

Laboratory Refrigerators



Environmentally friendly Lab refrigerator powered by Meditech Technology for safe storage and conservation of medicines and vaccines (+2°C a +8°C)

Stable Temperature Control

Temperature is controlled by two sensors located in the liquid-loaded **monitor bottles**.

Two thermistor sensors constantly monitor the temperature in both the upper and the lower part of chamber.

Microprocessor control ensures the most accurate temperature control available.



User Friendly Design

Selectable storage system **Fluorescent interior lamp** with ON/OFF switch and a **large view window** in the outer door 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 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

Door Alarm and key lock are standard features



Designed to conform to AABB criteria, the series ensures stable and reliable temperature control utilizing Meditech original technology. A special highly efficient compressor designed and used by Meditech provides rapid cooling and quiet performance for each model.

Temperature Variations Prevented

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

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

Foamed-in-place insulation in the walls and magnetic sealed outer doors with **double-pane glass window** prevent chamber air leakage and promote complete door closings

Large air circulation fan enables rapid temperature recovery after door openings

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

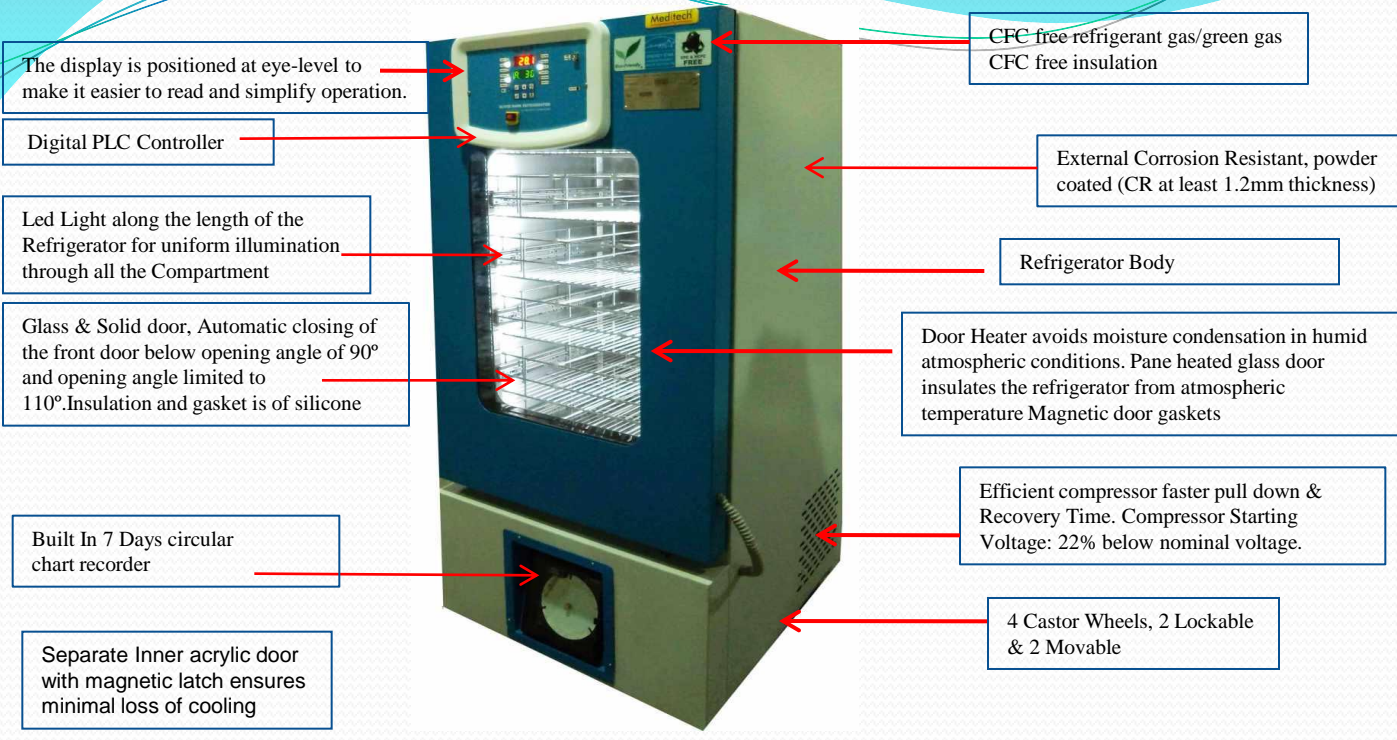
Temperature-maintained defrost designed with thermal sensors and heaters on the evaporator, all under precise microprocessor control.



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

Know your machine

Equipment meets electrical safety specification such as that of IEC (Class I)



The display is positioned at eye-level to make it easier to read and simplify operation.

Digital PLC Controller

Led Light along the length of the Refrigerator for uniform illumination through all the Compartment

Glass & Solid door, Automatic closing of the front door below opening angle of 90° and opening angle limited to 110°. Insulation and gasket is of silicone

Built In 7 Days circular chart recorder

Separate Inner acrylic door with magnetic latch ensures minimal loss of cooling

CFC free refrigerant gas/green gas
CFC free insulation

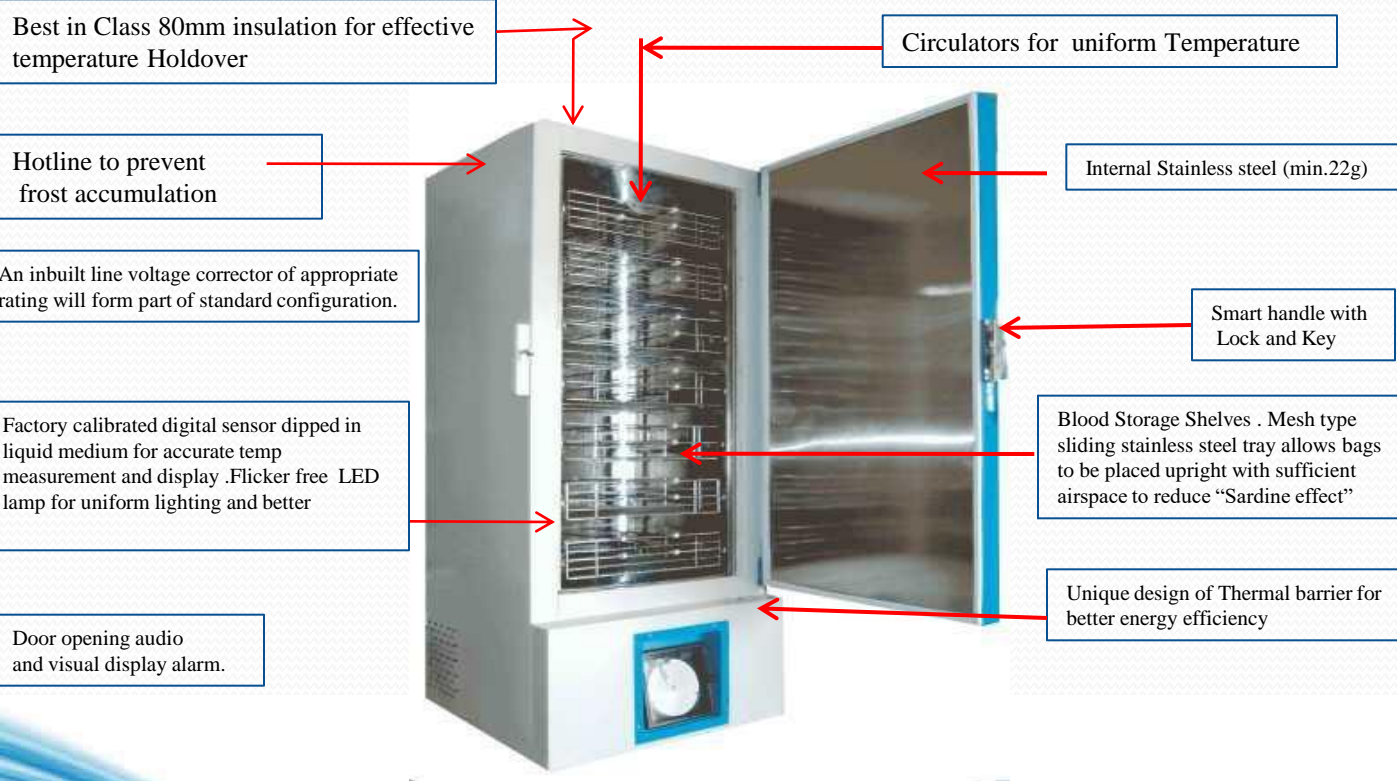
External Corrosion Resistant, powder coated (CR at least 1.2mm thickness)

Refrigerator Body

Door Heater avoids moisture condensation in humid atmospheric conditions. Pane heated glass door insulates the refrigerator from atmospheric temperature Magnetic door gaskets

Efficient compressor faster pull down & Recovery Time. Compressor Starting Voltage: 22% below nominal voltage.

4 Castor Wheels, 2 Lockable & 2 Movable



Best in Class 80mm insulation for effective temperature Holdover

Hotline to prevent frost accumulation

An inbuilt line voltage corrector of appropriate rating will form part of standard configuration.

Factory calibrated digital sensor dipped in liquid medium for accurate temp measurement and display .Flicker free LED lamp for uniform lighting and better

Door opening audio and visual display alarm.

Circulators for uniform Temperature

Internal Stainless steel (min.22g)

Smart handle with Lock and Key

Blood Storage Shelves . Mesh type sliding stainless steel tray allows bags to be placed upright with sufficient airspace to reduce "Sardine effect"

Unique design of Thermal barrier for better energy efficiency

PLC Based Controller



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

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. Chart Change
12. System On

User Friendly Settings

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

Please mention following code while ordering. W-Glass Door , M- Solid Door

Technical Specification					
Particulars	MTBBR1 LED	MTBBR2 LED	MTBBR3 LED	MTBBR4 LED	MTBBR5 LED
Temperature Control	PLC & Microprocessor	PLC & Microprocessor	PLC & Microprocessor	PLC & Microprocessor	PLC & Microprocessor
Display	LED	LED	LED	LED	LED
Capacity [Liters]	150	215	310	410	500
Number of Drawers	2	3	4	6	8
Antimicrobial material resistant to frequent washing					
Temperature	Preset at 4°C ± 1°C				
Temperature Alarm	High 6°C & Low 2°C, Audio Visual Alarm				
Internal Body Material	Stainless Steel 304 (AISI Grade, Non Corrosive, Non Magnetic)				
External Body Material	Powder Coated CRCA Steel				
Insulation	50mm Cabinet & Door	70 mm minimum for Body & 80 mm for for Door, CFC free polyurethane foam			
Illumination	Fluorescent Lamp				
Noise Level	Less Than 65 db(A)				
Battery Backup (Controller)	Rechargeable, Fully charged Sealed Maintenance Free battery runs for more than eight hours				
Line Voltage Corrector	In built of suitable rating				
Power Failure Alarm	Audio Visual Alarm				
Electrical	220-240 Volts, 50 Hz, SINGLE PHASE				