

PRODUCT OVERVIEW

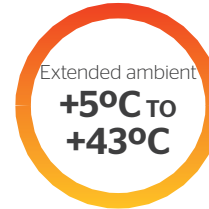
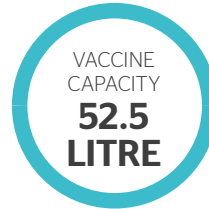
VC50SDD

Compact and cost effective WHO pre-qualified 52.5L solar direct drive vaccine refrigerator.

All of Dulas' advanced SDD technology in a smaller package - designed to provide 365 days of cold.*

Features & Benefits

- 52.5 litre vaccine storage capacity with extremely stable +2°C to +8°C internal temperature
- +5°C to +43°C extended ambient operating temperature range
- Works at WHO solar reference period 3.5kWh/m²/24h
- 74hr 15min autonomy at +43°C
- Freeze-Free® technology to ensure vaccines are never exposed to harmful sub zero temperatures.
- Corrosion tested to DIN 8985
- In-built handle with lock
- In-built solar powered temperature display
- All-metal, high strength hinges
- Heavy duty castors to make handling easier
- Grade A User-independent freeze protection (UIFP)
- Completely battery free, with plug and play connectors for easy installation
- Environmentally friendly: R600a refrigerant with low global warming potential and innovative insulation technology, giving exceptional energy efficiency
- Packaging tested to industry standards
- Tested to survive ambient storage temperatures up to +70°C
- Storage basket included
- British made
- CFC-free
- Drain hole for easy cleaning.
- LED status indicator



Integrated Solar Socket for mobile phone charging and/or temperature monitoring available according to customer requirements.



VC50SDD Technical Specifications

Performance

Net vaccine storage capacity	52.5 litre
Climate zone	Hot zone (+43°C)
Minimum rated ambient temperature	+5°C
Autonomy time	74hr 15min
Recommended solar array size	> 260Wp

Dimensions

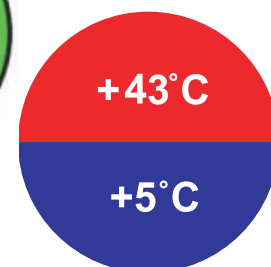
External: H x W x D (mm)	960 x 1000 x 740 (mm)
Shipping weight	115 kg
Gross volume	82 litre
Storage baskets	1

Technical Details

Operating voltage	24 to 45 Vdc
Minimum starting voltage	24 Vdc
Minimum starting power	40 W
Minimum solar radiation for continuous running	150 W/m ² (using 260 Wp array)
Compressor	Danfoss / Secop BD35K
Refrigerant	R600a

WHO Pre-qualification

Test procedure	E003/RF05-UP.4
Performance specification	E003/RF05.4
PQS reference	E003/078



Freeze-Free® is a registered trademark of Dulas Ltd.

***365 days of cold:** ensuring you always have a safe space to store vaccines

Dulas have designed our SDD range to be the most reliable providers of cold space possible. Using sophisticated computer modelling we carefully match the energy given by our solar panels to the needs of our refrigerator. With our proprietary Dulas SDD controller ensuring operation with the least amount of sunshine we design every Dulas SDD system to offer a 0% Loss of Load using worst case solar data.

Experts in Solar innovation

The Dulas Solar International team provide high quality solar solutions where there is an unreliable or nonexistent grid network. Since 1982, Dulas has supplied solar power systems throughout the world for healthcare, water supply, telecommunications, humanitarian development, education, commerce and communities.

Our products and services include solar vaccine refrigerators and freezers (certified to WHO PQS standards), training and technical advice on the use and maintenance of refrigerator systems, solar water pumping and bespoke solar generating systems for remote locations.