

VC50SDD

Compact Hot Zone rated, WHO PQS accredited,
Solar Direct Drive vaccine refrigerator,
Fully GAVI CCEOP compliant

+2 °C to
+8 °C
internal

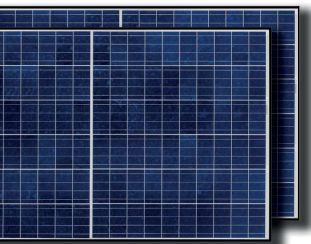
52.5 litres
vaccine capacity

>74 hour
autonomy

High-strength
metal hinges

Durable twin gasket seals
designed for easy maintenance

Plug and play
power system
for easy installation



Sturdy, lockable handle

Integrated Beyond ICE3
with temperature display
and alarm




Grade A, UIFP Freeze Free
+5 °C to +43 °C extended
operating temperature
range

Heavy-duty castors
for easy handling

Features and Benefits:

- ✓ Includes a **260 Wp** minimum solar array and mounting system
- ✓ Tested to survive **ambient storage temperatures** of up to +70 °C
- ✓ **Climate friendly** R600a refrigerant
- ✓ **CFC-free**
- ✓ Corrosion tested to meet **WHO standards**
- ✓ Lowest **Total Cost of Ownership (TCO)**

Supplied with:

-  **Three-year** manufacturer's warranty as standard
-  **One stacking basket** for easy stock management
-  **Integrated Remote Temperature Monitoring Device (RTMD)**

The VC50SDD is Hot Zone rated which means it operates at a stable +2 °C to +8 °C in an extended ambient operating range of +5 °C to +43 °C



beyond
READY

Dulas refrigerators are
now Beyond ready!

Integrated Beyond ICE3 RTMD fitted to all Dulas refrigerators as standard.

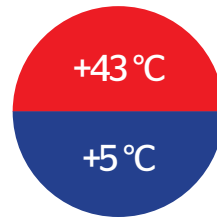


Temperature Monitoring Device

- ✓ **WHO PQS** accredited
- ✓ **120-day** local data storage accessible via USB port
- ✓ **30-day** pdf report available by scanning QR code
- ✓ **Remote activation** means no installation costs
- ✓ **Seamlessly connects** to your existing Beyond cold chain management system

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.

VC50SDD Technical specifications



Performance

Net vaccine storage capacity	52.5 litres
Gross volume	82 litres
Climate zone	Hot Zone (+43 °C)
Minimum rated ambient temperature	+5 °C
Autonomy time†	74 h 26 min at +43 °C
Solar array size	>260 Wp

Refrigerator dimensions

External dimensions (H x W x D)	975 mm x 1000 mm x 740 mm
Shipping dimensions (H x W x D)	1180 mm x 1040 mm x 825 mm
Net weight	99 kg
Shipping weight	134 kg

System dimensions

Shipping dimensions (H x W x D)	350 mm x 1780 mm x 1080 mm
Net weight	56 kg
Shipping weight	90 kg

Technical details

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

WHO pre-qualification

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

†Autonomy is the amount of time that the refrigerator can maintain the vaccine load within the temperature range of +2 °C to +8 °C with minimal solar radiation available and at the maximum rated ambient temperature.

Dulas. Experts in cold chain technology.

For over 40 years, Dulas has been a pioneer in renewable energy. Our mission is to develop and implement renewable energy solutions that improve lives, help to combat climate change, and support communities in the most remote parts of the world. Renowned for our WHO pre-qualified solar vaccine refrigerators and freezers, we continue to innovate by developing and improving our products and supporting projects in the field by providing in-depth technician and user training.

