

ISO 9001, ISO1400, ISO13485, CE and WHO-GMP certified.

Solar Direct Drive and Battery Backup Corona Virus (COVID-19) Vaccine & Sample Cold Storage



Solar Direct Drive and Battery Backup Freezers for Reliable Storage at 2 to 8°C, -20°C, -40°C & -86°C Temperatures

Ice Lined Refrigerator 2 to 8 Degree C

Deep Freezer -20 degree C

Deep Freezer -40 degree C

Ultra Deep Freezer -86 degree C

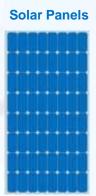
Option1: Run Your Vaccine Freezer Directly On Solar Panels Without Battery

Option 2: Run Your Vaccine Freezer Directly On Solar Panels With Battery Backup

Option 3: Run Your Vaccine Freezer Directly On Solar Panels With Battery Backup and Electricity









With multiple corona virus (COVID-19) vaccines currently in Phase 3 clinical trials, forecasts are predicting a spike in demand for solar direct drive vaccine and battery backup sample cold storage units. Two of the top leading corona virus vaccine candidates are mRNA vaccines which require freezing levels of storage. Moderna's mRNA-1273 vaccine at -4F (-20C), but BioNTech & Pfizer's BNT162b2 vaccine require much a colder temperature at -94F (-70C).

Experts are also saying each patient may need to receive 2 vaccines for COVID-19, resulting in an increase in capacity storage needs. This is likely to result in a shortage of low temperature storage freezers as the demand for this product is typically only required in laboratory research facilities whereas now they will be required in public health facilities, pharmacies, small doctor's offices, hospitals and more.

Meditech Technologies India Pvt Ltd stands ready to help. We can provide you & your team with information and resources on vaccine storage. In short, we can help to get your facility prepared for what's coming. With a full catalog of bench top, portable & under counter to upright refrigerators and freezers, you will find exactly what you are looking for with a variety of sizes ranging and capacities.

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 all 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

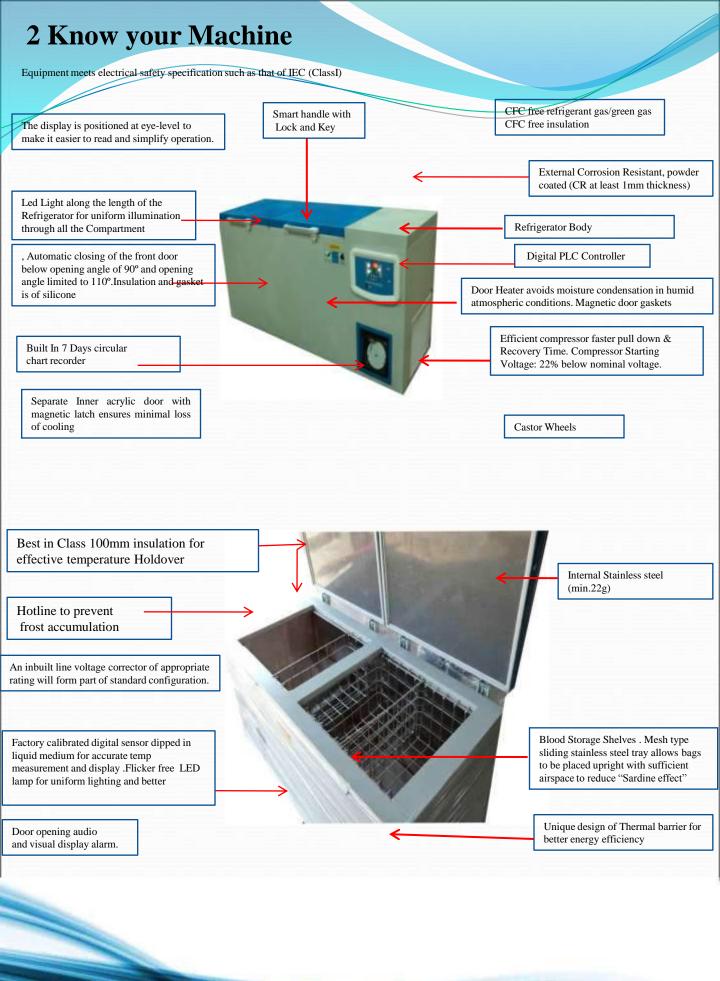
Alarm and Safety Functions

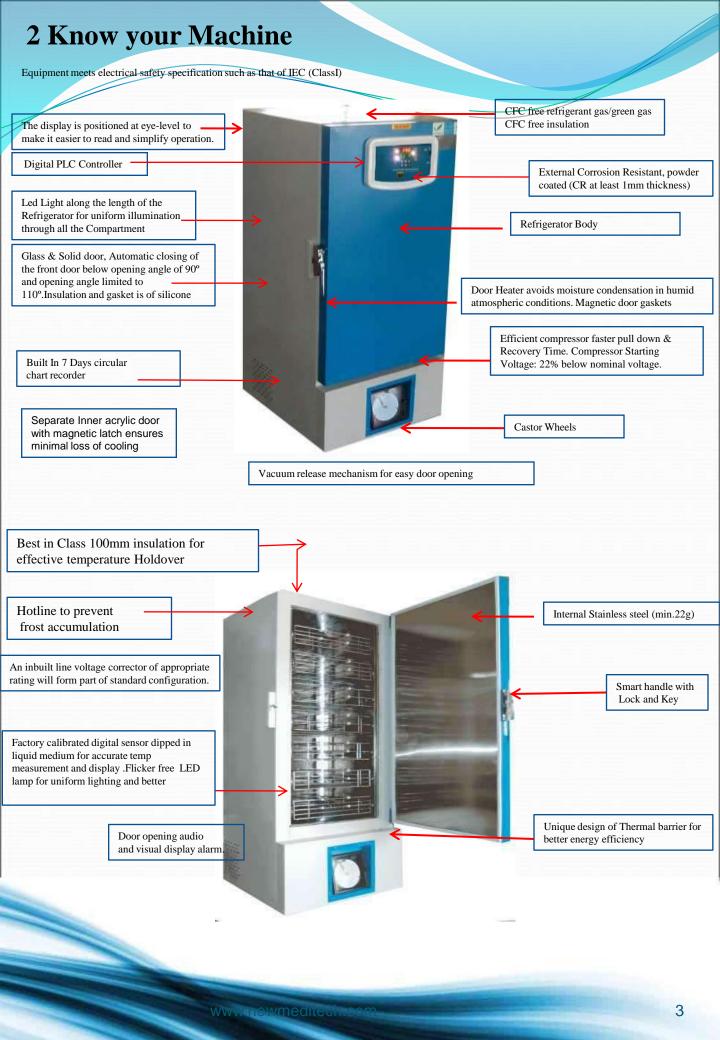
To ensure the safety of precious blood supply, the Meditech Series provides the following safety functions:

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.





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 Fail11. 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

Ice Lined Refrigerator 2 to 8 Degree C Horizontal Model

Model	MTBBR1	MTBBR2	MTBBR3	MTBBR4	MTBBR5			
Туре	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal			
Net volume, litres (cu.								
ft.)	100	200	300	400	500			
Temperature range at		·						
5°C to 43°C AMB	+2°C to +8°C							
Hold-over time during								
power cut at 43°C	24 to 72 Hours							
AMB, hrs.								
Baskets	3 Nos	3 Numbers	5 Nos	7 Nos	7 nos			
LOADING								
QUANTITIES								
Qty. per 20' / 40'								
container	44 / 92	36 / 72	24 / 50	18 / 42	12/20			
	Solid door fitted in door-frame made of 1 8swg CR Sheet, powder coated with structure finish and filled with formed in							
Door	position PUF							
Cabinet material	CR Sheet - powder coated							
Inner chamber	CR Sheet - powder coated							
Input voltage of BBR	Available in 220V-240V 50/60Hz + 115V 60Hz							
Chamber temperature								
range	2°C to 8°C							
Compressor	Hermetically sealed compressor							
Refrigerant	R134a							
Wheels	Caster wheels							
Accuracy of								
temperature sensor	(+/- 0.1°C)							
Display	4x7 segment LED (red) and 4x7 segment LED (green)							
Display resolution	0.1°C							



Deep Freezer -20 to -86 Degree C Horizontal Model

	MTDF01 = -20 Degree C	MTDF02 = -20 Degree C	MTDF03 = -20 Degree C			
	MTPF01 = -40 Degree C	MTPF02=-40 Degree C	MTPF03 = -40 Degree C			
Models	MTUD01 = -86 Degree C	MTUD02 = -86 Degree C	MTUD03 = -86 Degree C			
Type	Vertical					
Effective storage volume	165 Litres	300 Litres	600 Litres			
Storage capacity	165 Litres	300 Litres	600 Litres			
Trays (removable type)	3 Baskets	6 Baskets	8 Baskets			
Steel door hinge	SS 304					
Steel door ring	SS 304					
Door	made of 1 8swg CR Sheet, powd	er coated with structure finish and fi	illed with formed in position PUF			
Miniature Circuit Breaker (MCB)	240V / 10 A					
Cabinet material	18 swg CR Sheet - powder coated					
Inner chamber						
Input voltage	160 - 270 V, 50Hz, single phase AC					
Stabilizer	4KVA stabilizer					
	(-) 20°C for MTDF					
	(-) 40°C for MTPF					
Chamber temperature range	(-) 86°C for MTUD					
Slide out rail	Heavy duty telescopic rail					
Lamp	LED Lamp 14W / LED Lamp					
	Hermetically sealed compressor for -20 and -40.					
Compressor	Cascade Hermetically sealed compressor – 2 nos for -86.					
Refrigerant	R404a					
Wheels	Caster wheels					
Temperature sensing method	Encapsulated digital sensor dippe	ed in 0.25% glycerine solution kept	in a plastic bottle			
Temperature controller	Temperature Recorder and Contr	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 - Visu	nal			
	Temperature Low	Audio - Visu				
	Door open	Audio - Visu	ıal			
	Battery Low	Visual				
	Battery ON	Visual				
	Power failure	Audio - Visu	ıal			
	Sensor failure	Audio - Visu				
	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

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Deep Freezer -20 to -86 Degree C Vertical Model

	MTBCM01 = -20 Degree C	MTBCM02 = -20 Degree C	MTBCM03 = -20 Degree C	MTBCM04 = -20 Degree C			
Model	MTBTS01 = -40 Degree C MTPT01 = -86 Degree C	MTBTS02 = -40 Degree C MTPT02 = -86 Degree C	MTBTS03 = -40 Degree C MTPT03 = -86 Degree C	MTBTS04 = -40 Degree C MTPT04 = -86 Degree C			
Type	Vertical M1P102 = -80 Degree C M1P103 = -80 Degree C M1P104 = -80 Degree C						
Effective storage volume	165 Litre	300 Litre	400 Litre	700 Litre			
Effective storage voranie	103 Elite	300 Little	100 Elife	7 GO Elite			
Trays (removable type)	3 stainless steel slide out trays	4 stainless steel slide out travs	5 stainless steel slide out trays	6 stainless steel slide out travs			
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	710 x 805 x 1750	880 x 960 x 1750			
Dimensions (internal) (WxDxH) in							
mm	510 x 480 x 900	510 x 500 x 1360	605 x 670 x 1100	770 x 800 x 1250			
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						
Slide out rail	Heavy duty telescopic rail						
Lamp	LED Lamp 14W / LED Lamp						
	Hermetically sealed compressor for -20 and -40.						
Compressor	Cascade Hermetically sealed compressor – 2 nos for -86.						
Refrigerant	R404a						
Wheels	Caster wheels						
Temperature sensing method	Encapsulated digital sensor dip	ped in 0.25% glycerine soluti	on 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					
		Audio -					
	Temperature High	Visual					
	-	Audio -					
	Temperature Low	Visual					
		Audio -					
	Door open	Visual					
	Battery Low	Visual					
	Battery ON	Visual					
		Audio -					
	Power failure	Visual					
		Audio -					
	Sensor failure	Visual					
	Chart change	Visual					

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