

Ultra Deep Freezer -40 Degree



Environmentally friendly Ultra Deep Freezer, -40 degree powered by Meditech Technology for safe storage of Plasma Bags .

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 **LED interior lamp** with ON/OFF switch

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

Door Alarm and key lock are standard features

Built-in temperature recorder.



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 MTDF 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 prevent chamber air leakage and promote complete door closings

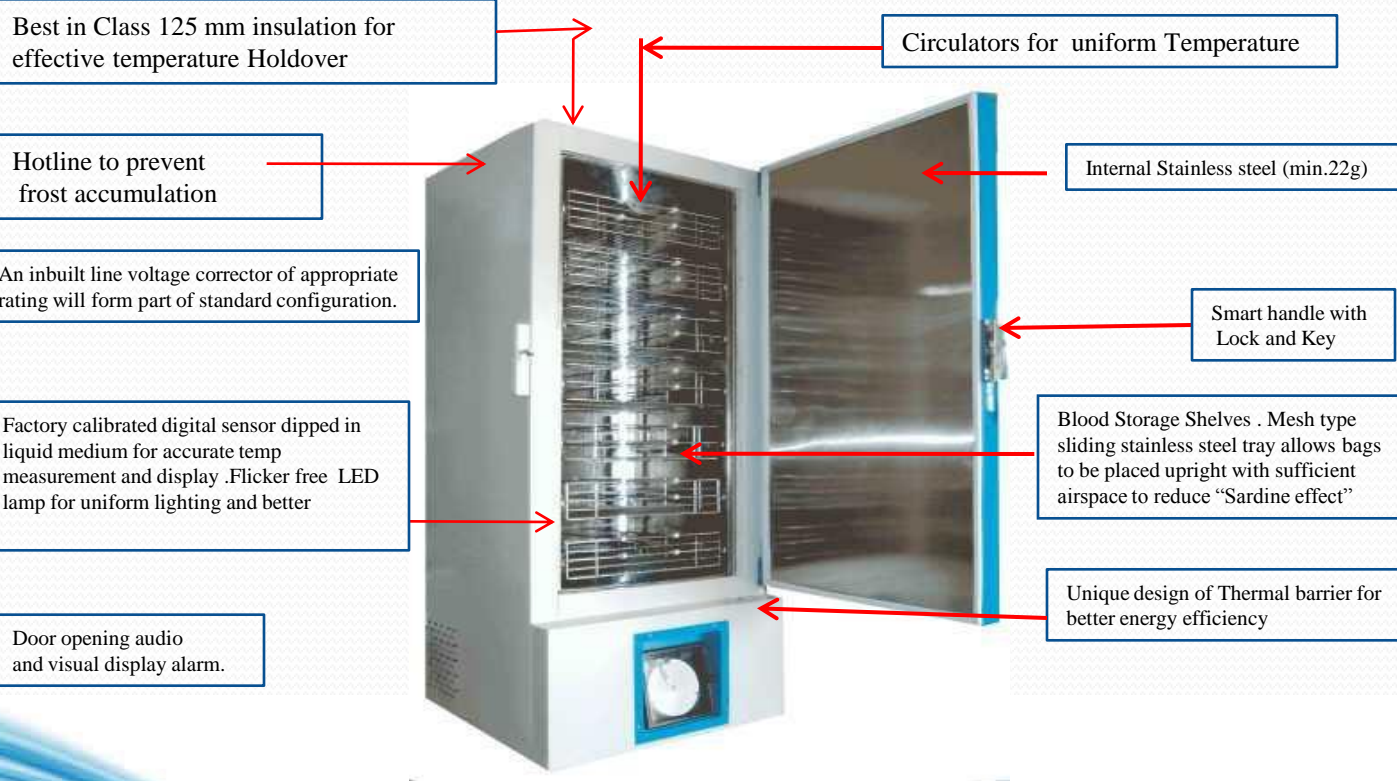
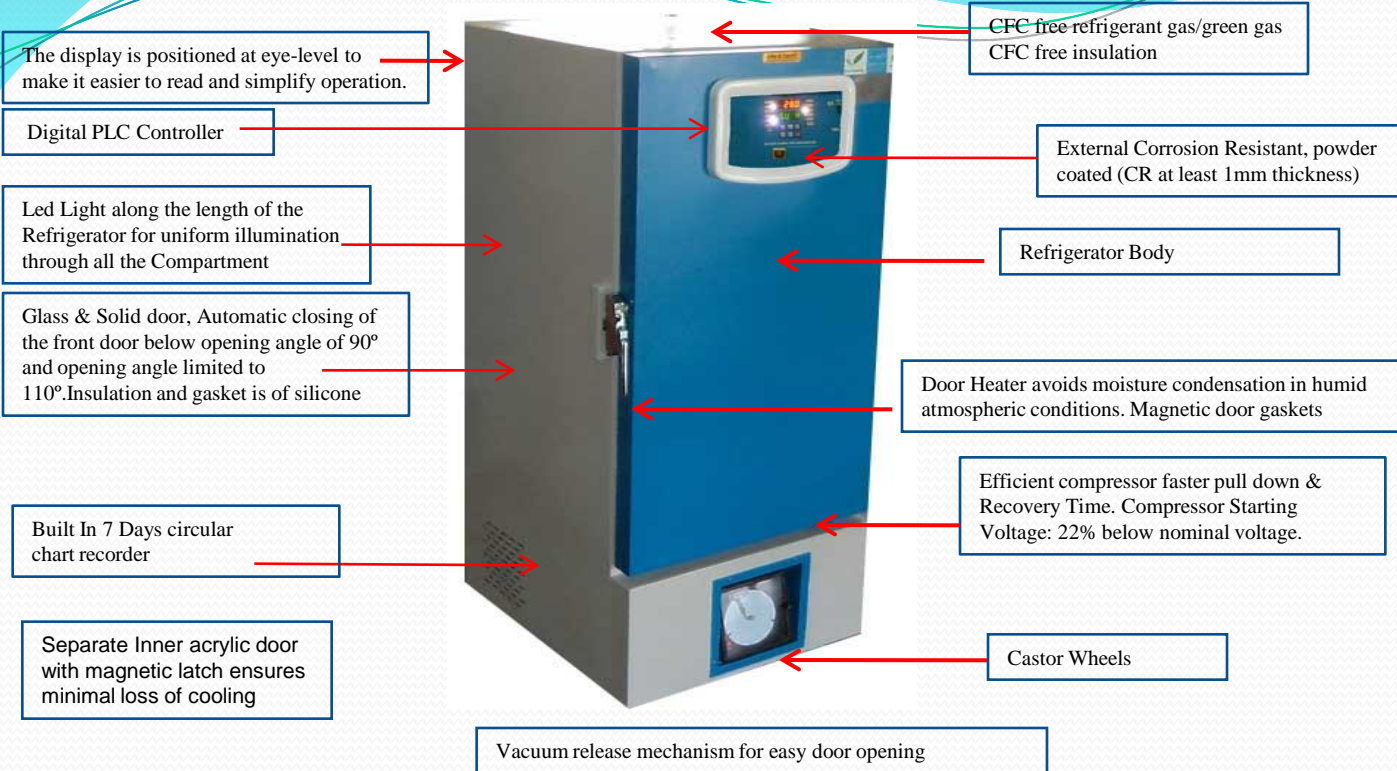
Multi air-flow plenum system ensures excellent temperature uniformity in larger capacity models.

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 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. Hysterisis
6. Compressor Delay

MTDF Series

Model	MTDF01	MTDF01 Touch Screen	MTDF02	MTDF02 Touch Screen	MTDF03	MTDF03 Touch Screen
Type	Vertical					
Effective storage volume	165 Litre		300 Litre		600 Litre	
Storage capacity per tray	80 nos of plasma bags per tray		80 nos of plasma bags per tray		80 nos of plasma bags per tray	
Trays (removable type)	3 stainless steel slide out trays		4 stainless steel slide out trays		6 stainless steel slide out trays	
Steel door	4 compartments		4 compartments		4 compartments	
Steel door hinge	SS 304					
Steel door ring	SS 304					
Dimensions (external with caster wheel x D x H) in mm	600 x 630 x 1340		600 x 630 x 1785		810 x 905 x 1750	
Dimensions (internal) (WxDxH) in mm	510 x 480 x 900		510 x 500 x 1360		705 x 770 x 1200	
Door	made of 1 8swg CR Sheet, powder coated with structure finish and filled with formed in position PUF					
Miniature Circuit Breaker (MCB)	240V / 10 A					
Cabinet material	1.5 mm thick swg CR Sheet - powder coated					
Inner chamber	1.2 mm Stainless Steel Sheet					
Input voltage	160 - 270 V, 50Hz, single phase AC					
Stabilizer	4 KVA stabilizer					
Chamber temperature range	-40°C					
Air circulation inside the chamber	Continuously operated forced air circulation using the evaporator fan					
Slide out rail	Heavy duty telescopic rail					
Lamp	LED Lamp 14W / LED Lamp					
Compressor	Hermetically sealed compressor					
Refrigerant	R404a					
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)					
Display resolution	0.5°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			

1. Meditech can manufacture freezers according to customer Specifications and size
2. Full SS Body with life time warranty available on customer demand