



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)	0.5100

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/RF05.3 Applicable PQS VP(s): E003/RF05-VP.2		

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-13-194-2		

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.