

Ultra Deep Freezer -86 Degree Double Door



Environmentally friendly Ultra Deep Freezer, -86 degree powered by Meditech Technology for safe storage .

Stable Temperature Control

Temperature is controlled by two sensors located in the liquidloaded **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. Ultrathin vacuum insulation panel and silicon gasket on the doors for tight sealing and to reduce temperature recovery time after door opening.



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

Temperature recorder with rechargeable battery back up including charger maintenance free and insensitive to vibration. 12 Volts Battery NIMH and 1Ampere charger.

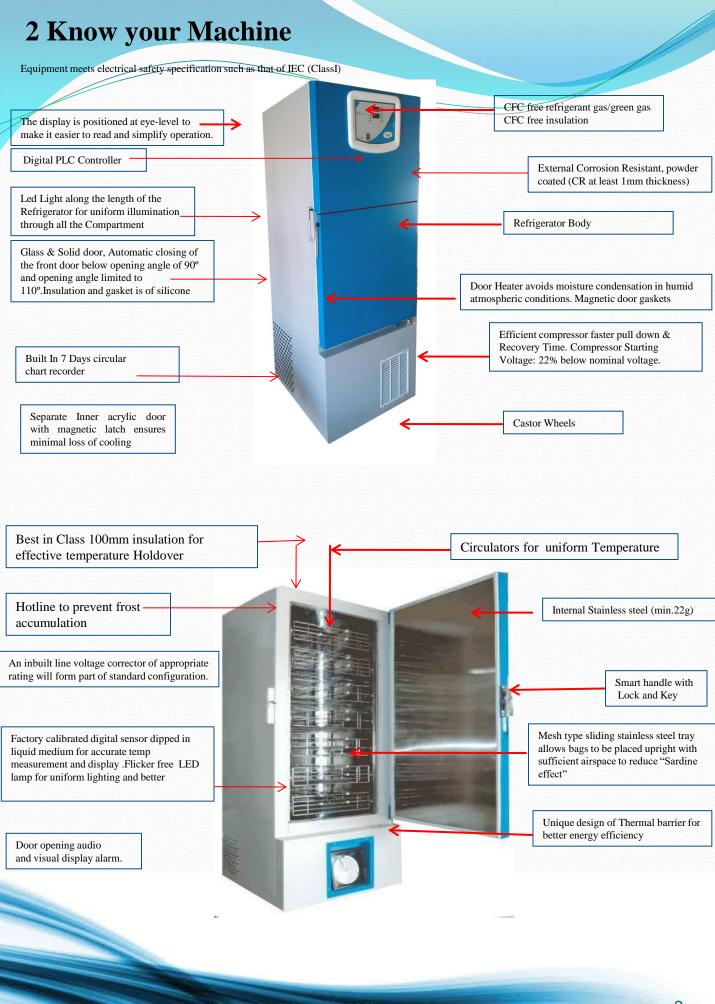
Alarm and Safety Functions

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, clean filter and key lock are standard features





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

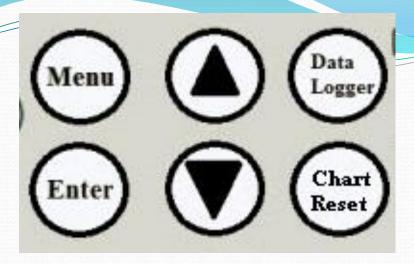
User Friendly Settings

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

6.0 LED Indicators

Sl.No	Photos	Function Indication			
1.	Line In	This LED is on when there is a power supply to the machine from the main source			
2	Power	This LED is on when the Controller is in working condition.			
3	Comp On	This LED is on when the compressor is in working condition			
4	Heater On	This LED is on when the heater is in working condition			
5	Battery On	This LED is on when the battery is in working condition			
6	Battery Low	This LED is on when the battery is discharged			
7	Temp High	This LED is on when the inside compartment temperature of the refrigerator is high above the set temp			
8	Temp Low	This LED is on when the inside compartment temperature of the refrigerator is Low below the set temp			
9	Power Fail	This LED is on when there is power failure.			
10	Sensor Fail	This LED is on when there is sensor fail			
11	Chart Change	This LED is on when after 162 hours of charge change (6 hours before the completion of 7 days)			
12	System Ok	This LED is on when all functions of the System is in working condition			

7.0 Keypad Functions



Sl.No	Photos	Function Indication			
1	Meeri	The Menu button is pressed to enter into MENU option.			
2	Enter	The Enter button is pressed to enter into "ENTER" option.			
3		The Up Arrow button is pressed to go Upwards in the menu option.			
4	▼	The Down Arrow button is pressed to go Downwards in the menu option.			
5	Drugge	The data logger is pressed to get the data from the PLC to the computer			
6	Chart Reset	This button has to be pressed after chart change.			



MTDF Series

		A MONTH OF		MTUD02		MTUD03			
Model	MTHD01	MTUD01	MTHD04	Touch Screen	MTHD02	Touch Screen			
	MTUD01 Touch Screen MTUD04 MTUD03								
Type	Vertical 165 Litre 400 Litre 650 Litre								
Effective storage volume	103 Litte		400 Litte	400 Litte		030 Litte			
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								
Door	made of 18swg CR Sheet, 2 nos 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	-50°C to -86 °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 Ol	N		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	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