

## Active Solar Direct Drive

### Vaccine refrigerator

#### TCW 3000 SDD

#### External dimensions

Height (mm)	910
Width (mm)	1270
Depth(mm)	780

#### Internal dimensions

Freezer height (mm)	-
Freezer width (mm)	-
Freezer depth (mm)	-
Refrigerator height (mm)	555 (340)
Refrigerator width (mm)	600 (330)
Refrigerator depth (mm)	420

#### Volumes

Refrigerator gross volume (litres)	187
Freezer gross volume (litres)	-
Vaccine storage capacity (litres)	156
Blood storage capacity (litres)	-

#### Ship dimensions

Weight net (kg)	122
Height (mm) Cardboard	1030
Width (mm) Cardboard	1300
Depth (mm) Cardboard	800
Volume (m3) Cardboard	1.07
Weight (kg) Cardboard	143
Height (mm) Wood	-
Width (mm) Wood	-
Depth (mm) Wood	-
Volume (m3) Wood	-
Weight (kg) Wood	-

#### Accessories

5 vaccine storage baskets  
lockable lid  
2 spacers  
1 compass  
1 basic tool kit

#### Technical details

Energy Source(s)	Solar / DC
Voltage	12-30V DC
Power	70W (at 20V DC)
Set-Point	+5°C
Compressor type	Compressor BD35K
Refrigerant	58g R600a
Thermostat	Electronic TCW SDD
Capillary tube	DU = 0.66 x 4500mm
Colour	blue according to RAL5015
CFC/HCFC free	yes
External / internal material	Polyethylene
Insulation material	100 mm Polyurethane foam / Foaming agent; Cyclopentane
Evaporator type	Rollbond
Weight fully loaded (kg)	-
Required Ice Packs	-
Installed Icelining	6 x 3.8L and 9 x 0.6L

#### Performance

Hold over time at 32°C	94.05h
Hold over time at 43°C	-
Cool down	36h
Stable running, no IP freezing, full load (intermittent energy)	0.25kWh/24h at 32°C
Autonomy test	86h56min
Energy consumption stable running	0.25kWh/24h at 32°C
Energy consumption cool down	0.34kWh/24h at 32°C
Energy consumption during freezing	-
Waterpack freezing capacity	-
max. waterpack storage capacity (kg)	-
Min rated ambient temperature	+5°C
Climate Zone	Temperate
Temperature class	-

#### Certification

WHO test procedure	E003 / RF05-VP.2
WHO specifications	E003 / RF05.2
WHO test report	Cemafruid WHO12-018
PQS Code	E003/030
Freeze protection	Grade A
Low Voltage Directive	2014/35/EC
EMC Directive	-