

IceLined Refrigerators MTBBR1



Environmentally friendly IceLined refrigerator powered by Meditech Technology for safe storage of vaccines between 2°C to 8°C

Features

- Reliable temperature between +2°C to +8°C
- Only 8 hrs. of electricity needed per 24 hrs. at 43°C AMB
- Self-regulating cooling system
- Air flow system in vaccine compartment
- External cabinet and internal liner pre-painted galvanized steel
- Cooling coil of copper
- CFC-free refrigerant and insulation
- Compressor made for use in the tropics
- Solid lid with handle and lock
- 3 baskets for organized storage
- Available in 220V-240V 50/60Hz + 115V 60Hz
- Delivered in solid, wooden crate

64 Liters, 2.3 Cu feet



Temperature Variations Prevented

The Meditech BBR Series is designed to minimize cold air loss even with frequent door openings.

Separated inner doors minimize the chamber air leakage during door openings.

Foamed-in-place insulation in the walls and magnetic sealed outer doors prevent chamber air leakage and promote complete door closings

Large air circulation fan enables rapid temperature recovery after door openings

User Friendly Design

Selectable storage system **LED interior lamp** with ON/OFF switch and provide a clear view of stored items

Eye Level Digital display is easy to see, and is calibratable through the control panel Filterless construction eliminates bothersome filter cleaning

Alarm and Safety Functions

To ensure the safety of precious blood supply, the Meditech Series provides the following safety functions

Audible and flashing LED visual alarms with remote alarm contacts, in case of power failure, high or low temperature

Temperature-maintained defrost designed with thermal sensors and heaters in the evaporator, all under precise microprocessor control.

Electronic thermostat, airflow system and the specially designed icelining ensure stable temperature control in range from +2°C to +8°C. The actual temperature is readily checked on the external digital thermometer. Effective insulation and the icelining ensure long hold-over time in case of power cut. The galvanised steel cabinet protects against corrosion. Baskets included for organized storage.



Multi air-flow plenum system ensures excellent temperature uniformity in larger capacity models.

PLC Based Controller



LED INDICATION

1. Line In
2. Power
3. Comp On
4. Heater On
5. Battery On
6. Battery Low
7. Temp High
8. Temp Low
9. Power Fail
10. Sensor Fail
11. System On

Scrolling LIVE Data logger on LED screen

1. Temperature
2. Incoming Voltage
3. Ambient Temperature
4. Time in hours of revolution chart
5. Current Date
6. Current Time
7. Battery Voltage

User Friendly Settings

1. Date
2. Time
3. High Temp Alarm
4. Low Temp Alarm
5. Hysteresis
6. Compressor Delay

Model	MTBBR1
Type	Horizontal
Gross volume, litres (cu. ft.)	64 (2.3)
Vaccine storage capacity, litres / cu. ft	48 (1.7)
Temperature range at 5°C to 43°C AMB	+2°C to +8°C
Power consumption (stable running) at 43°C AMB per 24h, kW	2.30
Hold-over time during power cut at 43°C AMB, hrs.	43
Height, mm (inches) x Width, mm (inches) x Depth, mm (inches)	840 (33.1) x 720 (28.3) x 700 (27.6)
Gross weight, kg (lbs)	70 (154)
Net weight, kg (lbs)	57 (126)
Baskets	3 Nos
LOADING QUANTITIES	
Qty. per 20' / 40' container	44 / 92
Door	Solid door fitted in door-frame made of 1 8swg CR Sheet, powder coated with structure finish and filled with formed in position PUF
Cabinet material	18 swg CR Sheet - powder coated
Inner chamber	22 SWG Stainless Steel Sheet
Input voltage of BBR	Available in 220V-240V 50/60Hz + 115V 60Hz
Stabilizer	1KVA Built in stabilizer
Chamber temperature range	2°C to 8°C
Air circulation inside the chamber	Continuously operated forced air circulation using the evaporator fan
Lamp	LED Lights
Compressor	Hermetically sealed compressor
Refrigerant	R134a
Wheels	Caster wheels
Temperature sensing method	Encapsulated digital sensor dipped in 0.25% glycerine solution kept in a plastic bottle
Temperature controller	Temperature Recorder and Control Unit (TRCU)
Accuracy of temperature sensor	(+/- 0.5°C)
Display	4x7 segment LED (red) and 4x7 segment LED (green)
Display resolution	0.5°C