



E003: Refrigerators and freezers



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

Specifications

PRODUCT SPECIFICATIONS - MAIN

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

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

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

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

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

Comments	Prices include the solar generator system : G1=roof fixes; G2=roof adjustable. Includes for the duration of the warranty period contractually agreed: the B Medical Systems RTMD with worldwide communication, real time alarms messages for temperature and open door alerts via SMS / EMAIL, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation as this RTMD has no integrated display (however the refrigerator has a digital display). This RTMD is exclusively bundled to B Medical Systems refrigerators / freezers. Includes warranty for 3 or 10 years as the case may be. For more information and further conditions of warranty, please contact B Medical Systems Freezer net volume: 50 L Freezing capacity range: 5 kg/24h Range of holdover time: 51 - 100 hours Range vaccine storage capacity:
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List of accessories	2 baskets; 4 water-packs 0.6 L; 4 water-pack holders; 2 keys; 1 brush; 2 spacers; documentation; lockable lid; 1 compass
List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD35K Solar) - Part No.296.9702.09 1 No. E-box BD35K Solar - Part No.296.9705.32 1 No. Cold Chain Controller - Part No.296.9769.97 1 No. Fan (12V, 4.3W) - Part No.292.9960.13 1 No. Cold Chain Controller Display Board - Part No. 296.9769.91 1 No. Sensor Ice lining - Part No. 296.9804.83 Other parts are available as spares on request.

PRICE AND SHIPPING

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

QUALITY STANDARD

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

VERIFICATION

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

PRODUCT SITES

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

Current PQS status:	<i>Prequalified</i>	Valid until:	<i>31 May 2026</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.