



# BLOOD BANK INSTRUMENTS

**A reliable name for scientific equipment for Industrial,  
Laboratory, Research, Medical and Educational Establishments.**



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# BLOOD BAG TUBE SEALER

The unit is heavy duty & based on RF 40.63 MHz Di-Electric heating without damaging the blood cells. Input Voltage 230 V, 50/60 Hz Blood Bag Tube Sealer seal tube of 4-6 mm diameter. Seal with in 1.5 second/tube. Indication sealing. Sealer based on RF dielectric heating which gives unique sealing finish and RF single is applied only after tube is fully squeezed. Stand wide input voltage fluctuation.

## Salient Features:

- Lightweight, portable and heavy duty.
- Modern electronic system.
- Sealing time is variable from 0.5 to 3 sec.
- Wide seal of 2 mm thickness.
- Easy to clean electrodes.
- Electrodes well protected by a cover.
- Able to seal all blood bag tubes.
- Sealing triggering automatic.
- Continous Battery back up 230V in Online mode.
- Battery Back up gives more than 1000 sealing when fully charged on offline mode.





# Specifications:

## Of Blood Bag Tube Sealer



Oscillation Frequency	40.63 Mhz.
RF Output	15 W or less
Sealing Type	Automatic
EEC Standard Class 1	93/42 and 7/2007
Input Voltage	230 V , 50/60 Hz
Battery Charger	SMPS ,200 – 250 V
Out Put Voltage	12 V
Ref Standard	E-60601-1 Electric
Safety	E 60601-1-2 For EMC
Power Consumption	100 VA
Weight	Approx 3.5 kgs.
Effect Consumption	100 W maximum effect
Classification	Protection against Electrical shock

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# Blood Bank Refrigerator

The blood bank refrigerator is an essential piece of equipment in the immunohematology department and provides safe and convenient storage of whole blood, blood components (e.g., blood cells, plasma), and reagents. Blood bank refrigerators ensure freshness and integrity of blood and blood components. Our Blood Bank Refrigerators meet strict requirements for storage of whole blood and blood components and feature microprocessor control, simplified push-button alarm test functions and reliable, field-proven refrigeration systems.

## Features

- Microprocessor based temperature controller
- Touch Screen Display
- In built Data Storage
- Sensor: PT 100
- USB Interface for Data Logging
- Menu Driven soft touch keys
- Audio Visual Alarm
- Door Open Detection
- Real Time Clock
- Battery Back up for temperature display
- Auto Defrost Setting





# Key Features

## Of Blood Bank Refrigerator



Catalogue No.	LSI-BBI-BBR-T50
Outer Body	Powder Coated Mild Steel
Inner Chamber	Medical Grade stainless Steel
Inner Drawers	Wire mesh Stainless Steel Sliding type
Temperature Range	2-8 degrees
Accuracy	100 Ltrs.
Chamber Volume	44 x 40 x 62 Cms
Inner Size	Touch Screen
Display	7 Kgs.
Control	PID
On Screen Data	Yes
In Built Storage	Yes
On Screen Graph	Yes
Data Download	Through USB in Excel format
No. Of Baskets	Two
Blood Bags @	60x350 ml.
Operating Voltage	220 volts AC

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# Blood Collection Monitor

The unit is Microprocessor controlled, LCD digital display of volume weight, flow rate, audiovisual alarm, motor activated clamping and auto calibration

## Salient Features

- The unit is Microprocessor controlled
- LCD digital display of volume
- Weight, flow rate, audiovisual alarm
- Motor activated clamping and auto calibration
- Input Power 1-Ø 110V-270AC Hz

### Display on LCD:

1. Start
2. Process
3. Complete
4. Pause

### 5. Manu display

(350ml, 450ml, calibration buzzer on off)

Auto Diagnostic Display for rocking, plunger, road cell.





# SPECIFICATION

## Of BLOOD COLLECTION MONITOR



Battery backup 24 hour.

Lightweight & portable.

Set point selection of blood up to 999 ml /gm and continuously display on dot matrix LCD.

Having memory of previous volume for repeated collection.

Automatic counter balancing to start the procedure.

The Tarring range is 0-999 gm. i.e. tarring of bag weight before collection.

Automatic clamping at termination of preset volume collection.

Continuous display of current status of volume / weight & collection time on LCD.

Having gentle mixing i.e. continuous agitation 12-20 cycle/min.

Complete indication and audio alarm at the end of collection.

Measure volume / weight with best accuracy  $\pm 1$  ml. / gm.

The instrument is having audio alarm when blood flow is more than 180ml (high blood pressure) and less than 20ml (low blood pressure) within 60 seconds continuously display the flow rate.


For Emergency Stoppage , A Pause key and stop key is provided.

By repressing the pause key again previous programmer can be activated.

Automatic release of bag when lifted.

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# Blood Roller Mixer

This is an equipment to make blood homogeneous. It is shake-less and gentle mixing process. It is essential pre-process for perfect result of RBC, WBC and platelet counting on Hematology Analyzer.

## About:

- For thorough mixing of blood samples and cell suspensions.
- Keeps the contents of closed tubes in gentle motion by rocking while rolling.
- Compact and ergonomic design.
- 4 rolls of PVC rods for smooth operation.
- Can accommodate various sizes of centrifuge & tubes.





# Key Features Of Blood Roller Mixer



Rolling Speed	10 – 30 RPM
Rocking Frequency	5 Cycles per minute at 35° angle
No. of Rollers	4 or 6
Dimensions	455 x 265 x 120 mm
Exterior Body	MS Coated
Rolling Rods Material	PVC, each of 320 mm
Maximum Load	5 kg.
Supply	220 / 230 V, 50 Hz
Timer	No

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# BLOOD DONOR CHAIR

Solid surface seat to ensure maximum comfort for the donor. The seat has a premium rated foam filled back rest supported by a steel structure. The sturdy construction of this seating ensures that the chair can be used year after year

## About:

Comfortable chair type with soft padding for cushioning and rexin cover. Seat, back rest and leg rest size designed for donor comfort. The Blood Donor chairs is used in various application such as Blood collection chair for collection of Blood, Blood donation chair for donation of Blood.





# Key Features Of Blood Donor Chair



Framework made of Stainless Steel.

Back rest & leg rest section adjustable on Ratchet / Lever.

Legs fitted with PVC Stumps.

5 cms foam cushioned top covered with rexine.

Head section & leg section move simultaneously.

Adjustable Arm Rest.

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# Blood Donor Couch

The Blood Donor couch is designed to provide a comfortable position to the donor during blood donation process. Blood Donor position can be shifted from upright body position in case of vasagonal attack. The Meditech Blood Donor Couch is a fully upholstered Blood donor chair.

## About:

Solid surface seat to ensure maximum comfort for the donor. The seat has a premium rated foam filled back rest supported by a steel structure.

The sturdy construction of this seating ensures that the chair can be used year after year.





# Key Features Of Blood Donor Couch



Electric blood donor Chair Fully Comfortable.

Body Material — Wooden , Steel , with Rexine Cover for long life use.

Fully Automatic Remote Function for backrest & foot rest .

220 VAC Operated 50 Hz.

Arm Rest two Side with Height Adjustable.

Long life Mechanical System with easy use & Protection Limits Switch.

Ergonomic designed.

Comfortable and right posture.

Light weight and stylish design.

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# BLOOD TRANSFUSION CHAIR

Blood Transfusion Chair is a medical chair designed for blood transfusions. The chair features a comfortable, padded seat and backrest, as well as armrests for added comfort.

## Key Features :

- Blood sampling chair with fixed height, Height= 670 mm.
- Comfortable upholstery with good density, width 550.
- Steel quality, epoxy paint.
- Adjusting back rest via 1 gas jack.
- Adjusting leg rest via a self locking mechanism system.
- Equipped with 2 blood test splints, every position adjustable by serrated blocks system.
- Load capacity: Dynamic 130kg.





# Specification Of Blood Transfusion Chair



Size	Standard
Color	Blue
General Use	Blood Transfusion Chair
Brand	Lab Solution India
Material	Strong durable coated steel with artificial leather with cushion for comfort
Weight	20kg
Seat	Adjustable Seat
Design	L Shape
Foldable	Yes

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# Deluxe Blood Donor Couch

Deluxe Blood Couch has solid surface seat to ensure easy & hygienic premium rated foam, cushion and spring component for donor comfort. With the help of electric power, we can fully adjust the donor position in between head low-feet high to head high-feet lower position and arm rest (left and right) swing out for easy seating as well as up & down of chair such position minimization of donor.

## Specification:

- Dimension: Minimum 60 inch (L) x 36 inch (W)
- Head height reachable up to approx. 45 inch
- Foot height reachable up to approx. 35 inch
- Seat Height approx. 25 inch
- Capacity of patient weight. 150 kg
- Power: 220 V AC, 50 Hz, Single Phase.





# Key Features

## Of Deluxe Blood Donor Couch



Motorized Donor Chairs suitable to use for blood banks, infusion treatment centers, and hospital, clinics, and aphaeresis, plasma centers and other similar discipline.

Remote switch for easy repositioning.

All hardwood frame construction.

Push pillow back for donor comfort.

Lockable castors for easy mobility.

Fire Resistant Upholstery & Punishment proof laminates.

High quality contract grade vinyl upholstery with antimicrobial/antibacterial coating to prevent from stain, abrasion and bacterial growth.

All exposed metal ports are chrome plate for easy cleaning & durabilit.

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# CRYOPRECIPITATE BATH

Cryoprecipitate Bath is designed to safely and reliably thaw fresh frozen plasma (FFP) for the recovery of cryoprecipitated antihemophilic factor. It is very easy to operate bath and thawing temperature is preset at +4 °C. and maintained with  $\pm 0.2$  °C. Stability. • Exterior powder coated galvanized steel (1 mm.) cabinet and interior 304 grade stainless steel (0.7mm) cabinet. • Door locking system for unauthorized access. • Casters for easy mobility with breaks in front. • CFC-Free foamed in place (PUF) insulation confirms to the most rigid international standard. • Illuminated operated power ON/OFF switch. • Microprocessor based CE certified temperature controller preset at 4 °C

01 > 02 > 03 > 04

Temperature range from 4°C to 100°C with micro controller based temperature controller includes digital temperature display of set value and process value is also available .

Most precise temperature control within  $\pm 0.1$ °C with a powerful pump for uniform circulation.

Over temperature cut off, supply to heater switched off, in case of over temperature, low water alarm etc. for product protection.

Unique drain valve with a tube for easy cleaning and maintenance. All parts coming in contact with water are of high-quality stainless steel.





# Specification Of Cryoprecipitate Bath



Capacity	40 litres
Temperature	4 Degree C to 37 Degree C
Dimension	L440 x W385 x H250 mm
Thawing capacity	To hold 6 FFP bags
Drain	Automatic, special type, with valve and tube
Pump	Circulation Pump
Trays Material	Acrylic
Material	Stainless Steel
Alarm System	Audio -Visual Alarm System
Control	By PID for precise temperature control
Finish	Color Coated
Voltage	230 V
Phase	Single Phase

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# PLASMA FREEZER

Lab Solution India is the one of the best manufacturer and seller of Plasma freezer in India. The deep plasma Freezers available in a variety of configurations with temperature range from -20 to -86 degree C. Various sizes and configuration are available for different application, Ultra Deep Plasma freezer is available in Touch Screen and Advance LED Configuration. Our plasma freezer are manufactured from special alloy steel CRCA powder coated and bacteria resistant. The Inner body is made up of stainless steel 304. The Blood Plasma Freezers are widely used in Blood Bank and research centres for conservation of plasma and blood derivatives.

The Plasma Freezer is produced using CFC and HCFC free Eco friendly gases. Temperature range from -20°C to -86°C with micro controller based PLC controller. There is a digital display of set value and process value of various parameters like temperature and alarms.

01 > 02 > 03 > 04 > 05

The cabinet of freezer is insulated with high density CFC free PUFF insulation and vacuum insulated panels.

Interior chamber is manufactured using corrosion resistant stainless Steel 304 with minimum 0.8 mm thick.

The exterior cabinet is manufactured with Anti Bacteria Blue Pure Polyester powder coated 1.0 mm thick CRCA Aircraft alloy Steel.

Stainless steel SS304 fabricated trays are provided for storage inside.

The Blood plasma deep freezer are provided with handle and lock for safety and security. The door has magnetic gasket inside.





# Key Features Of Plasma Freezer



## Refrigeration-

- Our plasma freezer has Heavy duty air cooled refrigeration system.
- 86 degree Plasma Freezers works on cascade refrigeration system
- Non-CFC and HCFC refrigerant is used.
- There is Automatic evaporation of condensate and auto defrost system
- Auto Defrost cycle is controlled with PLC Controller to maintain constant temperature

## Temp Controller-

Our Blood plasma freezer comes with Touch Screen and Advance Led controller as option. Both are micro processor based PLC system with 12 types of Audio Visual Alarm.

- Audio Visual Alarm when the door is opened
- Audio Visual Alarm when temperature deviates from preset temperature
- Chart Recorder
- 7 days circular Chart recorder is provided for blood bank with USB and data logger

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# PLASMA THAWING BATH (DIGITAL MODEL)

The device supports the state-of-the-art technology for increasing the accuracy of blood collection and related procedures performed by healthcare professionals. Some of the salient features of FDA Approved Plasma Thawing Bath are Support stainless steel construction with interior chamber featuring 304 and 0.8mm thickness of corrosion resistant stainless steel.

## About:

Plasma Bags	4	20
Capacity (litres)	16	5
Inner chamber	Stainless steel 316	
Outer chamber	Mild steel epoxy coated	
Temperature (°C)	37	
Accuracy (°C)	±0.5	
Display	LED	
Alarm	Motion Failure Alarm	
Voltage	230VAC 150Hz	





# Key Features

## Of Plasma Thawing Bath (Digital Model)



Low and high water alarms

Removable acrylic trays for keeping plasma bags

Micro processor based temperature control with unmatched reliability and accuracy

No direct contact with water

Maintains constant temperature of 37° C

Rapid thawing and warming with maximum thaw time is 25 minutes

Sturdy construction supporting continuous operation

Supported with power backup supply in case of electrical failure

Leak detection, overheat and auto shut off alarms

Certified with UL and CSA standards

Digital display of set and process value

Rounded corners for uniform water circulation with better efficiency

Gentle and safe heating conditions for blood thawing

Easy to clean construction

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# PLATELET AGITATOR

Platelet Agitator model is specifically designed to maintain donor platelets an even suspension throughout the blood plasma. Platelet agitator agitates at the fixed speed of 70 to 80 strokes per minute.

01

02

03

04

Platelet Agitator agitates at the fixed speed of 70 to 80 strokes per minute.

The self are pure in stainless steel.

Maximum 48 standard blood bags can be accommodated.

Fixed speed agitation with optimum amplitude for better viability of platelets.





# Specification Of Platelet Agitator



Brand	Lab solution India
Fixed Speed	70 to 80 strokes per minute
Number of Trays	9
Material	Stainless Steel
Size	38 x 45 x 40 cm
Voltage	220 V
Freequency	50 Hz

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# TISSUE CULTURE RACK

Tissue culture racks are very useful for various types of tissue culture plants and other tissue culture work in tissue culture room. Used in areas of tissue culturing of plants as well as in other tissue culture work . It is Ideal for Agricultural Research Labs.

## SPECIFICATION:

No. of Shelves	4	5	6
Lighting Facility in Shelves	3	4	5
Total No. of Fluorescent Tube	12	16	20
Total No. of Incandescent Lamps	12	16	20
Distance Between Shelves	16"		
Platform Size	48" X 21"		
Electric Supply	AC 230V, 50/60Hz		





# SALIENT FEATURES Of Tissue Culture Rack



Minimum heating effect/heat dissipation.

No Flickering effect.

Tissue Culture Racks are made of tubular mild steel pipes flawlessly constructed duly painted/ powder coated for longer life so as to provide the structure due protection from issues like corrosion for durability.

Each rack of size 48"x21" (depth) is covered with thick unbreakable plexi glass/hylem sheet.

Distance between shelves to shelves is 16".

Platform surface is of 3mm thick hylem Sheet.

Four 40-watt fluorescent light (With Electronic Ballast).

4x25 Watt incandescent lamps in each shelf with switching arrangement.

UV Germicidal Light are fitted inside the rack / work area.

All fluorescent tubes chocks and ultra violet germicidal tube chocks are fitted out side of rack.

If desired to avoid heat dissipation inside the rack.

Fitted with 0-24 Hours Digital Timers.

All control panels are fitted on the sides of tissue culture racks comprising of On/Off switch of fluorescent tubes and UV tubes & Timers.

The whole rack is provided with four nos. castor wheels at the bottom for easy mobility to any place.

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