



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/059</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	VC88SDD
<b>Manufactured in:</b>	United Kingdom
<b>Company:</b>	Dulas Ltd
<b>Address:</b>	Dyfi Eco Parc Machynlleth Powys SY20 8AX United Kingdom
<b>Telephone:</b>	+ 44 (0)1654 705055
<b>Email:</b>	<a href="mailto:solar@dulas.org.uk">solar@dulas.org.uk</a>
<b>Web address:</b>	<a href="http://www.dulassolar.org/">http://www.dulassolar.org/</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	98 x 128.2 x 74.0 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	88L	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	205L	<b>Waterpack freezing capacity:</b>	
		<b>Waterpack storage capacity:</b>	
<b>Autonomy as per WHO/PQS protocols</b>	78h 09 mins	<b>At a solar radiation reference period of:</b>	3.5 kWh/m <sup>2</sup> /day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

---

Supplied as standard with Integrated Beyond ICE3 BC141 Remote Temperature Monitoring Device. Fully compliant to WHO PQS E006/TR03.2. See separate registration E006/036 for full details. Beyond's Remote Temperature Monitoring System (RTMS) provides real-time monitoring and reporting of cold chain assets in one easy to use cloud-based portal. Accessible via PC or Smartphone App and able to connect to any existing Beyond cold chain management system. PQS price includes BC141 hardware integrated to every refrigerator.

ColdCloud subscription services are an optional extra cost that can be added at purchase or retrospectively, and remotely activated without additional installation costs. For more information contact Dulas Ltd.

Integrated PCM internal lining used as part of Dulas Freeze Free technology. PCM lining complies with WHO/PQS/E005/PCMC0.1 specification

---

**Comments:****Accessories:**

Always on temperature display; Audible and visual temperature alarms with high and low alarms aligned with WHO limits; 120 days local data storage; 30-day report of temperature history available as a pdf by scanning QR code on refrigerator; Handle with in-built lock; Instruction manual; Replaceable lid gaskets; Baskets (4): 47.0 x 30.5 x 21.5 cm = 22L

---

**Spare parts (ref, price):**

Included in the UNICEF Supply Division spare parts kit:  
1 No. Compressor (Secop BD35K) - Part No. 101Z0211  
1 No. Electronic Control Unit (Secop) - Part No. 101N0410  
1 No. Dulas SDD-SC controller  
1 No. Fridge MCB- Part No. 693-CBTWF060C0  
1 No. Temperature Probe - Part No. SN4B15P1

Other parts are available as spares on request.

---

<b>Shipping volume:</b>	1.2 m3	<b>Shipping weight:</b>	129 Kg
<b>Price year</b>	2023	<b>Incoterms</b>	EXW
<b>Price</b>	>100 units €4,015.00 per complete system		
<b>Quality standard:</b>	- ISO 9001:2008 - Other - ISO 14000 -	<b>Specification ref.</b>	
<b>Verification report:</b>	300-KLAB-13-194-2	<b>Verification laboratory:</b>	Danish Technological Institute
<b>Current PQS status:</b>	<i>pre-qualified: 23 Sep 2015</i>	<b>Validity until:</b>	<i>May, 2024</i>

---

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