MEDITECH
Solar Freezer

Robust Construction, Technology, Quality, Reliability and Repeatability for extreme Tropic Conditions

➢**12 V - 24 V DC operating voltage featuring shut-off at low voltage**
➢**Dual Mode - Can work as Freezer and Refrigerator**
➢**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**

Bio-fresh

Environmentally friendly Solar Freezer powered by Meditech Technology

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

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Bio Fresh provides the ultimate technology for all health-conscious food lovers. With Bio Fresh, fruit and vegetables, meat, fish and dairy products retain their healthy vitamins, delicate aroma and appetising appearance much longer than in a conventional fridge compartment.

Bio-fresh

Why Meditech Solar Freezer
Discover Technology, Quality, Reliability and Repeatability

Meditech Solar Freezer are rugged and designed for extreme tropic climatic conditions. Save on costs with Meditech high efficiency freezers . It has exceptionally low energy consumption, requiring smaller, less expensive power systems and low operating expense. High quality construction provides excellent reliability and long life.
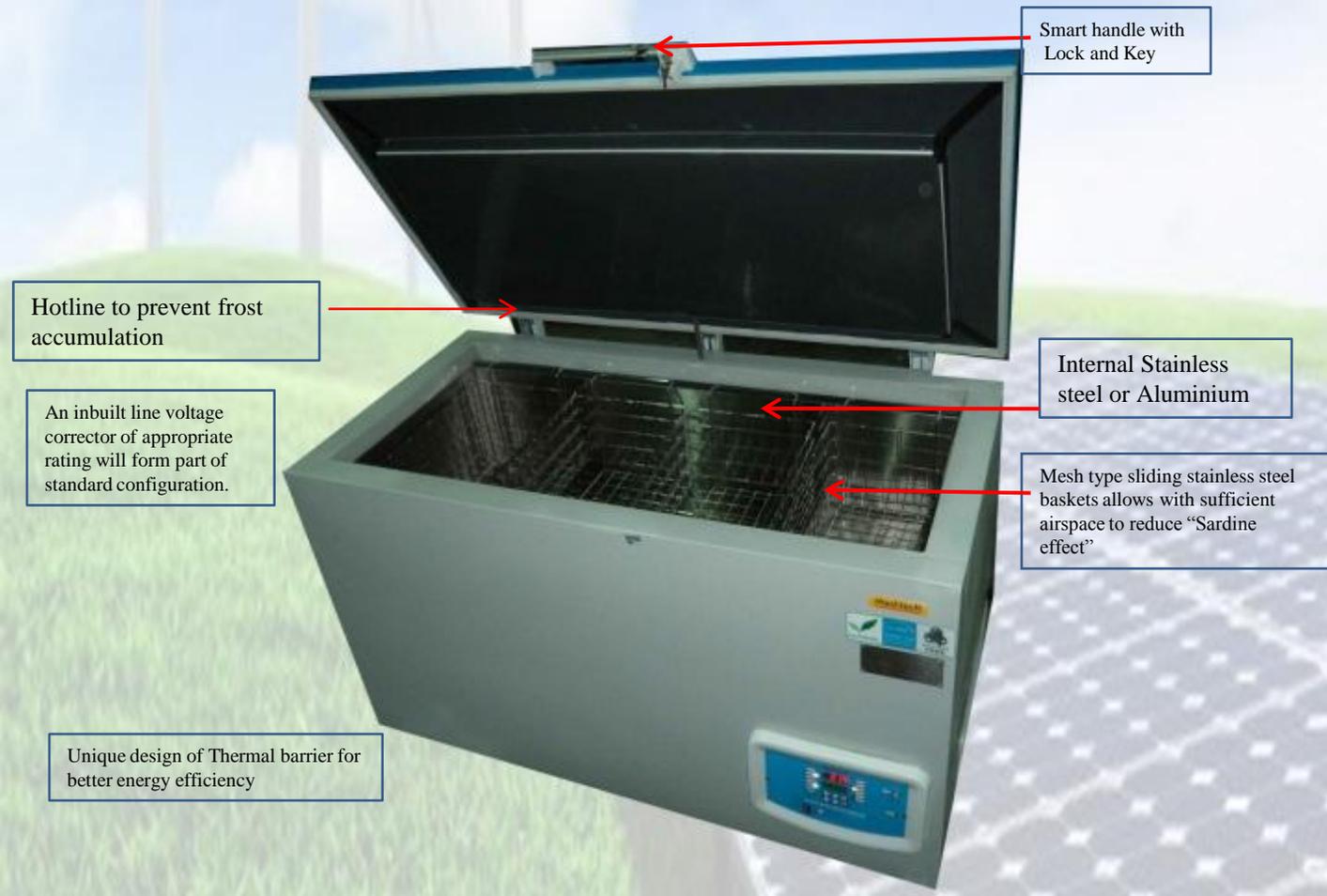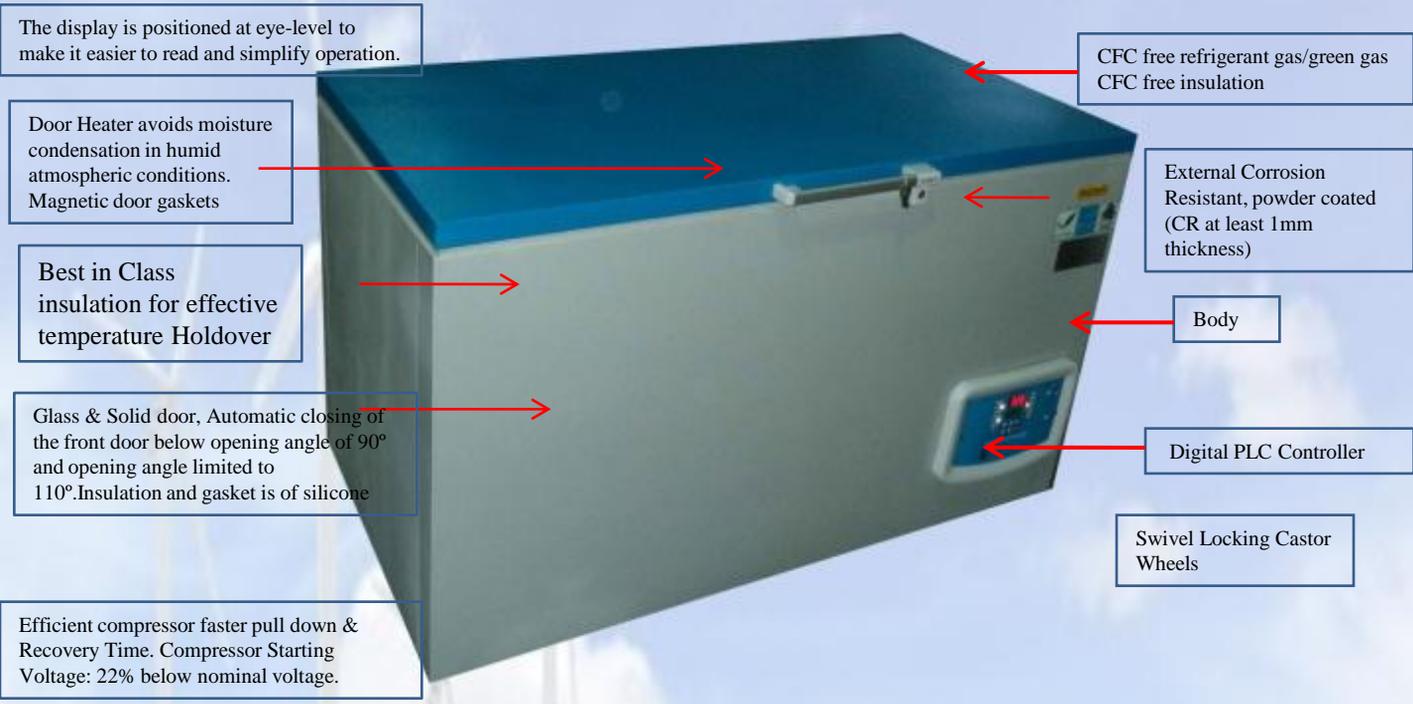
Applications

Remote Homes	Unreliable grid	Micro-enterprises	Boats and Marine	cabins
Remote Stores	Ice Making	Beverage Vending	Eco-Resorts	Farms
Medical Clinics	Missionaries	Disaster Preparedness	Mobile Vendors	caravans

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Know your Solar Freezer

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The display is positioned at eye-level to make it easier to read and simplify operation.

Door Heater avoids moisture condensation in humid atmospheric conditions. Magnetic door gaskets

Best in Class insulation for effective temperature Holdover

Glass & Solid door, Automatic closing of the front door below opening angle of 90º and opening angle limited to 110º.Insulation and gasket is of silicone

Efficient compressor faster pull down & Recovery Time. Compressor Starting Voltage: 22% below nominal voltage.

CFC free refrigerant gas/green gas CFC free insulation

External Corrosion Resistant, powder coated (CR at least 1mm thickness)

Body

Digital PLC Controller

Swivel Locking Castor Wheels

Smart handle with Lock and Key

Hotline to prevent frost accumulation

An inbuilt line voltage corrector of appropriate rating will form part of standard configuration.

Internal Stainless steel or Aluminium

Mesh type sliding stainless steel baskets allows with sufficient airspace to reduce "Sardine effect"

Unique design of Thermal barrier for better energy efficiency

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

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Advance LED based 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
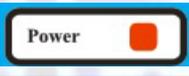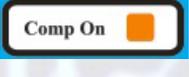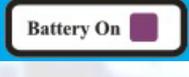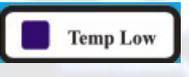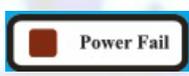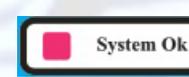9. Power Fail
10. Sensor Fail
11. System On

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

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 theController 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	System Ok	This LED is on when all functions of the System is in working condition

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Keypad Functions

Sl.No	Photos	Function Indication
1	Menu	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	Data Logger	The data logger is pressed to get the data from the PLC to the computer
6	Mute	The MUTE button is pressed to MUTE any Alarms and sounds
7	Door Open	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	USB	The USB is provided to connect the Refrigerator to the computer system.

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Description	MSR100	MSR150	MSR200	MSR300	MSR400	MSR500
Capacity in Litres	100	150	200	300	400	500
Dual Temperature Range Refrigerator and Freezer	Freezer upto to -20 Degree C (settable) Refrigerator from 2 to 8 degree C (settable)					
Power Supply	12-24 volts					
Controller and Display	PLC based LED Controller					
Temperature setting	(+/-) 0.1° C					
Temperature Uniformity	(+/-) 1° C					
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a
No. of Lids	1	1	1	1	2	2
Tank Material	Embossed Aluminium				PP	
Overall Dimension (mm)	568x560x845	760x560x845	980x560x845	1055x735x835	1440x620x835	1640x620x835
Net weight (kgs)	40	44	48	60	77	86
No of baskets	3	3	4	5	7	9
Wheels	Heavy Duty swivel caster wheels					

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