

Ultra Deep Freezer -80 Degree M-SERIES



Environmentally friendly Ultra Deep Freezer, -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.



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 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

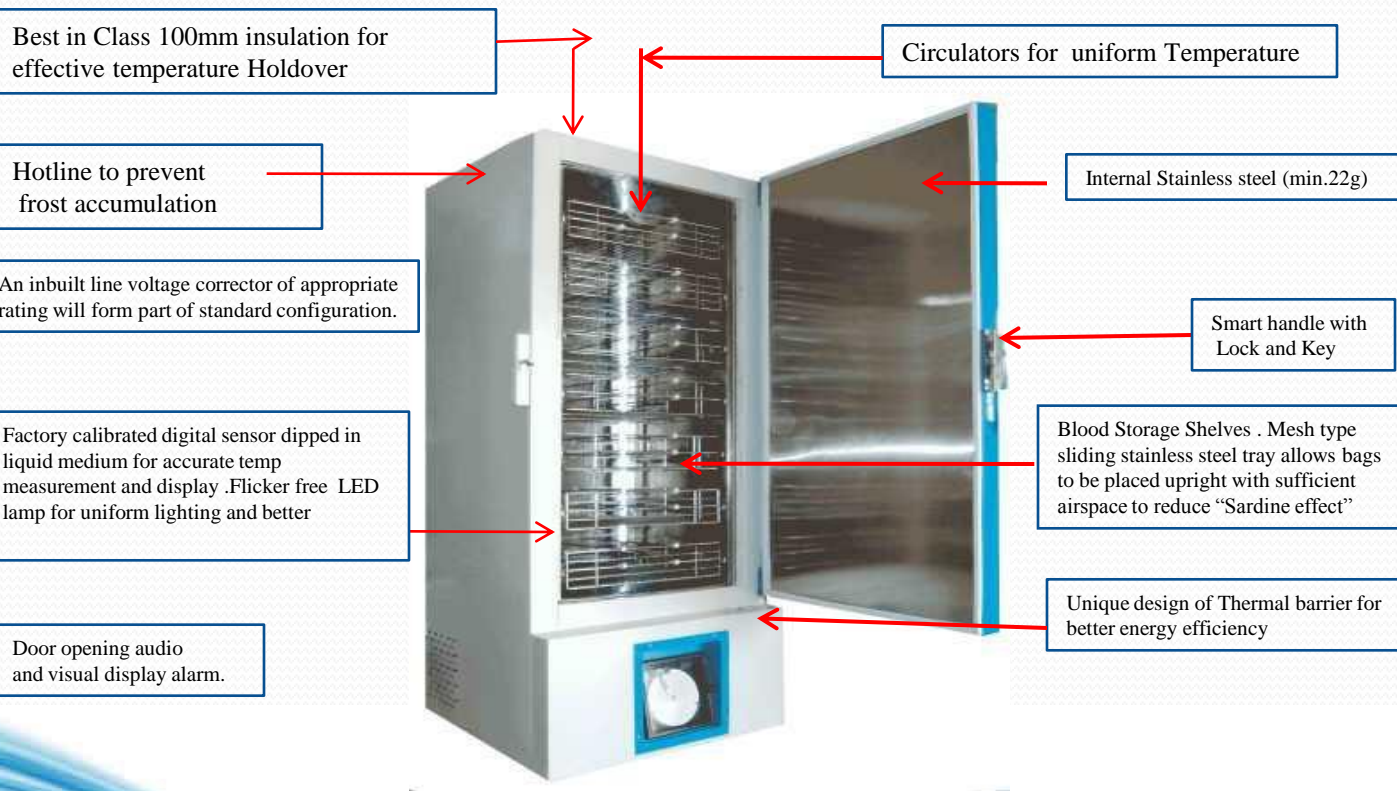
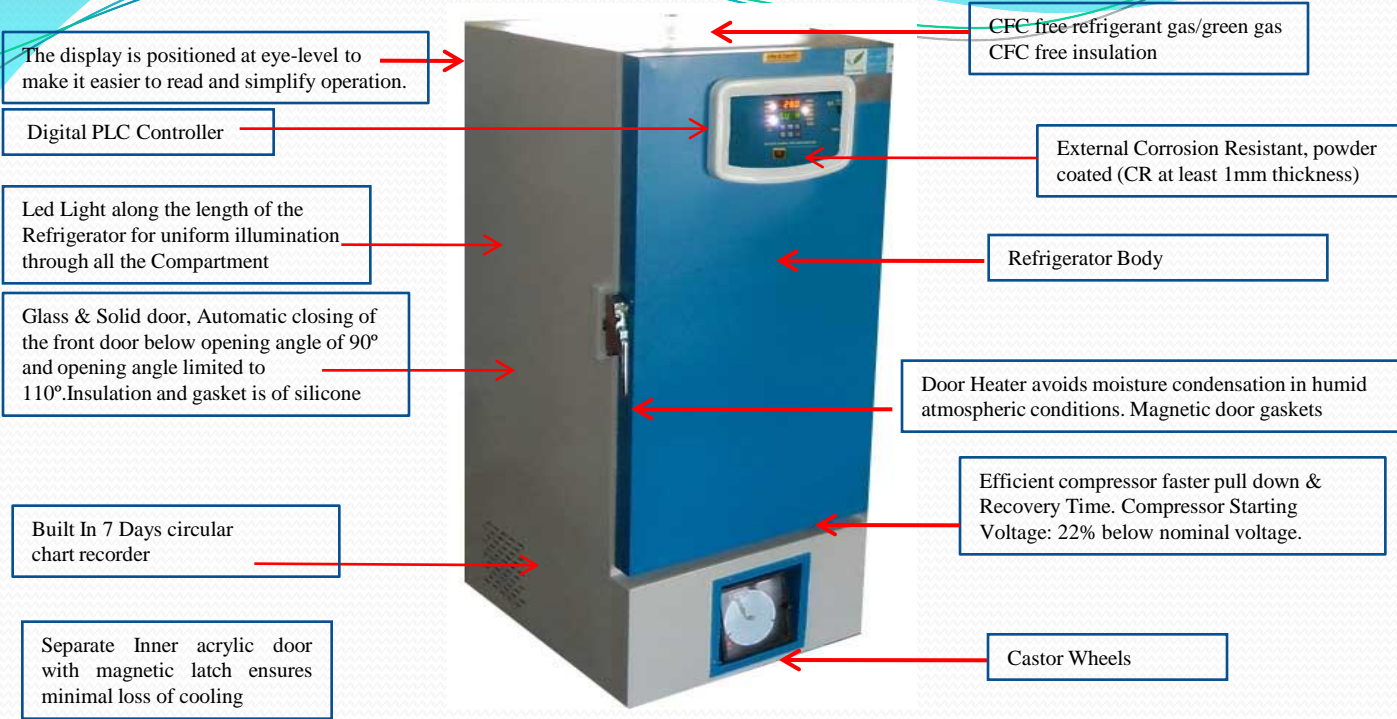
Multi air-flow plenum system ensures excellent temperature uniformity in larger capacity models.

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



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. Hysterisis
6. Compressor Delay

MTDF Series

| Model | MTUD01 | MTUD01 Touch Screen | MTUD02 | MTUD02 Touch Screen | MTUD03 | MTUD03 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 (W 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