

MKS 044

SOLAR DRIVEN VACCINE REFRIGERATOR

POWERED
BY NATURE:
SOLARCHILL
TECHNOLOGY



VESTFROST
SOLUTIONS



BIOMEDICAL SOLUTIONS

A/S Vestfrost
Falkevej 12
DK-6705 Esbjerg Ø
www.vestfrostsolutions.com

MKS 044

SOLAR DRIVEN REFRIGERATOR

WHO APPROVED PQS CODE E003/009

Based on unique SolarChill ice bank technology MKS 044 functions safely without using batteries to power the compressor. Solar panels supply the necessary power and the icebank provides reliable temperatures in vaccine compartment – even when the sun is absent for days. Temperature is controlled and maintained by self-regulating convection between icebank and vaccine compartment.



ISO 9001, 14001 & OHSAS 18001 CERTIFIED

SPECIFICATIONS

Gross volume, litres (cu. ft.)	48 (1.7)
Vaccine storage capacity, litres (cu. ft.)	19.5 (0.7)
Temperature range, at 20°C to 32°C AMB	+2°C to +8°C
Autonomy at 32°C, hrs.	147
Hold-over time during power cut at 32°C AMB, hrs.	114
Separate icepacks on top of icebank to carry vaccine	3
Danfoss DC compressor	12/24V

DIMENSIONS

Height, mm (inches)	880 (34.6)
Width, mm (inches)	730 (28.7)
Depth, mm (inches)	700 (27.6)
Gross weight, kg (lbs)	88 (194)
Net weight, kg (lbs)	74 (163)

LOADING QUANTITIES

Qty. per 20' / 40' container	44 / 94
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FEATURES

- Reliable temperature between +2°C to +8°C
- No electricity or battery required to power the compressor
- Icebank and intelligent ancillary battery solution for fan operation provides reliable temperatures – even when the sun is absent for days
- Galvanized steel cabinet protects against corrosion
- Simple installation and easy to operate
- Maintenance free and no operation costs
- Field-tested 2 years under extreme conditions in Senegal, Cuba and Indonesia
- Delivered in solid, wooden crate

Green SolarChill Technology

- Hydrocarbon refrigerator · Cyclopentane insulation · Energy storage in natural icebank
- No pollution · No harm on the ozone layer · No contribution to global warming



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