

Meditech Blood Bank Equipment

Technology Beyond Imagination. Get Ahead of Others!!!!!!

Get Yourself simplified. Stop manual recordings. Get Smart.

- 1. Automate your Blood Bank with Meditech latest technology equipment with CFR21 Compliance software**
- 2. Automatic Inventory management of Blood by our latest Touch screen mini PC mounted on each equipment**
- 3. Cross verification of Blood Donation, Blood storage, Donor details, screening, processing, issue of Blood at each stage.**
- 4. Control your machines, Get Updates of Blood Bags available in your blood bank using Mobile Phone from any part of the world**
- 5. Inbuilt Digital Chart on screen with display**
- 6. Automation of expiry of Blood, Platelets, Plasma and other components.**

Touch Screen Controlled

Wi-Fi, LAN and Bluetooth Enabled

**Supports Barcode Scanner
and RFID**



Mobile Device



Server

INTERNET

Location 2

Location 1



LAN and WIFI

LAN and WIFI

Mobile Connectivity

Mobile Connectivity

Mobile Connectivity

Mobile Connectivity



Refrigerator 1

Refrigerator 2

Walk In room 1

Refrigerator 3

Refrigerator 4

Walk In room 2

PLC of all walk in Rooms and Refrigerator has Ethernet having individual IP address to be connected to LAN Network

PLC of all walk in Rooms and Refrigerator has Ethernet having individual IP address to be connected to LAN Network

Blood Bank Refrigerators

Touch Screen Controlled

Wi-Fi , LAN and Bluetooth Enabled

**Supports Barcode Scanner
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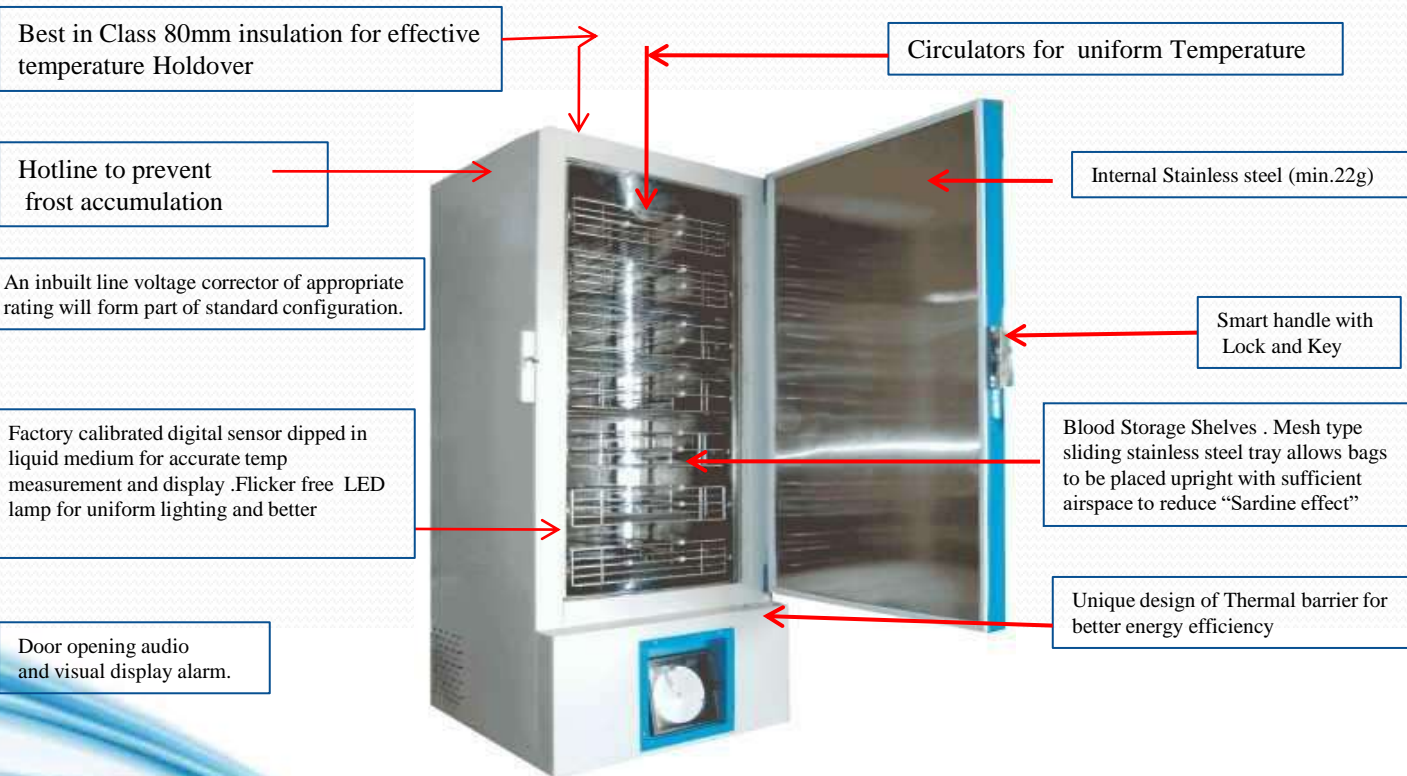
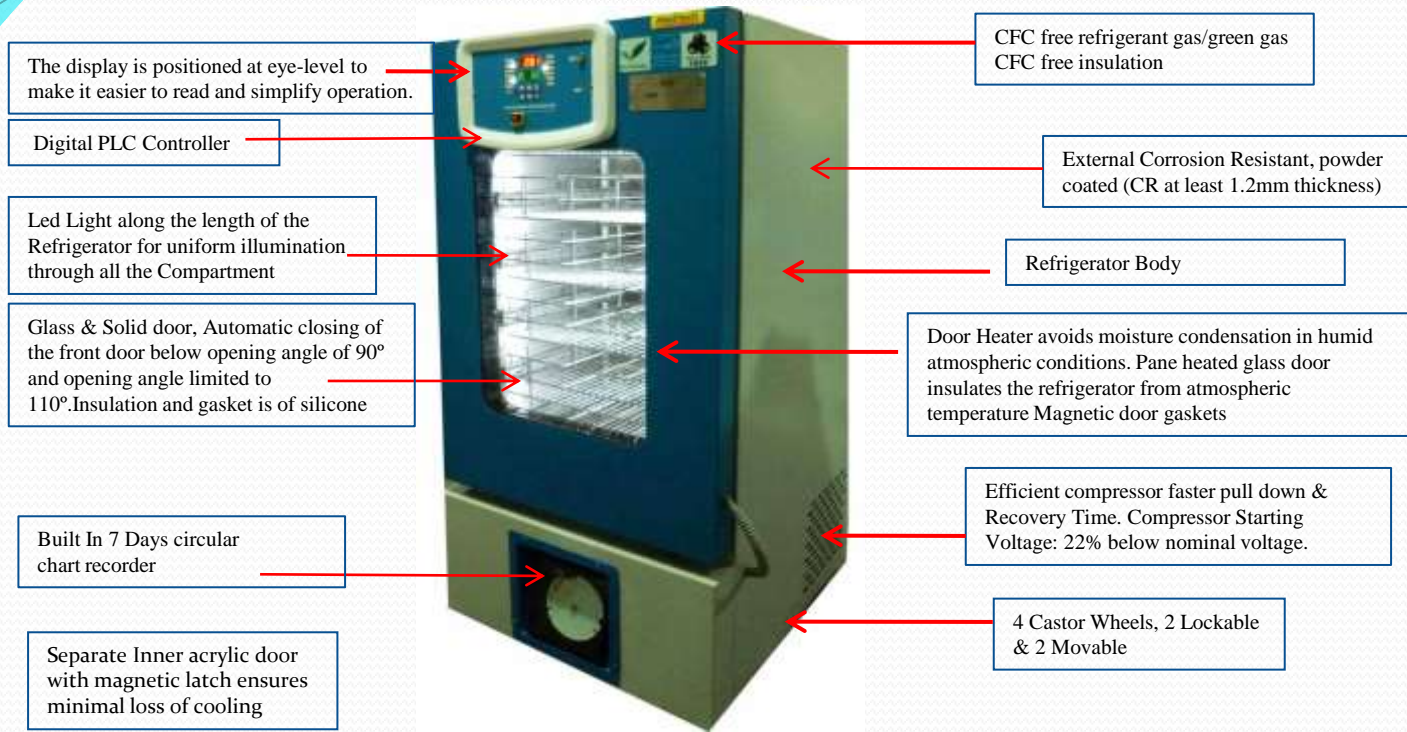
Blood Bank Refrigerators

Green
Technology for life



Know your machine

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



Advance PLC Based Touch Screen Controller



CONTROLLER

08/02/2018

Language : English
KATHICK

14:23

BLOOD BANK REFRIGERATOR 1 - GN BLOOD BANK

Temp High 8.0°C

SetTemp 4.0°C

Temp Low 2.0°C

4.5°C

Total Blood Count - 25 Nos

O - 4 nos

O + 2 nos

A+ 3 nos

A- 6 nos

B+ 4 nos

B- 4 nos

AB - 2 nos

Line In Power Compressor Heater Battery Battery Low

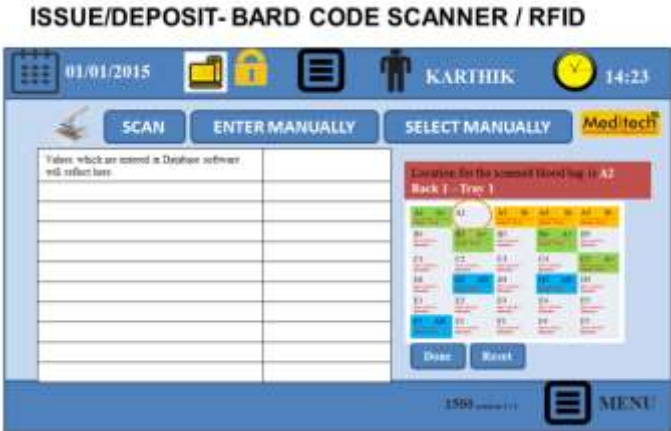
Power fail Sensor Fail Chart Change System OK Battery - 12 V

MENU

Blood Bank Refrigerators

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

TOUCH SCREEN FUNCTIONS



INVENTORY: Now maintain inventory of Blood Groups Electronically. No need of bulky registers and manual confusion. Meditech Helps to maintain Blood groups row wise , tray wise and partition wise so that the touch screen always displays the current stock in Refrigerator. Also Meditech screen displays blood stock group wise such as A, A+, B+, B-, AB+, AB-, O+ and O-

SCADA software is also available for full Blood Bank management system.



ALARMS: Low Temperature and high temperature alarms history and graphs can be viewed or printed or transferred using PEN Drive.

USB: USB Menu helps to transfer all logs to a flash PEN Drive

TRENDS: This Menu displays higher and lower temperature parameters with time in Historical and Real Time.

CALENDAR: Time and Date can be set using this MENU

SMS: This MENU is set to sent SMS of all critical parameters to a predefined number

IO STATUS: This MENU is used at the time of trouble shooting

USER LOGIN: Keep you Refrigerator and data protected with passwords. User are created using this MENU



TP-Series

Please mention following code while ordering. **W-Glass Door** , **S- Solid Door**

(A) Advance PLC based LED Controller – Ordering code : A

(B) Advance Touch Screen based 7 inches PLC Controller – Order Code: B

Model	MTBBR1	MTBBR2	MTBBR3
Type	Vertical		
Effective storage volume	165 Litre	300 Litre	600 Litre
Total storage capacity	96 nos of 450ml blood bags	144 nos of 450ml blood bags	300 nos of 450ml blood bags
Storage capacity per tray	24 nos of blood bags per tray	24 nos of blood bags per tray	60 nos of blood bags per tray
Trays (removable type)	4 stainless steel slide out trays	6 stainless steel slide out trays	5 stainless steel slide out trays
Acrylic door	2 doors of 5mm clear acrylic	3 doors of 5mm clear acrylic	3 doors of 5mm clear acrylic
Acrylic door hinge	Aluminum casting		
Acrylic 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	810 x 905 x 1750
Dimensions (internal) (WxDxH) in mm	510 x 480 x 900	510 x 500 x 1360	705 x 770 x 1200
Door	Glass Door: Triple pane door glass fitted in door-frame made of 1 8swg CR Sheet, powder coated with structure finish and filled with formed in position PUF . Solid Door: 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	18 swg CR Sheet - powder coated		
Inner chamber	22 SWG Stainless Steel Sheet		
Input voltage of BBR	160 - 270 V, 50Hz, single phase AC		
Stabilizer	1KVA Built in stabilizer		
Chamber temperature range	2°C to 6°C		
Air circulation inside the chamber	Continuously operated forced air circulation using the evaporator fan		
Slide out rail	Heavy duty telescopic rail		
Lamp	CF Lamp 14W / LED Lamp		
Compressor	Hermetically sealed compressor		
Refrigerant	R134a		
Wheels	Caster wheels		
Temperature sensing method	Encapsulated digital sensor dipped in 0.25% glycerine solution 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	
	Temperature High	Audio - Visual	
	Temperature Low	Audio - Visual	
	Door open	Audio - Visual	
	Battery Low	Visual	
	Battery ON	Visual	
	Power failure	Audio - Visual	
	Sensor failure	Audio - Visual	
	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

Double Door -Series

Please mention following code while ordering. **W-Glass Door** , **S- Solid Door**

(A) Advance PLC based LED Controller – Ordering code : A

(B) Advance Touch Screen based 7 inches PLC Controller – Order Code: B

Model	MTBBR1-D	MTBBR2-D	MTBBR3-D
Type	Vertical		
Effective storage volume	990 Litres	1275 Litres	1586 Litres
Total storage capacity	600 nos of 450ml blood bags	728 nos of 450ml blood bags	1008 nos of 450ml blood bags
Trays (removable type)	12 stainless steel slide out trays	14 stainless steel slide out trays	14 stainless steel slide out trays
Acrylic door	2 doors of 5mm clear acrylic	3 doors of 5mm clear acrylic	3 doors of 5mm clear acrylic
Acrylic door hinge	Aluminum casting		
Acrylic door ring	SS 304		
Dimension External (W x D x H) in mm	762 x 990 x 2020	750 x 1505 x 2020	902 x 1505 x 2020
Dimensions Internal (WxDxH) in mm	616 x 890 x 1780	616 x 1397 x 1480	769 x 1397 x 1480
Door	Glass Door: Triple pane door glass fitted in door-frame made of 1 8swg CR Sheet, powder coated with structure finish and filled with formed in position PUF . Solid Door: 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	18 swg CR Sheet - powder coated		
Inner chamber	22 SWG Stainless Steel Sheet		
Input voltage of BBR	160 - 270 V, 50Hz, single phase AC		
Stabilizer	1KVA Built in stabilizer		
Chamber temperature range	2°C to 6°C		
Air circulation inside the chamber	Continuously operated forced air circulation using the evaporator fan		
Slide out rail	Heavy duty telescopic rail		
Lamp	CF Lamp 14W / LED Lamp		
Compressor	Hermetically sealed compressor		
Refrigerant	R134a		
Wheels	Caster wheels		
Temperature sensing method	Encapsulated digital sensor dipped in 0.25% glycerine solution 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	
	Temperature High	Audio - Visual	
	Temperature Low	Audio - Visual	
	Door open	Audio - Visual	
	Battery Low	Visual	
	Battery ON	Visual	
	Power failure	Audio - Visual	
	Sensor failure	Audio - Visual	
	Chart change	Visual	

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**Ultra Deep Freezer,
-20 , -40 and -86 Degree C**

Touch Screen Controlled

**Wi-Fi, LAN and Bluetooth
Enabled**

**Supports Barcode Scanner
and RFID**

Ultra Deep Freezer, -20, -40 and -86 With 7 inch Touch Screen



Environmentally friendly Ultra Deep Freezer, -20, -40 and -86 degree powered by Meditech Technology for safe storage .

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.



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 Temperature recorder with rechargeable battery back up including charger maintenance free and insensitive to vibration. 12 Volts Battery NIMH and 1Ampere charger.

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



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

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.



MTDF Series – 20 Degree C

Model	MTDF01	MTDF01 Touch Screen	MTDF02	MTDF02 Touch Screen	MTDF03	MTDF03 Touch Screen
Type	Vertical					
Effective storage volume	165 Litre		300 Litre		600 Litre	
Trays (removable type)	3 stainless steel slide out trays		4 stainless steel slide out trays		6 stainless steel slide out trays	
Steel door	4 compartments		4 compartments		4 compartments	
Steel door hinge	SS 304					
Steel door ring	SS 304					
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	18 swg CR Sheet - powder coated					
Inner chamber	22 SWG Stainless Steel Sheet					
Input voltage	160 - 270 V, 50Hz, single phase AC					
Stabilizer	4 KVA stabilizer					
Chamber temperature range	-20°C					
Air circulation inside the chamber	Continuously operated forced air circulation using the evaporator fan					
Slide out rail	Heavy duty telescopic rail					
Lamp	LED Lamp 14W / LED Lamp					
Compressor	Hermetically sealed compressor					
Refrigerant	R404a					
Wheels	Caster wheels					
Temperature sensing method	Encapsulated digital sensor dipped in 0.25% glycerine solution 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	
	Temperature High				Audio - Visual	
	Temperature Low				Audio - Visual	
	Door open				Audio - Visual	
	Battery Low				Visual	
	Battery ON				Visual	
	Power failure				Audio - Visual	
	Sensor failure				Audio - Visual	
	Chart change				Visual	

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MTDF Series -40 Degree C

Model	MTDF01	MTDF02	MTDF03
Type		Vertical	
Effective storage volume	165 Litre	300 Litre	650 Litre
Trays (removable type)	4 stainless steel slide out trays	6 stainless steel slide out trays	6 stainless steel slide out trays
Steel door hinge	SS 304		
Steel dooring	SS 304		
Door	made of 1 8swg CR Sheet, powder coated with structure finish and filled with formed in position PUF		
Miniature Circuit Breaker (MCB)	240V / 10A		
Cabinet material	18 SWG Galvannealed Powder coated Steel Sheet 304 Anti Bacterial		
Inner chamber	22 SWG Stainless Steel Sheet 304 Anti Bacterial		
Input voltage	160- 270 V, 50Hz, single phase AC		
Stabilizer	4KVA stabilizer		
Chamber temperature range	-40°C		
Air circulation inside the chamber	Continuously operated forced air circulation using the evaporator fan		
Operation	operating continuously in ambient temperature of 10 - 50deg C and relative humidity of 15-95%		
Slide out rail	Heavy duty telescopic rail		
Lamp	LED Lamp 14W / LED Lamp		
Compressor	Hermetically sealed compressor		
Refrigerant	R404a		
Wheels	Caster wheels		
Temperature sensing method	Encapsulated digital sensor dipped in 0.25% glycerine solution 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	
	Temperature High	Audio - Visual	
	Temperature Low	Audio - Visual	
	Door open	Audio - Visual	
	Battery Low	Visual	
	Battery ON	Visual	
	Power failure	Audio - Visual	
Sensor failure	Audio - Visual		
Certifications	ISO9001, ISO13485, ISO14001, CE , WHO- GMP		
Safety Standards	Electrical safety conforms to standards for electrical safety IEC-60601		

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MTUD Series -86 Degree C

Model	MTUD01	MTUD02	MTUD03
Type		Vertical	
Effective storage volume	165 Litre	300 Litre	600 Litre
Trays (removable type)	4 stainless steel slide out trays	6 stainless steel slide out trays	6 stainless steel slide out trays
Steel door hinge	SS 304		
Steel dooring	SS 304		
Door	made of 1 8swg CR Sheet, powder coated with structure finish and filled with formed in position PUF		
Miniature Circuit Breaker (MCB)	240V / 10A		
Cabinet material	18 SWG Galvannealed Powder coated Steel Sheet 304 Anti Bacterial		
Inner chamber	22 SWG Stainless Steel Sheet 304 Anti Bacterial		
Input voltage	160- 270 V, 50Hz, single phase AC		
Stabilizer	4KVA stabilizer		
Chamber temperature range	-86°C		
Air circulation inside the chamber	Continuously operated forced air circulation using the evaporator fan		
Operation	operating continuously in ambient temperature of 10 - 50deg C and relative humidity of 15-95%		
Slide out rail	Heavy duty telescopic rail		
Lamp	LED Lamp 14W / LED Lamp		
Compressor	Hermetically sealed compressor		
Refrigerant	R404a		
Wheels	Caster wheels		
Temperature sensing method	Encapsulated digital sensor dipped in 0.25% glycerine solution 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	
	Temperature High	Audio - Visual	
	Temperature Low	Audio - Visual	
	Door open	Audio - Visual	
	Battery Low	Visual	
	Battery ON	Visual	
	Power failure	Audio - Visual	
Sensor failure	Audio - Visual		
Certifications	ISO9001, ISO13485, ISO14001, CE , WHO- GMP		
Safety Standards	Electrical safety conforms to standards for electrical safety IEC-60601		

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**Blood Bank Refrigerated
Centrifuge – 6 and 12 Bags**

Touch Screen Controlled

**Wi-Fi, LAN and Bluetooth
Enabled**

**Supports Barcode Scanner
and RFID**

Blood Bank Refrigerated Centrifuge Large 7" Touch Screen – 12 Bags MTC05



Mediatech[®]

Lab, Pharmacy, Medical and Blood Bank Equipments Division
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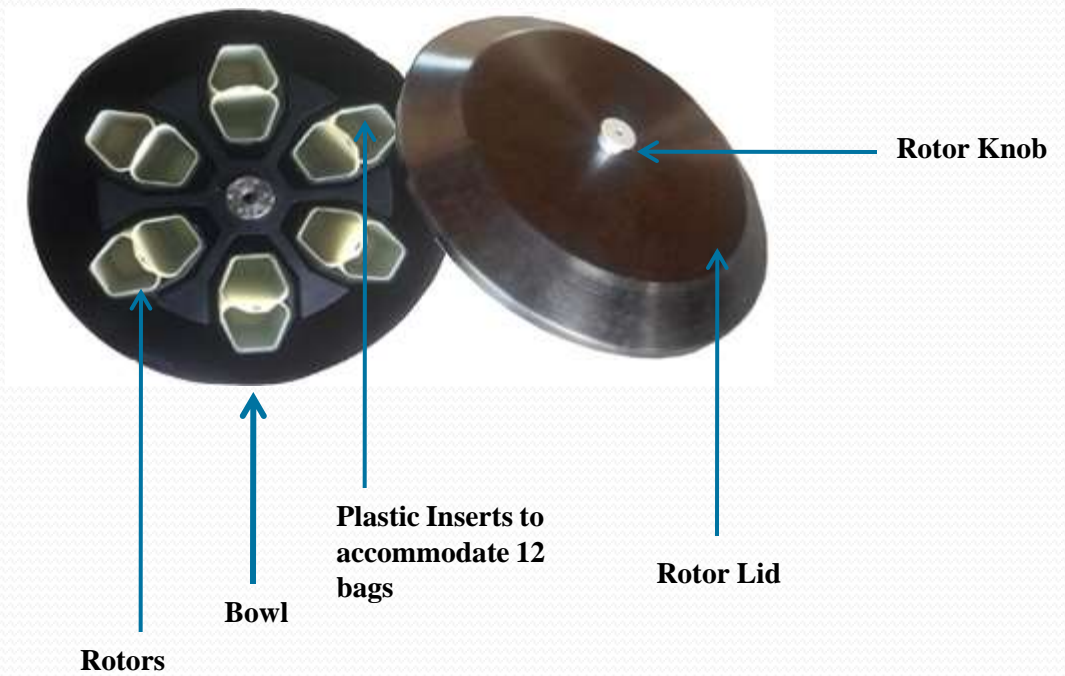
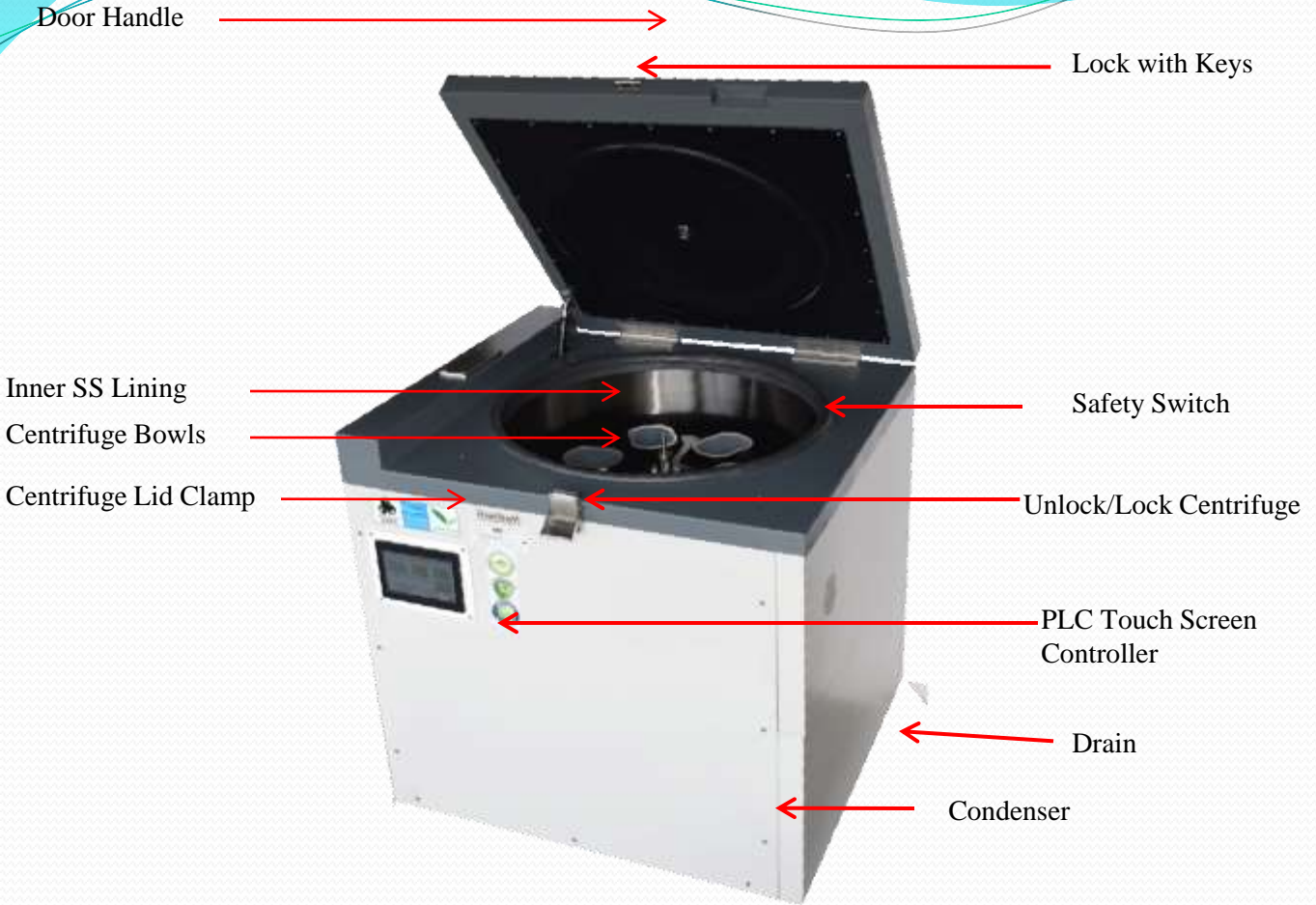
Blood Bank Centrifuge

- 6 x 1200 ml buckets
 - Plastic Adopter for holding 2 blood bags in a single bucket
 - CFC free cooling system.
 - 7 inch Touch Screen controlled
 - Programmable variable speed control up to 4800 R P M with 10 RPM increment
 - Continues read out of working RCF Value
 - Temperature control with Working temperature in the range of -5 °C to 25 °C depending on the speed of rotations
 - 99 program memory, brush less induction motor drives
 - 1 to 120 minutes timer programmable in 1 minute increment with infinite mode
 - User programmable Acceleration and Deceleration time range from 40 seconds to 450 seconds
 - Mechanical and Electronic lid lock with indicator,
 - Imbalance indicator
 - LCD display of set and working parameters.
 - Specially designed cooling system allow pre-cooling of rotor head and also allow the cooling system to work even when the centrifuging operation is complete, thereby eliminating damage to heat sensitive material.
 - The Centrifuge chamber is made of stainless steel and is effectively insulated and separated from other parts
 - Counter Balanced & fall safe Lid with hydraulic system.
 - Max. Speed 4800 RPM , Max RCF. 6000x g depending on rotor heads. (without rotor head and carriers).
 - 6 Place Swing out rotor suitable for carrying 6 Nos. metal buckets Maximum speed 4500 RPM . Centrifugal force 5000-6000g
- Display of current Time and Calendar on Touch Screen
USB Data logging
Ethernet Connectivity
Set parameters on Touch Screen FFP, PRP, RDP and WRBC



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2 Know your Machine



Blood Bank Refrigerated Centrifuge Large 7" Touch Screen - 6 Bags MTC02



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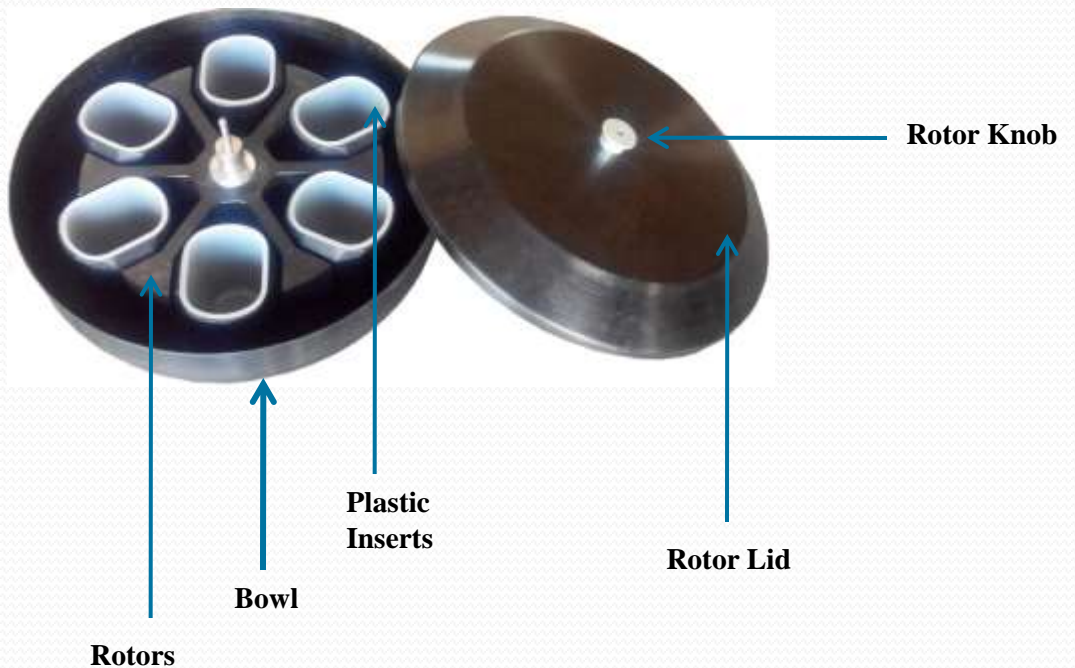
Blood Bank Centrifuge

- CFC free cooling system.
- The microprocessor control is provided with programmable variable speed control up to
- 4800 R P M with 10 RPM increment
- Continues read out of working RCF Value
- Temperature control with Working temperature in the range of -5 °C to 25 °C depending on the speed of rotations
- 99 program memory, brush less induction motor drives
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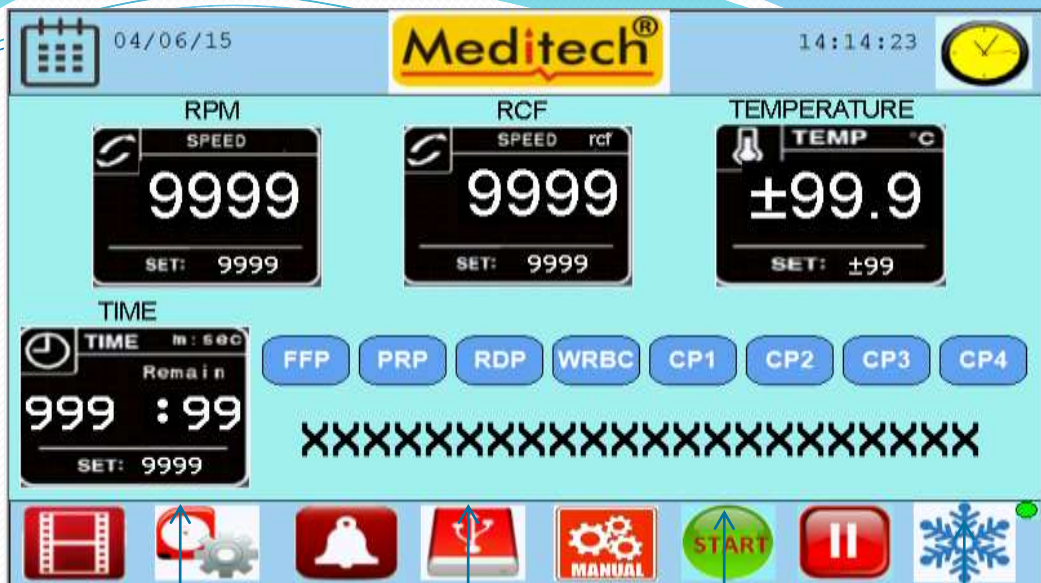


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2 Know your Machine

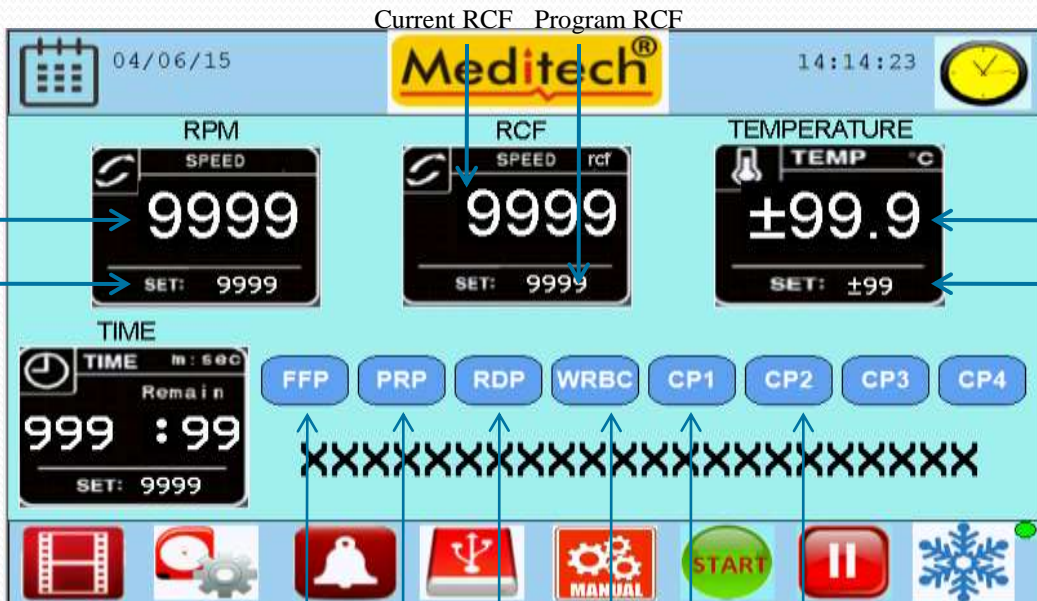


Blood Bank Centrifuge – Touch Screen Interface- Menu Items



Program Parameter Setting Alarm USB Manual Operations START STOP DEFROST

Blood Bank Centrifuge – Touch Screen Interface-Process Items



Fresh Frozen Plasma Platelet Rich Plasma Washed Red Blood Cells Custom Program-1 Custom Program-2
 Random Donor Platelets

Blood Collection Monitor

M-Series, MTBCM 02

Fully automatic microprocessor based **Blood Collection Monitor** with 53 hours battery back or *Blood Mixing Device* provides efficient mixing of blood with 1-50 cycles/min. Automatic termination of blood collection, when *blood collection* volume reaches a preset value. LCD display shows volume of collected blood, time-taken for *blood collection*.



FEATURES

- Battery Backup for more than 53 Hours
- Display in Volumes and Grams
- Vibration Selection for 3D Mixing
- RPM Setting 1 to 50 RPM
- Large Colour LCD Display
- Auto Tare
- Manual Weight Calibration Facility
- Audio Video Alarms
- Blood Tray Tilt Angle Adjustment
- Detachable Blood collection Tray
- Password Protection
- Tube Sensing
- RS 232 Scanner Compatible
- 1000 Donar Data Storage
- Time Setting
- Date Setting
- USB/RS232 connect to Computer
- Carrying Case
- Blood Bank Management Software
- Connect more than 16 BCM via ethernet on a single PC



Blood Collection Monitor

M-Series, MTBCM 02

Battery Backup for 24 Hours

Never run short of power supply with Meditech Blood collection Monitor. You get continues 53 hours back up for Blood donation camps on full battery recharge.

Audio Video Alarms

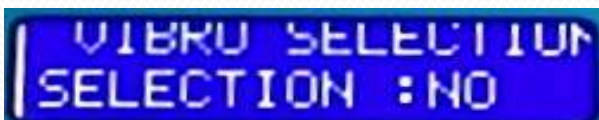
Audio and Visual Alarms for trouble free operation.

Auto Tare

The machine automatically tares the weight to 1 ml at the beginning of collection process.

Vibration selection for 3D mixing

3 Dimensional vibration for better mixing of blood and solvent during collection process.



Manual Weight Calibration

Days for AMC are gone!! Meditech provides calibration mode to set the weight accuracy by any lab technician.

RPM Setting 1 to 50 RPM

Lets adjust the Shaking speed can from 1 to 50 as per requirement.



Large Colour LCD Display at 45°

Better vision during collection even from far distance at any angle. Clear display of different functions such as programmed volume, collected volume, flow rate, main/battery, collection enhancement, manual clamping during emergency and pause function

Blood Collection Tray Tilt Adjustment

Tilting tray at required angle is now an easy task. Tilting is now adjustable for the first time for any blood collection monitor in the world.

Display in Volumes and Grams

Now get 2 concurrent displays both in ml and grams simultaneously on the display

Password Protection

Be assured that your BCM is now protected from any kind of tampering and miss usage.



Tube Sensing

Safety First!! Tube sensing ensures that tube is properly inserted in the clamp before start of collection process.



Blood Collection Monitor

M-Series, MTBCM 02

Detachable Blood Collection Tray

Removable magnetic tray ensures easy cleaning and hygiene.

USB and RS232 connect to Computer

The Monitor has a RS 232 port to connect to a scanner and USB Port to connect to a PC

RS 232 Scanner Compatible

Scan Bar codes with RS232 enabled Motorola Scanner and store values inside the BCM.

1000 Donor Data Storage

Store more than 1000 donor data in the memory of blood collection monitor.

Connect 16 BCM to PC

More than 16 BCM can now be connected to a single PC . Assign a unique slave address to BCM to obtain DATA directly.



Scanner

Scan Bar code and Store upto 1000 Donor information in the monitor and later can be transferred to a PC.

Date and Time Setting

Meditech Blood collection Monitor is powered by RTC with a small inbuilt Battery. RTC updates the Time and Date even in the case of power failure



Blood Bank management software

Never run short of power supply with Meditech Blood collection Monitor.

Carrying case

Carrying case can be ordered for mobile donation usage.



Battery Indication

Battery indication is provided to identify that machine is on battery back up or mains.

Built-in Rechargeable battery.

Rechargeable maintenance free battery is provided with inbuilt charging system.

Blood Collection Monitor

M-Series, MTBCM 02

Features:

- Electronic controlled blood collection monitor
- Accepts all kinds of blood donor bags.
- Has 3D mixing system to guarantee the best mixing of blood with anticoagulant.
- Mixing speed min 1 to 50 rpm and tilting min.10 deg angles adjustable
- Large LCD display to show donation time, collected volume and average donation flow etc. during blood collection.
- The volume to collect can be changed at any point of time during the donation, if desired
- Automatic clamp of tubing at the end of donation with audible and visual alarms
- The display shows the final volume collected and the donation time in minutes & seconds at end of each donation.
- All collection data can be recalled and read from the memory
- Auto tare of the empty bag
- Adjustable upper safety limit for collected volume
- Adjustable Low and High Flow alarms
- Detection system on clamp for checking tube positioning
- Safety switch to control if tubing is well inserted into the clamp.
- Calibrate within few seconds with a known calibration mass.
- RS 232 port for connecting external equipment e.g. barcode reader etc.
- Possibility to connect to network through PC & software
- Built-in rechargeable battery to support minimum 1000 donations in case of mains failure
- Input port cable with 15 Plug and six way output terminal strip for two outlets

Specifications:

- Measuring range from 10 to 3000 ml/gr with accuracy of +/-1 % or better
- Collected volume range adjustable with 1 ml steps
- Setting of two default volumes
- Adjustable maximum donation time up to 20 minutes
- Configurable date and time
- Up to 1000 donations can be stored in internal memory
- Service programs shall be available for common trouble shootings
- Calibration mass 500 gm shall be supplied
- Power supply: 230 Vac, 50Hz with internal rechargeable battery

Blood Collection Monitor

M-Series, MTBCM 02

Catalogue Number	MTBCM – 02
Input Voltage	100-250 VAC 50/60 Hz
Operation	Continues Operation with Intermittent Loading
Power	12W (Max)
Working Environment	
Temperature	0° to 40°C
Relative Humidity	30 to 75%
Atm Pressure	700 to 1060hPa
Battery	Full Charge Battery 53 hours continuous operation
Storing and Transportation Temperature	-20° to 40°C
Relative Humidity	20 to 90%
Atm Pressure:	600 to 1060hPa
Oscillation details	20± 2 rpm, motor driven oscillation. Adjustable for 1 to 20 RPM
Clamping Mode	Both automatic and Manual tube Clamping. Automatic clamping when the preset volume is achieved
Volume Setting	Insteps of 1 ml. Automatic storage of set volume. Continuous display of set and current volume
Auto Tare	The Machine Automatically calibrates the weight each time when the Start Button is pressed
Alarms/Indications	LCD,LED indication and audible alarm when there is no Blood flow .LCD, LED indication and audible alarm at the end of collection.
Display	Large 16×2 line character Backlit LCD display
Time Measurement	Time of collection is indicated at the end of every collection.Display of time during collection
Accuracy	1% of the programmed volume
Dimension in mm	height:140mm; length:250mm; width: 250mm
Weight	4.8 kg
Battery	12V, 2.3 AH Sealed Maintenance free lead acid rechargeable battery
RTC	Inbuilt Real Time Clock
Time setting	Display of time on the main screen and editable
Date Setting	Display of date on the main screen and editable
RPM	Setting RPM of motor can be set from 1 to 50
RS 232	RS 232 port for data extraction from BCM to Computer



Heavy duty radio frequency sealer, WHO-GMP and CE approved Automatic detection and triggering of the tube sealing by optical sensor. Splash guard providing protection against blood splashes. Easy separation of the tube segments after sealing. Dielectric tube sealer. Sealing time is 1 to 3 seconds. Indication lamps provided for power, ready and sealing. Maximum diameter of the tube that can be sealed is 6mm. Tube detection is automatic. Power source is 100- 240 V, 50Hz. power cord with round 3 pin top. Power consumption:operating-170W, standing-20W. Operating temperature is +5 to +40°C. RF output power is 20W. RF output frequency;40.68MHz. Compliance with EN61010-1. Classification: Class I. Installation category: Category II

BLOOD TUBE SEALER,	MTBTS02
Power Supply	100-240 AC , DC 12 Volts
Input Frequency	50/60 Hz
Operation	Continious
RF Output Power (Effective)	20W
RF Output Frequency	40.68 Mhz
Indications	
	Power
	Seal
seals/hour	800 seals
Tube Detection	Automatic
Maximum Diameter of the tube that can be sealed	6mm
Sealing time	0.5-3 sec: Adjustable
Weight	3 kg
Battery Backup	More Than 1000 seals
Working Environment	
	Temperature : 5° to 40°C
	Relative Humidity: 30 to 75%
Atm Pressure:	700 to 1060hPa
Dimension	250 x 120 x 90 mm (approx)
Power Consumption	
Operating :	100 W
Standby :	20 W
Fuse	250V, 3A

FLEXIBILITY, MOBILITY, AND ELECTRICAL SAFETY

In under three seconds, this next-generation tube sealer reliably creates high-quality seals that are easy to separate. Compact, lightweight, quiet and durable, this device is suitable for single-unit or cascaded bench-top use, bringing increased efficiency to blood collection and processing.



Advanced features include:

- Precise sealing without mechanical wearing
- Multi-colored LED clearly indicates device Battery status
- Tension relief arms prevent traction on the tubing during the sealing process
- Ability to adjust the tubing segment length to best meet operator needs
- Removable sealing head for easy cleaning
- No of Seals- 1250 for full charged battery with Lithium Polymer battery.
- Low weight power pack of 760 grams with robust metal housing

HOW IT WORKS

Press the arm of hand gun sealer when tubing is inserted between the electrodes of the sealing head. Tension relief arms grip the tubing to prevent traction on the tube. Then, the moving electrode from the sealing head moves forward and squeezes the tubing. At this moment, high frequency waves are activated and melt the tubing into two, easy-to-separate parts. The Meditech Blood Tube sealer is designed for PVC tubing up to 6 mm (0.23 in) outer diameter.

Ready

The GREEN LED indicates the device status.

Sealing

Sealing is accomplished in 0.5 to 3 seconds, depending on tubing size.

Completed seal

Creates reliable, high-quality seals that are easy to separate.

Sealing head

Easy to remove for cleaning.

PLASMA THAWING BATH

M-Series
T-Series



General Features

Temperature range from 36°C to 100°C with micro controller based temperature controller includes digital temperature display of set value and process value. Equipped with Heater to ensure temperature maintenance at any set value between 37° Celsius to 100° Celsius. Micro Processor based controller for precise monitoring and controlling of temperature at 37 degree Celsius with Accuracy of 0.5 Degree Celsius. Table top configuration with top opening.

Cabinet Construction

- 1.The cabinet of MEDITECH thawing bath 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, Outer cabinet - Mounted coated with broken white colour texture finish(1.0 mm thick) Mild Steel and the door has a magnetic gasket with a keyed lock.
4. high capacity pump to facilitate optimum and uniform thawing of plasma
- 5.Trays with individual compartment to ensure that ports of bags may be kept above water level during the procedure
6. mounted on heavy duty plastic foot

Temp Controller

Micro processor based temperature control with accuracy of $\pm 0.1^{\circ}\text{C}$
Time taken for one process – 15-20 minutes (for Plasma bags stored at -40 degree Celsius)
Temperature sensing method – Sealed Sensor dipper directly in the water

Audio Visual Alarm

- Audio-visual alarm if temperature deviates from preset temperature.
- Display of Set value & Process value.
- Low and high water Alarms
- Integrated pump for internal circulation maintains precise temperature uniformity throughout the liquid medium.
- Rounded corners for better water circulation and uniformity.
- Formed in place PUF insulation improves temperature stability and energy efficiency.

MTUD Series

Model	MTPT01	MTPT02	MTPT03
Type		Vertical	
Storage capacity	6 nos of plasma bags	12 nos of plasma bags	18 nos of plasma bags
Door	made of 18swg CR Sheet, powder coated with structure finish and filled with formed in position PUF		
Miniature Circuit Breaker (MCB)	240V / 10 A		
Cabinet material	18 swg CR Sheet - powder coated		
Inner chamber	22 SWG Stainless Steel Sheet		
Input voltage	160 - 270 V, 50Hz, single phase AC		
Stabilizer	1KVA stabilizer inbuilt		
Chamber temperature range	-5 to 100 degree C		
Compressor	Hermetically sealed compressor		
Refrigerant	R134a		
Wheels	Caster wheels		
Temperature sensing method	Encapsulated digital sensor dipped in 0.25% glycerine solution 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
	Temperature High		Audio - Visual
	Temperature Low		Audio - Visual
	Door open		Audio - Visual
	Battery Low		Visual
	Battery ON		Visual
	Power failure		Audio - Visual
	Sensor failure		Audio - Visual
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

CRYO PRECIPITATE BATH

M-Series



General Features

Temperature range from -5°C to 100°C with micro controller based temperature controller includes digital temperature display of set value and process value.

Cabinet Construction

- 1.The cabinet of MEDITECH cryobath 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.Acrylic trays are provided for holding plasma bags.
5. High density CFC Free Poly Urethane Foam insulated cabinet with corrosion resistant stainless steel interior and white powder coated exterior finish

Temp Controller

Micro processor based temperature control with accuracy of $\pm 1^{\circ}\text{C}$

Audio Visual Alarm

- Audio-visual alarm if temperature deviates from preset temperature.
- Digital temperature display.
- Low and high water Alarms
- Integrated pump for internal circulation maintains precise temperature uniformity throughout the liquid medium.
- Rounded corners for better water circulation and uniformity.
- Formed in place PUF insulation improves temperature stability and energy efficiency.
- Calibration & Validation.

MTUD Series

Model	MTPT01	MTPT02	MTPT03
Type		Vertical	
Storage capacity	6 nos of plasma bags	12 nos of plasma bags	18 nos of plasma bags
Door	made of 18swg CR Sheet, powder coated with structure finish and filled with formed in position PUF		
Miniature Circuit Breaker (MCB)	240V / 10 A		
Cabinet material	18 swg CR Sheet - powder coated		
Inner chamber	22 SWG Stainless Steel Sheet		
Input voltage	160 - 270 V, 50Hz, single phase AC		
Stabilizer	1KVA stabilizer inbuilt		
Chamber temperature range	-5 to 100 degree C		
Compressor	Hermetically sealed compressor		
Refrigerant	R134a		
Wheels	Caster wheels		
Temperature sensing method	Encapsulated digital sensor dipped in 0.25% glycerine solution 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
	Temperature High		Audio - Visual
	Temperature Low		Audio - Visual
	Door open		Audio - Visual
	Battery Low		Visual
	Battery ON		Visual
	Power failure		Audio - Visual
	Sensor failure		Audio - Visual
	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

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.



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

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.

Temperature Variations Prevented

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.

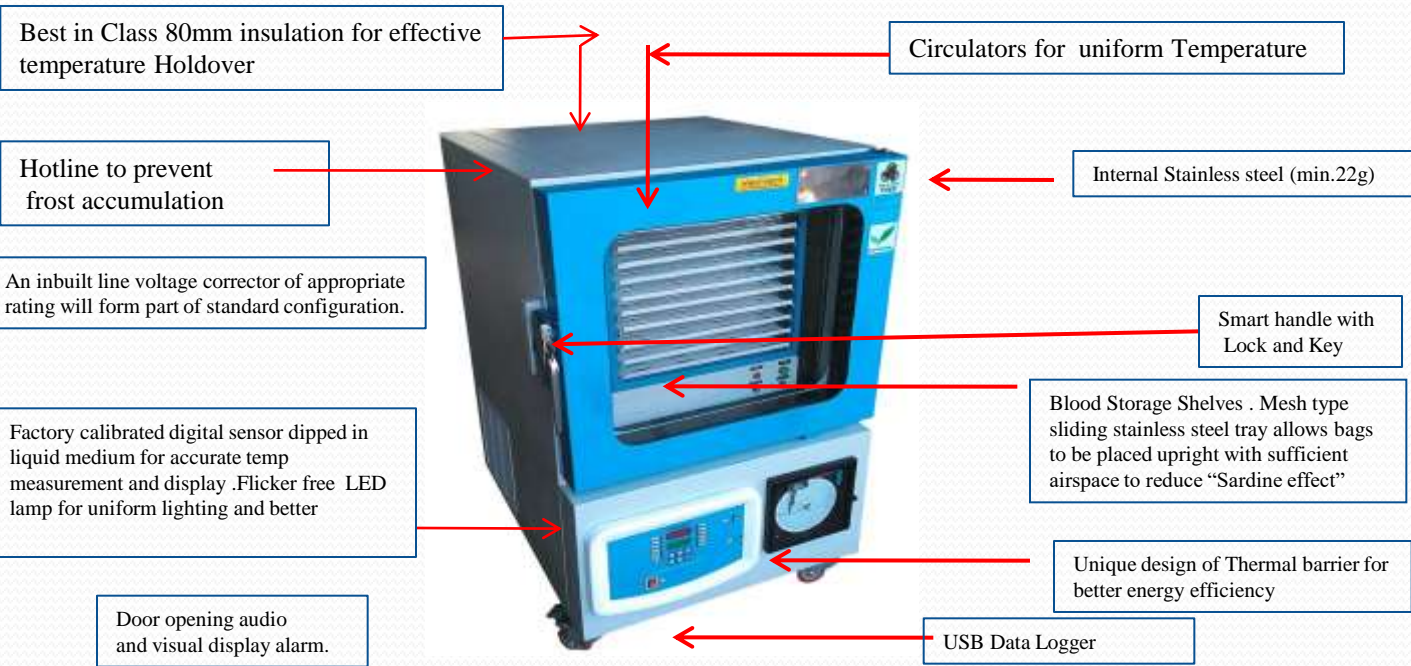
Eyelevel positioning of TRCU for better visibility.

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

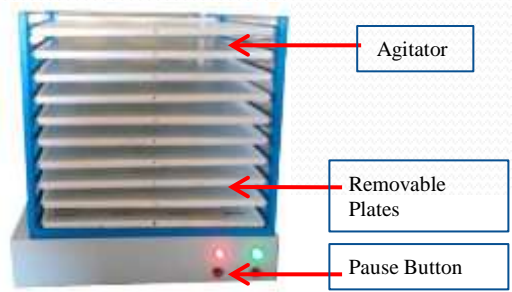
The stabilizer protects the incubator from input voltage fluctuations and ensures that the equipment has a long life-cycle

Know your machine

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



	Model	Bags, 350 ml	Capacity	Temperature Recording Device
Incubator -Agitator	MTIA01	48 Bags	150 litres	7 days Chart recorder
	MTIA02	96 bags	275 litres	
	MTIA12A	130 Bags	330 Litres	
	MTIA03	168 bags	500 Litres	



Laminar Air Flow

Laminar airflow cabinets are designed for creation of a bacterial dust free air space. Laminar airflow cabinets are used for work with low-risk substances and materials, when protection of working material from environment is required or work with item requires a sterile working zone. Cabinets are used for equipment of local workplaces in medical, pharmaceutical and other institutes with high requirements for air cleanliness in the working zone.



It provides ISO class 5 environment within the work area that complies with the latest IEST recommended practices.

CRCA powder coated with RAL9002 colour shade. Polycarbonate transparent side panels.

- Perforated stainless steel diffuser screen products the HEPA filter and maintain uniform air flow velocity within the work area.
- Easy disassembly for access through a small door.
- Filters: Aluminum framed High efficiency Particulate air (HEPA) filter, with a minimum efficiency of 99.99% at 0.3 micron.
- Construction: Models available in laminated finish 18 gauge stainless steel 304.
- Noise level: <65 DB measured at 1 meter from filter face.
- Motor / Blower assembly: Direct drive, continuous duty ¼ HP with sealed bearings. It is mounted on FRP casing to reduce noise & vibration and is dynamically balanced.
- Options: Electrical Outlet, Magnehelic pressure differential gauge, Mini pleat HEPA / ULPA filter, Gas / Vacuum / Air inlet nozzles

SUCTION FILTER:

Filter Casing- S.S.304/316 flange type.
Efficiency- 95% down to 5 micron (EU-4 Rating.)
Media-Non-woven synthetic media sandwiched between two layers of High Density Polyethylene Mesh.

SUPPLY FILTER:

Filter Casing- Aluminum factory extruded section.
Efficiency- 99.999% down to 0.01 micron (EU-14 Rating.)
Media- Micro fiberglass paper media (Imported) pleated along with Hot Melt Glue.

BLOWER MOTOR ASSEMBLY:

Electric Motor-Crompton / Shanty make, double ended shaft, Single phase, 240 volts, 50Hz.
Impellers-Aluminium, statically & dynamically balanced, forward curve type.
Blower casings- FRP, centrifugal type.
Air Flow :- 90 FPM + 10 FPM

ACCESSORIES:

Pressure gauge for checking the pressure drop across the supply
Filters. Range- 0 TO 50 mm of WC.
Gas cock / Air cock
Hour meter connected to UV light.
PU caster with S.S. body and front lockable type wheel.
S.S.304 height levelers.

ELECTRICALS:

Feather touch ON/OFF switches for b/w motor, tube light, UV light & aux. socket with light. Indication.
40w, Fluorescent light with milky diffuser.
30w, UV light along with Hour meter.
6/16 Amps, Aux. socket with SS cover plate
16 Amps. Three-pin top along with connection cable

Laminar Air Flow

Cat. No.	MTLA01	MTLA02	MTLA03	MTLA04	MTLA05
Working area (ft) (LxWxH)	2 x 2 x 2	3 x 2 x 2	4 x 2 x 2	6 x 2 x 2	8 x 2 x 2
Working are (mm) (LxWxH)	610x610x610	915x610x610	1220x610x610	1830x610x610	
Size of HEPA filter	2' x 2' x 6'	3' x 2' x 6'	4' x 2' x 6'	3' x 2' x 6'	4' x 2' x 6'
HEPA filters	1	1	1	2	2
Pre filters	1	2	2	3	4
Illumination	1 x 20 W	1 x 20 W	2 x 20 W	2 x 20 W	4 x 20 W
Filter efficiency	99.90%	99.90%	99.90%	99.90%	99.90%
Working area	Class 100	Class 100	Class 100	Class 100	Class 100
Particle retention	0.3 micron	0.3 micron	0.3 micron	0.3 micron	0.3 micron
Velocity	90 FPM ± 20%	90 FPM ± 20%	90 FPM ± 20%	90 FPM ± 20%	90 FPM ± 20%
Illumination	750 - 800 LUX	750 - 800 LUX	750 - 800 LUX	750 - 800 LUX	750 - 800 LUX
Power supply	110 V/230 V AC	110 V/230 V AC	110 V/230 V AC	110 V/230 V AC	110 V/230 V AC

Micro-controlled donor couch designed to provide a comfortable position for the donor



The Meditech Blood Donor Couch is a fully upholstered donor chair, designed to provide a comfortable position for the donor, and features variable positioning for either arm, as well as reclining and upright body positions.

Parameter	Value Description
Size	Length: 1828 mm; Width: 609mm ; Base seating height:660 mm ; Additional hand rest 200mm width on each side
weight	65 Kilograms
Positions	(1) Head Low (2) Feet High (3) Intermediate positions.
Operation Control	Remote Control
Hand rest	2 Numbers (left and right)
Power Consumption	0.9 watts. Single phase. 230 Volts, 50/60 Hz
Castor wheels	4 Lockable castor wheels are provided.
Weight Capacity	200 Kilograms
Compliance	73/23/EEC(LVD) 89/336/EEC (EMC) 93/68/EEC
CE	This marking reflects with council directives on EMC 89/336/EEC, 92/31/EEC, 93/68/EEC.

1. All metal Frame Construction
2. Power slide control provides smooth shifting from **head-low, feet-high position** to any **intermediate position**
3. Accommodate assembly for operator ease and solid arm support
4. Ambar assembly for operator ease and solid arm support
5. 25 inch seat allows waist-high working level.
6. Adjustable arm rests swing out for easy seating as well as move up and down
7. Premium, UL listed polyurethane foam
8. Top quality, contract grade vinyl covering

Quality Standard: CE and WHO-GMP Certified



Features of Meditech Plasma Expressor

IR Sensor

Motor activated clamping

Audiovisual Alarm

Spring Loaded Acrylic Plate

Uniform Pressure

Automatic Control

microprocessor based automatic calibration for different makes of tube and bags

1. highly sensitive opto infra red electronic sensor and can activate the clamp, the instant it detects the presence of red cells or buffy coat in its path so that extracted plasma is totally free from red cell and buffy coat contamination
2. The plasma expressor is provided with uniquely design clamp mechanism
3. Compression plate is designed to exert uniform pressure on the donor bag and minimizing the chances of rupture of the bags
4. Ensures fast clamping at reduced power
5. Port is provided for interface with Blood weighing scale
6. Both automatic & manual clamping modes can be used.
7. User friendly system with alarms and indications



Clamp and clamp stripper

Function: clamp for closing mechanical tubing pockets of blood through the use of clips

Specifications:

- For stripping the tubing of blood bags for preparing the segments before sealing.
- Made up of high quality stainless steel
- light weight for easy handling.
- Stripping should be smooth and easy.
- After sale service should be available locally

Mobile Blood Donor Couches



We are manufacturer and supplier of **blood donation camp cot** which is the fusion style and comfort. This is the most convenient option for **blood donation** in outdoor camps. The company has established itself in the market as a prominent manufacturing company of *blood donation camp cot* who offer you an extensive range at very reasonable prices. It has been made by our well trained technocrats using high-grade material which ensures its reliable long lasting performance. *Blood donation camp cot manufacturer* is widely appreciated for its high quality range products that have been made up with perfection to finish. It can also be customized as per the mentioned requirements of our valued customers.

Features: -

- *Blood Donation Camp Cot* Is A Light Weight Unit, Build With Latest technology.
- Can Be Kept In Folded Condition To Save The Surface Area.
- Additional Stand for Blood Pressure Unit.
- Carry Bag Is Provided For Easy Transportation.

Quality Standard: CE and WHO-GMP Certified