

## Solar Ice Lined Refrigerator



Environmentally friendly Solar Ice Lined refrigerator powered by Meditech Technology for safe storage of vaccines between 2°C to 8°C . Meditech Refrigerators with Anti-Freeze technology ensure perfect temperature control with no risk of freezing.

### •Features

- Reliable temperature between +2°C to +8°C
- 12 V - 24 V DC operating voltage featuring shut-off at low voltage
- Eco-friendly cooling agent (R-134a)
- Maintenance Free Brushless DC Compressor
- Adjustable interior temperature
- Very low energy requirement
- Highly-efficient cooling
- Low Maintenance
- Double gasket to keep long cooling
- Easy to installation
- Only 2.5 hrs. of electricity needed per 24 hrs. at 43°C AMB
- Self-regulating cooling system
- Cooling coil of copper
- CFC-free refrigerant and insulation
- Compressor made for use in the tropics
- Solid lid with handle and lock
- Baskets for organized storage
- Delivered in solid, wooden crate



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### **Temperature Variations Prevented**

The Meditech Series is designed to minimize cold air loss even with frequent door openings.

**Separated inner doors** minimize the chamber air leakage during door openings.

Foamed-in-place insulation in the walls and magnetic sealed outer doors prevent chamber air leakage and promote complete door closings

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

### 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. System On

### **User Friendly Design**

Selectable storage system **LED interior lamp** with ON/OFF switch and provide a clear view of stored items

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

Temperature-maintained defrost designed with thermal sensors and heaters in the evaporator, all under precise microprocessor control.

Electronic thermostat, airflow system and the specially designed icelining ensure stable temperature control in range from +2°C to +8°C. The actual temperature is readily checked on the external digital thermometer. Effective insulation and the icelining ensure long hold-over time in case of power cut. The galvanised steel cabinet protects against corrosion. Baskets included for organized storage.

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### Why choose Meditech Refrigerators with Anti-Freeze technology?

- Never freeze: The Temperature inside the refrigerator cabinet always remains between 2 to 8 Degree C. The cabinet Temperature within the chamber is always maintained in the range less than 1°C using Our Anti Freeze Technology. Problems related to Vaccine Freezing and stratification is eliminated unlike other refrigerators. Hence the Vaccine is constantly maintained at safe temperature.
- No Thermal Shock: Using the above mentioned technology, there is no thermal shock associated with this refrigerator due to Power failure or High Ambient Temperature. With Electricity of 2½ hours per day, Our Refrigerator provides excellent performance. The Vaccine is maintained at same temperature even there is a power failure. Meditech Solar Refrigerator can maintain the temperature and keep Vaccine safe for 3 or more days in the event of power failure based on different models.
- Anti-Freeze technology: The water is surrounded around the Meditech Vaccine Storage Compartment. As the refrigerator is supplied with the desired power, there is ice formation above the compartment which in turn melts during warm water rising phenomenon. The compartment is always left with at 4°C inside. This Anti-freeze technology converts the solar power and stores energy inside this ice compartment for many days.
- Successful Funding : It is always advisable to make sound investment is purchasing a refrigerator which helps in safe storage of vaccines. Since vaccine worth million dollars and for emergency purpose will be stored inside for many years.

## Ice Lined Refrigerator

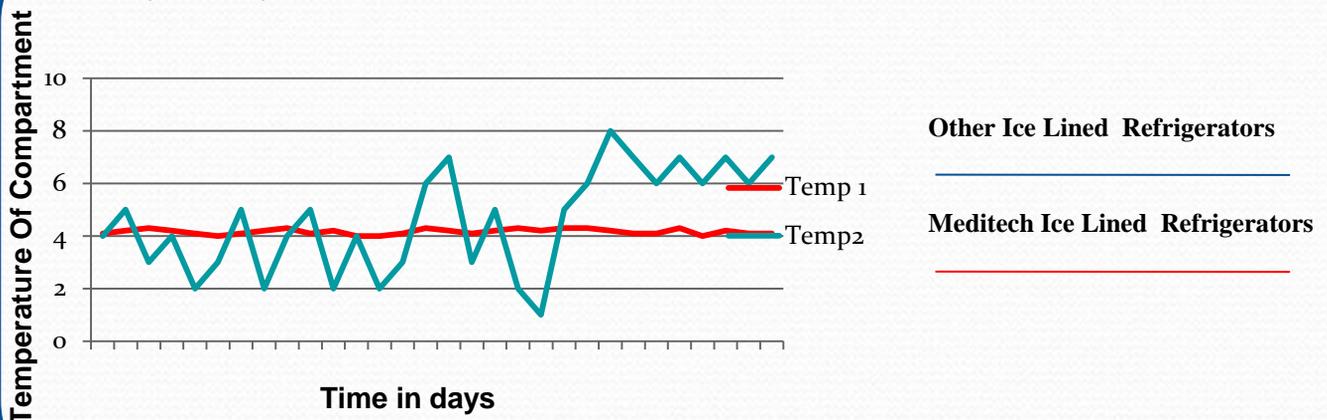


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### Compliant with International Standards

1. The Refrigerators are tested for WHO prequalification
2. The Refrigerators are simulated for Tropical Environment
3. All the study confirms the sturdiness of dependability of Our products

### 31 Days Study of Inside Compartment Temperature



Life Saving Technology for the world

- Anti-Freeze technology is in use in over 100 countries across the world. Meditech gives Free license to any manufacturer looking to market same product across the globe.

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## PLC Based Controller



### LED INDICATION

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10. Sensor Fail
11. 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

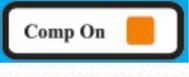
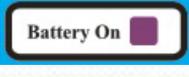
### User Friendly Settings

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

Model	MTBTSS01	MTBTSS02	MTBTSS03
Dimensions (WxDxH) mm	796 x 752 x 1222	796 x 752 x 1819	796 x 752 x 1819
Gross Storage Capacity (L)	60	125	278
Vaccine Storage Capacity (L)	50	100	230
Stable Running Energy Consumption	0.55 kWh/ 24 hours	0.70 kWh/ 24 hours	1.05 kWh/ 24 hours
Cool Down Test, Energy Consumption	0.60 kWh/ 24 hours	1.85 kWh/ 24 hours	2.55 kWh/ 24 hours
Refrigerant	R134a		
PQS Code	E003		
Weight (Kg)	124	158	182
Quality Standard	ISO 9001:2008		
Holdover Time Holdover	3+ days		
Controller	Adavance LED Controller		

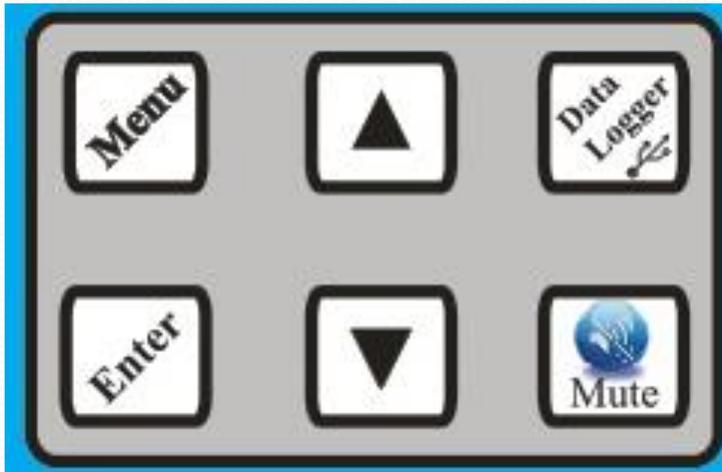
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## 6.0 LED Indicators

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

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## 7.0 Keypad Functions



Sl.No	Photos	Function Indication
1		The Menu button is pressed to enter into MENU option.
2		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		The data logger is pressed to get the data from the PLC to the computer
6		The MUTE button is pressed to MUTE any Alarms and sounds
7		The Door Open LED is activated along with the buzzer sound indicating the Door Open function
8		The ON button is pressed to switch on the refrigerator
9		The USB is provided to connect the Refrigerator to the computer system.