

## Incubator and Agitator

Environmentally friendly blood bank refrigerator powered by Meditech Technology for safe agitation of Plasma bags.

### Stable Temperature Control

Temperature is controlled by two sensors located in the liquid-loaded **monitor bottles**, which are in the shape of a blood bag

**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.

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

### Temperature Variations Prevented

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

Foamed-in-place insulation in the walls and magnetic sealed outer doors with **double-pane glass window** prevent chamber air leakage and promote complete door closings

**Large air circulation fan** enables rapid temperature recovery after door openings

### FEATURES

Digital temperature recorder controller unit coupled with a unique air flow system maintains the chamber uniformly at the AABB recommended temperature of 22 +/- 0.1°C.

Digital sensor placed inside the solution-filled bottle ensures error-free readings and matches the exact temperature inside the bag.

Agitation at 70 +/- 5 cycles per minute to avoid platelet clumping and to ensure maximum viability.

SS304 grade sliding stainless steel trays.

Pause switch provided to arrest agitator motion for 10 seconds, for easy placement and removal of bags.

Toughened glass door for safety and better visibility of platelet bags.

Magnetic gaskets for doors ensure no air is lost in a 'door closed' condition.

The internal fan switches off when the door is opened to avoid the loss of cold air.

Eyelevel positioning of TRCU for better visibility.

Automatic illumination when the door is opened allows for better visibility.

The stabilizer protects the incubator from input voltage fluctuations and ensures that the equipment has a long life-cycle

### User Friendly Design

Selectable storage system **Fluorescent interior lamp** with ON/OFF switch and a **large view window** in the outer door 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 plasma 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.

**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.

# Know your machine

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



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

Digital PLC Controller

Led Light along the length of the Refrigerator for uniform illumination through all the Compartment

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

4 Castor Wheels, 2 Lockable & 2 Movable

CFC free refrigerant gas/green gas  
CFC free insulation

External Corrosion Resistant, powder coated (CR at least 1.2mm thickness)

Refrigerator Body

Door Heater avoids moisture condensation in humid atmospheric conditions. Pane heated glass door insulates the refrigerator from atmospheric temperature Magnetic door gaskets

Built In 7 Days circular chart recorder

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

Best in Class 80mm insulation for effective temperature Holdover

Circulators for uniform Temperature

Hotline to prevent frost accumulation

Internal Stainless steel (min.22g)

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

Smart handle with Lock and Key

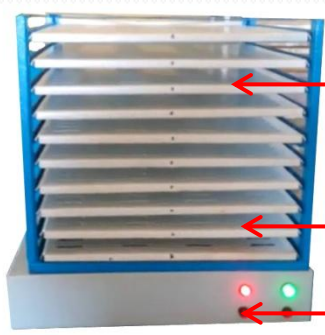
Factory calibrated digital sensor dipped in liquid medium for accurate temp measurement and display .Flicker free LED lamp for uniform lighting and better

Blood Storage Shelves . Mesh type sliding stainless steel tray allows bags to be placed upright with sufficient airspace to reduce "Sardine effect"

Door opening audio and visual display alarm.

Unique design of Thermal barrier for better energy efficiency

USB Data Logger



Agitator

Removable Plates

Pause Button



# 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. Chart Change
12. 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

# Touch Screen LCD Controller



	Model	Bags, 350 ml	Capacity	Temperature Recording Device
Incubator-Agitator	MTIA01	48 Bags	150 litres	7 days Chart recorder
	MTIA02	96 bags	275 litres	7 days Chart recorder
	MTIA03	168 bags	500 Litres	7 days Chart recorder