

# WHO Immunisation Devices - Performance, Quality & Safety

## **E003: Refrigerators and freezers**



Product name: VC150SDD
IMD-PQS Code: E003-048
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

United Kingdom of Great Britain and Northern Ireland

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Website address: http://www.dulassolar.org/

Valid until: 31 Dec 2025

## **Specifications**

Freeze protection

#### **PRODUCT SPECIFICATIONS - MAIN**

Continuous Power (kWh/24h)

(kWh/m2/day)

Climate zone Hot Minimum rated ambient 5.00 temperature (°C)

Grade A Hold over time (hours:mn) 83:42

External dimensions length 750.00 External dimensions width 1280.00

(mm) (mm)

External dimensions height 980.00 Appliance tested at (°C) 43.00

(mm)

Performance at" (°C) 43.00 Fuel and refrigeration cycle Electric - compression

Energy source Solar direct drive Lining PCM

Energy Consumption During 0.9500 Energy Consumption Cool 0.9300

Freezing (kWh/24h) Down (kWh/24h)

Energy Consumption 0.8800

PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

Refrigerator vaccine storage 102.000 Refrigerator's gross volume 158.100

capacity(L) (Litres)

Autonomy (hrs:mn) 77:99 Refrigerant type R600a

Solar radiation ref period 3.50

PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

Freezer type Low energy compression Freezer net volume

Freezer's gross volume 42.90 Waterpack freezing capacity 2.04

(Litres) (Kg/24 hrs)

Waterpack storage capacity 8.10

(Litres)

### Dulas VC150SDD (solar direct drive) combined vaccine refrigerator and water-pack freezer. Comments 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 RTMD 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. Supplied with 6 x refrigerator baskets, 2 x keys for the lockable handle, 1 x set of printed manuals List of accessories ('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. Included in the UNICEF Supply Division spare parts kit: 1 x Dulas SDD controller (for dual

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 Prices and other parts are available as spares on request.

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Applicable PQS specification: E003/RF05.2 Applicable PQS		
Other	Quality standard (Other)	ISO 9001:2015; ISO 14000:2015
2025		•
EXW	Price 1	€6,450 EUR per unit including solar system
1.33	Shipping weight (kg)	199.00
	EXW	EXW Price 1

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.