

# VC110SDD

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

+2 °C to  
+8 °C  
internal

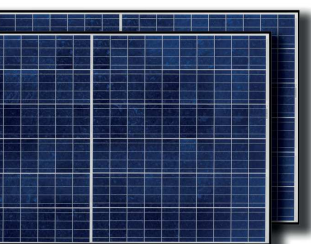
110 litres  
vaccine capacity

>78 hour  
autonomy

Sturdy, lockable handle

High-strength  
metal hinges

Plug and play  
power system  
for easy installation



Durable twin gasket seals  
designed for easy  
maintenance

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 **400 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
-  **Five stacking baskets** for easy stock management
-  **Integrated** Remote Temperature Monitoring Device (RTMD)

The VC110SDD 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.

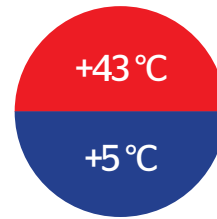


## Temperature Monitoring Device

- ✓ **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.

## VC110SDD Technical specifications



### Performance

Net vaccine storage capacity	110 litres
Gross volume	205 litres
Climate zone	Hot Zone (+43 °C)
Minimum rated ambient temperature	+5 °C
Autonomy time†	78 h 09 min at +43 °C
Solar array size	>400 Wp

### Refrigerator dimensions

External dimensions (H x W x D)	980 mm x 1282 mm x 740 mm
Shipping dimensions (H x W x D)	1180 mm x 1355 mm x 825 mm
Net weight	147 kg
Shipping weight	194 kg

### System dimensions

Shipping dimensions (H x W x D)	370 mm x 1835 mm x 1125 mm
Net weight	58 kg
Shipping weight	92 kg

### Technical details

Operating voltage	24 to 45 V d.c.
Minimum starting voltage	24 V d.c.
Minimum starting power	50 W
Minimum solar radiation for continuous running	200 W/m <sup>2</sup> (using 400 Wp array)
Compressor	Secop (Danfoss)
Refrigerant	R600a

### WHO pre-qualification

PQS reference	E003/058
Test procedure	E003/RF05.3-VP.3
Performance specification	E003/RF05.3

†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.

