



E003: Refrigerators and freezers



Product name:	TCW120SDD
IMD-PQS Code:	E003-124
Status:	Prequalified
Date of acceptance:	12 Jun 2021
Appliance type:	E003
Product description:	Vaccine Refrigerator / Ice-pack Freezer
Manufacturer:	B Medical Systems Sarl
Manufacturers Reference:	TCW120SDD
Country of Manufacture:	Luxembourg
Address:	17 Op der Hei 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)	790.00
External dimensions width (mm)	1620.00	External dimensions height (mm)	910.00
Appliance tested at (°C)	43.00	Performance at" (°C)	43.00
Fuel and refrigeration cycle	Electric - compression	Energy source	Solar direct drive
Lining	Ice-lined	Energy Consumption During Freezing (kWh/24h)	1.3800
Energy Consumption Cool Down (kWh/24h)	1.3100	Energy Consumption Continuous Power (kWh/24h)	1.1500

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage capacity(L)	120.000	Refrigerator's gross volume (Litres)	153.000
Autonomy (hrs:mn)	82:05	Refrigerant type	R600a
Solar radiation ref period (kWh/m2/day)	3.50		

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer net volume	50 L	Freezer's gross volume (Litres)	28.00
Waterpack freezing capacity (Kg/24 hrs)	1.60	Waterpack storage capacity (Litres)	13.20

Comments	Prices include the solar generator system: G1 = roof fixed; G2 = roof adjustable. Includes for the duration of the warranty period contractually agreed: the B-Medical systems RTMD with worldwide communication; real-time alarms messages for temperature and open door alerts via SMS/Email, GPS position using Google Maps, access to the webserver performance monitoring; compliant to WHO PQS E006/TR03.2 with one deviation, as this RTMD has no integrated display. However, the refrigerator does have a digital display. This RTMD is exclusively bundled to B Medical Systems refrigerators/freezers. It includes a warranty for 3 or 10 years. For further information on the warranty please contact B Medical Systems. Waterpack storage capacity: 22 x 0.6L
List of accessories	4 vaccine storage baskets lockable lid 2 spacers 22 waterpacks of 0.6L

List of spare parts, Reference & Price	Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor BD35K Solar - Part No. 296.9702.09 1 No. Electronic Control Unit (E-box) - Part No. 296.9705.32 1 No. Electronic Thermostat / Controller - Part No. 296.9768.69 1 No. Fan (12V, 4.3W) - Part No. 292.9960.13 1 No. Driver - Part No. 296.0945.04 1 No. Controller display board - Part No. 296.9769.91 1 No. Sensor - Part No. 296.9805.06 Other parts are available as spares on request.
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PRICE AND SHIPPING

Shipping volume (m3)	1.39	Shipping weight (kg)	187.00
Incoterms	EXW	Price 1	>100 units: G1 10,222 Euros; G2 11,281 Euros
Year of base price	2025		

QUALITY STANDARD

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

VERIFICATION

Verification Laboratory	0013X00004MI8OgQAJ	Verification Report Reference	WHO 21-03
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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 2026</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.