

## Solar Powered Blood Bank Refrigerators



### General Features

Temperature range from 2 to 8 °C with micro controller based temperature controller includes digital temperature display of set value and process value.

### Cabinet Construction

- 1.The cabinet of MEDITECH refrigerators is insulated with high density CFC free Poly Urethane Foam 120 mm thick insulation.
- 2.Interior chamber is finished resistant stainless Steel (304, 0.8 mm thick).
- 3.The exterior is Sky Blue/white Pure Polyester powder coated (1.0 mm thick) Mild Steel and the door has a magnetic gasket with a keyed lock.
- 4.Stainless steel trays are provided for storage inside.
5. The refrigerators are provided with handle and lock for safety and security.

## Solar Powered Blood Bank Refrigerators

**Specification Reference: BTS/RFS.3**

**Purpose of Equipment: A refrigerator for the storage of whole blood/red cell packs in a blood bank**

**Type of Equipment: Compression refrigerator which uses CFC free refrigerant gas and electricity from solar energy**

**Laboratory Test Procedure: Standard Test Procedure: BTS/ Proc/ 5**

**Construction: Chest type**

Internal : Stainless Steel 304 lining

External: Corrosion Resistant (CR at least 1mm thickness) CFC-free insulation

Blood pack racks for easy packing or retrieval of packs

Solid door

**Electrical Characteristics: Input voltage: Direct Current to Required Voltage**

Equipment meets electrical safety specifications such as that of IEC

**Minimum Compressor Starting Voltage: 22% below nominal voltage**

**Internal Temperature Control: Electronic temperature control, range +2 °C to +6 °C with setting accuracy of ±1°C whatever the load**

**External Ambient Temperature: Performs in an ambient temperature of up to +43 °C and 60% humidity**

**Hold-Over Time\*: A full load of blood packs at +4 °C (±1 °C ) takes at least 2 hrs to rise to above +6 °C**

**Cooling Down Time\*: A full load of blood packs at +37 °C takes a maximum of 10 hrs for all the packs to reach below +6 °C**

Model	Blood Bags, 350 ml	Temp	Inner Size (w x h x d) (in)	Outer Size (w x d x h) (in)	No. of Baskets	Voltage
MTBBR1	100 Blood Bags	2°C to 8°C	20 x 20 x 22	24 x 41 x 27	3	230/110 Volts , 50 Hz
MTBBR2	165 Blood Bags	2°C to 8°C	20 x 36 x 22	24x 57 x 27	5	230/110 Volts , 50 Hz
MTBBR3	288 Blood Bags	2°C to 8°C	24 x 42 x 23	28 x 63 x 34	4	230/110 Volts , 50 Hz
MTBBR4	360 Blood Bags	2°C to 8°C	24 x 36x 23	28 x 57 x 28	5	230/110 Volts , 50 Hz
MTBBR5	504 Blood Bags	2°C to 8°C	24 x 48 x 23	28x 69 x 34	7	230/110 Volts , 50 Hz
MTBBR6	650 Blood Bags	2°C to 8°C	24 x 61 x 23	28 x 82 x 28	9	230/110 Volts , 50 Hz
MTBBR7	800 Blood Bags	2°C to 8°C	24 x 74 x 23	28 x 95 x 33	11	230/110 Volts , 50 Hz

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