

Ice Lined Refrigerator



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



World Health Organization

Temperature Backup – 72 Hours.
Alarms – 12 Types of Audio Visual Alarm
Real Time Clock Date and Time.



unicef

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

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



Temperature Variations Prevented

The Meditech BBR Series is designed to minimize cold air loss even with frequent door openings. Provision for Defrosting in program

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.

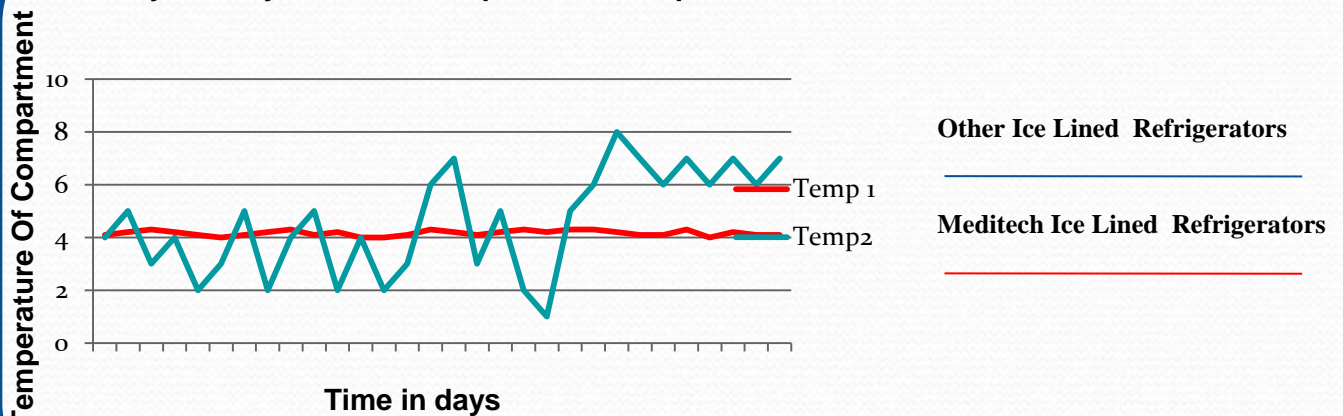
Ice Lined Refrigerator

Environmentally friendly Ice Lined refrigerator powered by Meditech Technology for safe storage of vaccine between 2°C to 6°C . Meditech Refrigerators with Anti-Freeze technology ensure perfect temperature control with no risk of freezing.

Compliant with International Standards

1. The Refrigerators are tested for WHO prequalification
2. The Refrigerators are simulated for Tropical Environment
3. All the study confirms the sturdiness of dependability of Our products

31 Days Study of Inside Compartment Temperature



Life Saving Technology for the world

- Anti-Freeze technology is in use in over 100 countries across the world. Meditech gives Free license to any manufacturer looking to market same product across the globe.

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








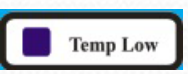



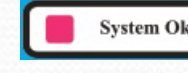
1. Temperature
2. Incoming Voltage
3. Ambient Temperature
4. Time in hours of revolution chart
5. Current Date
6. Current Time
7. Battery Voltage

User Friendly Settings

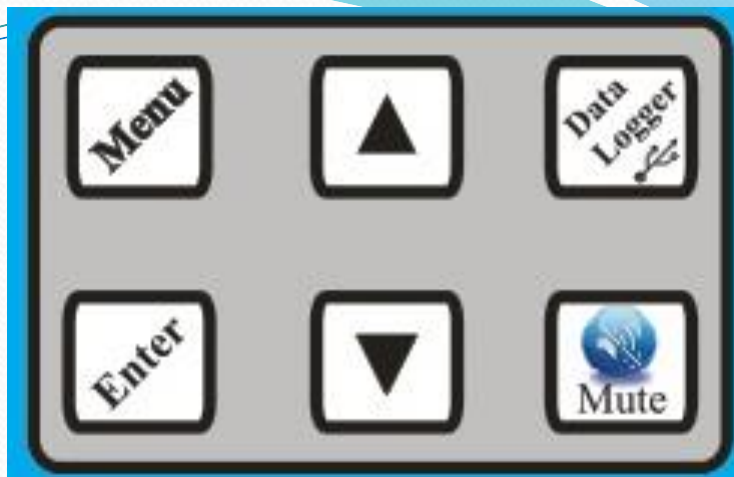
1. Date
2. Time
3. High Temp Alarm
4. Low Temp Alarm
5. Hysteresis
6. Compressor Delay










Model	MTBBR1	MTBBR2	MTBBR3	MTBBR4	MTBBR5
Type	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Gross volume, litres (cu. ft.)	64 (2.3)	153(5.3)	220(7.7)	340 (12.0)	500 (18.0)
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	1.2	1.89	2.13	2.13	3.12
Hold-over time during power cut at 43°C AMB, hrs.	24 to 72 Hours				
Baskets	3 Nos	3 Numbers	5 Nos	7 Nos	7 nos
LOADING QUANTITIES Qty. per 20' / 40' container	44 / 92	36 / 72	24 / 50	18 / 42	12/20
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				
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	(+/- 0.1°C) with Stem thermometer and stabilizer				
Display	4x7 segment LED (red) and 4x7 segment LED (green)				
Display resolution	0.1°C				

6.0 LED Indicators

Sl.No	Photos	Function Indication
1.		This LED is on when there is a power supply to the machine from the main source
2		This LED is on when the Controller is in working condition.
3		This LED is on when the compressor is in working condition
4		This LED is on when the heater is in working condition
5		This LED is on when the battery is in working condition
6		This LED is on when the battery is discharged
7		This LED is on when the inside compartment temperature of the refrigerator is high above the set temp
8		This LED is on when the inside compartment temperature of the refrigerator is Low below the set temp
9		This LED is on when there is power failure.
10		This LED is on when there is sensor fail
11		This LED is on when after 162 hours of charge change (6 hours before the completion of 7 days)
12		This LED is on when all functions of the System is in working condition

7.0 Keypad Functions



Sl.No	Photos	Function Indication
1		The Menu button is pressed to enter into MENU option.
2		The Enter button is pressed to enter into “ENTER” option.
3		The Up Arrow button is pressed to go Upwards in the menu option.
4		The Down Arrow button is pressed to go Downwards in the menu option.
5		The data logger is pressed to get the data from the PLC to the computer
6		The MUTE button is pressed to MUTE any Alarms and sounds
7		The Door Open LED is activated along with the buzzer sound indicating the Door Open function
8		The ON button is pressed to switch on the refrigerator
9		The USB is provided to connect the Refrigerator to the computer system.