

## Bacteriological Incubator



BOD incubator powered by Meditech Technology are Environmentally friend for BOD test and storage of sensitive cultures, vaccines, culture of bacteria microorganism and plant life; serum incubation studies, Immunological work, chemicals, etc

### What is Bacteriological Incubator?

**Bacteriological incubator** is mainly used in drying of slides, tissue culture, incubation of anti body, paraffin embedding, incubation of hydroxy steroids, crystallization and microbiological determination.

### Construction of Bacteriological Incubators Chamber:

Bacteriological Incubators manufactured by Meditech are sturdy, with double walled construction. Inner chamber made of Stainless Steel.

Outer chamber is made of CRCA Steel Sheet, finished with bacteria resistant powder coating.

Special grade glass wool is used for insulation and to avoid heat losses.

shelves are adjustable to set convenient height.

Shelves are also made of Stainless Steel SS304.

The Door has Anti-Fog Double glass window for inspection of samples without opening the door.

Heater is made of high grade imported nichrome wire are put inside the porcelain beads and placed at the bottom for uniform temperature all over the space.

### Temperature Control :-

LED based smart controller is used to control Temperature from ambient to 80°C.

LED Based Display is provided with 12 types of Audio- Visual Alarm.

### Ventilation :-

The Bacteriological Incubator is fitted with air ventilators on both side to remove gases and fumes.

**Power Requirement :- 220V-50 Hz, AC supply.**



### 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.

**PLC and Microprocessor control** ensures the most accurate temperature control available.

### Temperature Variations Prevented

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

### 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

Door Alarm and key lock are standard features

Built-in temperature recorder on request

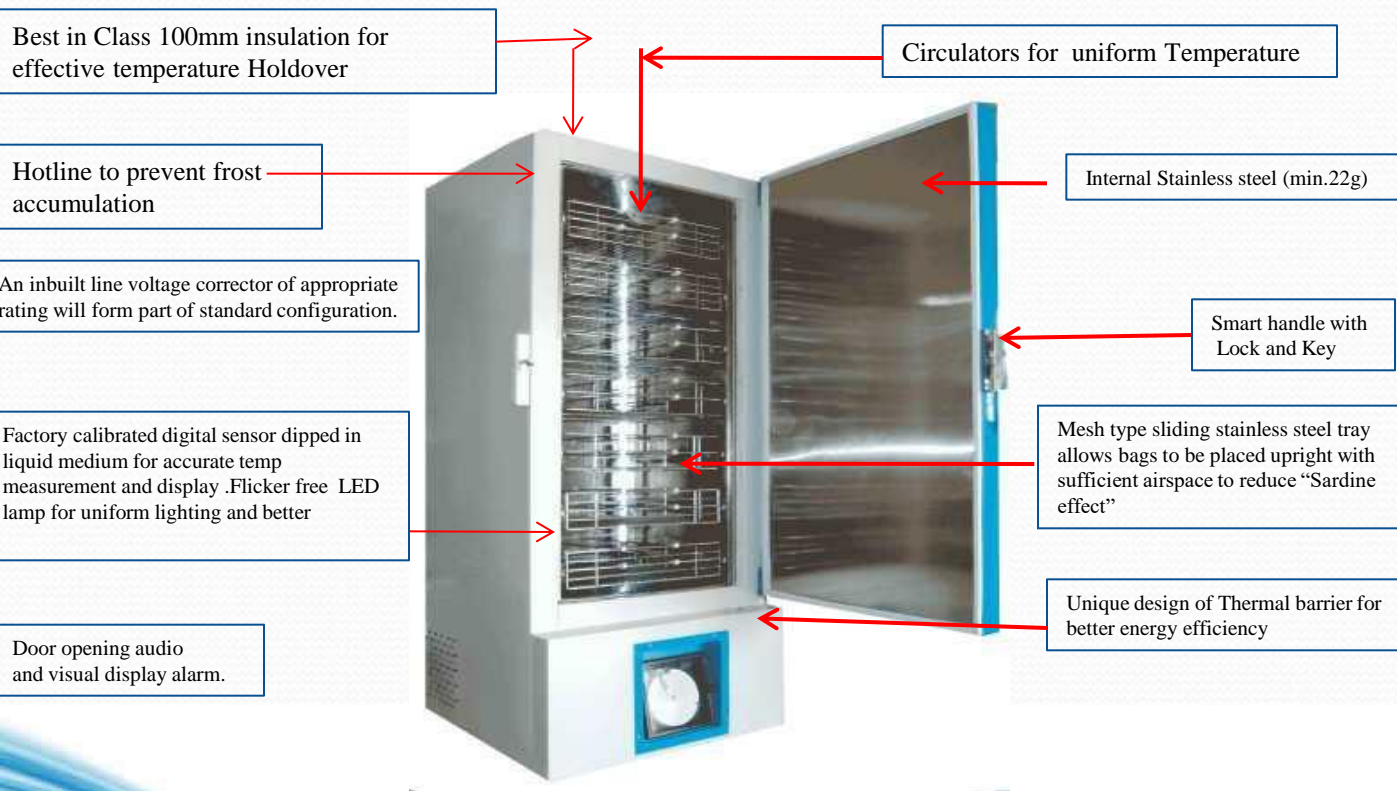
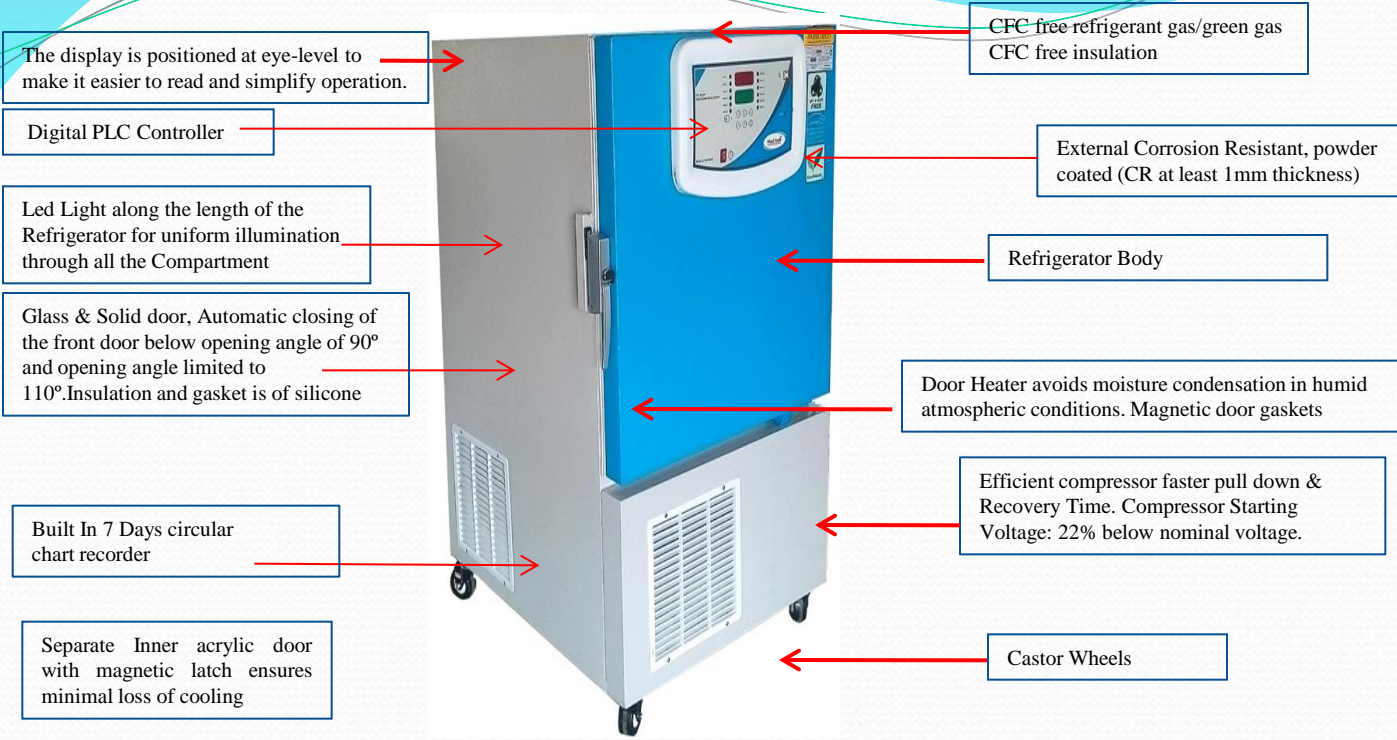
**Multi air-flow plenum system** ensures excellent temperature uniformity in larger capacity models.

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



# 2 Know your Machine

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



# PLC Based LCD 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. Chart Change
12. 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	MTBBR6	MTBBR7
Type	Vertical						
Effective storage volume liters	120 liters	200 liters	324	450	600	800	1000
Effective storage volume cu feet	4 Cu Feet	8 Cu Feet	12 Cu Feet	16 Cu Feet	21 Cu Feet	28 Cu Feet	34 Cu Feet
Trays (removable type) Stainless Steel slide out trays	4 stainless steel slide out trays	5 stainless steel slide out trays	5 stainless steel slide out trays	5 stainless steel slide out trays	5 stainless steel slide out trays	6 stainless steel slide out trays	6 stainless steel slide out trays
Miniature Circuit Breaker (MCB)	240V / 10 A						
Cabinet material	18 swg CR Sheet - powder coated						
Inner chamber	22 SWG Stainless Steel Sheet						
Input voltage of BBR	160 - 270 V, 50Hz, single phase AC						
Stabilizer	1KVA Built in stabilizer						
Chamber temperature range	-5°C to +60°C						
Air circulation inside the chamber	Continuously operated forced air circulation using the evaporator fan						
Slide out rail	Heavy duty telescopic rail						
Lamp	CF Lamp 14W / LED Lamp						
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	0.1°C						
Alarms & Indications	Line in			Visual			
	Power			Visual			
	Compressor ON			Visual			
	Heater ON			Visual			
	Temperature High			Audio - Visual			
	Temperature Low			Audio - Visual			
	Door open			Audio - Visual			
	Battery Low			Visual			
	Battery ON			Visual			
	Power failure			Audio - Visual			
	Sensor failure			Audio - Visual			
	Chart change			Visual			