



## E003: Refrigerators and freezers



<b>Product name:</b>	VC60SDD
<b>IMD-PQS Code:</b>	E003-084
<b>Status:</b>	Prequalified
<b>Date of acceptance:</b>	16 Jan 2017
<b>Appliance type:</b>	E003
<b>Product description:</b>	Solar Direct Drive refrigerator
<b>Manufacturer:</b>	Dulas Ltd
<b>Manufacturers Reference:</b>	VC60SDD
<b>Country of Manufacture:</b>	United Kingdom
<b>Address:</b>	Unit 6, Beeding Close, Southern Cross Trading Estate, PO22 9TS, Bognor Regis United Kingdom of Great Britain and Northern Ireland
<b>Telephone:</b>	+44 (0)7833 297920
<b>Email:</b>	<a href="mailto:catherine.mclennan@dulas.org.uk">catherine.mclennan@dulas.org.uk</a>
<b>Website address:</b>	<a href="http://www.dulassolar.org/">http://www.dulassolar.org/</a>
<b>Valid until:</b>	31 Dec 2025

## Specifications

### PRODUCT SPECIFICATIONS - MAIN

<b>Climate zone</b>	Hot	<b>Minimum rated ambient temperature (°C)</b>	5.00
<b>Freeze protection</b>	Grade A	<b>Hold over time (hours:mn)</b>	94:11
<b>External dimensions length (mm)</b>	750.00	<b>External dimensions width (mm)</b>	1280.00
<b>External dimensions height (mm)</b>	980.00	<b>Appliance tested at (°C)</b>	43.00
<b>Performance at" (°C)</b>	43.00	<b>Fuel and refrigeration cycle</b>	Electric - compression
<b>Energy source</b>	Solar direct drive	<b>Lining</b>	PCM
<b>Energy Consumption During Freezing (kWh/24h)</b>	0.9500	<b>Energy Consumption Intermittent Power (kWh/24h)</b>	0.7800
<b>Energy Consumption Cool Down (kWh/24h)</b>	0.8000		

### PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

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

### PRODUCT SPECIFICATIONS - ADDITIONAL FREEZER

<b>Freezer type</b>	Low energy compression	<b>Freezer's gross volume (Litres)</b>	24.00
<b>Waterpack freezing capacity (Kg/24 hrs)</b>	2.40	<b>Waterpack storage capacity (Litres)</b>	13.80

<b>Comments</b>	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 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. Waterpack freezing capacity: 2.4kg or 23 x 0.6L packs Waterpack storage capacity 13.8kg or 23 x 0.6L packs
<b>List of accessories</b>	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.
<b>List of spare parts, Reference &amp; Price</b>	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.

#### PRICE AND SHIPPING

<b>Shipping volume (m3)</b>	1.33	<b>Shipping weight (kg)</b>	199.00
<b>Incoterms</b>	EXW	<b>Price 1</b>	€ 5,225.00 per unit including solar system
<b>Year of base price</b>	2025		

#### QUALITY STANDARD

<b>Quality Standard</b>	Other	<b>Quality standard (Other)</b>	ISO 9001:2015; ISO 14001:2015
<b>Specification Reference</b>	Applicable PQS specification: PQS/E003/RF05.4 Applicable PQS VP(s): E003/RF05-VP.4		

#### VERIFICATION

<b>Verification Laboratory</b>	Danish Technological Institute	<b>Address</b>	Gregersensvej DK-2630 Taastrup Danemark Denmark
<b>Phone</b>	+45 72202472	<b>Email</b>	hans.walloe@teknologisk.dk
<b>Verification Report Reference</b>	300-KLAB-16-164		

#### PRODUCT SITES

<b>Organization name</b>	Dulas Ltd
<b>Address</b>	Unit 6, Beeding Close, Southern Cross Trading Estate, PO22 9TS, Bognor Regis United Kingdom of Great Britain and Northern Ireland

<b>Current PQS status:</b>	<i>Prequalified</i>	<b>Valid until:</b>	<i>31 Dec 2025</i>
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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.