

Ultra Deep Freezer, -40



Environmentally friendly Ultra Deep Freezer, -40 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.



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 and key lock are standard features

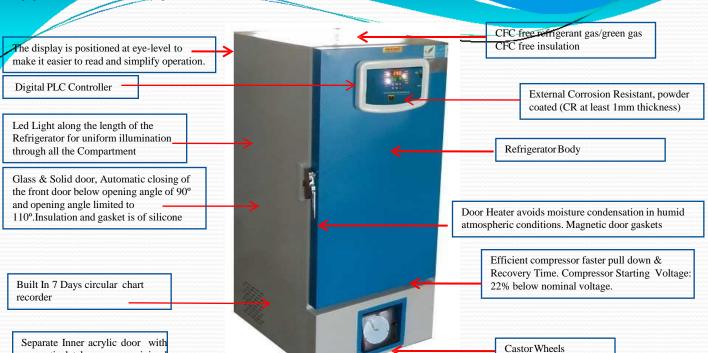


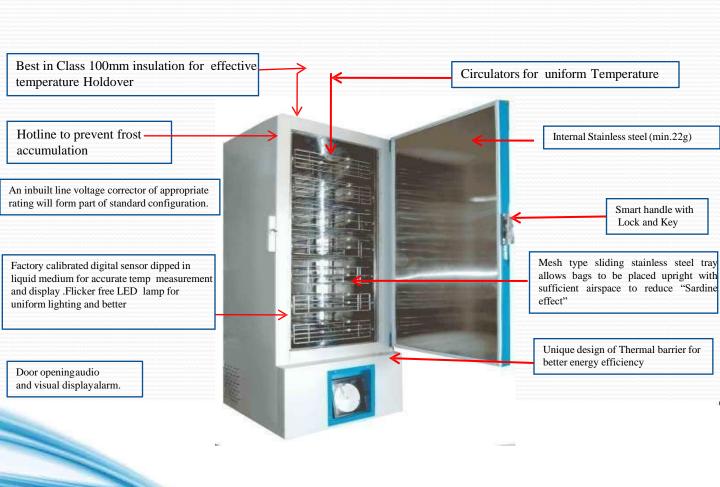
2 Know your Machine

magnetic latch ensures minimal

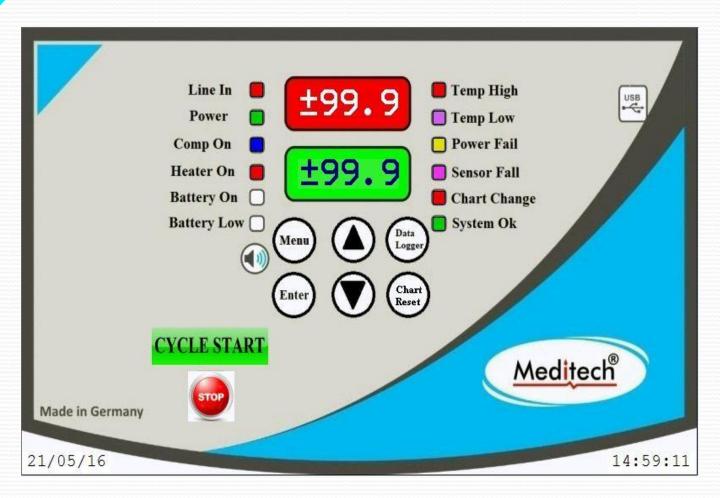
loss of cooling

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





5.0 PLC Based Touch Screen Controller



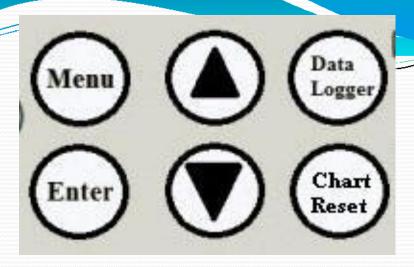
Meditech has pioneered in the field of PLC Touch Screen Controller with BMS. The PLC Based is the latest and the most effective technology which gives an individual to easily understand and operate the machine. We shall discuss in details about how to use the controller

Meditech Refrigerators has built in stabilizer

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



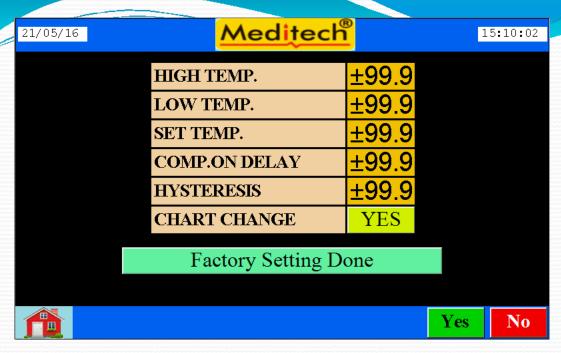
Sl.No	Photos	Function Indication
1	Theri	The Menu button is pressed to enter into MENU option.
2	Enter	The Enter button is pressed to enter into "ENTER" option.
3		The Up Arrow button is pressed to go Upwards in the menu option.
4	▼	The Down Arrow button is pressed to go Downwards in the menu option.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

8.0 MENU FUNCTIONS

21/05/16	Meditech	<u> </u>	15:08:53
HIG	н темр.	±99.9	
LOW	V TEMP.	±99.9	
SET	ТЕМР.	±99.9	
COM	IP.ON DELAY	±99.9	
HYS	TERESIS	±99.9	
СНА	RT CHANGE	YES	

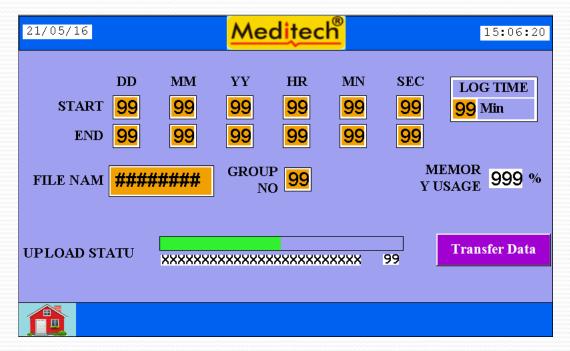
Functions	Description
High Temp	High Temperature Alarm User can set the high temperature point at which the high temperature Alarm function should work Use the up and down key to change the temperature
Low Temp	Low Temperature Alarm User can set the Low temperature point at which the Low temperature Alarm function should work Use the up and down key to change the temperature
Set Temp	Set Freezer Temperature User can set the working temperature of Freezer Use the up and down key to change the temperature
Comp On Delay	Compressor Delay at starting of Freezer used to the delay in starting the compressor. Use the up and down key to change the temperature
Hysteresis	Hysteresis Hysteresis is set to cut off and restart the compressor. If the set temperature is 2 degree C and Hysteresis is set to 4 degree C. Then the compressor will cut off after
Chart Change	Chart Change This option is used to use the chart option. Press Yes to use the chart Press NO for not using the chart

9.0 MENU SETTINGS



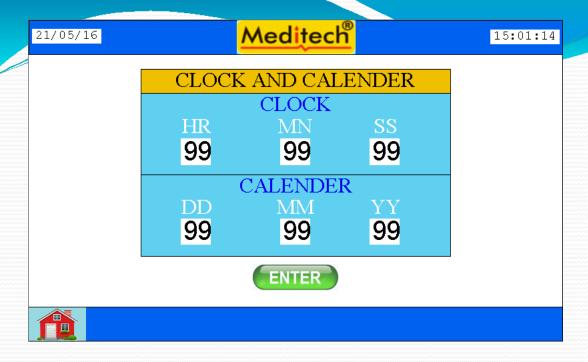
Functions	Description
Factory Setting	Factory setting is done to change all the parameters to default options.

11.0 DATALOGGER



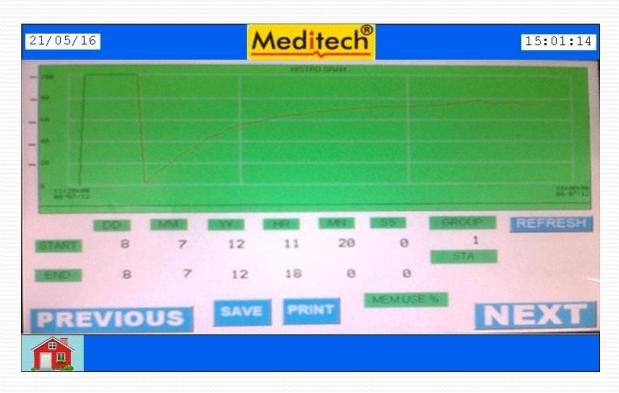
This Menu function is used to transfer Log Data to Pen Drive

10.0 CLOCK AND CALENDER



This Menu function is used to set Clock and Calender

10.0 HISTOGRAM



User can set last 24 hour temperature in graphical form. There is also option to view temperature and graph plots for last 6 months.

Data of power failure and resumption in last 24 hours with date & time.



MTUD Series

Model	MTDF01	MTDF02	MTDF03	
Type	1 CEL 's	Vertical	650 T.	
Effective storage volume	165Litre	300Litre	650 Litre	
Trays (removable type)	4 stainless steel slide out trays	6 stainless steel slide out trays	6 stainless steel slide out trays	
Steel door hinge	SS 304			
Steel doorring	SS 304			
Door	made of 1 8swg CR Sheet, powder coated with structure finish and filled with formed in position PUF			
Miniature Circuit Breaker (MCB)	240V / 10A			
Cabinetmaterial	18 SWG Galvannealed Powder coated Steel Sheet 304 Anti Bacterial			
Inner chamber	22 SWG Stainless Steel Sheet 304 Anti Bacterial			
Input voltage	160-270 V, 50Hz, single phase AC			
Stabilizer	4KVA stabilizer			
Chamber temperature range	-40°C			
Air circulation inside the chamber	Continuously operated forced air circulation using the evaporatorfan			
Operation	operating continuously in ambient temperature of 10 - 50deg C and relative humidity of 15-95%			
Slide outrail	Heavy duty telescopic rail			
Lamp	LED Lamp 14W / LED Lamp			
Compressor	Hermetically sealed compressor			
Refrigerant	R404a			
Wheels	Casterwheels			
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)			
Displayresolution	0.5°C			
Alarms & Indications	Linein	Visual		
	Power	Visual		
	Compressor ON	Visual		
	HeaterON	Visual		
	Temperature High	Audio - Visual		
	TemperatureLow	Audio - Visual		
	Dooropen	Audio - Visual		
	BatteryLow	Visual		
	BatteryON	Visual		
	Power failure	Audio - Visual		
	Sensor failure Sensor failure	Audio – Visual		
Certifications	rtifications ISO9001, ISO13485, ISO14001, CE, WHO-GMP			
SafetyStandards	Electrical safety conforms to standa	rds for electrical safety IEC-606	01	
000	·			

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

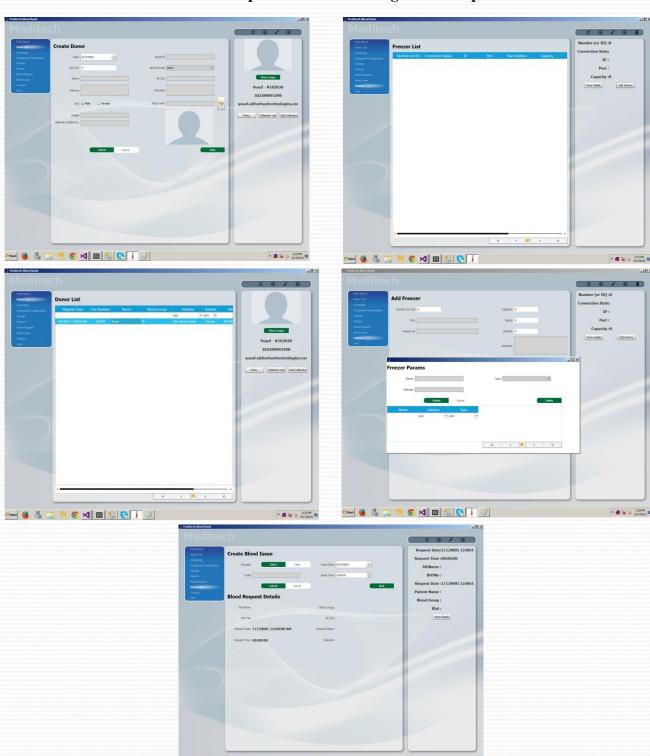
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Software for Blood Bank

Software for Blood Bank shall be provided free of charge with this product.



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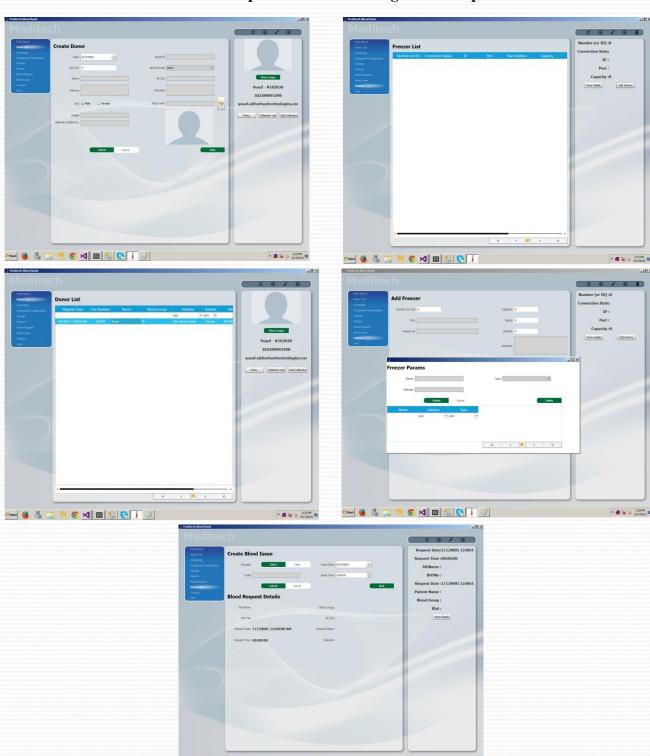
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