

Plasma Freezer -20 to -86 Degree Horizontal series



Environmentally friendly Plasma Deep Freezer, -20 Degree to -86 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.

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.

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 MTUDF 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

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:

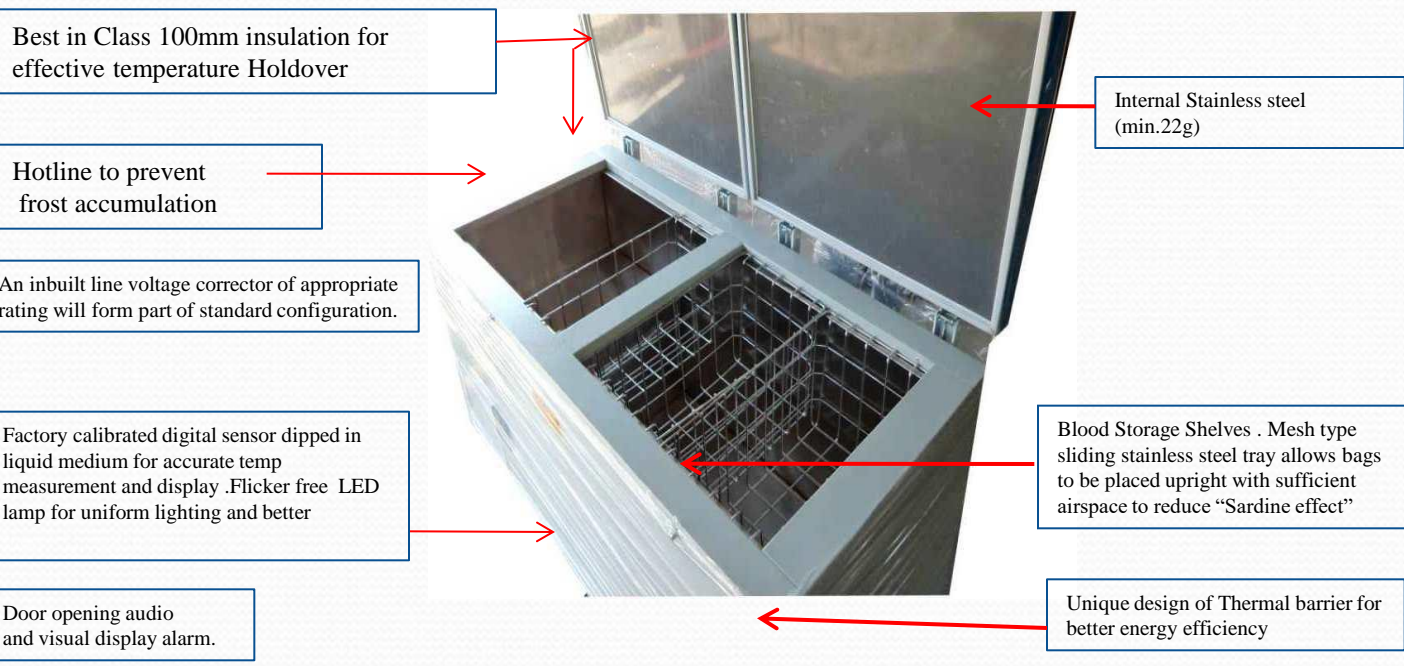
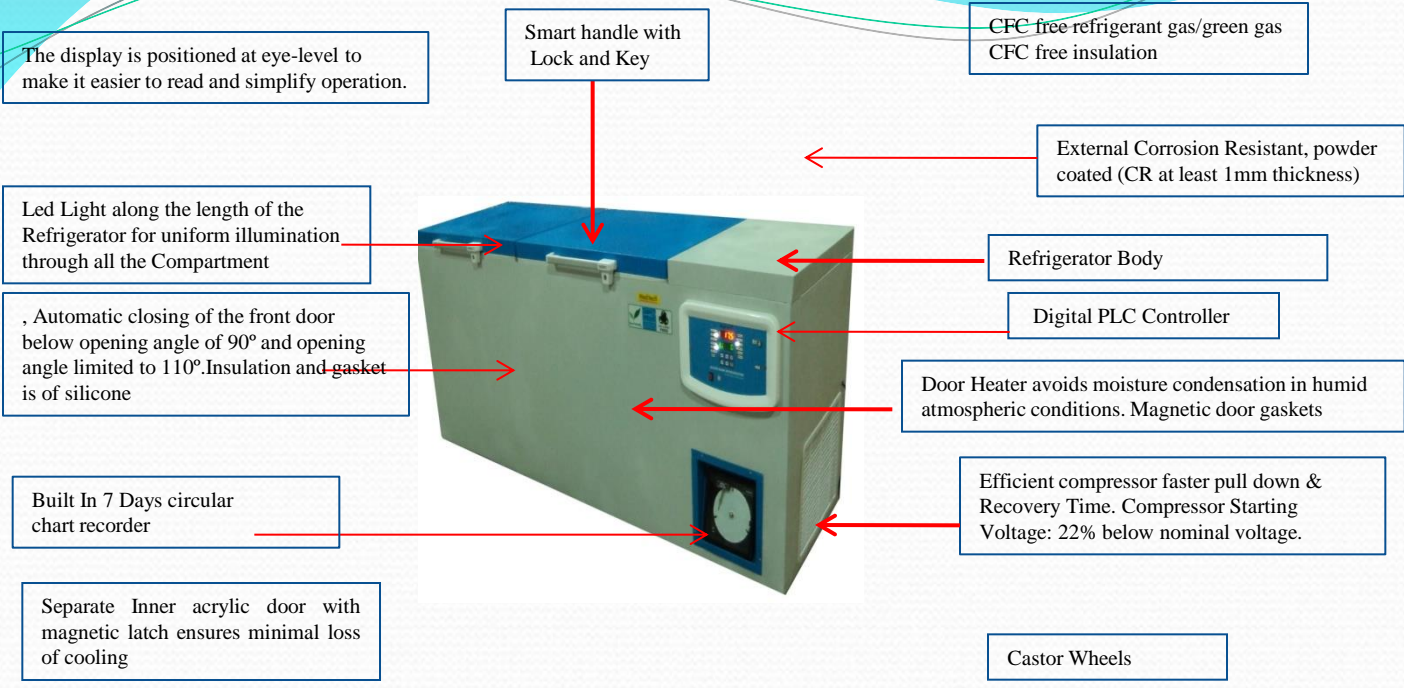
Audible and flashing LED visual alarms with remote alarm contacts, in case of power failure, high or low temperature

Door Alarm and key lock are standard features

Built-in temperature recorder.

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

MTUD Series MTUD Series

MTUD Series

Models	MTDF01 = -20 Degree C MTPF01 = -40 Degree C MTUD01 = -86 Degree C	MTDF02 = -20 Degree C MTPF02 = -40 Degree C MTUD02 = -86 Degree C	MTDF03 = -20 Degree C MTPF03 = -40 Degree C MTUD03 = -86 Degree C
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)	4 stainless steel slide out trays	4 stainless steel slide out trays	6 stainless steel slide out trays
Steel door	2 compartments	4 compartments	4 compartments
Steel door hinge	SS 304		
Steel door ring	SS 304		
Door	made of 18swg CR Sheet, powder coated with structure finish and filled with formed in position PUF		
Miniature Circuit Breaker (MCB)	240V / 10 A		
Cabinet material	18 swg CR Sheet - powder coated		
Inner chamber	22 SWG Stainless Steel Sheet		
Input voltage	160 - 270 V, 50Hz, single phase AC		
Stabilizer	4KVA stabilizer		
Chamber temperature range	(-) 20°C for MTDF (-) 40°C for MTPF (-) 86°C for MTUD		
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 for -20 and -40 . Cascade Hermetically sealed compressor – 2 nos for -86 .		
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