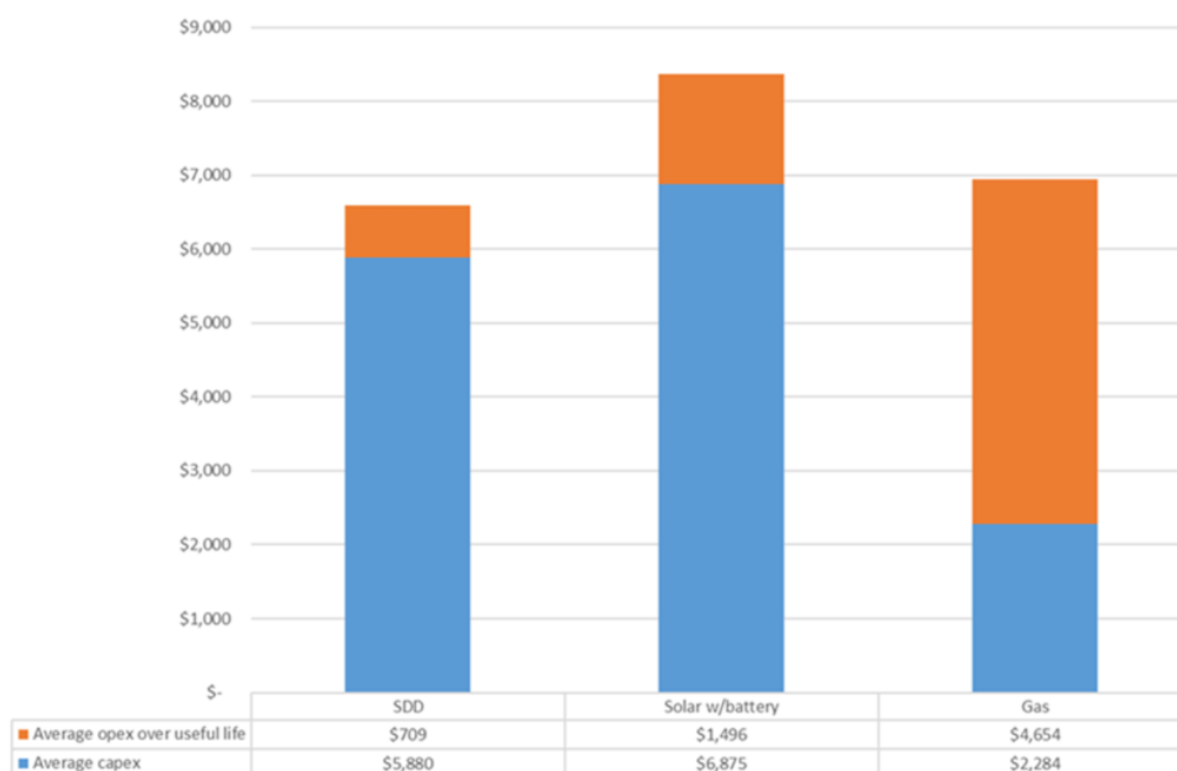
E003.2.2 Solar refrigerators and freezers

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

E003.3: IMD-PQS absorption refrigerators and freezers

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

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

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

E003.4: Choosing a refrigerator or freezer

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

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

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

2. Temperature zone selection

Table 1 : Temperate zone selection

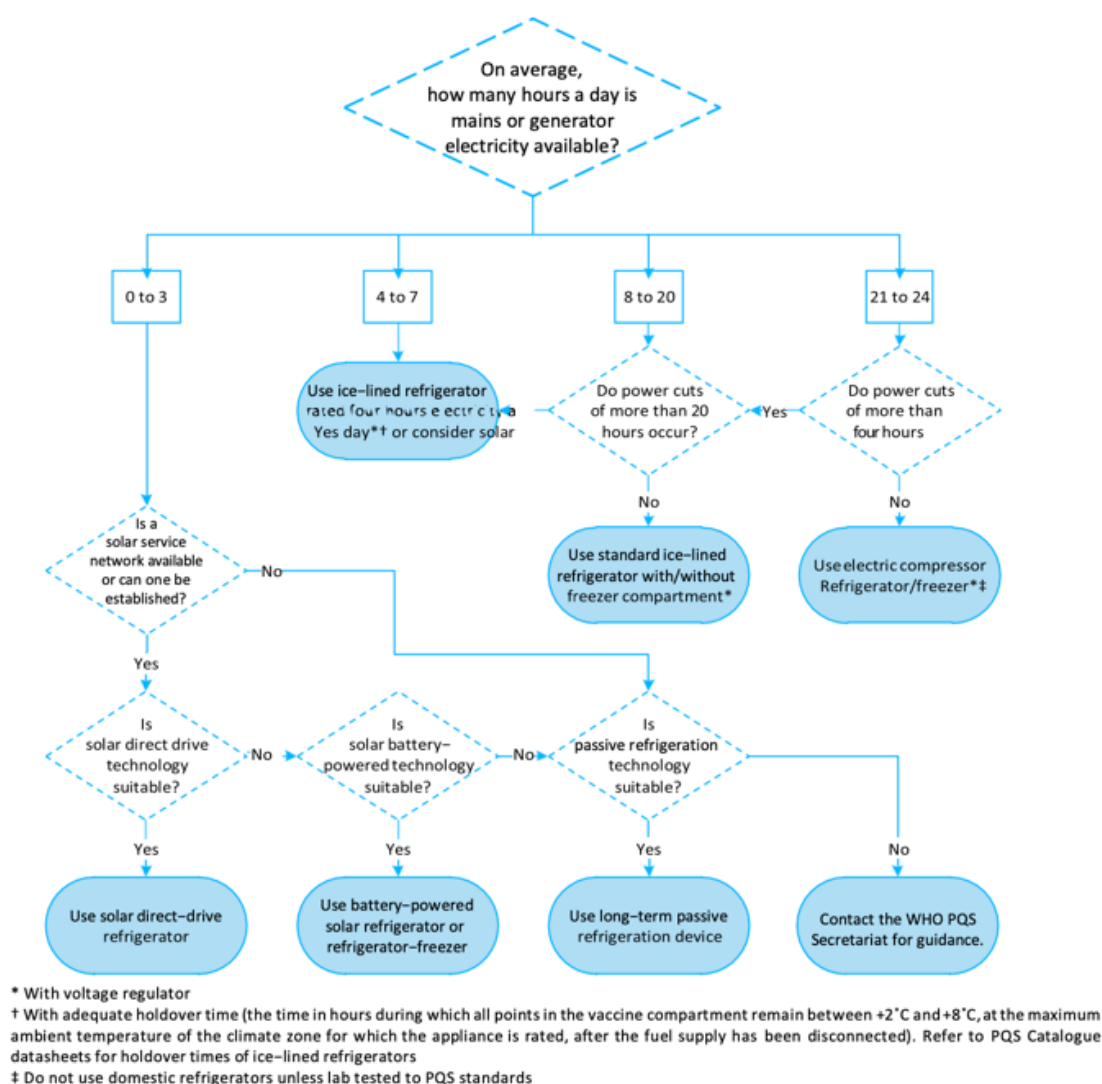
Appliance type LAT = Low Ambient Temperature rating	Mean maximum temperature in hottest month			Lowest winter room temperature	
	<= +27°C	<= +32°C	>+32°C	>= +10°C to +25°C	< +10°C
Hot zone			X	X	
Temperate zone		X		X	
Moderate zone	X			X	
Hot zone + LAT			X		X
Temperate zone + LAT		X			X
Moderate zone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

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

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

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

Figure 2: Selecting a suitable energy source



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

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

Table 2: EMS configurations

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

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

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

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

E003.5: IMD-PQS specification changes

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

E003.5.1: Electronic Monitoring System (EMS)

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

E003.5.2: Humidity control

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

E003.6: Recent and future developments

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

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

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

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

Performance specifications

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

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

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

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

[PQS performance specification E003/TS01.1: Transportable, powered vaccine storage appliances](#)

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

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

[PQS performance specification E003/ULT01.1: Vaccine ultra-low temperature freezer compression cycle](#)

[PQS performance specification E003/POW01.0: Power systems for ultra-low temperature systems](#)

[PQS performance specification E003/BC01.1: Global asset identification](#)

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

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

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

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

[PQS performance specification E003/FZ02.2: Water-pack freezer: absorption cycle](#)

[PQS performance specification E003/FZ03.3: Water-pack freezer: solar direct drive without battery storage](#)

Verification protocols

[PQS independent type-testing protocol E003/ULT01-VP.1: Vaccine ultra-low temperature freezer](#)

[PQS independent type-testing protocol E003/TS01-VP.1: Transportable, powered vaccine storage appliances](#)

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

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

[PQS type-examination protocol E003/POW-VP02.0: Power systems for ultra-low temperature freezing systems](#)

[PQS type-examination protocol E003/POW-VP01.0: Power systems for ultra-low temperature freezing systems](#)

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

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

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

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

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

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

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

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

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

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

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

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

Target product profile

[Target Product Profile: WHO/PQS/E003/TPP01.2 SDD refrigerator](#)

[Target Product Profile: WHO/PQS/E003/TPP02.1 Solar Power System](#)

[Target Product Profile: WHO/PQS/E003/TPP03.1 SDD Freezer](#)

[Draft Target Product Profile: WHO/PQS/E003/TPP04 Mains-powered refrigerator](#)

[Target Product Profile: WHO/PQS/E003/TPP05.1 Humidity control for vaccine refrigerators](#)

Guidance for manufacturers/suppliers

[Generic field evaluation checklist for IMD-PQS reviewers](#)

[Generic guide for the field evaluation of new technologies for WHO PQS prequalification
GENERIC/GUIDE 1.1](#)

[PQS solar autonomy calculation method](#)

[IMD-PQS Guidelines for Prequalification Holders](#)

Supporting information for users

[How to calculate vaccine volumes and cold chain capacity requirements](#)

[How to develop and repair a maintenance system for cold chain equipment](#)

[Introducing solar-powered vaccine refrigerator and freezer systems – A guide for managers in national immunization programmes](#)

[Evidence brief: Solar direct-drive vaccine refrigerators and freezers](#)

[Procurement guidelines: solar direct drive refrigerators and freezers](#)

[Study protocol for temperature monitoring in the vaccine cold chain](#)



E003: Refrigerators and freezers



Product name:	MF 314
IMD-PQS Code:	E003-023
Status:	Prequalified
Date of acceptance:	12 Jan 2011
Appliance type:	E003
Product description:	Other
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	MF 314
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	1.00
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PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

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

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

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

PRICE AND SHIPPING

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

QUALITY STANDARD

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

VERIFICATION

Verification Report Reference	A66542-3 issue 1
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PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	MF 114
IMD-PQS Code:	E003-024
Status:	Prequalified
Date of acceptance:	12 Jan 2011
Appliance type:	E003
Product description:	Other
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	MF 114
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	1.00
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PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

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

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

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

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

QUALITY STANDARD

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

VERIFICATION

Verification Report Reference	A66542-1
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PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	MF 214
IMD-PQS Code:	E003-025
Status:	Prequalified
Date of acceptance:	12 Jan 2011
Appliance type:	E003
Product description:	Other
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	MF 214
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	1.00
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PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

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

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

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

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

QUALITY STANDARD

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

VERIFICATION

Verification Report Reference	A66542-2 issue 1
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PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	VC200SDD
IMD-PQS Code:	E003-040e
Status:	Prequalified
Date of acceptance:	13 Mar 2014
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Dulas Ltd
Manufacturers Reference:	VC200SDD
Country of Manufacture:	United Kingdom
Address:	Unit 6, Beeding Close, Southern Cross Trading Estate, PO22 9TS, Bognor Regis Bognor Regis West Sussex United Kingdom of Great Britain and Northern Ireland
Telephone:	+44 (0)7833 297920
Email:	catherine.mclennan@dulas.org.uk
Website address:	http://www.dulassolar.org/
Valid until:	31 Mar 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	Hold over time (hours:mn)	90:30
External dimensions length (mm)	750.00	External dimensions width (mm)	1280.00
External dimensions height (mm)	980.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	Solar direct drive	Lining	PCM
Energy Consumption Cool Down (kWh/24h)	0.5200	Energy Consumption Continuous Power (kWh/24h)	0.5000

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	132.000	Refrigerator's gross volume (Litres)	205.000
Autonomy (hrs:mn)	79:29	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

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

Comments	APPROVED for EMS Level 3 Dulas VC200SDD (solar direct drive) vaccine refrigerator. Integrated PCM internal lining used as part of Dulas's Freeze Free technology. Features include lockable handle, twin gasket seals, high strength metal hinges and heavy duty castors. Price includes plug and play solar array and mounting system, as well as solar cables, connectors, fixings and earthing kit (for increased protection against lightning strike). Selection of specialist tools supplied with the system to facilitate installation. Beyond EMS integrated as standard with display, audible and visual alarm indicators, 120-day local data storage and scannable QR code for instant 30-day PDF reports. Optional remote temperature monitoring subscription service available via cellular network which provides real-time monitoring and reporting of cold chain assets in one easy-to-use cloud-based portal. Shipping weights and volumes are shown for refrigerator only. Details of solar system available upon request.
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List of accessories	Supplied with 4 x refrigerator baskets, 2 x keys for the lockable handle, 1 x set of printed manuals ('user's manual', 'installation and technician's manual') available in a selection of languages. Price includes Berlinger Fridge-tag 2 E 30-day electronic temperature logger (E006/040) and complete solar system including all cables and connections necessary for installation in the field.
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 x Dulas SDD controller (for single compressor) – Part No. 5522 1 x Lightning protection board – Part No. 5542 1 x Temperature probe (set of 2) – Part No's. SN4B15P1 & SN4B20P1 1 x Compressor controller – Part No. 101N0420 1 x MCB fridge – Part No. 693-CBTWF060C0 1 x Compressor BD35K – Part No. 101Z0211 1 x Drain cap covers 1 x PCB Fixings 1 x Handle Prices and other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.33	Shipping weight (kg)	194.00
Incoterms	EXW	Price 1	€5,650 EUR per unit including solar system
Year of base price	2026		

QUALITY STANDARD

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

VERIFICATION

Verification Laboratory	0013X00004Ml8OcQAJ	Verification Report Reference	300-KLAB-13-194
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PRODUCT SITES

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

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 Mar 2027</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



Product name:	VC150SDD
IMD-PQS Code:	E003-048e
Status:	Prequalified
Date of acceptance:	01 Jun 2015
Appliance type:	E003
Product description:	Solar direct drive combined refrigerator/freezer
Manufacturer:	Dulas Ltd
Manufacturers Reference:	VC150SDD
Country of Manufacture:	United Kingdom
Address:	Unit 6, Beeding Close, Southern Cross Trading Estate, PO22 9TS, Bognor Regis Bognor Regis West Sussex United Kingdom of Great Britain and Northern Ireland
Telephone:	+44 (0)7833 297920
Email:	catherine.mclennan@dulas.org.uk
Website address:	http://www.dulassolar.org/
Valid until:	31 Mar 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	102.000	Refrigerator's gross volume (Litres)	158.000
Autonomy (hrs:mn)	77:57	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	Freezer net volume	
Freezer's gross volume (Litres)	42.00	Waterpack freezing capacity (Kg/24 hrs)	2.04
Waterpack storage capacity (Litres)	12.00		

Comments	APPROVED for EMS Level 3 Dulas VC150SDD (solar direct drive) combined vaccine refrigerator and water-pack freezer. Integrated PCM internal lining used as part of Dulas's Freeze Free technology. Features include lockable handle, twin gasket seals, high strength metal hinges and heavy duty castors. Price includes plug and play solar array and mounting system, as well as solar cables, branch connectors, fixings and earthing kit (for increased protection against lightning strike). Selection of specialist tools supplied with the system to facilitate installation. Beyond EMS integrated as standard with display, audible and visual alarm indicators, 120-day local data storage and scannable QR code for instant 30-day PDF reports. Optional remote temperature monitoring subscription service available via cellular network which provides real-time monitoring and reporting of cold chain assets in one easy-to-use cloud-based portal. Shipping weights and volumes are shown for refrigerator only. Details of solar system available upon request.
List of accessories	Supplied with 6 x refrigerator baskets, 2 x keys for the lockable handle, 1 x set of printed manuals ('user's manual', 'installation and technician's manual') available in a selection of languages. Price includes Berlinger Fridge-tag 2 E 30-day electronic temperature logger (E006/040) and complete solar system including all cables and connections necessary for installation in the field.
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 x Dulas SDD controller (for dual compressor) – Part No. 5532 1 x Lightning protection board – Part No. 5542 1 x Temperature probe (set) – Part No. SN4B15P1 & SN4B20P1 & SN4B25P1 1 x Compressor controller – Part No. 101N0420 1 x MCB fridge / freezer – Part No. 693-CBTWF0100C0 1 x Freezer on/off switch – Part No. E5025, E5026 & E5027 1 x Freezer fan – Part No. 89-4367.GN. 1 x Compressor BD35K – Part No. 101Z0211 1 x Drain cap covers. 1 x PCB Fixings. 1 x Handle. Prices and other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.33	Shipping weight (kg)	199.00
Incoterms	EXW	Price 1	€6,995 EUR per unit including solar system
Year of base price	2026		

QUALITY STANDARD

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

VERIFICATION

Verification Laboratory	0013X00004M8OcQAJ	Verification Report Reference	300-KLAB-14-148-2
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PRODUCT SITES

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

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 Mar 2027</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



Product name:	VC88SDD
IMD-PQS Code:	E003-059e
Status:	Prequalified
Date of acceptance:	23 Sep 2015
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Dulas Ltd
Manufacturers Reference:	VC88SDD
Country of Manufacture:	United Kingdom
Address:	Unit 6, Beeding Close, Southern Cross Trading Estate, PO22 9TS, Bognor Regis Bognor Regis West Sussex United Kingdom of Great Britain and Northern Ireland
Telephone:	+44 (0)7833 297920
Email:	catherine.mclennan@dulas.org.uk
Website address:	http://www.dulassolar.org/
Valid until:	31 Mar 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	Hold over time (hours:mn)	90:02
External dimensions length (mm)	750.00	External dimensions width (mm)	1280.00
External dimensions height (mm)	980.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	Solar direct drive	Lining	PCM
Energy Consumption Cool Down (kWh/24h)	0.5200	Energy Consumption Continuous Power (kWh/24h)	5.0000

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	88.000	Refrigerator's gross volume (Litres)	205.000
Autonomy (hrs:mn)	80:10	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A
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Comments	APPROVED for EMS Level 3 Dulas VC88SDD (solar direct drive) vaccine refrigerator. Integrated PCM internal lining used as part of Dulas's Freeze Free technology. Features include lockable handle, twin gasket seals, high strength metal hinges and heavy duty castors. Price includes plug and play solar array and mounting system, as well as solar cables, connectors, fixings and earthing kit (for increased protection against lightning strike). Selection of specialist tools supplied with the system to facilitate installation. Beyond EMS integrated as standard with display, audible and visual alarm indicators, 120-day local data storage and scannable QR code for instant 30-day PDF reports. Optional remote temperature monitoring subscription service available via cellular network which provides real-time monitoring and reporting of cold chain assets in one easy-to-use cloud-based portal. Shipping weights and volumes are shown for refrigerator only. Details of solar system available upon request.
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List of accessories	Supplied with 4 x refrigerator baskets, 2 x keys for the lockable handle, 1 x set of printed manuals ('user's manual', 'installation and technician's manual') available in a selection of languages. Price includes Berlinger Fridge-tag 2 E 30-day electronic temperature logger (E006/040) and complete solar system including all cables and connections necessary for installation in the field.
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 x Dulas SDD controller (for single compressor) – Part No. 5522 1 x Lightning protection board – Part No. 5542 1 x Temperature probe (set of 2) – Part No's. SN4B15P1 & SN4B20P1 1 x Compressor controller – Part No. 101N0420 1 x MCB fridge – Part No. 693-CBTWF060C0 1 x Compressor BD35K – Part No. 101Z0211 1 x Drain cap covers. 1 x PCB Fixings. 1 x Handle Prices and other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.33	Shipping weight (kg)	194.00
Incoterms	EXW	Price 1	€5,440 EUR per unit including solar system
Year of base price	2026		

QUALITY STANDARD

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

VERIFICATION

Verification Laboratory	0013X00004Ml8OcQAJ	Verification Report Reference	300-KLAB-13-194-2
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PRODUCT SITES

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

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 Mar 2027</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



Product name:	DW-25W147
IMD-PQS Code:	E003-060
Status:	Prequalified
Date of acceptance:	11 Feb 2015
Appliance type:	E003
Product description:	Other
Manufacturer:	Qingdao Aucma Global Medical Co.,Ltd.
Manufacturers Reference:	DW-25W147
Country of Manufacture:	China
Address:	315 Qianwangang Road, Economic & Technological Development Zone, Qingdao Shandong China
Telephone:	+86 532 86763602
Email:	lishouda@aucma.com.cn
Website address:	www.aucmamedicalglobal.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	96.000	Refrigerant type	R600a
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PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

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

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

PRICE AND SHIPPING

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

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/FZ01.2 Applicable PQS VP(s): E003/FZ01-VP.2		
VERIFICATION			
Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-14-039		
PRODUCT SITES			
Organization name	Qingdao Aucma Global Medical Co.,Ltd.		
Address	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao Shandong China		
Current PQS status:	Prequalified	Valid until:	31 May 2027

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



E003: Refrigerators and freezers



Product name:	DW-25W300
IMD-PQS Code:	E003-061
Status:	Prequalified
Date of acceptance:	11 Feb 2015
Appliance type:	E003
Product description:	Other
Manufacturer:	Qingdao Aucma Global Medical Co.,Ltd.
Manufacturers Reference:	DW-25W300
Country of Manufacture:	China
Address:	315 Qianwangang Road, Economic & Technological Development Zone, Qingdao Shandong China
Telephone:	+86 532 86763602
Email:	lishouda@aucma.com.cn
Website address:	www.aucmamedicalglobal.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

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

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

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

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

PRICE AND SHIPPING

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

QUALITY STANDARD

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

VERIFICATION

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

PRODUCT SITES

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

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	VLS 024e SDD
IMD-PQS Code:	E003-069e
Status:	Prequalified
Date of acceptance:	04 Aug 2016
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 024e SDD
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

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

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

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

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

QUALITY STANDARD

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

VERIFICATION

Verification Laboratory	0013X00004Ml8OcQAJ	Verification Report Reference	300-KLAB-15-174
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PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	TFW 3000 AC
IMD-PQS Code:	E003-071
Status:	Prequalified
Date of acceptance:	25 May 2016
Appliance type:	E003
Product description:	Waterpacks freezer
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TFW 3000 AC
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsistemas.com
Website address:	www.bmedicalsistemas.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerant type	R290
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PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Rapid water-pack freezer	Freezer's gross volume (Litres)	204.00
Waterpack freezing capacity (Kg/24 hrs)	32.40	Waterpack storage capacity (Litres)	97.20

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

PRICE AND SHIPPING

Shipping volume (m3)	1.07	Shipping weight (kg)	126.00
Incoterms	EXW	Price 1	> 100 units: 3394 €
Year of base price	2026		

QUALITY STANDARD

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

VERIFICATION

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

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei Hosingen Luxemburg Luxembourg

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	HTCD 90 SDD
IMD-PQS Code:	E003-074e
Status:	Prequalified
Date of acceptance:	06 Jun 2016
Appliance type:	E003
Product description:	Solar direct drive combined refrigerator/freezer
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTCD 90 SDD
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

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

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

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

Comments	APPROVED FOR EMS LEVEL 3 Optional: Remote temperature monitoring device 180W x 4 or 360Wx 2 Solar Panel power Price includes 30 days temperature logger Freezer net volume: 50 L Freezing capacity range: 5 kg/24h Range of holdover time: 101 - 250 hours Range vaccine storage capacity: 25L - 60L Range waterpack storage capacity: 20
List of accessories	Baskets; manuals; keys
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 2 No. Display - Part No. 0274000357 2 No. Indicator - Part No. 0074000574 1 No. Fan Set - Part No. 0274000351 1 No. Compressor BD-35K - Part No. 0274000118A 1 No. Compressor controller (E-Box) - Part No. 0274000118FJ 1 No. Thermostat - Part No. 0274000352 1 No. Main Switch - Part No. 0274000354 1 No.USB charging port - Part No. 0274000389 1 No. Dry filter - Part No. 0074180001 1 No. Thermo sensor - Part No. 0274000358 1 No. Thermo sensor - Part No. 0274000357A 1 No. Thermo sensor - Part No. 0274000353 2 No. Sticker - Part No. 0270501015C Other parts are available as spares on request.

PRICE AND SHIPPING

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

QUALITY STANDARD

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

VERIFICATION

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

PRODUCT SITES

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

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	HTC 40 SDD
IMD-PQS Code:	E003-075e
Status:	Prequalified
Date of acceptance:	06 Jun 2016
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTC 40 SDD
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

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

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

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

PRICE AND SHIPPING

Shipping volume (m3)	0.7	Shipping weight (kg)	82.00
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Incoterms	FCA	Price 1	USD 2588
Year of base price	2016		
QUALITY STANDARD			
Quality Standard	ISO 13485;Other	Quality standard (Other)	ISO 9001:2008;ISO 14001
Specification Reference	Applicable PQS specification: E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		
VERIFICATION			
Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-16-151		
PRODUCT SITES			
Organization name	Qingdao Haier Biomedical Co., Ltd		
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China		
Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</i>

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



E003: Refrigerators and freezers



Product name:	HTC 110 SDD
IMD-PQS Code:	E003-076e
Status:	Prequalified
Date of acceptance:	06 Jun 2016
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTC 110 SDD
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

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

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

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

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

Year of base price	2021		
QUALITY STANDARD			
Quality Standard	ISO 13485;Other	Quality standard (Other)	ISO 9001:2008;ISO 14001
Specification Reference	Applicable PQS specification: E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		
VERIFICATION			
Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-16-152		
PRODUCT SITES			
Organization name	Qingdao Haier Biomedical Co., Ltd		
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China		
Current PQS status:	Prequalified	Valid until:	31 May 2027

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



E003: Refrigerators and freezers



Product name:	CFD-50
IMD-PQS Code:	E003-079e
Status:	Prequalified
Date of acceptance:	11 Apr 2016
Appliance type:	E003
Product description:	Ice-lined refrigerator
Manufacturer:	Qingdao Aucma Global Medical Co.,Ltd.
Manufacturers Reference:	CFD-50
Country of Manufacture:	China
Address:	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao Shandong China
Telephone:	+86 532 86763602
Email:	lishouda@aucma.com.cn
Website address:	www.aucmamedicalglobal.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

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

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A
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Comments	APPROVED EMS LEVEL 3 Default EMS: Beyond EMS Levels 2&3 Device (PQS-prequalified E006-036e) Alternative EMS: AOHUI-E1001 (PQS-prequalified integrated EMD, Level 2) 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 an integrated voltage stabilizer (PQS code E007-010) with an input voltage range of 110–285 • Includes a built-in 30-day electronic refrigerator temperature logger that stores and displays temperature and alarm history. (PQS prequalified in E006/TR06.3). MetaFridge also displays remaining holdover time. • Includes an integrated connection to an optional remote monitoring module that transmits temperature data and other key performance metrics. (Hardware and data services package are PQS prequalified in E006/TR03.2.) Contact manufacturer for additional information.) • Unit requires the addition of 32 liters of clean drinking water during installation. More information on ColdSafe™ and other MetaFridge™ technologies is available at www.metafridge.com Range of holdover time: 101 - 250 hou Range vaccine storage capacity: 25L - 60L		
List of accessories	Included in price: integrated PQS prequalified voltage stabilizer, integrated PQS prequalified 30 DTR, 2 vaccine storage trays; 3 wire shelves; 2 sets of locks & keys; 1 funnel; documentation Optional: additional vaccine trays, remote monitoring module and data services package		
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor 1 No. DC fan 1 No. Transformer 1 No. Electronic control unit Other parts are available as spares on request.		
PRICE AND SHIPPING			
Shipping volume (m3)	0.77	Shipping weight (kg)	108.00
Incoterms	EXW	Price 1	1 – 99 units: 1,400USD
Price 2	100 or more units: 1,300USD	Year of base price	2016
QUALITY STANDARD			
Quality Standard	Other	Quality standard (Other)	ISO 9001:2008; ISO 14001; OHSAS 18001
Specification Reference	Applicable PQS specification: E003/RF03.2 Applicable PQS VP(s): E003/RF03-VP.2		
VERIFICATION			
Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-16-217		
PRODUCT SITES			
Organization name	Qingdao Aucma Global Medical Co.,Ltd.		
Address	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao Shandong China		
Current PQS status:	Prequalified	Valid until:	31 May 2027
Note: If Current POS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.			

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



E003: Refrigerators and freezers



Product name:	VC60SDD
IMD-PQS Code:	E003-084e
Status:	Prequalified
Date of acceptance:	16 Jan 2017
Appliance type:	E003
Product description:	Solar direct drive combined refrigerator/freezer
Manufacturer:	Dulas Ltd
Manufacturers Reference:	VC60SDD
Country of Manufacture:	United Kingdom
Address:	Unit 6, Beeding Close, Southern Cross Trading Estate, PO22 9TS, Bognor Regis Bognor Regis West Sussex United Kingdom of Great Britain and Northern Ireland
Telephone:	+44 (0)7833 297920
Email:	catherine.mclennan@dulas.org.uk
Website address:	http://www.dulassolar.org/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	Hold over time (hours:mn)	94:11
External dimensions length (mm)	750.00	External dimensions width (mm)	1280.00
External dimensions height (mm)	980.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	Solar direct drive	Lining	PCM
Energy Consumption During Freezing (kWh/24h)	0.9500	Energy Consumption Cool Down (kWh/24h)	0.8000
Energy Consumption Continuous Power (kWh/24h)	78.0000		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

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

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	Freezer's gross volume (Litres)	42.00
Waterpack freezing capacity (Kg/24 hrs)	2.40	Waterpack storage capacity (Litres)	13.80

Comments	APPROVED for EMS Level 3 Dulas VC60SDD (solar direct drive) combined vaccine refrigerator and water-pack freezer. Integrated PCM internal lining used as part of Dulas's Freeze Free technology. Features include lockable handle, twin gasket seals, high strength metal hinges and heavy duty castors. Price includes plug and play solar array and mounting system, as well as solar cables, branch connectors, fixings and earthing kit (for increased protection against lightning strike). Selection of specialist tools supplied with the system to facilitate installation. Beyond EMS integrated as standard with display, audible and visual alarm indicators, 120-day local data storage and scannable QR code for instant 30-day PDF reports. Optional remote temperature monitoring subscription service available via cellular network which provides real-time monitoring and reporting of cold chain assets in one easy-to-use cloud-based portal. Shipping weights and volumes are shown for refrigerator only. Details of solar system available upon request.		
List of accessories	Supplied with 4 x refrigerator baskets, 2 x keys for the lockable handle, 1 x set of printed manuals ('user's manual', 'installation and technician's manual') available in a selection of languages. Price includes Berlinger Fridge-tag 2 E 30-day electronic temperature logger (E006/040) and complete solar system including all cables and connections necessary for installation in the field.		
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 x Dulas SDD controller (for dual compressor) – Part No. 5532 1 x Lightning protection board – Part No. 5542 1 x Temperature probe (set) – Part No. SN4B15P1 & SN4B20P1 & SN4B25P1 1 x Compressor controller – Part No. 101N0420 1 x MCB fridge / freezer – Part No. 693-CBTWF0100C0 1 x Freezer on/off switch – Part No. E5025, E5026 & E5027 1 x Freezer fan – Part No. 89-4367.GN. 1 x Compressor BD35K – Part No. 101Z0211 1 x Drain cap covers. 1 x PCB Fixings. 1 x Handle Prices and other parts are available as spares on request.		
PRICE AND SHIPPING			
Shipping volume (m3)	1.33	Shipping weight (kg)	199.00
Incoterms	EXW	Price 1	€6,065 per unit including solar system
Year of base price	2026		
QUALITY STANDARD			
Quality Standard	Other	Quality standard (Other)	ISO 9001:2015; ISO 14001:2015
Specification Reference	Applicable PQS specification: PQS/E003/RF05.3 Applicable PQS VP(s): E003/RF05-VP.3		
VERIFICATION			
Verification Laboratory	0013X00004MI8OcQAJ	Verification Report Reference	300-KLAB-16-164
PRODUCT SITES			
Organization name	Dulas Ltd		
Address	Unit 6, Beeding Close, Southern Cross Trading Estate, Bognor Regis West Sussex United Kingdom of Great Britain and Northern Ireland		
Current PQS status:	Prequalified	Valid until:	31 May 2027

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



E003: Refrigerators and freezers



Product name:	HTD-40
IMD-PQS Code:	E003-086
Status:	Prequalified
Date of acceptance:	06 Sep 2017
Appliance type:	E003
Product description:	Other
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTD-40
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

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

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

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

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

PRICE AND SHIPPING

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

QUALITY STANDARD

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

VERIFICATION

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

PRODUCT SITES

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

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	HBC-260
IMD-PQS Code:	E003-087e
Status:	Prequalified
Date of acceptance:	06 Sep 2017
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBC-260
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

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

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

PRICE AND SHIPPING

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

QUALITY STANDARD

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

VERIFICATION

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

PRODUCT SITES

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

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	HBC-150
IMD-PQS Code:	E003-088e
Status:	Prequalified
Date of acceptance:	06 Sep 2017
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBC-150
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

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

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

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

PRICE AND SHIPPING

Shipping volume (m3)	0.99	Shipping weight (kg)	140.00
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Price 1	USD 999	Year of base price	2021
QUALITY STANDARD			
Quality Standard	ISO 13485;Other	Quality standard (Other)	ISO 9001:2008;ISO 14001
Specification Reference	Applicable PQS specification: PQS/E003/RF03.2 Applicable PQS VP(s): E003/RF03-VP.2		
VERIFICATION			
Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
PRODUCT SITES			
Organization name	Qingdao Haier Biomedical Co., Ltd		
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China		
Current PQS status:	Prequalified	Valid until:	31 May 2027

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



E003: Refrigerators and freezers



Product name:	HBC-80
IMD-PQS Code:	E003-089e
Status:	Prequalified
Date of acceptance:	06 Sep 2017
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBC-80
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

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

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

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

PRICE AND SHIPPING

Shipping volume (m3)	0.71	Shipping weight (kg)	110.00
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Price 1	1-100units USD 860	Price 2	>100units USD 788
Year of base price	2021		
QUALITY STANDARD			
Quality Standard	ISO 13485;Other	Quality standard (Other)	ISO 9001:2008;ISO 14001
Specification Reference	Applicable PQS specification: PQS/E003/RF03.3 Applicable PQS VP(s): E003/RF03-VP.3		
VERIFICATION			
Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-17-166		
PRODUCT SITES			
Organization name	Qingdao Haier Biomedical Co., Ltd		
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China		
Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</i>

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



E003: Refrigerators and freezers



Product name:	HBCD-90
IMD-PQS Code:	E003-097e
Status:	Prequalified
Date of acceptance:	16 Oct 2018
Appliance type:	E003
Product description:	Combined icelined refrigerator/waterpacks freezer
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBCD-90
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

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

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

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

Comments	APPROVED EMS LEVEL 3 Optional: Remote temperature monitoring Price not include: Voltage regulator Freezer net volume: 50 L Range of holdover time: 51 - 100 hours
List of accessories	"Keys 2 Handle attachment 1 Refiller 1 Corrosion inhibitors 1 Defroster spade 1"
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Dry filter - Part No. 0074180001 2 No. overload protector - Part No. 0274300008B 1 No. Switch - Part No. 0075050003 1 No. Thermo sensor - Part No. 0274000353A 1 No. Thermo sensor - Part No. 0274000358 2 No. Sticker - Part No. 0270501015C 1 No. Thermostat - Part No. 0274000352A 1 No. Compressor - Part No. 0274000418 1 No. Fan - Part No. 0074000172 2 No. Indicator - Part No. 0075050018 2 No. Displayer - Part No. 0274000357 Other parts are available as spares on request.

PRICE AND SHIPPING

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

QUALITY STANDARD

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

VERIFICATION

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

PRODUCT SITES

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

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	CFD-50 SDD
IMD-PQS Code:	E003-098e
Status:	Prequalified
Date of acceptance:	19 Oct 2018
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Qingdao Aucma Global Medical Co.,Ltd.
Manufacturers Reference:	CFD-50 SDD
Country of Manufacture:	China
Address:	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao Shandong China
Telephone:	+86 532 86763602
Email:	lishouda@aucma.com.cn
Website address:	www.aucmamedicalglobal.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

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

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A
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Comments	APPROVED EMS LEVEL 3 Default EMS: Beyond EMS Levels 2&3 Device (PQS-prequalified E006-036e) Alternative EMS: AOHUI-E1001 (PQS-prequalified integrated EMD, Level 2) "The CFD-50 SDD MetaFridge provides safe, solar-powered vaccine storage for health facilities that have minimal or no mains power, and extreme ambient temperatures. Extensively tested ColdSafe™ thermosyphon technology keeps vaccines cold with no risk of freezing through 5+ day periods with inadequate sunlight. MetaFridge patented technology is licensed for manufacture to Aucma. • Included 3x100W PV modules and universal (roof, ground, pole) PV mounting rack with 20m wiring and 1.5m ground rod. • Included PQS approved energy harvesting outputs with 12V (2A), 2x5V USB (1A), and 3-18V (8A) defined load output options • Integrated 30-day electronic refrigerator temperature logger stores and displays temperature, alarm history and remaining autonomy/holdover time. (PQS prequalified in E006/TR06.3). • Optional remote monitoring module relays key performance metrics to remote users. (Hardware and data services package are PQS prequalified in E006/TR03.2.) Contact manufacturer for additional information. • Includes integrated AC input with voltage range of 90-290V and surge, under, and over voltage protection. Solar power is prioritized if both Solar and AC are connected. • Unit requires the addition of 32 liters of clean water during installation. More information on ColdSafe and other Meta-Fridge technologies is available at www.metafridge.com "		
List of accessories	Universal solar panel mounting kit for ground, pole or roof with required tools and instructions for assembly (pole not included); grounding kit; integrated PQS prequalified 30 DTR; integrated energy harvest control (EHC) module; 2 vaccine storage trays; 3 wire shelves; 2 sets of locks & keys; 1 funnel; documentation;		
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor 1 No. DC fan 1 No. Electronic control unit Other parts are available as spares on request.		
PRICE AND SHIPPING			
Shipping volume (m3)	0.78	Shipping weight (kg)	95.00
Incoterms	EXW	Price 1	1 – 99 units: 3200 USD
Price 2	100 or more units: 3100 USD	Year of base price	2018
QUALITY STANDARD			
Quality Standard	Other	Quality standard (Other)	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/RF05.5 Applicable PQS VP(s): E003/RF05-VP.4		
VERIFICATION			
Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-18-430		
PRODUCT SITES			
Organization name	Qingdao Aucma Global Medical Co.,Ltd.		
Address	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao Shandong China		
Current PQS status:	Prequalified	Valid until:	31 May 2027

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



E003: Refrigerators and freezers



Product name:	VFS 048 SDD
IMD-PQS Code:	E003-099
Status:	Prequalified
Date of acceptance:	23 Nov 2018
Appliance type:	E003
Product description:	Other
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VFS 048 SDD
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	3.50
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PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

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

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

PRICE AND SHIPPING

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

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008;ISO 14001
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Specification Reference	Applicable PQS specification: E003/FZ03.2 Applicable PQS VP(s): E003/FZ03-VP.1
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VERIFICATION

Verification Laboratory	0013X00004MI8OcQAJ	Verification Report Reference	300-KLAB-17-118
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PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	HTC-112
IMD-PQS Code:	E003-102e
Status:	Prequalified
Date of acceptance:	27 Feb 2019
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTC-112
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	External dimensions length (mm)	1128.00
External dimensions width (mm)	875.00	External dimensions height (mm)	720.00
Performance at" (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	Solar direct drive	Lining	Ice-lined
Energy Consumption Intermittent Power (kWh/24h)	0.5900	Energy Consumption Cool Down (kWh/24h)	0.6200

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	75.000	Refrigerator's gross volume (Litres)	112.000
Autonomy (hrs:mn)	92:46	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	APPROVED EMS LEVEL 3 Optional: Remote temperature monitoring device Power of Solar Panel :180W x 2 or 360W x 1
List of accessories	4 baskets; manuals; keys
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Display - Part No. 0274000357 1 No. Indicator - Part No. 0074000574 1 No. Fan Set Part No.0274000351 1 No. Compressor BD-35K - Part No. 0274000118A 1 No. Compressor controller (E-Box) - Part No.0274000118FJ 1 No. Thermostat - Part No. 0274000352 1 No. Main Switch - Part No. 0274000354 1 No. USB charging port - Part No. 0274000389 1 No. Dry filter - Part No. 0074180001 1 No. Thermo sensor - Part No. 0274000353 1 No. Thermo sensor - Part No. 0274000358 2 No. Sticker - Part No. 0270501015A Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.98	Shipping weight (kg)	105.00
Incoterms	EXW	Price 1	USD 3132
Year of base price	2021		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/RF05.5 Applicable PQS VP(s): E003/RF05-VP.4		
VERIFICATION			
Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-18-496		
PRODUCT SITES			
Organization name	Qingdao Haier Biomedical Co., Ltd		
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China		
Current PQS status:	Prequalified	Valid until:	31 May 2027

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



E003: Refrigerators and freezers



Product name:	VLS 054Ae SDD
IMD-PQS Code:	E003-106e
Status:	Prequalified
Date of acceptance:	10 Feb 2019
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 054Ae SDD
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	Hold over time (hours:mn)	89:32
External dimensions length (mm)	600.00	External dimensions width (mm)	720.00
External dimensions height (mm)	850.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Solar direct drive
Lining	Ice-lined	Energy Consumption Cool Down (kWh/24h)	0.6900
Energy Consumption Continuous Power (kWh/24h)	0.3500		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	55.500	Refrigerator's gross volume (Litres)	108.000
Autonomy (hrs:mn)	89:32	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	APPROVED EMS LEVEL 2 Prices include Vestfrost Solutions SDD PV energy kit comprising of PV panels, roof adjustable bracket system, plug & play installation. Unit equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5" touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 25L - 60L
List of accessories	Vaccine storage top basket; Bottom grating; 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD 35K) Complete R600a Incl. ECU - Part No. 8-036510223 1 No. Thermostat - Part No. 702090044 1 No. Fan Set (KD1208PTB3) 12 V DC Part No. 7090486 1 No. Thermometer, solar, Part No.7020382-03

PRICE AND SHIPPING

Shipping volume (m3)	0.65	Shipping weight (kg)	85.00
Incoterms	FCA	Price 1	1-99 units: 3,107 €
Price 2	100-199 units: 2.882 €	Year of base price	2016
QUALITY STANDARD			
Quality Standard	Other	Quality standard (Other)	ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/RF05.5 Applicable PQS VP(s): E003/RF05-VP.4		
VERIFICATION			
Verification Report Reference		100918190MKS-001 issue 2	
PRODUCT SITES			
Organization name	Vestfrost Solutions		
Address	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark		
Current PQS status:	Prequalified	Valid until:	31 May 2027

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



E003: Refrigerators and freezers



Product name:	VLS 094Ae SDD
IMD-PQS Code:	E003-107e
Status:	Prequalified
Date of acceptance:	10 Feb 2019
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 094Ae SDD
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	Hold over time (hours:mn)	77:41
External dimensions length (mm)	700.00	External dimensions width (mm)	930.00
External dimensions height (mm)	860.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Solar direct drive
Lining	Ice-lined	Energy Consumption Cool Down (kWh/24h)	0.4500
Energy Consumption Continuous Power (kWh/24h)	0.2400		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	92.000	Refrigerator's gross volume (Litres)	151.000
Autonomy (hrs:mn)	77:41	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	APPROVED EMS LEVEL 2 Prices include Vestfrost Solutions SDD PV energy kit comprising of PV panels, roof adjustable bracket system, plug & play installation. Unit equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5" touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 150L - 220L
List of accessories	4 x Vaccine storage top basket; Bottom grating; 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD 35K) Complete R600a Incl. ECU - Part No. 8-036510223 1 No. Thermostat - Part No. 702090044 1 No. Fan Set (KD1208PTB3) 12 V DC Part No. 7090486 1 No. Thermometer, solar, Part No.7020382-03 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.83	Shipping weight (kg)	108.00
Incoterms	FCA	Price 1	1-99 units: 3.264 €
Price 2	100-199 units: 3.217 €	Year of base price	2016

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/RF05.5 Applicable PQS VP(s): E003/RF05-VP.4		

VERIFICATION

Verification Report Reference	101809330MKS-001 Issue 1
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PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	VLS 154Ae SDD Greenline
IMD-PQS Code:	E003-108e
Status:	Prequalified
Date of acceptance:	10 Feb 2019
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 154Ae SDD Greenline
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	Hold over time (hours:mn)	77:75
External dimensions length (mm)	700.00	External dimensions width (mm)	1270.00
External dimensions height (mm)	860.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Solar direct drive
Lining	Ice-lined	Energy Consumption Cool Down (kWh/24h)	0.5600
Energy Consumption Continuous Power (kWh/24h)	0.5500		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	170.000	Refrigerator's gross volume (Litres)	248.000
Autonomy (hrs:mn)	73:4	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	APPROVED EMS LEVEL 2 Prices include Vestfrost Solutions SDD PV energy kit comprising of PV panels, roof adjustable bracket system, plug & play installation. Unit equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5" touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 150L - 220L
List of accessories	4 x Vaccine storage top basket; Bottom grating; 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD 35K) Complete R600a Incl. ECU - Part No. 8-036510223 1 No. Thermostat - Part No. 702090044 1 No. Fan Set (KD1208PTB3) 12 V DC Part No. 7090486 1 No. Thermometer, solar, Part No.7020382-03 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.83	Shipping weight (kg)	108.00
Incoterms	FCA	Price 1	1-99 units: 4,345 €
Price 2	100-199 units: 4044 €	Year of base price	2016

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/RF05.5 Applicable PQS VP(s): E003/RF05-VP.4		

VERIFICATION

Verification Laboratory	0013X00004MI8OcQAJ	Verification Report Reference	300-KLAB-15-115
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PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	VLS 204Ae AC
IMD-PQS Code:	E003-109e
Status:	Prequalified
Date of acceptance:	10 Feb 2019
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 204Ae AC
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Minimum rated ambient temperature (°C)	5.00	Freeze protection	Grade A
Hold over time (hours:mn)	54	External dimensions length (mm)	700.00
External dimensions width (mm)	730.00	External dimensions height (mm)	850.00
Performance at" (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz	Lining	Ice-lined
Energy Consumption Cool Down (kWh/24h)	0.5800	Energy Consumption Continuous Power (kWh/24h)	0.5700

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	60.000	Refrigerator's gross volume (Litres)	113.000
Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	1.00

Comments	APPROVED EMS LEVEL 2 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. Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 60L - 90L
List of accessories	2 x Vaccine storage top basket; 1 x Vaccine bottom basket; 1 x Bottom grating; 1 x Voltage stabilizer; 1 x 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 X Compressor (HXK80AT Complete) - Part No.8-036510018 1 X Thermostat Dixell XR30CH - Part No. 702090042 1 X Thermometer, solar, Part No.7020392-03Spare parts to be revised accordingly 1 X Compressor (HXK80AT Complete) - Part No.8-036510018 1 X Thermostat Dixell XR30CH - Part No. 702090042 1 X Thermometer, solar, Part No.7020392-03 1 X Voltage stabilizer controller Part No. 7020475 Other parts are available as spares on request.
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PRICE AND SHIPPING

Shipping volume (m3)	0.58	Shipping weight (kg)	70.00
Incoterms	FCA	Price 1	1-99 units: 919 €
Year of base price	2020		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/RF03.4 Applicable PQS VP(s): E003/RF03-VP3		

VERIFICATION

Verification Laboratory	0013X00004M8OcQAJ	Verification Report Reference	BOM No: 1-n113
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PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	VLS 304Ae AC
IMD-PQS Code:	E003-110e
Status:	Prequalified
Date of acceptance:	10 Feb 2019
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 304Ae AC
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	Hold over time (hours:mn)	55:30
External dimensions length (mm)	700.00	External dimensions width (mm)	920.00
External dimensions height (mm)	850.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
Lining	Ice-lined	Energy Consumption Intermittent Power (kWh/24h)	0.6900
Energy Consumption Cool Down (kWh/24h)	0.6900	Energy Consumption Continuous Power (kWh/24h)	0.6000

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	98.000	Refrigerator's gross volume (Litres)	157.000
Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	1.00

Comments	APPROVED EMS LEVEL 2 Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable. Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc. VLS 204A AC imodel is supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection in line with E007/VS01-VP.5 For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5" touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 90L - 150L
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List of accessories	3 x Vaccine storage top basket; 2 x Vaccine bottom basket; 1 x Bottom grating; 1 x Voltage stabilizer; 1 x 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No Compressor (HXK80AT Complete) - Part No.8-036510018 1 No Thermostat Dixell XR30CH - Part No. 702090042 1 No Thermometer, solar, Part No.7020392-03 1 No Voltage stabilizer controller Part No. 7020475 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.75	Shipping weight (kg)	93.00
Incoterms	FCA	Price 1	1-99 units: 1,033 €
Year of base price	2020		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/RF03.4 Applicable PQS VP(s): E003/RF03-VP.3		

VERIFICATION

Verification Report Reference	12057110OMKS-002a amended
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PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	VLS 404Ae AC
IMD-PQS Code:	E003-112e
Status:	Prequalified
Date of acceptance:	10 Feb 2019
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 404Ae AC
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	Hold over time (hours:mn)	62.47
External dimensions length (mm)	700.00	External dimensions width (mm)	1270.00
External dimensions height (mm)	860.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
Lining	Ice-lined	Energy Consumption Cool Down (kWh/24h)	0.6900
Energy Consumption Continuous Power (kWh/24h)	0.6700		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	145.000	Refrigerator's gross volume (Litres)	235.000
Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	1.00

Comments	APPROVED EMS LEVEL 2 Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable. Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc. VLS 404A AC model is supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection in line with E007/VS01-VP.5 For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5" touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 90L - 150L
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List of accessories	4 x Vaccine storage top basket; 3 x Vaccine bottom basket; 1 x Bottom grating; 1 x Voltage stabilizer; 1 x 30 day electronic temperature logger; 1 x Holder for temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 X Compressor (HXK80AT Complete) - Part No.8-036510018 1 X Thermostat Dixell XR30CH - Part No. 702090042 1 X Thermometer, solar, Part No.7020392-03 1 X Voltage stabilizer controller Part No. 7020475 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.02	Shipping weight (kg)	126.00
Incoterms	FCA	Price 1	1-99 units: 1,231 €
Price 2	100-199 units: 1030 €	Year of base price	2020

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008
Specification Reference	Applicable PQS specification: E003/RF03.4 Applicable PQS VP(s): E003/RF03-VP.3		

VERIFICATION

Verification Report Reference	A66543 - amended
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PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	VLS 504Ae AC
IMD-PQS Code:	E003-113e
Status:	Prequalified
Date of acceptance:	10 Feb 2019
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 504Ae AC
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	Hold over time (hours:mn)	55:16
External dimensions length (mm)	700.00	External dimensions width (mm)	1563.00
External dimensions height (mm)	845.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional;Electric Mains 115/60Hz
Lining	Ice-lined	Energy Consumption Intermittent Power (kWh/24h)	0.5910
Energy Consumption Continuous Power (kWh/24h)	0.6380		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	242.000	Refrigerator's gross volume (Litres)	314.000
Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	1.00

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A
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Comments	APPROVED EMS LEVEL 2 Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable. Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc. VLS 504A AC model is supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection in line with E007/VS01-VP.5 For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5" touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. PQS number: E003/113 EnergyConsump.IntermittentPower(kWh/24h): 1.3520.591 EnergyConsump.ContinuousPower(kWh/24h): 0.638		
List of accessories	6 x Vaccine storage top basket; 4 x Vaccine bottom basket; 1 x Bottom grating; 1 x Voltage stabilizer; 1 x 30 day electronic temperature logger; 1 x Holder for temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate		
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 X Compressor (HXK12AT Complete) - Part No. 8-03606510309 1 X Thermostat Dixell XR30CH - Part No. 702090042 1 X Thermometer, solar, Part No.7020392-03 1 X Voltage stabilizer controller Part No. 7020475 Other parts are available as spares on request.		
PRICE AND SHIPPING			
Shipping volume (m3)	1.16	Shipping weight (kg)	150.00
Incoterms	EXW	Price 1	1 – 99 units:
Year of base price	2018		
QUALITY STANDARD			
Quality Standard	Other	Quality standard (Other)	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/RF03.4 Applicable PQS VP(s): E003/RF03-VP.4		
VERIFICATION			
Verification Laboratory	0013X00004MI8OcQAJ	Verification Report Reference	300-KLAB-17-179
PRODUCT SITES			
Organization name	Vestfrost Solutions		
Address	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark		
Current PQS status:	Prequalified	Valid until:	31 May 2027

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



E003: Refrigerators and freezers



Product name:	HBC-120
IMD-PQS Code:	E003-114e
Status:	Prequalified
Date of acceptance:	06 Sep 2020
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBC-120
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	External dimensions length (mm)	1425.00
External dimensions width (mm)	829.00	External dimensions height (mm)	890.00
Performance at" (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz	Lining	Ice-lined
Energy Consumption Intermittent Power (kWh/24h)	0.2500	Energy Consumption Cool Down (kWh/24h)	0.3500
Energy Consumption Continuous Power (kWh/24h)	0.4000		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	100.000	Refrigerator's gross volume (Litres)	120.000
Autonomy (hrs:mn)	128.48	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	1.00		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A
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Comments	APPROVED EMS LEVEL 3 Optional: Remote temperature monitoring device (Price not include: Voltage regulator); Range of holdover time: 101 - 250 hours Range vaccine storage capacity: 90L - 150L
List of accessories	Keys, Handle component, 30 days Data logger
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor-0060705994A 1 No. Fan 0274000542 1 No. Thermostat 0274000352A 1 No. Dry filter Part-0074180002A 1 No. Switch 0075050003 2 No. Indicator 0075050018 2 No. Displayer 0274000357 2 No. overload protector 0274300008B 1 No. Thermo sensor-0274000353 1 No. Thermo sensor-0274000358 1 No. Sticker-0270501015A Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.44	Shipping weight (kg)	160.00
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Incoterms	EXW	Price 1	1-100units USD 1800
Price 2	>100units USD 1785	Year of base price	2021
QUALITY STANDARD			
Quality Standard	Other	Quality standard (Other)	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/RF03.4 Applicable PQS VP(s): E003/RF03-VP.3		
VERIFICATION			
Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-19-473		
PRODUCT SITES			
Organization name	Qingdao Haier Biomedical Co., Ltd		
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China		
Current PQS status:	Prequalified	Valid until:	31 May 2027

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



E003: Refrigerators and freezers



Product name:	HBC-240
IMD-PQS Code:	E003-115e
Status:	Prequalified
Date of acceptance:	06 Sep 2020
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBC-240
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	Hold over time (hours:mn)	87:14
External dimensions length (mm)	1820.00	External dimensions width (mm)	829.00
External dimensions height (mm)	890.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Electric Mains 220-240V 50/60Hz
Lining	Ice-lined	Energy Consumption Intermittent Power (kWh/24h)	0.4000
Energy Consumption Cool Down (kWh/24h)	0.4000	Energy Consumption Continuous Power (kWh/24h)	0.4400

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	200.000	Refrigerator's gross volume (Litres)	240.000
Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	1.00

Comments	APPROVED EMS LEVEL 3 Optional: Remote temperature monitoring device Keys, Handle component, 30 days Data logger (Price does not include: Voltage regulator); Range vaccine storage capacity: 150L - 220L
List of accessories	Optional: Remote temperature monitoring device
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor - Part No. 0060705994A 1 No. Fan - Part No. 0274000542 1 No. Thermostat -Part No. 0274000352A 1 No. Dry filter - Part No. 0074180002A 1 No. Switch - Part No. 0075050003 2 No. Indicator -Part No. 0075050018 2 No. Displayer - Part No. 0274000357 2 No. overload protector - Part No. 0274300008B 1 No. Thermo sensor - Part No. 0274000353 1 No. Thermo sensor - Part No. 0274000358 1 No. Sticker - Part No. 0270501015A Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.8	Shipping weight (kg)	186.00
Incoterms	EXW	Price 1	1-100units USD 2000
Price 2	>100units USD 1890	Year of base price	2021

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/RF03.4 Applicable PQS VP(s): E003/RF03-VP.3		

VERIFICATION

Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-19-356		

PRODUCT SITES

Organization name	Qingdao Haier Biomedical Co., Ltd		
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China		
Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</i>

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



E003: Refrigerators and freezers



Product name:	HTC-120-SDD
IMD-PQS Code:	E003-116e
Status:	Prequalified
Date of acceptance:	06 Sep 2020
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTC-120-SDD
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Minimum rated ambient temperature (°C)	5.00	Freeze protection	Grade A
External dimensions length (mm)	1425.00	External dimensions width (mm)	825.00
External dimensions height (mm)	865.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - absorption	Energy source	Solar direct drive
Lining	Ice-lined	Energy Consumption Intermittent Power (kWh/24h)	0.4400
Energy Consumption Cool Down (kWh/24h)	0.4800		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	100.000	Refrigerator's gross volume (Litres)	120.000
Autonomy (hrs:mn)	112.24	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A
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Comments	APPROVED EMS LEVEL 3 Optional: Remote temperature monitoring device
List of accessories	Keys, Handle component, 30 days Data logger
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Display - Part No. 0274000357 1 No. Indicator - Part No. 0074000574 1 No. Fan Set - Part No.0274000351 1 No. Compressor BD-35K - Part No. 0274000118A 1 No. Compressor controller (E-Box) - Part No. 0274000118FJ 1 No. Thermostat - Part No. 0274000352 1 No. Main Switch - Part No. 0274000354B 1 No. USB charging port - Part No. 0274000389 1 No. Dry filter - Part No. 0074180002A 1 No. Thermo sensor - Part No. 0274000353 1 No. Thermo sensor - Part No. 0274000358 2 No. Sticker - Part No. 0270501015A Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.44	Shipping weight (kg)	160.00
Incoterms	EXW	Price 1	1-100units USD 3628

Price 2	>100units USD 3550	Year of base price	2021
QUALITY STANDARD			
Quality Standard	Other	Quality standard (Other)	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/RF05.5 Applicable PQS VP(s): E003/RF05-VP.4		
VERIFICATION			
Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-19-474		
PRODUCT SITES			
Organization name	Qingdao Haier Biomedical Co., Ltd		
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China		
Current PQS status:	Prequalified	Valid until:	31 May 2027

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



E003: Refrigerators and freezers



Product name:	HTC-240-SDD
IMD-PQS Code:	E003-117e
Status:	Prequalified
Date of acceptance:	06 Sep 2020
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTC-240-SDD
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	External dimensions length (mm)	1815.00
External dimensions width (mm)	825.00	External dimensions height (mm)	865.00
Performance at" (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	Solar direct drive	Lining	Ice-lined
Energy Consumption Intermittent Power (kWh/24h)	0.3500	Energy Consumption Cool Down (kWh/24h)	0.5400

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	200.000	Refrigerator's gross volume (Litres)	240.000
Autonomy (hrs:mn)	95:23	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A
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Comments	APPROVED EMS LEVEL 3 Optional: Remote temperature monitoring device
List of accessories	Keys, Handle component, 30 days Data logger
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Display - Part No. 0274000357 1 No. Indicator - Part-0074000574 1 No. Fan Set - Part No.0274000351 1 No. Compressor BD-35K - Part No. 0274000118A 1 No. Compressor controller (E-Box) - Part No. 0274000118FJ 1 No. Thermostat - Part No. 0274000352 1 No. Main Switch - Part No. 0274000354B 1 No. USB charging port - Part No. 0274000389 1 No. Dry filter Part - Part No. 0074180002A 1 No. Thermo sensor - Part No. 0274000353 1 No. Thermo sensor - Part No. 0274000358 2 No. Sticker - Part No. 0270501015A Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.79	Shipping weight (kg)	185.00
Price 1	1-100units USD 4250	Price 2	>100units USD 4187
Year of base price	2021		

QUALITY STANDARD

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

VERIFICATION

Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-19-376		

PRODUCT SITES

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

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	ARKTEK YBC-10 SDD
IMD-PQS Code:	E003-118e
Status:	Prequalified
Date of acceptance:	20 Oct 2020
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Qingdao Aucma Global Medical Co.,Ltd.
Manufacturers Reference:	ARKTEK YBC-10 SDD
Country of Manufacture:	China
Address:	315 Qianwangang Road, Economic & Technological Development Zone, Qingdao Shandong China
Telephone:	+86 532 86763602
Email:	lishouda@aucma.com.cn
Website address:	www.aucmamedicalglobal.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Minimum rated ambient temperature (°C)	5.00	Freeze protection	Grade A
External dimensions width (mm)	52.80	External dimensions height (mm)	86.00
Appliance tested at (°C)	43.00	Performance at (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Solar direct drive
Lining	PCM	Energy Consumption Cool Down (kWh/24h)	0.3000
Energy Consumption Continuous Power (kWh/24h)	0.2400		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	10.000	Refrigerator's gross volume (Litres)	15.000
Autonomy (hrs:mn)	72:00	Solar radiation ref period (kWh/m2/day)	3.50

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Waterpack freezing capacity (Kg/24 hrs)	0.00	Waterpack storage capacity (Litres)	0.00
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Comments	APPROVED EMS LEVEL 1 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." Range of holdover time: 51 - 100 hours
List of accessories	6 vaccine stacks; documentation;
List of spare parts, Reference & Price	"Thermoelectric cooler 1 EA Electronic control board 1 SET"

PRICE AND SHIPPING

Incoterms	EXW	Price 1	\$3,550
Year of base price	2020		

QUALITY STANDARD

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

VERIFICATION

Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-19-369		

PRODUCT SITES

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

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	VLS 174Ae AC
IMD-PQS Code:	E003-120e
Status:	Prequalified
Date of acceptance:	27 Apr 2021
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 174Ae AC
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	Hold over time (hours:mn)	57:52
External dimensions length (mm)	550.00	External dimensions width (mm)	650.00
External dimensions height (mm)	950.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Electric Mains 115/60Hz; Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
Lining	Ice-lined	Energy Consumption Intermittent Power (kWh/24h)	0.4930
Energy Consumption Continuous Power (kWh/24h)	0.5040		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	38.000	Refrigerator's gross volume (Litres)	50.600
Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	1.00

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A
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Comments	APPROVED EMS LEVEL 2 Appliance requires only 4 hours electricity per 24 hours at +43°C Equipped with unique QR code, that can be used along Vestfrost Solutions Unit tracker APP, containing various installation/service features. Electric components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + Appliance power plug/cable. model is supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection in line with E007/VS01-VP.5 For 220-240V/50/60Hz, input voltage regulation range 110-278V/50/60Hz For 100-127V/50/60Hz, input voltage regulation range 82-159V/50/60Hz Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 25L - 60L
List of accessories	1 x Vaccine storage baskets; 1 x Bottom grating; 1 x 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 X Compressor (HXK80AT Complete) - Part No.8-0365100181 X Thermostat Dixell XR30CH - Part No. 7020900421 X Thermometer, solar, Part No.7020392-031 X Voltage stabilizer controller Part No. 7020475 Other parts are available as spares on request.
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PRICE AND SHIPPING

Shipping volume (m3)	0.63	Shipping weight (kg)	79.00
Incoterms	EXW	Year of base price	2021

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/RF03.7 Applicable PQS VP(s): E003/RF03-VP.5		

VERIFICATION

Verification Laboratory	Danish Technological Institute	Address	Gregersensvej DK-2630 Taastrup DanemarkDenmark
Telephone	+45 72202472	Email	hans.walloe@teknologisk.dk
Verification Report Reference	Refrigerator 300-KLAB-20-317		

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	IceVolt 300P
IMD-PQS Code:	E003-122e
Status:	Prequalified
Date of acceptance:	14 Jun 2021
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Coolfinity Commercial BV
Manufacturers Reference:	IceVolt 300P
Country of Manufacture:	Netherlands
Address:	Goeman Borgesiuslaan 77 Utrecht Netherlands
Telephone:	+31 85 066 23 64
Email:	maarten@coolfinity.com
Website address:	www.coolfinity.com
Valid until:	31 Mar 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	10.00
Freeze protection	Grade A	Hold over time (hours:mn)	25:00
External dimensions length (mm)	730.00	External dimensions width (mm)	670.00
External dimensions height (mm)	1999.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz; Electric Mains 115/60Hz	Lining	Ice-lined
Energy Consumption Intermittent Power (kWh/24h)	2.1900	Energy Consumption Cool Down (kWh/24h)	2.2100
Energy Consumption Continuous Power (kWh/24h)	2.9800		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	241.000	Refrigerator's gross volume (Litres)	318.000
Refrigerant type	R290		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A
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Comments	APPROVED EMS LEVEL 3 EMS compliant with Level 1, 2 and 3 options, partnering with My Fridge Online - Health Sentinel - HS1 (E006-104) a) The refrigerator has an integrated Sollatek voltage stabiliser as follows: 1. 220 – 240 Volt 50/60 Hz, integrated extended version, Sollatek FSPE4B-2 4.5A/6A 110V-285V 50/60Hz 2. 110 – 127 V 50/60 Hz , integrated extended version, Sollatek FSPE4B-1 4.5A/6A 82V-159V 50/60Hz b) The refrigerator has internal LED lighting that switches on when the door is opened. It also works during power outages. c) The refrigerator has a special glass door, that prevents condensation and fogging on the glass. d) Coolfinity refrigerators have a patented technology for the cooling system. e) The refrigerator requires clean drinking water during installation, please the contact manufacturer or watch the installation video online. f) This appliance was modified in November 2022. This modification consisted of a change of the controller. The appliance was retested and resulted in a slight change in the holdover time and energy consumption. The glass door includes a protective film that blocks >99% of UV light.
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List of accessories	Accessoires included: a) 5x baskets, b) Berlinger Fridge-Tag 2E (30 day temperature recorder), c) filling funnel, d) 2x keys for integrated door lock, e) instruction manual, f) wooden pallet, Optional Accessoires: a) 1x or 2x additional baskets, b) shelves (instead of baskets), c) Berlinger SmartMonitor SITE L, d) wooden crate (12 kg extra shipping weight), e) branding on the refrigerator sides, f) Large LED temperature display in top panel (7cm)
List of spare parts, Reference & Price	UNICEF Supply Division the spare parts kit consists of: Option 1 - 230V/60Hz Version 1 x Evaporator fan (article no. 987713) 1 x Controller (article no. 6114382) 1 x Battery charger (article no. 6114296) 1 x Voltage stabilizer control unit (article no. 6114365)

PRICE AND SHIPPING

Shipping volume (m3)	1.09	Shipping weight (kg)	190.00
Incoterms	FCA	Price 1	50 € 2580
Year of base price	2025		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/RF03.5 Applicable PQS VP(s): E003/RF03-VP.4		

VERIFICATION

Verification Laboratory	Danish Technological Institute	Address	Gregersensvej DK-2630 Taastrup DanemarkDenmark
Telephone	+45 72202472	Email	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-21-106		

PRODUCT SITES

Organization name	Coolfinity Commercial BV		
Address	Goeman Borgesiuslaan 77 Utrecht Netherlands		
Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 Mar 2027</i>

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



E003: Refrigerators and freezers



Product name:	U201
IMD-PQS Code:	E003-125
Status:	Prequalified
Date of acceptance:	25 Feb 2022
Appliance type:	E003
Product description:	Vaccine Freezer - Ultralow Temperature Storage
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	U201
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsistemas.com
Website address:	www.bmedicalsistemas.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	10.00
Hold over time (hours:mn)	1:48	External dimensions length (mm)	1039.00
External dimensions width (mm)	699.00	External dimensions height (mm)	1293.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	230V 50Hz (Option 220V 60Hz)
Energy Consumption Cool Down (kWh/24h)	27.6000	Energy Consumption Continuous Power (kWh/24h)	13.5000

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	143.000	Refrigerant type	R290/R170
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PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Ultra Low Temperature (ULT) freezer	Freezer net volume	143
Freezer's gross volume (Litres)	202.00	Waterpack freezing capacity (Kg/24 hrs)	0.00
Waterpack storage capacity (Litres)	0.00		

Comments	Set temperature (setting range): -86°C to -20°C. Defrosting technique: Manual. Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the freezer has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 years. For more information and further conditions of warranty, please contact B Medical Systems. Holdover time: 1h10mins from -82°C to -60°C Second Freezer with vaccine storage capacity: 202 L
List of accessories	1 Separate interior door 1 ST-shelf 4 Smooth castors with stabilizers 1 RTMD (Integrated remote temperature-monitoring device) °B Connected Monitoring Software

List of spare parts, Reference & Price Included in the UNICEF Supply Division spare parts kit: 1 No. GASKET KIT – Part No. 294.3300.07; 1 No. DRIER – Part No. 296.0945.05; 1 No. COMPRESSOR NT2210U AC 230V/50HZ – Part No. 296.9701.58; 1 No. FAN MOTOR EBM – Part No. 296.9759.29; 1 No. PRESSOSTAT KP7EW – Part No. 296.9762.05; 1 No. CLIP-BOX SPARE PART COMPRESSOR – Part No. 292.8003.31
Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.2	Shipping weight (kg)	252.00
Incoterms	EXW	Price 1	11,398 €
Year of base price	2026		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	Quality standard (Other)	ISO 9001:2015; ISO 14001:2015
Specification Reference	Applicable PQS specification: E003/ULT01.1 Applicable PQS VP(s): E003/ULT01-VP.1		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	Address	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	Email	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 21-04		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei Hosingen Luxemburg Luxembourg

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	HBD-86
IMD-PQS Code:	E003-126
Status:	Prequalified
Date of acceptance:	07 Jul 2022
Appliance type:	E003
Product description:	Other
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBD-86
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	0.00
Hold over time (hours:mn)	7:19	External dimensions length (mm)	872.00
External dimensions width (mm)	717.00	External dimensions height (mm)	788.00
Performance at" (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz	Lining	Regular
Energy Consumption Cool Down (kWh/24h)	0.9800	Energy Consumption Continuous Power (kWh/24h)	0.9500

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	61.000	Refrigerant type	R600a
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PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	Freezer's gross volume (Litres)	86.00
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Comments	Optional: Remote temperature monitoring device 1. Display: Solar LED Temperature Display 2. Low power consumption Freezer net volume: 50 - 110 L
List of accessories	1. Instructions 2. Key 3. Handle component 4. Basket 5. Alcohol thermometer 6. 30 days temperature logger
List of spare parts, Reference & Price	"1 No. Dry filter Part-0074180001 2 No. overload protector 0274300008B 1 No. Switch 0075050003 1 No. Thermo sensor-0274000357A 1 No. Thermostat with sensor 0274000352A 1 No. Compressor-0060705994A 1 No. Fan 0074000172 2 No. Indicator 0075050018 2 No. Displayer 0274000357 1 No. Sticker-0270501015B"

PRICE AND SHIPPING

Shipping volume (m3)	0.71	Shipping weight (kg)	90.00
Incoterms	EXW	Price 1	\$977 including 30 DTR
Year of base price	2022		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/FZ01.2 Applicable PQS VP(s): E003/FZ01-VP.2		
VERIFICATION			
Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-21-0193		
PRODUCT SITES			
Organization name	Qingdao Haier Biomedical Co., Ltd		
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China		
Current PQS status:	Prequalified	Valid until:	31 May 2027

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



E003: Refrigerators and freezers



Product name:	VFW140H-HC
IMD-PQS Code:	E003-127
Status:	Prequalified
Date of acceptance:	07 Jul 2022
Appliance type:	E003
Product description:	Other
Manufacturer:	Western Refrigeration Private Limited
Manufacturers Reference:	VFW140H-HC
Country of Manufacture:	India
Address:	7/B, Pannalal Silk Mill Compound, L.B.S. Marg, Bhandup (West), Mumbai Maharashtra India
Telephone:	+91 22 - 67161200
Email:	paresh@westernequipments.com
Website address:	https://www.westernequipments.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Hold over time (hours:mn)	3:33	External dimensions length (mm)	720.00
External dimensions width (mm)	710.00	External dimensions height (mm)	955.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	220-240V 50Hz
Lining	Foam Cabinet	Energy Consumption Cool Down (kWh/24h)	2.0600
Energy Consumption Continuous Power (kWh/24h)	1.9400		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	68.000	Refrigerant type	R290
Solar radiation ref period (kWh/m2/day)	1.00		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	Freezer's gross volume (Litres)	142.00
Waterpack freezing capacity (Kg/24 hrs)	16.20	Waterpack storage capacity (Litres)	72.50

List of accessories	4 Baskets, keys, Steam Alcohol Thermometer (Optional), Instruction Manual		
List of spare parts, Reference & Price	1 No Compressor, 1 No Condensor Fan, 1 No Digital Controller, 1 No Battery for Digital controller, 1 No Transformer for Digital controller, 1 No 2 Pole ON/ OFF switch, 1 No Steam Alcohol Thermometer, 1 No Application Sensor, 1 No Drier and Other parts are available as spares on request.		

PRICE AND SHIPPING

Shipping volume (m3)	0.6	Shipping weight (kg)	60.00
Incoterms	EXW	Price 1	1 to 99 Units - 635 USD

Price 2	100 to 200 Units- 540 USD	Year of base price	2022
QUALITY STANDARD			
Quality Standard	Other	Quality standard (Other)	ISO 9001:2015
Specification Reference	Applicable PQS specification: E003/FZ02.2 Applicable PQS VP(s): E003/FZ02-VP.2		
VERIFICATION			
Verification Laboratory	UL India Private Limited	Address	A-12, Infocity-1, Sector-34, Gurgaon (Haryana)-122001India
Telephone	+91-8130427334	Email	satish.kumar@ul.com
Verification Report Reference	4789971136-01-OTHERS-S1-R1		
PRODUCT SITES			
Organization name	Western Refrigeration Private Limited		
Address	Survey No 633, 635, 636, 647, 654, 707, 726, 732, 741, 747, 748, and 752 At. Village Tadgam, Tal. Umbergaon, Dist., . Valsad Gujarat India		
Current PQS status:	Prequalified	Valid until:	31 May 2027

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



E003: Refrigerators and freezers



Product name:	VFW310H-HC
IMD-PQS Code:	E003-128
Status:	Prequalified
Date of acceptance:	07 Jul 2022
Appliance type:	E003
Product description:	Other
Manufacturer:	Western Refrigeration Private Limited
Manufacturers Reference:	VFW310H-HC
Country of Manufacture:	India
Address:	7/B, Pannalal Silk Mill Compound, L.B.S. Marg, Bhandup (West), Mumbai Maharashtra India
Telephone:	+91 22 - 67161200
Email:	paresh@westernequipments.com
Website address:	https://www.westernequipments.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Hold over time (hours:mn)	4:00	External dimensions length (mm)	720.00
External dimensions width (mm)	1230.00	External dimensions height (mm)	965.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Electric Mains 220-240V 50Hz
Lining	Foam Cabinet	Energy Consumption Cool Down (kWh/24h)	2.3200
Energy Consumption Continuous Power (kWh/24h)	2.2700		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	166.000	Refrigerant type	R290
Solar radiation ref period (kWh/m2/day)	1.00		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Low energy compression	Freezer's gross volume (Litres)	317.00
Waterpack freezing capacity (Kg/24 hrs)	28.20	Waterpack storage capacity (Litres)	203.00

Comments	Holdover time: 4 hours
List of accessories	8 Baskets, keys, Steam Alcohol Thermometer (Optional), Instruction Manual
List of spare parts, Reference & Price	1 No Compressor, 1 Condensor motor, 1 No Digital Controller, 1 No Battery for Digital controller, 1 No Transformer for Digital controller, 1 No 2 Pole ON/ OFF switch, 1 No Steam Alcohol Thermometer, 1 No Application Sensor, 1 No Drier and Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.03	Shipping weight (kg)	91.00
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Incoterms	EXW	Price 1	1 to 99 Units - 775 USD
Price 2	100 to 200 Units- 685 USD	Year of base price	2022
QUALITY STANDARD			
Quality Standard	Other	Quality standard (Other)	ISO 9001:2015
Specification Reference	Applicable PQS specification: E003/FZ02.2 Applicable PQS VP(s): E003/FZ02-VP.2		
VERIFICATION			
Verification Laboratory	UL India Private Limited	Address	A-12, Infocity-1, Sector-34, Gurgaon (Haryana)-122001India
Telephone	+91-8130427334	Email	satish.kumar@ul.com
Verification Report Reference	4789971136-01-OTHERS-S2-R1		
PRODUCT SITES			
Organization name	Western Refrigeration Private Limited		
Address	Survey No 633, 635, 636, 647, 654, 707, 726, 732, 741, 747, 748, and 752 At. Village Tadgam, Tal. Umbergaon, Dist., . Valsad Gujarat India		
Current PQS status:	Prequalified	Valid until:	31 May 2027

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



E003: Refrigerators and freezers



Product name:	TCD-100
IMD-PQS Code:	E003-129e
Status:	Prequalified
Date of acceptance:	14 Sep 2022
Appliance type:	E003
Product description:	Solar direct drive combined refrigerator/freezer
Manufacturer:	Qingdao Aucma Global Medical Co.,Ltd.
Manufacturers Reference:	TCD-100
Country of Manufacture:	China
Address:	315 Qianwangang Road, Economic & Technological Development Zone, Qingdao Shandong China
Telephone:	+86 532 86763602
Email:	lishouda@aucma.com.cn
Website address:	www.aucmamedicalglobal.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	External dimensions length (mm)	750.00
External dimensions width (mm)	1050.00	External dimensions height (mm)	975.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Lining	Ice-lined
Energy Consumption During Freezing (kWh/24h)	1.9950	Energy Consumption Cool Down (kWh/24h)	1.2060
Energy Consumption Continuous Power (kWh/24h)	1.4100		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	48.000	Refrigerator's gross volume (Litres)	59.000
Autonomy (hrs:mn)	180	Refrigerant type	R290
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer's gross volume (Litres)	38.00	Waterpack freezing capacity (Kg/24 hrs)	2.00
Waterpack storage capacity (Litres)	10.70		

Comments	APPROVED EMS LEVEL 3 Default EMS: Beyond EMS Levels 2&3 Device (PQS-prequalified E006-036e) Alternative EMS: AOHUI-E1001 (PQS-prequalified integrated EMD, Level 2) 1. 48-liter vaccine storage chamber volume; 38-liter water pack freezer chamber volume; 2. Integrated USB temperature data module with 10 year data storage capacity; 3. 180 hours of holdover at constant ambient temperature of 43 °C; 4. 2.0kg daily Water-pack freezing capacity, 10.7kg water-pack storage compartment capacity; 5. 180 hours autonomy at constant ambient temperature of 43 °C; 6. Integrated maximum/minimum temperature and alarm data with 30 day history; 7. Integrated USB charging port 5V / 0.5A;
List of accessories	1. 2 Vaccine boxes 2. 2 Keys 3. 1 Funnel 4. Documentation 5. 2 baskets

List of spare parts, Reference & Price	3000001485 Compressor 283 USD 3000002307 DC fan 26 USD 3001000717 Electronic control unit 68 USD"
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PRICE AND SHIPPING

Shipping volume (m3)	1.62	Shipping weight (kg)	260.00
Incoterms	EXW	Year of base price	2022

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2015
Specification Reference	Applicable PQS specification: E003/RF05.6 Applicable PQS VP(s): E004/RF05-VP.5		

VERIFICATION

Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-21-0332		

PRODUCT SITES

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

Current PQS status:	Prequalified	Valid until:	31 May 2027
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



E003: Refrigerators and freezers



Product name:	GMF 200 ECO lite
IMD-PQS Code:	E003-130
Status:	Prequalified
Date of acceptance:	10 May 2022
Appliance type:	E003
Product description:	Other
Manufacturer:	Godrej & Boyce Manufacturing Company Limited
Manufacturers Reference:	GMF 200 ECO lite
Country of Manufacture:	India
Address:	Plant 11, Pirojshanagar, Vikhroli Mumbai Maharashtra India
Telephone:	+91 22 67966346
Email:	medicalref@godrej.com
Website address:	http://www.godrejappliances/medical
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Hold over time (hours:mn)	9:49
External dimensions length (mm)	850.00	External dimensions width (mm)	825.00
External dimensions height (mm)	762.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Electric Mains 220-240V 50/60Hz
Lining	PCM	Energy Consumption Cool Down (kWh/24h)	4.2100
Energy Consumption Continuous Power (kWh/24h)	4.1300		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	153.000	Refrigerant type	R290
Solar radiation ref period (kWh/m2/day)	0.00		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	N/A	Waterpack freezing capacity (Kg/24 hrs)	16.80
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Comments	Waterpack freezing capacity: 16.8kg/24hou Waterpack storage capacity: 130.8kg
List of accessories	3 baskets, lock and key, Fridge Tag 2E with external sensor, Solar Display Thermometer, Voltage Stabilizer (110V-280V) Optional (charged extra): RTMD (E006-036)
List of spare parts, Reference & Price	1) Compressor 2) Electronic Controller 3) Condenser 4) Fan Motor 5) Capacitor

PRICE AND SHIPPING

Shipping volume (m3)	0.78	Shipping weight (kg)	95.00
Incoterms	EXW	Price 1	\$1000 (1-9 units)
Price 2	\$980 (10-99 units)	Year of base price	2023

QUALITY STANDARD

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

Verification Laboratory	Intertek India	Address	Intertek India Private Limited E-20, Block B1, Mohan Cooperative Industrial Estate Mathura Road New Delhi - 110044 IndiaIndia
Telephone	+91-9820213510	Email	manas.das@intertek.com

PRODUCT SITES

Organization name	Godrej & Boyce Manufacturing Company Limited		
Address	Plant 11, Pirojshanagar, Vikhroli Mumbai Maharashtra India		

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	HBD265
IMD-PQS Code:	E003-131e
Status:	Prequalified
Date of acceptance:	23 Mar 2023
Appliance type:	E003
Product description:	Combined icelined refrigerator/waterpacks freezer
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBD265
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 Mar 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	0.00
Hold over time (hours:mn)	11:25	External dimensions length (mm)	940.00
External dimensions width (mm)	717.00	External dimensions height (mm)	1647.00
Performance at" (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz	Energy Consumption During Freezing (kWh/24h)	1.4000
Energy Consumption Continuous Power (kWh/24h)	1.4200		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	211.000	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	1.00		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer's gross volume (Litres)	265.00
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Comments	Optional: Remote temperature monitoring device 1. Display: Solar LED Temperature Display 2. Low power consumption
List of accessories	1. Instructions 2. Key 3. Handle component 4. Basket 5. Alcohol thermometer 6. 30 days temperature logger
List of spare parts, Reference & Price	"1 No. Dry filter Part-0074180001 2 No. overload protector 0274300008B 1 No. Switch 0075050003 1 No. Thermo sensor-0274000357A 1 No. Thermostat with sensor 0274000352A 1 No. Compressor-0060705994A 1 No. Fan 0074000172 2 No. Indicator 0075050018 2 No. Displayer 0274000357 1 No. Sticker-0270501015B"

PRICE AND SHIPPING

Shipping volume (m3)	1.4	Shipping weight (kg)	160.00
Price 1	USD 1313	Year of base price	2023

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/FZ01.2 Applicable PQS VP(s): E003/FZ01-VP.2		
VERIFICATION			
Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-22-0203		
PRODUCT SITES			
Organization name	Qingdao Haier Biomedical Co., Ltd		
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China		
Current PQS status:	Prequalified	Valid until:	31 Mar 2027

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



E003: Refrigerators and freezers



Product name:	VLS 096Ae RF SDD
IMD-PQS Code:	E003-132e
Status:	Prequalified
Date of acceptance:	16 Mar 2023
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 096Ae RF SDD
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	Hold over time (hours:mn)	114,33
External dimensions length (mm)	740.00	External dimensions width (mm)	1510.00
External dimensions height (mm)	870.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Solar direct drive
Lining	Ice-lined	Energy Consumption During Freezing (kWh/24h)	1.4890
Energy Consumption Intermittent Power (kWh/24h)	1.3520	Energy Consumption Cool Down (kWh/24h)	1.3520
Energy Consumption Continuous Power (kWh/24h)	1.4100		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	110.000	Refrigerator's gross volume (Litres)	147.000
Autonomy (hrs:mn)	114.33	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer's gross volume (Litres)	50.00	Waterpack freezing capacity (Kg/24 hrs)	2.40
Waterpack storage capacity (Litres)	16.80		

Comments	APPROVED EMS LEVEL 2 Prices include Vestfrost Solutions SDD PV energy system, roof adjustable, plug & play; Unit equipped with unique QR code, that can be used along Vestfrost Solutions Unit tracker APP, containing various installation/service features. As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features: 1: 5" touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. Waterpack freezing capacity: 2.4 kg per/24h = 4 x 0.6 L Waterpacks per/24h Waterpack storage capacity: 28 x 0.6L
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List of accessories	2 X Vaccine storage top basket; Bottom grating; 30 day electronic temperature logger; Self regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD 35K) Complete R600a Incl. ECU - Part No. 8-036510223 1 No. Thermostat refrigerator - Part No. 7095714 1 No. Thermostat freezer – Part No. 7095715 1 No. Fan Set (KD1208PTB3) 12 V DC Part No. 7030823 1 No. Thermometer, solar, Part No.7020392-03 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.31	Shipping weight (kg)	190.00
Incoterms	EXW	Price 1	6.485 EUR
Year of base price	2023		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/RF05.6 Applicable PQS VP(s): E004/RF05-VP.5		

VERIFICATION

Verification Laboratory	Danish Technological Institute	Address	Gregersensvej DK-2630 Taastrup DanemarkDenmark
Telephone	+45 72202472	Email	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-22-106		

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	Emvolio Plus
IMD-PQS Code:	E003-134
Status:	Prequalified
Date of acceptance:	26 Sep 2023
Appliance type:	E003
Product description:	Other
Manufacturer:	BlackFrog Technologies Private Limited
Manufacturers Reference:	Emvolio Plus
Country of Manufacture:	India
Address:	#4, 4th Floor, Advanced Research Center, Behind MMMC, Madhav Nagar, Manipal Udupi Karnataka India
Telephone:	+918202572478
Email:	sales@blackfrog.in
Website address:	http://blackfrog.in/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	10.00
Freeze protection	Grade A	Hold over time (hours:mn)	12
External dimensions length (mm)	300.00	External dimensions width (mm)	200.00
External dimensions height (mm)	410.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Fuel and refrigeration cycle	Electric- Thermoelectric
Energy source	110-240V 50/60Hz	Lining	Stainless Steel 304 Vacuum Lining
Energy Consumption Cool Down (kWh/24h)	0.9000	Energy Consumption Continuous Power (kWh/24h)	0.8400

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	1.550	Refrigerator's gross volume (Litres)	1.800
Refrigerant type	Cable		

Comments	AC use only. Emvolio is a portable battery-powered active cooled vaccine carrier with an in-built temperature control and regulation. The system is able to store and carry vaccines to remote locations with temperature accountability to retain vaccine effectiveness. a.) The refrigerator comes with a custom-designed backpack that can be easily worn by a health worker or even motorcycle mounted. b.) The refrigerator has an in-built GSM-based IoT system that tracks live vital statistics like temperatures (multiple sensors inside, ambient), location and door opening. This is available for access via an online dashboard that is provided free for the first year's use with the product, following which a yearly subscription charge will be levied for use. Customer supplies SIM card and SMS gateway services. c.) Battery Independence time: 12 HRS 18min
List of accessories	Included in price: - Multipurpose Backpack. - User Manual with warranty terms. - Reset Pin. - 150 W Charger/Adaptor. - Power cord. Optional(Charged extra): - Silicon vial-holder multi-stage (slot size to be determined by the user).
List of spare parts, Reference & Price	-Charger AC Cord Bag LED Panel Bottom Temperature Sensor Main Sealing Gasket M4X16mm Allen Screw M4x8mm Allen Screw M3X50mm Allen Screw M3x12mm CSK Phillips M3x8mm CSK Phillips M3x6mm CSK Phillips M3X6mm Allen Screw M2.5x16mm Self Tapping Screw

PRICE AND SHIPPING

Shipping volume (m3)	0.719	Shipping weight (kg)	11.00
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Incoterms	EXW	Price 1	USD 2500 for 1-100 units
Price 2	USD 2400 for 101-500 units	Price 3	USD 2250 for 500+ units
Year of base price	2023		
QUALITY STANDARD			
Quality Standard	ISO 13485;Other	Quality standard (Other)	ISO 9001:2015
Specification Reference	Applicable PQS specification:E003/TS01.1 Applicable PQS VP(s): E003/TS01-VP.1		
VERIFICATION			
Verification Laboratory	Intertek India	Address	Intertek India Private Limited E-20, Block B1, Mohan Cooperative Industrial Estate Mathura Road New Delhi - 110044 IndiaIndia
Telephone	+91-9820213510	Email	manas.das@intertek.com
Verification Report Reference	CE-JOB-NDA-22-000949-001		
PRODUCT SITES			
Organization name	BlackFrog Technologies Private Limited		
Address	#4, 4th Floor, Advanced Research Center, Behind MMMC, Madhav Nagar, Manipal Udupi Karnataka India		
Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</i>

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



E003: Refrigerators and freezers



Product name:	HTCD-160B
IMD-PQS Code:	E003-135e
Status:	Prequalified
Date of acceptance:	20 Nov 2023
Appliance type:	E003
Product description:	Solar direct drive combined refrigerator/freezer
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTCD-160B
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Freeze protection	Grade A	External dimensions length (mm)	865.00
External dimensions width (mm)	825.00	External dimensions height (mm)	1695.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Energy source	Solar direct drive		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator's gross volume (Litres)	40.000	Autonomy (hrs:mn)	139
Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	3.50

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Waterpack freezing capacity (Kg/24 hrs)	2.00	Waterpack storage capacity (Litres)	22.40
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Comments	APPROVED EMS LEVEL 3 "1. Display: Solar LED Temperature Display 2. Low power consumption" For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex Energy consumption, cool 1.1 Energy consumption during and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier down test (kWh/24 hours): freezing: of the solar energy system at the time of ordering. Optional: Remote temperature monitoring device
List of accessories	2 shelves; 2 padlocks; Instruction manual; Water injection device; Water preservative
List of spare parts, Reference & Price	"2 No. Display-0274000357 1 No. Thermostat-0274000352 1 No. Fan Set Part-0274000351 1 No. Compressor BD-35K-0274000118A 1 No. Main Switch-0274000354B 1 No. Capacitor-0274000393 1 No. USB charging port-0274000389 2 No. Dry filter Part-0060703262 1 No. Thermo sensor-0274000358 1 No. Thermo sensor-0274000357A 1 No. Thermo sensor-0274000353 2 No. Sticker-0270501015 2 No. Indicator Part-0074000574 1 No. Compressor controller (E-Box) Part-0274000118FJ"

PRICE AND SHIPPING

Shipping volume (m3)	1.69	Shipping weight (kg)	186.00
Year of base price	2023		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008
Specification Reference	Applicable PQS specification: E003/RF05.6 Applicable PQS VP(s): E004/RF05-VP.5		

VERIFICATION

Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-23-0101		

PRODUCT SITES

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

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	GHR 200 AC
IMD-PQS Code:	E003-136e
Status:	Prequalified
Date of acceptance:	06 Dec 2023
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Godrej & Boyce Manufacturing Company Limited
Manufacturers Reference:	GHR 200 AC
Country of Manufacture:	India
Address:	Plant 11, Pirojshanagar, Vikhroli Mumbai Maharashtra India
Telephone:	+91 22 67966346
Email:	medicalref@godrej.com
Website address:	http://www.godrejappliances/medical
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	10.00
Freeze protection	Grade A	Hold over time (hours:mn)	34.59
External dimensions length (mm)	846.00	External dimensions width (mm)	1260.00
External dimensions height (mm)	847.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - Compression	Energy source	Electric Mains 220-240V 50/60Hz
Lining	PCM	Energy Consumption Continuous Power (kWh/24h)	1.6700

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	226.400	Refrigerator's gross volume (Litres)	287.000
Refrigerant type	R290		

Comments	APPROVED FOR EMS LEVEL 3
List of accessories	List of Accessories: Wire Baskets with Covers, Handle with lock and key, Castors, 1KVA Integrated Voltage Stabilizer (110V-265V) complies with E007/VS01-VP.6, EMS Level 1, Level 2(Included with Price) and Level 3(Optional) that complies with WHO/PQS/E006/EM01-VP.1 " and " WHO/PQS /E006/DL01-VP.2 standards.
List of spare parts, Reference & Price	1) Compressor 2) Electronic Controller 3) Condenser 4) Fan Motor 5) Capacitor

PRICE AND SHIPPING

Shipping volume (m3)	1.25	Shipping weight (kg)	158.00
Incoterms	EXW	Price 1	Price 1 (Range 1-99 units) - USD1900
Price 2	Price 2 (Range 100-199 units) - USD1895	Price 3	Price 3 (Range 200+ units) - USD1890
Year of base price	2023		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008
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Specification Reference	Applicable PQS specification: E003/RF02.3 Applicable PQS VP(s): E003/RF02-VP.3		
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VERIFICATION

Verification Laboratory	Intertek India	Address	Intertek India Private Limited E-20, Block B1, Mohan Cooperative Industrial Estate Mathura Road New Delhi - 110044 IndiaIndia
Telephone	+91-9820213510	Email	manas.das@intertek.com
Verification Report Reference	CE-JOB-NDA-23-000594-004		

PRODUCT SITES

Organization name	Godrej & Boyce Manufacturing Company Limited		
Address	Plant 11, Pirojshanagar, Vikhroli Mumbai Maharashtra India		
Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</i>

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



E003: Refrigerators and freezers



Product name:	GHR 90 AC
IMD-PQS Code:	E003-137e
Status:	Prequalified
Date of acceptance:	15 Dec 2023
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Godrej & Boyce Manufacturing Company Limited
Manufacturers Reference:	GHR 90 AC
Country of Manufacture:	India
Address:	Plant 11, Pirojshanagar, Vikhroli Mumbai Maharashtra India
Telephone:	+91 22 67966346
Email:	medicalref@godrej.com
Website address:	http://www.godrejappliances/medical
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	10.00
Freeze protection	Grade A	Hold over time (hours:mn)	25:57
External dimensions length (mm)	846.00	External dimensions width (mm)	762.00
External dimensions height (mm)	847.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz	Lining	PCM
Energy Consumption Continuous Power (kWh/24h)	1.6400		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	103.500	Refrigerator's gross volume (Litres)	136.000
Refrigerant type	R290		

Comments	APPROVED FOR EMS LEVEL 3
List of accessories	List of Accessories: Wire Baskets with Covers, Handle with lock and key, Castors, 1KVA Integrated Voltage Stabilizer (110V-265V) complies with E007/VS01-VP.6, EMS Level 1, Level 2(Included with Price) and Level 3(Optional) that complies with WHO/PQS/E006/EM01-VP.1 " and " WHO/PQS /E006/DL01-VP.2 standards.
List of spare parts, Reference & Price	1) Compressor 2) Electronic Controller 3) Condenser 4) Fan Motor 5) Capacitor

PRICE AND SHIPPING

Shipping volume (m3)	0.78	Shipping weight (kg)	100.00
Incoterms	EXW	Price 1	USD 1775
Price 2	USD 1770	Price 3	USD 1765
Year of base price	2023		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008
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Specification Reference	Applicable PQS specification: E003/RF03.5 Applicable PQS VP(s): E003/RF03-VP.4		
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VERIFICATION

Verification Laboratory	Intertek India	Address	Intertek India Private Limited E-20, Block B1, Mohan Cooperative Industrial Estate Mathura Road New Delhi - 110044 IndiaIndia
Telephone	+91-9820213510	Email	manas.das@intertek.com
Verification Report Reference	CE-JOB-NDA-23-000594-004		

PRODUCT SITES

Organization name	Godrej & Boyce Manufacturing Company Limited		
Address	Plant 11, Pirojshanagar, Vikhroli Mumbai Maharashtra India		
Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</i>

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



E003: Refrigerators and freezers



Product name:	TVW 4000 AC
IMD-PQS Code:	E003-138
Status:	Prequalified
Date of acceptance:	16 Jan 2024
Appliance type:	E003
Product description:	Other
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TVW 4000 AC
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsistemas.com
Website address:	www.bmedicalsistemas.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Hold over time (hours:mn)	50:09	External dimensions length (mm)	780.00
External dimensions width (mm)	915.00	External dimensions height (mm)	1600.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Electric Mains 220-240V 50/60Hz
Lining	PCM	Energy Consumption During Freezing (kWh/24h)	4.4500
Energy Consumption Cool Down (kWh/24h)	4.0600	Energy Consumption Continuous Power (kWh/24h)	4.4500

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerant type	R290
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PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer's gross volume (Litres)	249.00	Waterpack freezing capacity (Kg/24 hrs)	36.40
Waterpack storage capacity (Litres)	252.00		

Comments	Optionally available: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to all requirements of the WHO PQS E006/TR03.2 except for the LCD display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 years. For more information and further conditions of warranty, please contact B Medical Systems. Optionally available in 115V/60Hz Optionally available with voltage stabilizer extended range. Waterpack freezing capacity 24KG / 15HRS
List of accessories	6 baskets, 2 keys, condenser cleaning brush, documentation
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 Controller TVW 4000 AC296.9769.93 1 Run Capacitor 296.9706.63 1 Fan 292.9960.18 1 Compressor 220-240V 296.9701.63 1 Sensor 296.9805.06 1 Starting Relay 296.9706.62 Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	1.39	Shipping weight (kg)	124.00
Incoterms	EXW	Price 1	For quantities between 1-39 pcs: 4,803 EUR EXW
Price 2	For quantities between 40-99 pcs: 4,585 EUR EXW	Price 3	For quantities above 100pcs: 4,377 EUR EXW
Year of base price	2026		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	Quality standard (Other)	ISO 9001:2015; ISO 140021:2015
Specification Reference	Applicable PQS specification: E003/FZ01.2 Applicable PQS VP(s): E003/FZ01-VP.2		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	Address	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	Email	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO23-02		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei Hosingen Luxemburg Luxembourg

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	GHR 150 AC
IMD-PQS Code:	E003-139e
Status:	Prequalified
Date of acceptance:	25 Jan 2024
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Godrej & Boyce Manufacturing Company Limited
Manufacturers Reference:	GHR 150 AC
Country of Manufacture:	India
Address:	Plant 11, Pirojshanagar, Vikhroli Mumbai Maharashtra India
Telephone:	+91 22 67966346
Email:	medicalref@godrej.com
Website address:	http://www.godrejappliances/medical
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	10.00
Freeze protection	Grade A	Hold over time (hours:mn)	40.22
External dimensions length (mm)	842.00	External dimensions width (mm)	845.00
External dimensions height (mm)	1010.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional	Lining	PCM
Energy Consumption Cool Down (kWh/24h)	1.6800	Energy Consumption Continuous Power (kWh/24h)	1.7700

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	164.500	Refrigerator's gross volume (Litres)	210.000
Refrigerant type	#R290		
Comments	APPROVED FOR EMS LEVEL 3		
List of accessories	List of Accessories: Wire Baskets with Covers, Handle with lock and key, Castors, 1KVA Integrated Voltage Stabilizer (110V-265V) complies with E007/VS01-VP.6, EMS Level 1, Level 2(Included with Price) and Level 3(Optional) that complies with WHO/PQS/E006/EM01-VP.1 " and " WHO/PQS /E006/DL01-VP.2 standards.		
List of spare parts, Reference & Price	1) Compressor 2) Electronic Controller 3) Condenser 4) Fan Motor 5) Capacitor		

PRICE AND SHIPPING

Shipping volume (m3)	1.02	Shipping weight (kg)	133.20
Incoterms	EXW	Price 1	USD 1850 (1-99 units)
Price 2	USD1845 (100 -199 units)	Price 3	USD 1840 (200+)
Year of base price	2026		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2008
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Specification Reference	Applicable PQS specification: E003/RF03.5 Applicable PQS VP(s): E003/RF04-VP.4		
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VERIFICATION

Verification Laboratory	Intertek India	Address	Intertek India Private Limited E-20, Block B1, Mohan Cooperative Industrial Estate Mathura Road New Delhi - 110044 IndiaIndia
Telephone	+91-9820213510	Email	manas.das@intertek.com
Verification Report Reference	CE-JOB-NDA-23-000594-003		

PRODUCT SITES

Organization name	Godrej & Boyce Manufacturing Company Limited		
Address	Plant 11, Pirojshanagar, Vikhroli Mumbai Maharashtra India		
Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</i>

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



E003: Refrigerators and freezers



Product name:	Indigo 201
IMD-PQS Code:	E003-140
Status:	Prequalified
Date of acceptance:	15 Jul 2024
Appliance type:	E003
Product description:	Other
Manufacturer:	EMK TEC GmbH
Manufacturers Reference:	Indigo 201
Country of Manufacture:	Germany
Address:	Fleckerweg 3 Allstedt Sachsen-Anhalt Germany
Telephone:	+49 (34652) 670207
Website address:	https://emk-tec.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	10.00
Freeze protection	Grade A	Hold over time (hours:mn)	120
External dimensions length (mm)	355.00	External dimensions width (mm)	482.50
External dimensions height (mm)	355.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Energy source	Electric Mains 220-240V 50/60Hz
Lining	Stainless steel vacuum insulation layer		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	1.700	Refrigerator's gross volume (Litres)	2.000
Refrigerant type	Water		

Comments	"There are two components in the Indigo system: the transportable 201 Vaccine Carrier and the stationary C1 Charger. The vaccine carrier has features and capabilities that extend the reach of immunization programs. • Extended cooling: Provides vaccine-safe storage temperatures for five days of continuous use at 10 to 43 °C ambient temperature, without external power. • Freeze-free: Prevents vaccine exposure to freezing temperatures without action from the user. • On/off switch: The five-day cold life of a charged vaccine carrier may be stored until needed. • Safe: Contains no harmful materials or refrigerants. • Portable: Transportable by car, motorcycle, or on foot. • Reusable and durable with two year warranty The charger restores the cooling capacity of the vaccine carrier after use. It is engineered to perform in the most challenging power environments. An operating range from 110VAC to 278VAC creates adaptability across infrastructures, while a suite of voltage stabilization features protects against damage and underperformance. For a single charge, the C1 Charger has a 4 hour charge cycle drawing 900 W for the first 2 hours and 100 W for the last 2 hours totaling 2 kWh of energy per charge. After the charge is complete the transportable Indigo Vaccine Carrier can be stored until ready for use and needs no additional power input to provide its five days of cold life. A single charger supports multiple vaccine carriers. Changes in geography, fuel cost, and staffing costs can drive the optimal carrier-to-charger ratio for a specific deployment as low as 4:1 or as high as 20:1. Sample weight is 8.8 kg. Visit www.indigocold.org to learn more. Shipping volume: Carrier: 0.08 m3; Charger 0.18m3 Shipping weight: 11 kg; Charger 34kg		
List of accessories	English/French manuals, No. 1 Phillips screwdriver, VaroTM OTG Adaptor		
List of spare parts, Reference & Price	For every 50 transportable vaccine carriers purchased, we recomend 1 set of vaccine carrier spare parts (cooler, lid, and bag).		

PRICE AND SHIPPING

Shipping volume (m3)	0.026	Shipping weight (kg)	45.00
Incoterms	EXW	Price 1	1 - 100: 1950 \$ Charger pricing: 3500 \$ regardless of quantity
Price 2	101 - 500: 1700 \$	Price 3	> 500: 1450 \$
Year of base price	2024		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2015
Specification Reference	Applicable PQS specification: E003/TS01.1 Applicable PQS VP(s): E003/TS01-VP.1		

VERIFICATION

Verification Laboratory	Re/Gent B.V	Address	Lage Dijk 22Netherlands
Telephone	+31492 476365	Email	patrick.beks@re-gent.nl
Verification Report Reference	22437/EK02/V1		

PRODUCT SITES

Organization name	EMK TEC GmbH		
Address	Fleckerweg 3 Allstedt Sachsen-Anhalt Germany		

Current PQS status:	Prequalified	Valid until:	31 May 2027
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



E003: Refrigerators and freezers



Product name:	SC-DF25P Deep FreezerP
IMD-PQS Code:	E003-141
Status:	Prequalified
Date of acceptance:	01 Oct 2024
Appliance type:	E003
Product description:	Other
Manufacturer:	Twinbird Corporation
Manufacturers Reference:	SC-DF25P Deep FreezerP
Country of Manufacture:	Japan
Address:	2084-2, Yoshida-Nishiota, Tsubame City Niigata Japan
Telephone:	+81 33663-8774
Email:	takeshi_suzuki@twinbird.co.jp
Website address:	https://www.twinbird.jp/fpsc_en/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	0.00
Hold over time (hours:mn)	78	External dimensions length (mm)	350.00
External dimensions width (mm)	460.00	External dimensions height (mm)	695.00
Performance at" (°C)	43.00	Fuel and refrigeration cycle	Stirling cooler(Helium gas compressor)
Energy source	110-240V 50/60Hz	Energy Consumption Continuous Power (kWh/24h)	1.0100

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	15.000	Refrigerator's gross volume (Litres)	15.000
Refrigerant type	Helium gas		
Comments	Stationary freezer, Light weight:16.5kg, Small size, Low power consumption, Recycled parts: Temperature logger(Temperature logger has an built-in battery.) Operate with E007 Single Phase Voltage Stabilizer.		
List of accessories	U-Cool:Temperature logger, U-Cool-1:Temp. logger Data cable, SC-AD70B:AC adapter, SC-AD70B-1:Power cable, SC-DF25P-1:Inner lid, SC-DF25-8:Mat, C-1572:Pad lock, SC-DF25P-155:Instruction manual,		
List of spare parts, Reference & Price	U-Cool:Temperature logger, U-Cool-1:Temp. logger Data cable, SC-AD70B:AC adapter, SC-AD70B-1:Power cable, SC-DF25M-1:Inner lid, SC-DF25-8:Mat, C-1572:Pad lock, SC-DF25P-155:Instruction manual, SC-C925-41:Lid packing inner, SC-C925-40:Lid packing outer, SC-C925-17:Air inlet Filter, C-30-MR6:Masking rivet,		

PRICE AND SHIPPING

Shipping volume (m3)	0.2	Shipping weight (kg)	22.00
Incoterms	EXW	Price 1	USD 2900
Year of base price	2024		

QUALITY STANDARD

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

Verification Laboratory	TUV SUD PSB Pte Ltd	Address	15 International Business Park TÜV SÜD @ IBP Singapore 609937Singapore
Telephone	+6569736355	Email	xin-pei.kee@tuvsud.com
Verification Report Reference	7191313298-EEC23		

PRODUCT SITES

Organization name	Twinbird Corporation
Address	2084-2, Yoshida-Nishiota, Tsubame City Niigata Japan

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	YC-125EW
IMD-PQS Code:	E003-142
Status:	Prequalified
Date of acceptance:	08 Sep 2025
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Zhongke Meiling Cryogenics Company Limited
Manufacturers Reference:	YC-125EW
Country of Manufacture:	China
Address:	No. 1862 Zishi Road Hefei Anhui China
Telephone:	+86 551 6431 7378
Email:	zkmeiling@zkmeiling.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Hold over time (hours:mn)	83:07	External dimensions length (mm)	929.00
External dimensions width (mm)	834.00	External dimensions height (mm)	966.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Electric mains 220-240//60-50Hz
Lining	Icelined	Energy Consumption Intermittent Power (kWh/24h)	0.7190
Energy Consumption Cool Down (kWh/24h)	0.7470	Energy Consumption Continuous Power (kWh/24h)	0.6840

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	95.000	Refrigerator's gross volume (Litres)	125.000
Refrigerant type	R600a		

Comments	APPROVED FOR EMS LEVEL 3 EMS compliant with 2 and 3 options, partnering with My FridgeOnline - HS1 (E006-104) 1. Prices include Single-phase voltage stabilizer, 30-day temperature recorder. 2. Standard with 2 universal castors with brakes and 2 fixed castors, convenient for movement and fixation. 3. Standard with 5 baskets for store vaccines/samples. 4. Cool storage unit do not need to inject or replenish water, more convenient to use. 5. Dual cooling system, dual reliability. 6. The appliance has a Equiplog Data Logger that complies with "WHO/PQS/E006/DL01" and "WHO/PQS/E006/DS01". 7. The appliance has 5V/1A interface and Type C interface. 8. RS485 2 wire port to connect with any MODBUS compliant slave. 9. Freeze protection: Grade A. 10. Optional: Humidity control plate. 11. We will be using the HS1 (E006-104) as an external EMD for EMS Level 2 and 3
List of accessories	(1) Operation manual (1) Certificate card (2) Key (10) Spare fuse

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 2 NO. Condenser-Part NO. 890379860 2 NO. Fan Motor-Part NO. 890279770 1 NO. Power switch-Part NO. 890370233 1 NO. AC to DC module-Part NO.890234244 1 NO. Control panel-Part NO. 890260742 1 NO. Display panel-Part NO. 890188313 1 NO. Solar display screen-Part NO. 890383792 2 NO. Indicator light(green)-Part NO. 890447241 1 NO. Fuse seat-Part NO. 890473151 2 NO. Compressor-Part NO. 890460490 2 NO. The filter-Part NO. 890348235 1 NO. Equiplog Data Logger-Part NO. 890467888 1 NO. Indicator light(red)-Part NO. 890473150 Other parts are available as spares on request. 1 NO. Fan Motor-Part NO. 890279770 (USD 9.8) 1 NO. AC to DC module-Part NO.890234244 (USD 23.6) 1 NO. Control panel-Part NO. 890260742 (USD 50.5) 1 NO. Display panel-Part NO. 890188313 (USD 14.8) 1 NO. Compressor-Part NO. 890460490 (USD 51.3) 1 NO. The filter-Part NO. 890348235 (USD 0.9) The prices of other spare parts can be provided on request.		
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PRICE AND SHIPPING

Shipping volume (m3)	1.009	Shipping weight (kg)	162.00
Incoterms	EXW	Price 1	1-10 UNITS: 1500 USD
Price 2	11-100 UNITS: 1450 USD	Price 3	?100 UNITS: on request to manufacturer
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	Quality standard (Other)	ISO 9001:2015; ISO 14001:2015; ISO 45001:2018
Specification Reference	Applicable PQS specification: E003/RF03.5 Applicable PQS VP(s): E003/RF03-VP.4		

VERIFICATION

Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-24-0186		

PRODUCT SITES

Organization name	Zhongke Meiling Cryogenics Company Limited
Address	No. 1862 Zishi Road Hefei Anhui China

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	TCW 3100 AC
IMD-PQS Code:	E003-143
Status:	Prequalified
Date of acceptance:	29 Sep 2025
Appliance type:	E003
Product description:	Other
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 3100 AC
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsistemas.com
Website address:	www.bmedicalsistemas.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Hold over time (hours:mn)	14:53	External dimensions length (mm)	780.00
External dimensions width (mm)	1280.00	External dimensions height (mm)	910.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Electric Mains 220-240V50/60Hz or 100-127V/60Hz with optionally integrated transformer
Lining	Ice	Energy Consumption Continuous Power (kWh/24h)	3.0900

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerant type	R290
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PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Vaccine	Freezer's gross volume (Litres)	204.00
Waterpack freezing capacity (Kg/24 hrs)	18.00	Waterpack storage capacity (Litres)	168.00

Comments	Note: this product has only been pre-qualified as a freezer. 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 freezer has a digital display). This RTMD is exclusively bundled to B Medical Systems freezers. Includes warranty for 3 years. For more information and further conditions of warranty, please contact B Medical Systems. Optionally available in 115V/60Hz Optionally available with Voltage Stabilizer Extended range. Waterpack freezing capacity 18.96 kg / 24 hours
List of accessories	5 baskets, 2 keys, documentation
List of spare parts, Reference & Price	Part Number / Description / QTY / Price 294.2959.90 Condenser Fan 1 € 104,09 296.9701.72 Compressor 1 € 303,05 296.0945.04 Filter dryer 1 € 3,66 296.9804.67 Sensor 1 € 15,68 396.9769.99 Cold Chain Controller 1 € 308,38 296.9769.91 DISPLAY BOARD 1 € 70,54

PRICE AND SHIPPING

Shipping volume (m3)	1.07	Shipping weight (kg)	168.00
Incoterms	EXW	Price 1	For quantities between 1-39 pcs: 3,640 EUR EXW
Price 2	For quantities between 40-99 pcs: 3,458 EUR EXW	Price 3	For quantities above 100pcs: 3,285 EUR EXW
Year of base price	2026		

QUALITY STANDARD

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

VERIFICATION

Verification Laboratory	Intertek India	Address	Intertek India Private Limited E-20, Block B1, Mohan Cooperative Industrial Estate Mathura Road New Delhi - 110044 IndiaIndia
Telephone	+91-9820213510	Email	manas.das@intertek.com
Verification Report Reference	CE-JOB-NDA-23-002589-001		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei Hosingen Luxemburg Luxembourg

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	TC-125WSDD
IMD-PQS Code:	E003-144
Status:	Prequalified
Date of acceptance:	24 Oct 2025
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	Zhongke Meiling Cryogenics Company Limited
Manufacturers Reference:	TC-125WSDD
Country of Manufacture:	China
Address:	No. 1862 Zishi Road Hefei Anhui China
Telephone:	+86 551 6431 7378
Email:	zkmeiling@zkmeiling.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Relative Humidity (Min)	5.00	Relative Humidity (Max)	95.00
Humidity Control	Passive	Freeze protection	Grade A
External dimensions length (mm)	929.00	External dimensions width (mm)	834.00
External dimensions height (mm)	966.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Solar direct drive
Lining	Icelined	Energy Consumption Intermittent Power (kWh/24h)	1.0700
Energy Consumption Cool Down (kWh/24h)	1.0810		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	95.000	Refrigerator's gross volume (Litres)	125.000
Autonomy (hrs:mn)	92:27	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	APPROVED FOR EMS LEVEL 3 EMS compliant with 2 and 3 options, partnering with My FridgeOnline - HS1 (E006-104) "1. Prices include Solar photovoltaic system, 30-day temperature recorder. 2. Standard with 2 universal castors with brakes and 2 fixed castors, convenient for movement and fixation. 3 .Standard with 5 baskets for store vaccines/samples. 4. Cool storage unit do not need to inject or replenish water, more convenient to use. 5. Dual cooling system, dual reliability. 6. The appliance has a Equiplog Data Logger that complies with ""WHO/PQS/E006/DL01"" and ""WHO/PQS/E006/DS01"". 7. The appliance has 5V/1A interface and Type C interface. 8. RS485 2 wire port to connect with any MODBUS compliant slave. 9. Freeze protection: Grade A . 10. Optional: Humidity control plate." 11. We will be using the HS1 (E006-104) as an external EMD for level 2 and 3.
List of accessories	1.Operation manual 2.Key 3.Spare fuse 4.Certificate card

List of spare parts, Reference & Price	"Included in the UNICEF Supply Division spare parts kit: 2 NO. Condenser-Part NO. 890379860 ; 2 NO. Fan Motor-Part NO. 890279770 ; 1 NO. Power switch-Part NO. 890370233 ; 2 NO. DC to DC module-Part NO. 890383680 ; 1 NO. Control panel-Part NO. 890260742 ; 1 NO. Display panel-Part NO. 890188313 ; 1 NO. Solar display screen-Part NO. 890383792 ; 2 NO. Indicator light(green)-Part NO. 890384362 ; 1 NO. Fuse seat-Part NO. 890473151 ; 2 NO. Compressor-Part NO. 890354825 ; 2 NO. The filter-Part NO. 890348235 ; 1 NO. Equiplog Data Logger-Part NO. 890467888 ; 1 NO. Indicator light(red)-Part NO. 890473150 ; Other parts are available as spares on request. Unit price of spare parts: 1 NO. Fan Motor-Part NO. 890279770 (USD 9.8) 1 NO. DC to DC module-Part NO. 890383680 (USD 76) 1 NO. Control panel-Part NO. 890260742 (USD 50.5) 1 NO. Display panel-Part NO. 890188313 (USD 14.8) 1 NO. Compressor-Part NO. 890354825 (USD 359.3) 1 NO. The filter-Part NO. 890348235 (USD 0.9) Other parts are available as spares on request."
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PRICE AND SHIPPING

Shipping volume (m3)	1.009	Shipping weight (kg)	162.00
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	1-10 UNITS: 3000 USD
Price 2	11-100 UNITS: 2950 USD	Price 3	?100 UNITS: on request to manufacturer
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 13485;Other	Quality standard (Other)	- ISO 9001:2015 - ISO 14001:2015 - ISO 45001:2018 -
Specification Reference	Applicable PQS specification: E003/RF05.8 Applicable PQS VP(s): E003/RF05-VP.6		

VERIFICATION

Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-24-0184		

PRODUCT SITES

Organization name	Zhongke Meiling Cryogenics Company Limited
Address	No. 1862 Zishi Road Hefei Anhui China

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	TCD -188
IMD-PQS Code:	E003-145
Status:	Prequalified
Date of acceptance:	10 Feb 2026
Appliance type:	E003
Product description:	Solar direct drive combined refrigerator/freezer
Manufacturer:	Qingdao Aucma Global Medical Co.,Ltd.
Manufacturers Reference:	TCD -188
Country of Manufacture:	China
Address:	315 Qianwangang Road, Economic &Technological Development Zone, Qingdao Shandong China
Telephone:	+86 532 86763602
Email:	lishouda@aucma.com.cn
Website address:	www.aucmamedicalglobal.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Multizone	Minimum rated ambient temperature (°C)	10.00
Relative Humidity (Min)	0.00	Relative Humidity (Max)	95.00
Humidity Control	Active	Freeze protection	Grade A
Hold over time (hours:mn)	124	External dimensions length (mm)	660.00
External dimensions width (mm)	710.00	External dimensions height (mm)	1575.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Ambient temperature during testing (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	Solar direct drive and Electric Mains 100-240V 50/60Hz	Lining	Ice-lined
Energy Consumption During Freezing (kWh/24h)	2.3220	Energy Consumption Cool Down (kWh/24h)	1.8330
Energy Consumption Continuous Power (kWh/24h)	1.9220		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	120.000	Refrigerator's gross volume (Litres)	150.000
Autonomy (hrs:mn)	124	Refrigerant type	R290
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Direct cooling	Freezer net volume	38
Freezer's gross volume (Litres)	38.00	Waterpack freezing capacity (Kg/24 hrs)	2.20
Waterpack storage capacity (Litres)	11.00		

Comments	APPROVED FOR EMS LEVEL 2 Default EMS: Beyond EMS Levels 2&3 Device (PQS-prequalified E006-036e) Alternative EMS: AOHUI-E1001 (PQS-prequalified integrated EMD, Level 2) 1.Support simultaneous access of both mains and solar power supply. 2.Independent dehumidification system. 3.Comes standard with two shelves and two plastic vaccine trays, 1 funnel and 1 bucket for filling the water tank of the TCD-188. 4.TCD-188 has a level 2 EMS, which includes a recorder and its M2M interface, as well as a local display screen.
List of accessories	1.2 shelves. 2.2 plastic vaccine trays (additional trays can be ordered). 3.1 funnel and 1 bucket. 4.1 User manual and 1 technician manual. 5.2 locks and keys
List of spare parts, Reference & Price	3000002494 1 No. Compressor 3001001020 1 No. Electronic control unit 3001000822 1 No. Thermostat 3000001653 1 No. Fan

PRICE AND SHIPPING			
Shipping volume (m3)	2.23	Shipping weight (kg)	500.00
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Year of base price	2026

QUALITY STANDARD			
Quality Standard	ISO 9001: 2000;ISO 13485	Specification Reference	Applicable PQS specification: E003/RF05.6 Applicable PQS VP(s):

VERIFICATION	
Verification Report Reference	WB-23-0208

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

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	MDFU-18
IMD-PQS Code:	E003-146
Status:	Prequalified
Date of acceptance:	16 Feb 2026
Appliance type:	E003
Product description:	Other
Manufacturer:	Mark Enterprises
Manufacturers Reference:	MDFU-18
Country of Manufacture:	India
Address:	Shed No.1, Plot No.93/2, Street No.17, City: MIDC Satpur, Nashik, Maharashtra Nashik Maharashtra India
Telephone:	+91 7276009009
Email:	certifications@markent.co.in
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	-10.00
Relative Humidity (Min)	5.00	Relative Humidity (Max)	95.00
Hold over time (hours:mn)	04:47	External dimensions length (mm)	725.00
External dimensions width (mm)	670.00	External dimensions height (mm)	850.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Ambient temperature during testing (°C)	43.00	Fuel and refrigeration cycle	Electric, Compression Cycle, R600a refrigerant
Energy source	Electric (Mains Power 220–240 V, 50/60 Hz)	Lining	Regular (Pre-Painted Galvanized Steel – PPGI)
Energy Consumption During Freezing (kWh/24h)	1.3370	Energy Consumption Cool Down (kWh/24h)	1.1580

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	0.00
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PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Vaccine /Waterpacks freezer	Freezer net volume	98
Freezer's gross volume (Litres)	106.00		

List of accessories	Single-phase voltage stabilizer (WHO PQS E007 approved) External electronic thermometer/display Lock with 2 keys Vaccine loading and waterpack placement instruction sheets (Figures 11 & 12 in report)
List of spare parts, Reference & Price	AC Compressor-NLE 9KTK R600a WOT Condenser Drier Filter Starting Capacitor AC Fan motor Control Panel Temperature sensors Temperature Controller – Dixell XR30CX Thermometer- solar operated ON/OFF switch Mains Indicator Lamp Compressor indicator lamp – Green Electrical wiring 1sq mm Temperature monitoring data logger - PQS Code E006/081 Mains Cord – 3 core 1sq mm Voltage Stabilizer - PQS Code E007/007 Door Handle key, set - 2pc. Door Hinges with PVC cover Basket with Handles – 5 Nos. SS304 Material Foot with bolts(Adjustable foot) complete Base plate Fitting Drain plug - Ø6

PRICE AND SHIPPING

Shipping volume (m3)	0.544	Shipping weight (kg)	88.00
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	Per unit is 2500 USD
Price 2	10 units is 24,375 USD	Price 3	100 units is 237,500 USD
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 9001: 2000	Specification Reference	Applicable PQS specification: E003/FZ01.2 Applicable PQS VP(s):
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VERIFICATION

Verification Laboratory	UL India Private Limited	Address	A-12, Infocity-1, Sector-34, Gurgaon (Haryana)-122001India
Telephone	+91-8130427334	Email	satish.kumar@ul.com
Verification Report Reference	UL India Pvt. Ltd., Report No. 4791197699-02-OTHER-S1-A1, dated 10 March 2025		

PRODUCT SITES

Organization name	Mark Enterprises
Address	Shed No.1, Plot No.93/2, Street No.17, City: MIDC Satpur Nashik Maharashtra India

Current PQS status:	Prequalified	Valid until:	31 May 2027
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



E003: Refrigerators and freezers



Product name:	MDFU-19
IMD-PQS Code:	E003-147
Status:	Prequalified
Date of acceptance:	16 Feb 2026
Appliance type:	E003
Product description:	Other
Manufacturer:	Mark Enterprises
Manufacturers Reference:	MDFU-19
Country of Manufacture:	India
Address:	Shed No.1, Plot No.93/2, Street No.17, City: MIDC Satpur, Nashik, Maharashtra Nashik Maharashtra India
Telephone:	+91 7276009009
Email:	certifications@markent.co.in
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	-10.00
Relative Humidity (Min)	5.00	Relative Humidity (Max)	95.00
Hold over time (hours:mn)	05:00	External dimensions length (mm)	1565.00
External dimensions width (mm)	700.00	External dimensions height (mm)	925.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Ambient temperature during testing (°C)	43.00	Fuel and refrigeration cycle	Electric, Compression Cycle, R600a refrigerant
Energy source	Electric (Mains Power 220–240 V, 50/60 Hz)	Lining	Regular (Pre-Painted Galvanized Steel – PPGI)
Energy Consumption During Freezing (kWh/24h)	1.8500	Energy Consumption Cool Down (kWh/24h)	1.8500
Energy Consumption Continuous Power (kWh/24h)	1.8110		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	0.00
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PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Vaccine /Waterpacks freezer	Freezer net volume	280
Freezer's gross volume (Litres)	300.00	Waterpack freezing capacity (Kg/24 hrs)	25.80

List of accessories	1 kVA / 1 Phase Voltage Stabilizer – WHO PQS approved (PQS Code: E007/07) Externally readable cabinet-mounted electronic thermometer – WHO PQS approved (PQS Code: E006/081) Two keys User manual Vaccine loading and storage instruction labels affixed to the cabinet
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List of spare parts, Reference & Price	AC Compressor : HXK12AT R600a - ME/STR/VF19/001 WOT Condenser - ME/STR/VF19/002 Drier Filter - ME/STR/VF19/003 Starting Capacitor : 4 uF - ME/STR/VF19/004 AC Fan Motor - ME/STR/VF19/005 Control Panel - ME/STR/VF19/006 Temperature Sensors : NTC - ME/STR/VF19/007 Temperature Controller : Dixell XR30CX - ME/STR/VF19/008 Thermometer : Solar Operated - ME/STR/VF19/009 ON/OFF Switch - ME/STR/VF19/010 Mains Indicator Lamp : Red - ME/STR/VF19/011 Compressor Indicator Lamp : Green - ME/STR/VF19/012 Electrical Wiring : 1 sq mm - ME/STR/VF19/013 Temperature Monitoring Data Logger : PQS Code E006/081 - ME/STR/VF19/014 Mains Cord : 3 Core 1 sq mm - ME/STR/VF19/015 Voltage Stabilizer : PQS Code E007/007 - ME/STR/VF19/016 Door Handle - ME/STR/VF19/017 Key, Set : 2 pc - ME/STR/VF19/018 Door Hinges with PVC Cover - ME/STR/VF19/019 Basket with Handles : 9 Nos. SS304 Material - ME/STR/VF19/020 Foot with Bolts (Adjustable Foot) - ME/STR/VF19/021 Complete Base Plate Fitting - ME/STR/VF19/022 Drain Plug : Ø6 - ME/STR/VF19/023
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PRICE AND SHIPPING

Shipping volume (m3)	1.01	Shipping weight (kg)	110.00
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	per unit is 3500 USD
Price 2	per 10 units is 34,125 USD	Price 3	per 100 units is 332,500 USD
Year of base price	2025		

QUALITY STANDARD

Quality Standard	ISO 9001: 2000	Specification Reference	Applicable PQS specification: E003/FZ01.2 Applicable PQS VP(s):
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VERIFICATION

Verification Laboratory	UL India Private Limited	Address	A-12, Infocity-1, Sector-34, Gurgaon (Haryana)-122001India
Telephone	+91-8130427334	Email	satish.kumar@ul.com
Verification Report Reference	4791197699 -04-OTHER-S1-A1, dated 2 May 2024		

PRODUCT SITES

Organization name	Mark Enterprises
Address	Shed No.1, Plot No.93/2, Street No.17, City: MIDC Satpur Nashik Maharashtra India

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	GHR 60 AC
IMD-PQS Code:	E003-148
Status:	Prequalified
Date of acceptance:	04 Mar 2026
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Godrej & Boyce Manufacturing Company Limited
Manufacturers Reference:	GHR 60 AC
Country of Manufacture:	India
Address:	Plant 11, Pirojshanagar, Vikhroli Mumbai Maharashtra India
Telephone:	+91 22 67966346
Email:	medicalref@godrej.com
Website address:	http://www.godrejappliances/medical
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	10.00
Relative Humidity (Min)	0.00	Relative Humidity (Max)	95.00
Freeze protection	Grade A	Hold over time (hours:mn)	35:06
External dimensions length (mm)	850.00	External dimensions width (mm)	762.00
External dimensions height (mm)	850.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Fuel and refrigeration cycle	Electric Compression	Energy source	Electric Mains 220/240V 50/60 Hz
Lining	PCM	Energy Consumption Cool Down (kWh/24h)	1.2330
Energy Consumption Continuous Power (kWh/24h)	1.1030		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	58.000	Refrigerator's gross volume (Litres)	83.000
Refrigerant type	R290	Solar radiation ref period (kWh/m2/day)	0.00

Comments	APPROVED EMS LEVEL 3
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PRICE AND SHIPPING

Shipping volume (m3)	0.81	Shipping weight (kg)	115.00
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	\$1725
Price 2	\$1690	Price 3	\$1658
Year of base price	2026		

QUALITY STANDARD

Quality Standard	ISO 9001: 2000	Specification Reference	Applicable PQS specification: E003/RF03.7 Applicable PQS VP: E003/RF03-VP.5
PRODUCT SITES			
Organization name	Godrej & Boyce Manufacturing Company Limited		
Address	Plant 11, Pirojshanagar, Vikhroli Mumbai Maharashtra India		
Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</i>

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



E003: Refrigerators and freezers



Product name:	GHR 120 AC
IMD-PQS Code:	E003-149
Status:	Prequalified
Date of acceptance:	04 Mar 2026
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Godrej & Boyce Manufacturing Company Limited
Manufacturers Reference:	GHR 120 AC
Country of Manufacture:	India
Address:	Plant 11, Pirojshanagar, Vikhroli Mumbai Maharashtra India
Telephone:	+91 22 67966346
Email:	medicalref@godrej.com
Website address:	http://www.godrejappliances/medical
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	10.00
Freeze protection	Grade A	Hold over time (hours:mn)	79:00
External dimensions length (mm)	1140.00	External dimensions width (mm)	775.00
External dimensions height (mm)	900.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Fuel and refrigeration cycle	Electric Compression	Energy source	Electric Mains 220-240V 50/60Hz
Lining	PCM	Energy Consumption Intermittent Power (kWh/24h)	1.2200
Energy Consumption Cool Down (kWh/24h)	1.3800	Energy Consumption Continuous Power (kWh/24h)	0.5500

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	118.000	Refrigerator's gross volume (Litres)	142.000
Refrigerant type	R290	Solar radiation ref period (kWh/m2/day)	0.00

Comments	APPROVED EMS LEVEL 3
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PRICE AND SHIPPING

Shipping volume (m3)	1.01	Shipping weight (kg)	145.00
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	1835
Price 2	1800	Price 3	1765
Year of base price	2026		

QUALITY STANDARD

Quality Standard	ISO 9001: 2000	Specification Reference	Applicable PQS specification: E003/RF03.7 Applicable PQS VP: E003/RF03-VP.5
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VERIFICATION

Verification Report Reference

4791893252-02-OTHER-S3

PRODUCT SITES

Organization name	Godrej & Boyce Manufacturing Company Limited
Address	Plant 11, Pirojshanagar, Vikhroli Mumbai Maharashtra India

Current PQS status:	Prequalified	Valid until:	31 May 2027
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



E003: Refrigerators and freezers



Product name:	TCW 50R AC
IMD-PQS Code:	E003-150
Status:	Prequalified
Date of acceptance:	20 Apr 2026
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 50R AC
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsistemas.com
Website address:	www.bmedicalsistemas.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Relative Humidity (Min)	30.00	Relative Humidity (Max)	85.00
Freeze protection	Grade A	Hold over time (hours:mn)	101:33
External dimensions length (mm)	780.00	External dimensions width (mm)	1055.00
External dimensions height (mm)	910.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Fuel and refrigeration cycle	Electric - Compression	Energy source	Electric Mains 100-240V/50-60Hz
Lining	Ice	Energy Consumption Intermittent Power (kWh/24h)	0.5800
Energy Consumption Cool Down (kWh/24h)	0.5900	Energy Consumption Continuous Power (kWh/24h)	0.8100

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	56.000	Refrigerator's gross volume (Litres)	60.000
Autonomy (hrs:mn)	101:33	Refrigerant type	R600a

Comments	This product include the latest EMS Vaccine Cold Chain from B Medical Systems. It consists of Level 2 (advanced local monitoring) remotely upgradeable to Level 3 (advanced remote monitoring including cloud platform Vaclog). Monitoring level can be selected at the time of order. This product also include the latest generation voltage stabilizer with advanced surge protection already compatible with PQS_E007_VS01.6. A led lighting is also included to allow a proper visibility of the storage compartment at night.
List of accessories	- 2 keys. - 2 spacers. - 1 brush. - 1 travel plug. - 1 wrench. - baskets. - 1 user manual (user choice of language) - 1 recycling instructions - 10 x 8A fuses.
List of spare parts, Reference & Price	296.9768.82 VCC COLD CHAIN CONTROLLER 296.9705.37 POWER MANAGEMENT MODULE 296.9805.13 SENSOR TEMP REGULATION 296.9805.18 SENSOR HUMIDITY REFRIGERATOR 296.9705.38 EBOX 292.9960.13 FAN 296.9702.17 COMPRESSOR Other spare parts available upon request to local service provider or B Medical Systems.

PRICE AND SHIPPING

Shipping volume (m3)	0.908	Shipping weight (kg)	106.00
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	For quantities between 1-39 pcs: 4,690 EUR EXW
Price 2	For quantities between 40-99 pcs: 4,456 EUR EXW	Price 3	For quantities above 100pcs: 4,221 EUR EXW
Year of base price	2026		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001 & ISO 13485
Specification Reference	Applicable PQS specification: E003/RF03.7 PQS Applicable VP: E003/RF03-VP.5		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	Address	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	Email	gerald.cavalier@cemafrroid.fr
Verification Report Reference	WHO_25-01_TCW50RAC		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei Hosingen Luxemburg Luxembourg

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	TCW 240R AC
IMD-PQS Code:	E003-151
Status:	Prequalified
Date of acceptance:	20 Apr 2026
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 240R AC
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsistemas.com
Website address:	www.bmedicalsistemas.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Relative Humidity (Min)	30.00	Relative Humidity (Max)	85.00
Freeze protection	Grade A	Hold over time (hours:mn)	115:19
External dimensions length (mm)	780.00	External dimensions width (mm)	1665.00
External dimensions height (mm)	910.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Electric Mains 100-240V/50-60Hz
Lining	Ice	Energy Consumption Intermittent Power (kWh/24h)	0.7900
Energy Consumption Cool Down (kWh/24h)	0.8500	Energy Consumption Continuous Power (kWh/24h)	1.1500

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	240.000	Refrigerator's gross volume (Litres)	267.900
Autonomy (hrs:mn)	115:19	Refrigerant type	R600a

Comments	This product include the latest EMS Vaccine Cold Chain from B Medical Systems. It consists of Level 2 (advanced local monitoring) remotely upgradeable to Level 3 (advanced remote monitoring including cloud platform Vaclog). Monitoring level can be selected at the time of order. This product also include the latest generation voltage stabilizer with advanced surge protection already compatible with PQS_E007_VS01.6. A led lighting is also included to allow a proper visibility of the storage compartment at night.
List of accessories	2 Keys 2 spacers 4 baskets top 2 baskets bottom 1 wrench 1 brush 1 Travel plug 1 user manual 1 recycling instruction 10 8A Fuses
List of spare parts, Reference & Price	296.9768.82 VCC COLD CHAIN CONTROLLER 296.9705.37 POWER MANAGEMENT MODULE 296.9805.13 SENSOR TEMP REGULATION 296.9805.18 SENSOR HUMIDITY REFRIGERATOR 296.9705.38 EBOX 292.9960.13 FAN 296.9702.17 COMPRESSOR Other spare parts available upon request

PRICE AND SHIPPING

Shipping volume (m3)	1.41	Shipping weight (kg)	168.00
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	For quantities between 1-39 pcs: 6,690 EUR EXW
Price 2	For quantities between 40-99 pcs: 6,356 EUR EXW	Price 3	For quantities above 100pcs: 6,021 EUR EXW
Year of base price	2026		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO9001 & ISO13485
Specification Reference	Applicable PQS specification: E003/RF03.7 Applicable PQS VP: E003/RF03-VP.5		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	Address	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	Email	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO 25-02		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei Hosingen Luxemburg Luxembourg

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	TCW 120C AC
IMD-PQS Code:	E003-152
Status:	Prequalified
Date of acceptance:	20 Apr 2026
Appliance type:	E003
Product description:	Combined icelined refrigerator/waterpacks freezer
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 120C AC
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsistemas.com
Website address:	www.bmedicalsistemas.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Relative Humidity (Min)	30.00	Relative Humidity (Max)	85.00
Freeze protection	Grade A	Hold over time (hours:mn)	127:55
External dimensions length (mm)	780.00	External dimensions width (mm)	1665.00
External dimensions height (mm)	910.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Fuel and refrigeration cycle	Electric - Compression	Energy source	Electric Mains 100-240V/50-60Hz
Lining	Ice	Energy Consumption During Freezing (kWh/24h)	1.6200
Energy Consumption Intermittent Power (kWh/24h)	1.2500	Energy Consumption Cool Down (kWh/24h)	1.2500
Energy Consumption Continuous Power (kWh/24h)	1.3800		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	120.000	Refrigerator's gross volume (Litres)	165.900
Autonomy (hrs:mn)	127:55	Refrigerant type	R600a

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Water-pack freezer	Freezer net volume	14.4
Freezer's gross volume (Litres)	14.40	Waterpack freezing capacity (Kg/24 hrs)	4.80
Waterpack storage capacity (Litres)	14.40		

Comments	This product include the latest EMS Vaccine Cold Chain from B Medical Systems. It consists of Level 2 (advanced local monitoring) remotely upgradeable to Level 3 (advanced remote monitoring including cloud platform Vaclog). Monitoring level can be selected at the time of order. This product also include the latest generation voltage stabilizer with advanced surge protection already compatible with PQS_E007_VS01.6. A led lighting is also included to allow a proper visibility of the storage compartment at night.		
List of accessories	Accessories supplied with the device include: - 2 keys. - 2 spacers. - 1 brush. - 1 travel plug. - 1 wrench. - baskets. - 1 user manual (user choice of language) - 1 recycling instructions. - 24 water-pack holders. - 24 water-pack 0.6l - 24 water-pack cap - 10 x 8A fuses.		
List of spare parts, Reference & Price	296.9768.82 VCC COLD CHAIN CONTROLLER 296.9705.37 POWER MANAGEMENT MODULE 296.9805.13 SENSOR TEMP REGULATION 296.9805.18 SENSOR HUMIDITY REFRIGERATOR 296.9705.38 EBOX 292.9960.13 FAN 296.9702.17 COMPRESSOR Other spare parts available upon request to B Medical Systems or Local Service Provider		

PRICE AND SHIPPING

Shipping volume (m3)	1.41	Shipping weight (kg)	177.00
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	For quantities between 1-39 pcs: 6,990 EUR EXW
Price 2	For quantities between 40-99 pcs: 6,641 EUR EXW	Price 3	For quantities above 100pcs: 6,291 EUR EXW
Year of base price	2026		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001 & ISO 13485
Specification Reference	Applicable PQS specification: E003/RF03.7 Applicable PQS VP: E003/RF03-VP.5		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	Address	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	Email	gerald.cavalier@cemafrroid.fr
Verification Report Reference	WHO_25-07_TCW120CAC		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei Hosingen Luxemburg Luxembourg

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	TCW 40C SDD
IMD-PQS Code:	E003-153
Status:	Prequalified
Date of acceptance:	20 Apr 2026
Appliance type:	E003
Product description:	Solar direct drive combined refrigerator/freezer
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 40C SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsistemas.com
Website address:	www.bmedicalsistemas.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Relative Humidity (Min)	30.00	Relative Humidity (Max)	85.00
Freeze protection	Grade A	Hold over time (hours:mn)	104:00
External dimensions length (mm)	780.00	External dimensions width (mm)	1055.00
External dimensions height (mm)	910.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Fuel and refrigeration cycle	Electric - Compression	Energy source	Solar Direct Drive
Lining	PCM	Energy Consumption During Freezing (kWh/24h)	0.7700
Energy Consumption Intermittent Power (kWh/24h)	0.6800	Energy Consumption Cool Down (kWh/24h)	0.7100

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	36.000	Refrigerator's gross volume (Litres)	46.600
Autonomy (hrs:mn)	104	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Waterpack freezer	Freezer net volume	4.8
Freezer's gross volume (Litres)	4.80	Waterpack freezing capacity (Kg/24 hrs)	1.80
Waterpack storage capacity (Litres)	4.80		

Comments	This product include the latest EMS Vaccine Cold Chain from B Medical Systems. It consists of Level 2 (advanced local monitoring) remotely upgradeable to Level 3 (advanced remote monitoring including cloud platform Vaclog). Monitoring level can be selected at the time of order. This product also include the latest generation of solar generator SG490 RGA designed for this product. Waterpack freezing capacity: 4.8 kg/day = 8 waterpacks per day
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List of accessories	- 2 keys. - 2 spacers. - baskets. - 1 wrench. - 1 compass. - 1 user manual (language of choice). - 1 recycling instruction - 1 brush. - 8 water-pack holders. - 8 water-packs 0.6l. - 8 water-pack cap
List of spare parts, Reference & Price	296.9768.82 VCC COLD CHAIN CONTROLLER 296.9705.37 POWER MANAGEMENT MODULE 296.9805.13 SENSOR TEMP REGULATION 296.9805.18 SENSOR HUMIDITY REFRIGERATOR 296.9705.38 EBOX 292.9960.13 FAN 296.9702.17 COMPRESSOR Other spare parts available upon request to local service provider or B Medical Systems

PRICE AND SHIPPING

Shipping volume (m3)	0.908	Shipping weight (kg)	129.60
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	For quantities between 1-39 pcs: 8,590 EUR EXW
Price 2	For quantities between 40-99 pcs: 8,161 EUR EXW	Price 3	For quantities above 100pcs: 7,731 EUR EXW
Year of base price	2026		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001 & ISO 13485
Specification Reference	Applicable PQS specification: E003/RF05.8 Applicable PQS VP(s): E003/RF05-VP.6		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	Address	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	Email	gerald.cavalier@cemafroid.fr
Verification Report Reference	WHO_25-03_TCW40CSDD_Cor1		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei Hosingen Luxemburg Luxembourg

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	TCW 120C SDD
IMD-PQS Code:	E003-154
Status:	Prequalified
Date of acceptance:	23 Apr 2026
Appliance type:	E003
Product description:	Solar direct drive combined refrigerator/freezer
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 120C SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsistemas.com
Website address:	www.bmedicalsistemas.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Relative Humidity (Min)	30.00	Relative Humidity (Max)	85.00
Freeze protection	Grade A	Hold over time (hours:mn)	104:42
External dimensions length (mm)	780.00	External dimensions width (mm)	1665.00
External dimensions height (mm)	910.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Fuel and refrigeration cycle	Electric - Compression	Energy source	Solar Direct Drive
Lining	Ice	Energy Consumption During Freezing (kWh/24h)	1.2100
Energy Consumption Intermittent Power (kWh/24h)	0.9100	Energy Consumption Cool Down (kWh/24h)	0.8800

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	120.000	Refrigerator's gross volume (Litres)	166.000
Autonomy (hrs:mn)	104:42	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Water-pack freezer	Freezer net volume	13.2
Freezer's gross volume (Litres)	26.30	Waterpack freezing capacity (Kg/24 hrs)	3.00
Waterpack storage capacity (Litres)	13.20		

Comments	This product include the latest EMS Vaccine Cold Chain from B Medical Systems. It consists of Level 2 (advanced local monitoring) remotely upgradeable to Level 3 (advanced remote monitoring including cloud platform Vaclog). Monitoring level can be selected at the time of order. This product also include the latest generation of solar generator SG980 RGA designed for this product. A led lighting is also included to allow a proper visibility of the storage compartment at night.
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List of accessories	User maintenance kit for this device includes: - 2 keys. - 2 spacers. - 2 baskets. - 1 wrench. - 1 compass. - 1 user manual (language of choice). - 1 recycling instruction - 1 brush. - 22 water-packs 0.6l - 22 water-packs cap
List of spare parts, Reference & Price	296.9768.82 VCC COLD CHAIN CONTROLLER 296.9705.37 POWER MANAGEMENT MODULE 296.9805.13 SENSOR TEMP REGULATION 296.9805.18 SENSOR HUMIDITY REFRIGERATOR 296.9705.38 EBOX 292.9960.13 FAN 296.9702.17 COMPRESSOR Other spare parts available upon request to local service provider or B Medical Systems

PRICE AND SHIPPING

Shipping volume (m3)	1.41	Shipping weight (kg)	177.00
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	For quantities between 1-39 pcs: 13,590 EUR EXW
Price 2	For quantities between 40-99 pcs: 12,911 EUR EXW	Price 3	For quantities above 100pcs: 12,231 EUR EXW
Year of base price	2026		

QUALITY STANDARD

Quality Standard Specification Reference	Other Applicable PQS specification: E003/RF05.8 Applicable PQS VP(s): E003/RF05-VP.6	Quality standard (Other)	ISO 9001 & ISO 13485
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VERIFICATION

Verification Laboratory	CEMAFROID SAS	Address	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	Email	gerald.cavalier@cemafrroid.fr
Verification Report Reference	WHO_25-05_TCW120CSDD		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei Hosingen Luxemburg Luxembourg

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	TCW 110R AC
IMD-PQS Code:	E003-155
Status:	Prequalified
Date of acceptance:	18 Mar 2026
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 110R AC
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsistemas.com
Website address:	www.bmedicalsistemas.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Relative Humidity (Min)	30.00	Relative Humidity (Max)	85.00
Humidity Control	Passive	Freeze protection	Grade A
Hold over time (hours:mn)	99:51	External dimensions length (mm)	780.00
External dimensions width (mm)	1320.00	External dimensions height (mm)	910.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Ambient temperature during testing (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	Electric Mains 100-240V/50-60Hz	Lining	Ice
Energy Consumption Intermittent Power (kWh/24h)	1.1270	Energy Consumption Cool Down (kWh/24h)	0.7340
Energy Consumption Continuous Power (kWh/24h)	1.1270		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	114.000	Refrigerator's gross volume (Litres)	142.000
Autonomy (hrs:mn)	99:51	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	This product include the latest EMS Vaccine Cold Chain from B Medical Systems. It consists of Level 2 (advanced local monitoring) remotely upgradeable to Level 3 (advanced remote monitoring including cloud platform Vaclog). Monitoring level can be selected at the time of order. This product also include the latest generation voltage stabilizer with advanced surge protection already compatible with PQS_E007_VS01.6. A led lighting is also included to allow a proper visibility of the storage compartment at night.
List of accessories	2 Keys 2 spacers 2 baskets top 2 baskets bottom 1 wrench 10 8A Fuses 1 Travel plug 1 user manual 1 recycling instruction 1 brush
List of spare parts, Reference & Price	296.9768.82 VCC COLD CHAIN CONTROLLER 296.9705.37 POWER MANAGEMENT MODULE 296.9805.13 SENSOR TEMP REGULATION 296.9805.18 SENSOR HUMIDITY REFRIGERATOR 296.9705.38 EBOX 292.9960.13 FAN 296.9702.17 COMPRESSOR

PRICE AND SHIPPING

Shipping volume (m3)	1.128	Shipping weight (kg)	139.00
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	For quantities between 1-39 pcs: 5,590 EUR EXW
Price 2	For quantities between 40-99 pcs: 5,311 EUR EXW	Price 3	For quantities above 100pcs: 5,031 EUR EXW
Year of base price	2026		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001 & ISO 13485
Specification Reference	Applicable PQS specification: E003/RF03.7 Applicable PQS VP: E003/RF03-VP.5		

VERIFICATION

Verification Laboratory	Re/Gent B.V	Address	Lage Dijk 22Netherlands
Telephone	+31492 476365	Email	patrick.beks@re-gent.nl
Verification Report Reference	B.V. 25325/BM33/V1		

PRODUCT SITES

Organization name	B Medical Systems Sarl		
Address	17 Op der Hei Hosingen Luxemburg Luxembourg		
Current PQS status:	Prequalified	Valid until:	31 May 2027

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



E003: Refrigerators and freezers



Product name:	TCW 110R SDD
IMD-PQS Code:	E003-156
Status:	Prequalified
Date of acceptance:	23 Apr 2026
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 110R SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsystems.com
Website address:	www.bmedicalsystems.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Relative Humidity (Min)	30.00	Relative Humidity (Max)	85.00
Freeze protection	Grade A	Hold over time (hours:mn)	102:24
External dimensions length (mm)	780.00	External dimensions width (mm)	1320.00
External dimensions height (mm)	910.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Solar Direct Drive
Lining	Ice	Energy Consumption Intermittent Power (kWh/24h)	0.5800
Energy Consumption Cool Down (kWh/24h)	0.8480		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	114.000	Refrigerator's gross volume (Litres)	142.000
Autonomy (hrs:mn)	102:24	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	This product include the latest EMS Vaccine Cold Chain from B Medical Systems. It consists of Level 2 (advanced local monitoring) remotely upgradeable to Level 3 (advanced remote monitoring including cloud platform Vaclog). Monitoring level can be selected at the time of order. This product also include the latest generation of solar generator SG490 RGA designed for this product. A led lighting is also included to allow a proper visibility of the storage compartment at night.
List of accessories	- 2 keys. - 2 spacers. - Baskets. - 1 wrench. - 1 compass. - 1 user manual (language of choice). - 1 recycling instruction - 1 brush.
List of spare parts, Reference & Price	296.9768.82 VCC COLD CHAIN CONTROLLER 296.9705.37 POWER MANAGEMENT MODULE 296.9805.13 SENSOR TEMP REGULATION 296.9805.18 SENSOR HUMIDITY REFRIGERATOR 296.9705.38 EBOX 292.9960.13 FAN 296.9702.17 COMPRESSOR Other spare parts available upon request to local service provider or B Medical Systems

PRICE AND SHIPPING

Shipping volume (m3)	1.128	Shipping weight (kg)	138.00
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	For quantities between 1-39 pcs: 8,390 EUR EXW
Price 2	For quantities between 40-99 pcs: 7,971 EUR EXW	Price 3	For quantities above 100pcs: 7,551 EUR EXW
Year of base price	2026		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001 & ISO 13485
Specification Reference	Applicable PQS specification: E003/RF05.8 Applicable PQS VP(s): E003/RF05-VP.6		

VERIFICATION

Verification Laboratory	Re/Gent B.V	Address	Lage Dijk 22Netherlands
Telephone	+31492 476365	Email	patrick.beks@re-gent.nl
Verification Report Reference	Re/Gent B.V. 25324/BM32/V1		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei Hosingen Luxemburg Luxembourg

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	VLS 086A RF SDD
IMD-PQS Code:	E003-157
Status:	Prequalified
Date of acceptance:	30 Mar 2026
Appliance type:	E003
Product description:	Solar direct drive combined refrigerator/freezer
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 086A RF SDD
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Humidity Control	Passive	Freeze protection	Grade A
External dimensions length (mm)	1190.00	External dimensions width (mm)	750.00
External dimensions height (mm)	925.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Solar direct drive
Lining	Ice-lined	Energy Consumption During Freezing (kWh/24h)	1.1850
Energy Consumption Intermittent Power (kWh/24h)	1.1850	Energy Consumption Cool Down (kWh/24h)	1.1450
Energy Consumption Continuous Power (kWh/24h)	1.1400		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	57.630	Refrigerator's gross volume (Litres)	77.000
Autonomy (hrs:mn)	128.33	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	SDD	Freezer net volume	50
Freezer's gross volume (Litres)	50.00	Waterpack freezing capacity (Kg/24 hrs)	2.40
Waterpack storage capacity (Litres)	16.80		

Comments	Prices include Vestfrost Solutions SDD PV energy system, roof adjustable, plug & play; Unit equipped with unique QR code, that can be used along Vestfrost Solutions Unit tracker APP, containing various installation/service features. As an option, the appliance can be supplied with Vestfrost in-built VF-EMS L2/3 2.0 systems; offering the following features: 1: 5" touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor power monitor 5: lid opening alarm 6: GPS coordinates via Google maps. If configured as EMS L3 system, all data is collected/logged, and automatically transmitted via G3/G4 GPRS network connectivity, uploaded to Vestfrost EMS performance data-portal. In addition, the data can also be accessed on-site from the touch screen menu. When configured as an EMS L3 system, all operational data is automatically collected and logged, then transmitted via G3/G4 GPRS network connectivity to the Vestfrost EMS Performance Data Portal. Additionally, the same data can be accessed locally through the integrated touchscreen menu.
List of accessories	Vaccine storage top basket; Bottom grating; Self-regulating temperature control; Auto drainage; Safety Thermostat, Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; 10 spare fuses; 1X USB 5V solar harvesting port
List of spare parts, Reference & Price	1 x 7021145 VLS Thermostat_PCB L1 1 x 7090546 Sensor kit, 1050mm 1 x 8-036510223 Compressor - BD35K Complete 10120211 10-45V - incl. ECU

PRICE AND SHIPPING

Shipping volume (m3)	1.17	Shipping weight (kg)	160.00
Minimum order	1.00	Units per package	1.00
Incoterms	FCA	Year of base price	2025

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2015
Specification Reference	PQS specification: E003/RF05.8 PQS VP: E003/RF05-VP.6		

VERIFICATION

Verification Laboratory	Danish Technological Institute	Address	Gregersensvej DK-2630 Taastrup DanemarkDenmark
Telephone	+45 72202472	Email	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-24-143		

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	IceVolt 70P
IMD-PQS Code:	E003-158
Status:	Prequalified
Date of acceptance:	07 May 2026
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Coolfinity Commercial BV
Manufacturers Reference:	IceVolt 70P
Country of Manufacture:	Malaysia
Address:	Goeman Borgesiuslaan 77 Utrecht Netherlands
Telephone:	+31 85 066 23 64
Email:	maarten@coolfinity.com
Website address:	www.coolfinity.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	10.00
Humidity Control	Active	Freeze protection	Grade A
Hold over time (hours:mn)	21:42	External dimensions length (mm)	500.00
External dimensions width (mm)	570.00	External dimensions height (mm)	830.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Ambient temperature during testing (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	Electric Mains 220-240V 50/60Hz;Electric Mains 115/60Hz	Lining	Ice
Energy Consumption Intermittent Power (kWh/24h)	1.3870	Energy Consumption Cool Down (kWh/24h)	1.4900
Energy Consumption Continuous Power (kWh/24h)	1.4060		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	60.400	Refrigerator's gross volume (Litres)	70.000
Autonomy (hrs:mn)	0:00	Refrigerant type	r600a
Solar radiation ref period (kWh/m2/day)	0.00		

PRICE AND SHIPPING

Incoterms	FCA
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QUALITY STANDARD

Quality Standard	ISO 9001: 2000	Specification Reference	Applicable PQS specification: E003/RF03.7 Applicable PQS VP: E003/RF03-VP.5
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PRODUCT SITES

Organization name	Coolfinity Commercial BV
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Address	Goeman Borgesiuslaan 77 Utrecht Netherlands
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Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	HBC-79
IMD-PQS Code:	E003-159
Status:	Prequalified
Date of acceptance:	07 May 2026
Appliance type:	E003
Product description:	Icelined refrigerator
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBC-79
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Humidity Control	Passive	Hold over time (hours:mn)	57:34
External dimensions length (mm)	788.00	External dimensions width (mm)	717.00
External dimensions height (mm)	872.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Energy source	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional	Energy Consumption Intermittent Power (kWh/24h)	0.5000
Energy Consumption Cool Down (kWh/24h)	0.6500	Energy Consumption Continuous Power (kWh/24h)	0.5500

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	59.000	Refrigerator's gross volume (Litres)	79.000
Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	0.00

PRICE AND SHIPPING

Shipping volume (m3)	0.71	Shipping weight (kg)	116.00
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Year of base price	2025

QUALITY STANDARD

Quality Standard	ISO 9001: 2000	Specification Reference	Applicable PQS specification: E003/RF03.7 Applicable PQS VP: E003/RF03-VP.5
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VERIFICATION

Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
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Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-25-0075		

PRODUCT SITES

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

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	HBCD-160
IMD-PQS Code:	E003-160
Status:	Prequalified
Date of acceptance:	12 May 2026
Appliance type:	E003
Product description:	Combined icelined refrigerator/waterpacks freezer
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBCD-160
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Humidity Control	Other	Humidity Control (Other)	Optional active dehumidification module
Freeze protection	Grade A	Hold over time (hours:mn)	142
External dimensions length (mm)	915.00	External dimensions width (mm)	920.00
External dimensions height (mm)	1740.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Energy source	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional	Energy Consumption During Freezing (kWh/24h)	1.1000
Energy Consumption Intermittent Power (kWh/24h)	0.9000	Energy Consumption Cool Down (kWh/24h)	0.8800
Energy Consumption Continuous Power (kWh/24h)	1.4000		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	100.000	Refrigerator's gross volume (Litres)	120.000
Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	0.00

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	waterpack	Freezer net volume	22.4
Freezer's gross volume (Litres)	40.00	Waterpack freezing capacity (Kg/24 hrs)	3.20
Waterpack storage capacity (Litres)	22.40		

PRICE AND SHIPPING

Shipping volume (m3)	1.46	Shipping weight (kg)	228.00
Minimum order	1.00	Units per package	1.00

Incoterms	EXW	Year of base price	2025
QUALITY STANDARD			
Quality Standard	ISO 9001: 2000	Specification Reference	Applicable PQS specification: E003/RF03.7 Applicable PQS VP: E003/RF03-VP.5
VERIFICATION			
Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-25-0097		
PRODUCT SITES			
Organization name	Qingdao Haier Biomedical Co., Ltd		
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China		
Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</i>

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



E003: Refrigerators and freezers



Product name:	TCW 240R SDD
IMD-PQS Code:	E003-161
Status:	Prequalified
Date of acceptance:	14 May 2026
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 240R SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsistemas.com
Website address:	www.bmedicalsistemas.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Relative Humidity (Min)	30.00	Relative Humidity (Max)	85.00
Freeze protection	Grade A	Hold over time (hours:mn)	118:30
External dimensions length (mm)	780.00	External dimensions width (mm)	1665.00
External dimensions height (mm)	910.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Solar Direct Drive
Lining	Ice	Energy Consumption Intermittent Power (kWh/24h)	0.6440
Energy Consumption Cool Down (kWh/24h)	0.8410		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	240.000	Refrigerator's gross volume (Litres)	268.000
Autonomy (hrs:mn)	118:30	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	This product include the latest EMS Vaccine Cold Chain from B Medical Systems. It consists of Level 2 (advanced local monitoring) remotely upgradeable to Level 3 (advanced remote monitoring including cloud platform Vaclog). Monitoring level can be selected at the time of order. This product also include the latest generation of solar generator SG490 RGA designed for this product. A led lighting is also included to allow a proper visibility of the storage compartment at night.
List of accessories	- 2 keys. - 2 spacers. - 2 baskets. - 1 wrench. - 1 compass. - 1 user manual (language of choice). - 1 recycling instruction - 1 brush.
List of spare parts, Reference & Price	296.9768.82 VCC COLD CHAIN CONTROLLER 296.9705.37 POWER MANAGEMENT MODULE 296.9805.13 SENSOR TEMP REGULATION 296.9805.18 SENSOR HUMIDITY REFRIGERATOR 296.9705.38 EBOX 292.9960.13 FAN 296.9702.17 COMPRESSOR Other spare parts available upon request to local service provider or B Medical Systems

PRICE AND SHIPPING

Shipping volume (m3)	1.41	Shipping weight (kg)	168.00
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	For quantities between 1-39 pcs: 10,490 EUR EXW
Price 2	For quantities between 40-99 pcs: 9,966 EUR EXW	Price 3	For quantities above 100pcs: 9,441 EUR EXW
Year of base price	2026		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001 & ISO 13485
Specification Reference	Applicable PQS specification: E003/RF05.8 Applicable PQS VP(s): E003/RF05-VP.6		

VERIFICATION

Verification Laboratory	Re/Gent B.V	Address	Lage Dijk 22Netherlands
Telephone	+31492 476365	Email	patrick.beks@re-gent.nl
Verification Report Reference	Re/Gent B.V. 25320/BM29/V1		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei Hosingen Luxemburg Luxembourg

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	HTCD-220
IMD-PQS Code:	E003-162
Status:	Prequalified
Date of acceptance:	20 May 2026
Appliance type:	E003
Product description:	Solar direct drive combined refrigerator/freezer
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HTCD-220
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Humidity Control	Other	Humidity Control (Other)	Optional active dehumidification module
Freeze protection	Grade A	External dimensions length (mm)	920.00
External dimensions width (mm)	915.00	External dimensions height (mm)	1860.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Ambient temperature during testing (°C)	43.00	Energy source	Solar Power
Energy Consumption During Freezing (kWh/24h)	1.2000	Energy Consumption Intermittent Power (kWh/24h)	0.8500
Energy Consumption Cool Down (kWh/24h)	1.1000	Energy Consumption Continuous Power (kWh/24h)	0.9000

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	146.000	Refrigerator's gross volume (Litres)	180.000
Autonomy (hrs:mn)	128:16	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	waterpack	Freezer net volume	22.4
Freezer's gross volume (Litres)	40.00	Waterpack freezing capacity (Kg/24 hrs)	2.40
Waterpack storage capacity (Litres)	22.40		

PRICE AND SHIPPING

Shipping volume (m3)	1.86	Shipping weight (kg)	234.00
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	7123.2

Year of base price	2025		
QUALITY STANDARD			
Quality Standard	ISO 9001: 2000	Specification Reference	Applicable PQS specification: E003/RF05.8 Applicable PQS VP(s): E003/RF05-VP.6
VERIFICATION			
Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-25-0125		
PRODUCT SITES			
Organization name	Qingdao Haier Biomedical Co., Ltd		
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China		
Current PQS status:	Prequalified	Valid until:	31 May 2027

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



E003: Refrigerators and freezers



Product name:	HBD-130
IMD-PQS Code:	E003-163
Status:	Prequalified
Date of acceptance:	20 May 2026
Appliance type:	E003
Product description:	Other
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBD-130
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Minimum rated ambient temperature (°C)	0.00	Hold over time (hours:mn)	6hours:51mins
External dimensions length (mm)	790.00	External dimensions width (mm)	770.00
External dimensions height (mm)	950.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Energy source	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional	Energy Consumption During Freezing (kWh/24h)	2.6900
Energy Consumption Intermittent Power (kWh/24h)	0.8500	Energy Consumption Cool Down (kWh/24h)	1.3300
Energy Consumption Continuous Power (kWh/24h)	1.3100		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	118.000	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	0.00		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Vaccine/Waterpack	Freezer net volume	118
Freezer's gross volume (Litres)	130.00	Waterpack freezing capacity (Kg/24 hrs)	15.20
Waterpack storage capacity (Litres)	118.00		

PRICE AND SHIPPING

Shipping volume (m3)	0.68	Shipping weight (kg)	63.00
Minimum order	1.00	Units per package	1.00
Incoterms	FCA	Year of base price	2025

QUALITY STANDARD

Quality Standard	ISO 9001: 2000	Specification Reference	Applicable PQS specification: E003/FZ01.2 Applicable PQS VP(s): E003/FZ01-VP.2
VERIFICATION			
Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-25-0142		
PRODUCT SITES			
Organization name	Qingdao Haier Biomedical Co., Ltd		
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China		
Current PQS status:	Prequalified	Valid until:	31 May 2027

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



E003: Refrigerators and freezers



Product name:	TCW 50R SDD
IMD-PQS Code:	E003-164
Status:	Prequalified
Date of acceptance:	21 May 2026
Appliance type:	E003
Product description:	Solar direct drive refrigerator
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 50R SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsistemas.com
Website address:	www.bmedicalsistemas.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Relative Humidity (Min)	5.00	Relative Humidity (Max)	80.00
Freeze protection	Grade A	Hold over time (hours:mn)	94:15
External dimensions length (mm)	780.00	External dimensions width (mm)	1055.00
External dimensions height (mm)	910.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Solar direct drive
Lining	Ice	Energy Consumption Intermittent Power (kWh/24h)	0.5190
Energy Consumption Cool Down (kWh/24h)	0.8480		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	56.000	Refrigerator's gross volume (Litres)	60.000
Autonomy (hrs:mn)	94:15	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

Comments	This product include the latest EMS Vaccine Cold Chain from B Medical Systems. It consists of Level 2 (advanced local monitoring) remotely upgradeable to Level 3 (advanced remote monitoring including cloud platform Vaclog). Monitoring level can be selected at the time of order. This product also include the latest generation of solar generator SG490 RGA designed for this product. A led lighting is also included to allow a proper visibility of the storage compartment at night.		
List of accessories	- 2 keys. - 2 spacers. - baskets. - 1 wrench. - 1 compass. - 1 user manual - 1 recycling instruction - 1 brush.		
List of spare parts, Reference & Price	296.9768.82 VCC COLD CHAIN CONTROLLER 296.9705.37 POWER MANAGEMENT MODULE 296.9805.13 SENSOR TEMP REGULATION 296.9805.18 SENSOR HUMIDITY REFRIGERATOR 296.9705.38 EBOX 292.9960.13 FAN 296.9702.17 COMPRESSOR Other parts upon request.		

PRICE AND SHIPPING

Shipping volume (m3)	0.908	Shipping weight (kg)	121.50
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Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	For quantities between 1-39 pcs: 7,390 EUR EXW
Price 2	For quantities between 40-99 pcs: 7,021 EUR EXW	Price 3	For quantities above 100pcs: 6,651 EUR EXW
Year of base price	2026		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001 & ISO 13485
Specification Reference	Applicable PQS specification: E003/RF05.8 Applicable PQS VP(s): E003/RF05-VP.6		

VERIFICATION

Verification Laboratory	Re/Gent B.V	Address	Lage Dijk 22Netherlands
Telephone	+31492 476365	Email	patrick.beks@re-gent.nl
Verification Report Reference	Re/Gent B.V. 25319/BM28/V1		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei Hosingen Luxemburg Luxembourg

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	HBCD-220
IMD-PQS Code:	E003-165
Status:	Prequalified
Date of acceptance:	21 May 2026
Appliance type:	E003
Product description:	Combined icelined refrigerator/waterpacks freezer
Manufacturer:	Qingdao Haier Biomedical Co., Ltd
Manufacturers Reference:	HBCD-220
Country of Manufacture:	China
Address:	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China
Telephone:	+86-15066227057
Email:	tianhui.yu@haierbiomedical.com
Website address:	http://www.haiermedical.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Humidity Control	Other	Humidity Control (Other)	Optional active dehumidification module
Freeze protection	Grade A	Hold over time (hours:mn)	141.7
External dimensions length (mm)	915.00	External dimensions width (mm)	920.00
External dimensions height (mm)	1860.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Energy source	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional	Energy Consumption During Freezing (kWh/24h)	1.1000
Energy Consumption Intermittent Power (kWh/24h)	0.7600	Energy Consumption Cool Down (kWh/24h)	0.8900
Energy Consumption Continuous Power (kWh/24h)	1.5000		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	146.000	Refrigerator's gross volume (Litres)	180.000
Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	0.00

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	waterpack	Freezer net volume	22.4
Freezer's gross volume (Litres)	40.00	Waterpack freezing capacity (Kg/24 hrs)	3.20
Waterpack storage capacity (Litres)	22.40		

PRICE AND SHIPPING

Shipping volume (m3)	1.86	Shipping weight (kg)	234.00
Minimum order	1.00	Units per package	1.00

Incoterms	EXW	Year of base price	2025
QUALITY STANDARD			
Quality Standard	ISO 9001: 2000	Specification Reference	Applicable PQS specification: E003/RF03.7 Applicable PQS VP: E003/RF03-VP.5
VERIFICATION			
Verification Laboratory	CHEARI	Address	#29 Xia Jie Street, Xuan Wu district Beijing 100053 R. P. de ChineChina
Telephone	+86 1063162443	Email	gongcx@cheari.com
Verification Report Reference	WB-25-0098		
PRODUCT SITES			
Organization name	Qingdao Haier Biomedical Co., Ltd		
Address	No.280 Fengyuan Road High-tech Zone Qingdao Shandong China		
Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</i>

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



E003: Refrigerators and freezers



Product name:	TCW 110VF AC
IMD-PQS Code:	E003-166
Status:	Prequalified
Date of acceptance:	25 May 2026
Appliance type:	E003
Product description:	Other
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 110VF AC
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsistemas.com
Website address:	www.bmedicalsistemas.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Relative Humidity (Min)	5.00	Relative Humidity (Max)	80.00
Hold over time (hours:mn)	16:07	External dimensions length (mm)	780.00
External dimensions width (mm)	1320.00	External dimensions height (mm)	910.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Ambient temperature during testing (°C)	43.00	Fuel and refrigeration cycle	Electric - Compression
Energy source	Electric Mains 220-240V 50/60 Hz	Lining	Ice
Energy Consumption Cool Down (kWh/24h)	2.3190	Energy Consumption Continuous Power (kWh/24h)	2.3180

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	114.000	Refrigerator's gross volume (Litres)	142.000
Autonomy (hrs:mn)	16:07	Refrigerant type	R290
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Vaccine Freezer	Freezer net volume	114
Freezer's gross volume (Litres)	142.50		

Comments	This product include the latest EMS Vaccine Cold Chain from B Medical Systems. It consists of Level 2 (advanced local monitoring) remotely upgradeable to Level 3 (advanced remote monitoring including cloud platform Vaclog). Monitoring level can be selected at the time of order. This product also include the latest generation voltage stabilizer with advanced surge protection already compatible with PQS_E007_VS01.6. A led lighting is also included to allow a proper visibility of the storage compartment at night.
List of accessories	Device is supplied with: 2 Keys 2 spacers 2 baskets top 2 baskets bottom 1 wrench 10 8A Fuses 1 Travel plug 1 user manual 1 recycling instruction 1 brush

List of spare parts, Reference & Price	296.9768.82 VCC COLD CHAIN CONTROLLER TBC - INTERNAL VOLTAGE STABILIZER 296.9805.13 SENSOR TEMPERATURE REGULATION 296.9805.18 SENSOR HUMIDITY 292.9960.13 FAN 296.9706.79 STARTING CAPACITOR 296.9701.72 COMPRESSOR 296.9706.81 COMPRESSOR MOTOR PROTECTOR 296.9706.80 STARTING RELAY Other spare parts available upon request to local service provider or B Medical Systems
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PRICE AND SHIPPING

Shipping volume (m3)	1.128	Shipping weight (kg)	169.10
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	For quantities between 1-39 pcs: 5,690 EUR EXW
Price 2	For quantities between 40-99 pcs: 5,406 EUR EXW	Price 3	For quantities above 100pcs: 5,121 EUR EXW
Year of base price	2026		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001, ISO 13485, ISO 14001
Specification Reference	E003/FZ01-VP.2		

VERIFICATION

Verification Laboratory	Re/Gent B.V	Address	Lage Dijk 22Netherlands
Telephone	+31492 476365	Email	patrick.beks@re-gent.nl
Verification Report Reference	Re/Gent B.V. 25321/BM30/V1		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei Hosingen Luxemburg Luxembourg

Current PQS status:	Prequalified	Valid until:	31 May 2027
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.



E003: Refrigerators and freezers



Product name:	TCW 240VF AC
IMD-PQS Code:	E003-167
Status:	Prequalified
Date of acceptance:	26 May 2026
Appliance type:	E003
Product description:	Other
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 240VF AC
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsistemas.com
Website address:	www.bmedicalsistemas.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Relative Humidity (Min)	5.00
Relative Humidity (Max)	80.00	Hold over time (hours:mn)	17:13
External dimensions length (mm)	780.00	External dimensions width (mm)	1665.00
External dimensions height (mm)	910.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Fuel and refrigeration cycle	Electric - Compression	Energy source	Electric Mains 220-240V 50/60 Hz
Lining	Ice	Energy Consumption During Freezing (kWh/24h)	2.7970
Energy Consumption Cool Down (kWh/24h)	2.8140		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	240.000	Refrigerator's gross volume (Litres)	2679.000
Autonomy (hrs:mn)	17:13	Refrigerant type	R290
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Vaccine Freezer	Freezer net volume	240
Freezer's gross volume (Litres)	267.91		

Comments	This product include the latest EMS Vaccine Cold Chain from B Medical Systems. It consists of Level 2 (advanced local monitoring) remotely upgradeable to Level 3 (advanced remote monitoring including cloud platform Vaclog). Monitoring level can be selected at the time of order. This product also include the latest generation voltage stabilizer with advanced surge protection already compatible with PQS_E007_VS01.6. Available as an option in 115V 60Hz power supply.
List of accessories	2 Keys 2 spacers 4 baskets top 2 baskets bottom 1 wrench 1 brush 1 Travel plug 1 user manual 1 recycling instruction 10 8A Fuses

List of spare parts, Reference & Price	296.9768.82 VCC COLD CHAIN CONTROLLER 292.2904.39 - INTERNAL VOLTAGE STABILIZER 292.2904.75 - ECU VOLTAGE STABILIZER 296.9805.13 SENSOR TEMPERATURE REGULATION 296.9805.18 SENSOR HUMIDITY 292.9960.13 FAN 296.9706.79 STARTING CAPACITOR 296.9701.72 COMPRESSOR 296.9706.81 COMPRESSOR MOTOR PROTECTOR 296.9706.80 STARTING RELAY
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PRICE AND SHIPPING

Shipping volume (m3)	1.41	Shipping weight (kg)	205.30
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	For quantities between 1-39 pcs: 6,490 EUR EXW
Price 2	For quantities between 40-99 pcs: 6,166 EUR EXW	Price 3	For quantities above 100pcs: 5,841 EUR EXW
Year of base price	2026		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO9001, ISO14001, ISO13485
Specification Reference	E003/FZ01-VP.2		

VERIFICATION

Verification Laboratory	Re/Gent B.V	Address	Lage Dijk 22Netherlands
Telephone	+31492 476365	Email	patrick.beks@re-gent.nl
Verification Report Reference	Re/Gent B.V. 25322/BM31/V1		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei Hosingen Luxemburg Luxembourg

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	VLS 086A RF AC
IMD-PQS Code:	E003-168
Status:	Prequalified
Date of acceptance:	26 May 2026
Appliance type:	E003
Product description:	Combined icelined refrigerator/waterpacks freezer
Manufacturer:	Vestfrost Solutions
Manufacturers Reference:	VLS 086A RF AC
Country of Manufacture:	Denmark
Address:	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark
Telephone:	+45 7914 2527
Email:	clc@vestfrostsolutions.com
Website address:	http://vestfrostsolutions.com/
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Humidity Control	Passive	Freeze protection	Grade A
Hold over time (hours:mn)	130:17	External dimensions length (mm)	1190.00
External dimensions width (mm)	655.00	External dimensions height (mm)	925.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Ambient temperature during testing (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	AC	Lining	Ice-lined
Energy Consumption During Freezing (kWh/24h)	1.5750	Energy Consumption Intermittent Power (kWh/24h)	1.3380
Energy Consumption Cool Down (kWh/24h)	1.3380	Energy Consumption Continuous Power (kWh/24h)	1.3650

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	57625.000	Refrigerator's gross volume (Litres)	77.000
Refrigerant type	R600a	Solar radiation ref period (kWh/m2/day)	3.50

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	AC	Freezer net volume	50
Freezer's gross volume (Litres)	50.00	Waterpack freezing capacity (Kg/24 hrs)	2.40
Waterpack storage capacity (Litres)	16.80		

Comments	Unit equipped with unique QR code, that can be used along Vestfrost Solutions Unit tracker APP, containing various installation/service features. As option the appliance can be supplied with Vestfrost in-built EMS Level 2 and 3; with following features: 1: 5" touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor power 5: lid opening alarm 6: GPS coordinates via Google maps 7: 1X USB 5V Solar harvesting port. All data collected/logged is automatically via GSM uploaded to Vestfrost EMS performance data-portal, and/or can be accessed onsite from the touch screen menu, or USB C data access port.
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List of accessories	1Appliance supplied with, 1 x Vaccine storage top basket, bottom grating; Electronic temperature reading from 5" display, if L2/3 - 5" Touch Display; Locking lid + keys; 1x instruction manual 1x technical/service manual if EMS L2/3, additional EMS instruction manuals
List of spare parts, Reference & Price	1x 7020545 Voltage stabilizer controller 1x 7021143 VLS Thermostat 1x 8-036510021 Compressor - Complete, incl. Run. Cap, starting device 1x 7090546 Sensor kit, 1050mm

PRICE AND SHIPPING

Shipping volume (m3)	1.17	Shipping weight (kg)	160.00
Minimum order	1.00	Units per package	1.00
Incoterms	FCA	Price 1	4.769
Price 2	4.629	Price 3	4535
Year of base price	2025		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001:2015; ISO 14001:2015; ISO 45001:2018
Specification Reference	PQS specification: E003/RF03.7 PQS VP: E003/RF03-VP.5		

VERIFICATION

Verification Laboratory	Danish Technological Institute	Address	Gregersensvej DK-2630 Taastrup DanemarkDenmark
Telephone	+45 72202472	Email	hans.walloe@teknologisk.dk
Verification Report Reference	300-KLAB-24-155		

PRODUCT SITES

Organization name	Vestfrost Solutions
Address	A/S Vestfrost Falkevej 12 Esbjerg Ø Syddanmark Denmark

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	TCW 40F SDD
IMD-PQS Code:	E003-169
Status:	Prequalified
Date of acceptance:	28 May 2026
Appliance type:	E003
Product description:	Solar direct drive freezer
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 40F SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsistemas.com
Website address:	www.bmedicalsistemas.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Relative Humidity (Min)	30.00
Relative Humidity (Max)	85.00	Hold over time (hours:mn)	12:00
External dimensions length (mm)	780.00	External dimensions width (mm)	1055.00
External dimensions height (mm)	910.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Fuel and refrigeration cycle	Electric - compression
Energy source	Solar Direct Drive	Lining	PCM
Energy Consumption During Freezing (kWh/24h)	0.6000	Energy Consumption Cool Down (kWh/24h)	0.6250

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Autonomy (hrs:mn)	12:00	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Rapid water-pack freezer	Freezer's gross volume (Litres)	64.00
Waterpack freezing capacity (Kg/24 hrs)	3.60	Waterpack storage capacity (Litres)	18.00

Comments	Prices include the solar system: SG490 RGA Energy sources: nominal 37 V DC solar electric array. Minimum power 490 watts at solar radiation reference period 3.5 kWh/m2/day Freezer net volume: 50 - 110 L Range freezing capacity: 5 kg/24h Range waterpack storage capacity: 20 - 100L Water-pack freezing capacity: 18kg = 30 Water-packs 0.6L
List of accessories	2 Keys 2 spacers 8 waterpacks 0.6l 8 waterpack holders 8 waterpack caps 1 brush 1 compass 1 wrench 1 basket 1 user manual 1 recycling instructions
List of spare parts, Reference & Price	296.9768.82 VCC COLD CHAIN CONTROLLER 296.9705.37 POWER MANAGEMENT MODULE 296.9805.13 SENSOR TEMP REGULATION 296.9805.18 SENSOR HUMIDITY REFRIGERATOR 296.9705.38 EBOX 292.9960.13 FAN 296.9702.17 COMPRESSOR Other parts are available as spares on request.

PRICE AND SHIPPING

Shipping volume (m3)	0.908	Shipping weight (kg)	122.00
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Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	For quantities between 1-39 pcs: 7,490 EUR EXW
Price 2	For quantities between 40-99 pcs: 7,116 EUR EXW	Price 3	For quantities above 100pcs: 6,741 EUR EXW
Year of base price	2026		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001 & ISO 13485
Specification Reference	Applicable PQS specification: E003/FZ03.3 Applicable PQS VP(s): E003/FZ03-VP.1		

VERIFICATION

Verification Laboratory	Re/Gent B.V	Address	Lage Dijk 22Netherlands
Telephone	+31492 476365	Email	patrick.beks@re-gent.nl
Verification Report Reference	Re/Gent B.V. BM34/25335/V1		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei Hosingen Luxemburg Luxembourg

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</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



Product name:	TCW 40C AC
IMD-PQS Code:	E003-170
Status:	Prequalified
Date of acceptance:	09 Jun 2026
Appliance type:	E003
Product description:	Combined icelined refrigerator/waterpacks freezer
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW 40C AC
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei Hosingen Luxembourg Luxembourg
Telephone:	+ 35 2 92 07 311
Email:	info@bmedicalsistemas.com
Website address:	www.bmedicalsistemas.com
Valid until:	31 May 2027

Specifications

PRODUCT SPECIFICATIONS - MAIN

Climate zone	Hot	Minimum rated ambient temperature (°C)	5.00
Relative Humidity (Min)	28.00	Relative Humidity (Max)	85.00
Freeze protection	Grade A	Hold over time (hours:mn)	98:00
External dimensions length (mm)	780.00	External dimensions width (mm)	1055.00
External dimensions height (mm)	910.00	Appliance tested at (°C)	43.00
Performance at" (°C)	43.00	Ambient temperature during testing (°C)	43.00
Fuel and refrigeration cycle	Electric - Compression	Energy source	Electric Mains 100-240V/50-60Hz
Lining	Ice	Energy Consumption During Freezing (kWh/24h)	1.3200
Energy Consumption Intermittent Power (kWh/24h)	1.0600	Energy Consumption Cool Down (kWh/24h)	0.9900
Energy Consumption Continuous Power (kWh/24h)	1.1600		

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	36.500	Refrigerator's gross volume (Litres)	47.000
Autonomy (hrs:mn)	144:00	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type	Water-pack freezer	Freezer net volume	4.8
Freezer's gross volume (Litres)	4.80	Waterpack freezing capacity (Kg/24 hrs)	4.80
Waterpack storage capacity (Litres)	4.80		

Comments	This product include the latest EMS Vaccine Cold Chain from B Medical Systems. It consists of Level 2 (advanced local monitoring) remotely upgradeable to Level 3 (advanced remote monitoring including cloud platform Vaclog). Monitoring level can be selected at the time of order. This product also include the latest generation voltage stabilizer with advanced surge protection already compatible with PQS_E007_VS01.6. A led lighting is also included to allow a proper visibility of the storage compartment at night.		
List of accessories	- 2 keys. - 2 spacers. - 1 brush. - 1 travel plug. - 1 wrench. - baskets. - 1 user manual (user choice of language) - 1 recycling instructions. - 8 water-pack holders. - 8 water-pack 0.6l - 8 water-pack cap.		
List of spare parts, Reference & Price	296.9768.82 VCC COLD CHAIN CONTROLLER 296.9705.37 POWER MANAGEMENT MODULE 296.9805.13 SENSOR TEMP REGULATION 296.9805.18 SENSOR HUMIDITY REFRIGERATOR 296.9705.38 EBOX 292.9960.13 FAN 296.9702.17 COMPRESSOR Other spare parts available upon request to local service provider or B Medical Systems		

PRICE AND SHIPPING

Shipping volume (m3)	0.908	Shipping weight (kg)	130.20
Minimum order	1.00	Units per package	1.00
Incoterms	EXW	Price 1	For quantities between 1-39 pcs: 5,890 EUR EXW
Price 2	For quantities between 40-99 pcs: 5,596 EUR EXW	Price 3	For quantities above 100pcs: 5,301 EUR EXW
Year of base price	2026		

QUALITY STANDARD

Quality Standard	Other	Quality standard (Other)	ISO 9001 & ISO 13485
Specification Reference	Applicable PQS specification: E003/RF03.7 Applicable PQS VP: E003/RF03-VP.5		

VERIFICATION

Verification Laboratory	CEMAFROID SAS	Address	5 Avenue des Pres CS 20029 F94 266 Fresnes Cedex FranceFrance
Telephone	+33 1 49 84 84 84	Email	gerald.cavalier@cemafroid.fr
Verification Report Reference	CEMAFROID SAS WHO 25-06-Test report_TCW40CAC-corr_1		

PRODUCT SITES

Organization name	B Medical Systems Sarl
Address	17 Op der Hei Hosingen Luxemburg Luxembourg

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2027</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.