BSC-50

BSC-200

TECHNICAL SPECIFICATION

- Constructed in double wall CFC free PUF (Polyurethane foam) Insulated, PUF thickness > 80 mm.
- Inner body made with Stainless steel 304 grade 22SWG and Outer body made with galvanized pre painted sheet (GPPS) 18 SWG, provision for air circulation through internal fan facility, one low watt bulb for inspection, door fitted on the door with heavy duty hinges, door locking arrangement, magnetic door gasket.
- **Front Door:** Double Vacuum packed toughened glass door (frost free at glass door and at full front glass view), Door opening angle limited to 90° to 110°, Separate inner acrylic door with magnetic latch. Hotline around the mouth of the cabinet to prevent moisture condensation. Mounted on Lockable caster wheel.
- Audio Visual Alarms: In case of power failure, High voltage, Low voltage, High & Low temperature, door opening.
- CFC free refrigerant. Hermetically sealed refrigeration compressor
- Microprocessor based digital temperature controller cum indicator used for controlling +4 ^{o}C ± 1 ^{o}C, accuracy 0.1 ^{o}C.
- Temperature gradient less than 1 ^{o}C.
- **Power Supply:** 220-240 V, 50 Hz, Single phase A.C. Supply.

MODEL	CAPACITY	INTERNAL SIZE	EXTERNAL SIZE
BSC-300	300 Standard Blood Bags	700 x 600 x 1225 in mm	900 x 800 x 1600 in mm

SR no 1. Technical Specification of Blood Bank Refrigerator (for storing ELISA kits, reagents and samples)

1. Purpose of Equipment:

1. Vertical refrigerator for storing kits, reagents and samples

2. Capacity: 300 liters

3. Temperature range 2-8ºC with digital display of temperature

4. Microprocessor based temperature control

5. LED display and alarm system for temperature, power failure and door ajar

6. Hermetically sealed compressor with castor wheels facility for mobility

7. Factory calibrated RTD digital sensor located in top portion of the chamber in a liquid medium bottle

8. Flicker free CF lamp/ LED light for internal view

9. Must use non-CFC refrigerant

10. CFL bulb which can be changed without removing the drawers

11. Refrigeration system “On” indicator provided as a standard feature

12. Inner surface made of medical grade 22swg stainless steel

13. Outer body of high grade polished, powdered 18swg galvanized steel

14. Refrigerator must be kept free of frost without elevating the chamber temperature

15. Uniform cooling by forced air circulation using evaporator fan which shuts off when door is OPENED

16. 4-6 stainless steel fully extendable slide out trays

17. Must have external cabinet with a clear powder coated finish to guard against rust and corrosion

18. Clear product visibility with toughened dual/triple glass door filled with non –CFC PUF insulation is must

19. Electrical Characteristics: Input voltage: 220-/240V, 50Hz. With in built voltage stabilizer

20. Certifications:

• Product Certification: CE/European CE /US FDA / ISO 13845 certified

• Electrical Safety: Equipment meets electrical safety specifications such as that of IEC

(Class I); Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

Deep Freezer –40 °C

TECHNICAL SPECIFICATION

- Constructed in double wall CFC free PUF (Polyurethane foam) Insulated, PUF thickness > 80 mm.
- Inner body made with Stainless steel 304 grade 22SWG and Outer body made with galvanized pre painted sheet (GPPS) 18 SWG.
- Door fitted on the door with heavy duty hinges, door locking arrangement, magnetic door gasket.
- Door opening angle limited to 90° to 110°, Separate inner door with magnetic latch. Hot-line around the mouth of the cabinet to prevent moisture condensation. Silicon Gasket on the door for preventing cold losses.
- Mounted on Lockable caster wheel.
- Audio Visual Alarms: In case of power failure, High voltage, Low voltage, High & Low temperature, door opening.
- CFC free refrigerant. Hermetically sealed refrigeration compressor
- Microprocessor based digital temperature controller cum indicator used for controlling -40 °C ± 1 °C, accuracy 0.1 °C.
- Temperature gradient less than 1 °C.

MODEL	CAPACITY	EXTERNAL SIZE (W x D x H)	GROUND SPACE (W x D)	WEIGHT
150	150 LITERS	925 x 800 x 1625 in mm approx.	925 x 800 in mm approx	Approx. 120 kg.
300	300 LITERS	950 x 810 x 640 in mm approx.	950 x 800 in mm approx	Approx. 250 kg.

Ultra Deep Freezer –80 °C

TECHNICAL SPECIFICATION

- Constructed in double wall CFC free PUF (Polyurethane foam) Insulated, PUF thickness > 120 mm.
- Inner body made with Stainless steel 304 grade 22SWG and Outer body made with galvanized pre painted sheet (GPPS) 18 SWG.
- Door fitted on the door with heavy duty hinges, door locking arrangement, magnetic door gasket.
- Door opening angle limited to 90° to 110°, Separate inner door with magnetic latch. Hotline around the mouth of the cabinet to prevent moisture condensation. Silicon Gasket on the door for preventing cold losses.
- Mounted on Lockable caster wheel.
- Audio Visual Alarms: In case of power failure, High voltage, Low voltage, High & Low temperature, door opening.
- CFC free refrigerant. Hermetically sealed refrigeration compressor
- Microprocessor based digital temperature controller cum indicator used for controlling -80 °C ± 2 °C, accuracy 0.1 °C.
- Temperature gradient less than 1 °C.

MODEL	CAPACITY	INTERNALSIZE (W x D x H)	EXTERNALSIZE (W x D x H)	GROUNDSPAC(W x D)	WEIGHT
150	150 LITERS	475 x 500 x 775 in mm approx.	925 x 800 x 1625in mm approx.	925 x 800 in mm approx.	Approx 150 kg.
300	300 LITERS	500 x 510 x 610 in mm approx.	950 x 810 x 640 in mm approx.	950 x 800 in mm approx.	Approx 280 kg.

Platelet Incubator cum Agitator

MODEL: PIA-60
Capacity: 60 Standard platelet bags.

TECHNICAL SPECIFICATION

- To continuously agitate platelet concentrate in an even suspension in a temperature controlled environment +22 ^{o}C ± 2 ^{o}C for standard platelet bags.
- Constructed in double wall CFC free PUF (Polyurethane foam) Insulated, PUF thickness > 80 mm.
- Inner body made with Stainless steel 304 grade 22SWG and Outer body made with galvanized pre painted sheet (GPPS) 18 SWG, provision for air circulation through internal fan facility, one low watt bulb for inspection, door fitted on the door with heavy duty hinges, door locking arrangement, magnetic door gasket.
- **Front Door:** Double Vacuum packed toughened glass door (frost free at glass door and at full front glass view), Door opening angle limited to 90° to 110°, Separate inner acrylic door with magnetic latch. Hotline around the mouth of the cabinet to prevent moisture condensation. Hotline around the mouth of the cabinet to prevent moisture condensation. Silicon Gasket on the door for preventing cold losses. Mounted on Lockable caster wheel.
- Audio Visual Alarms: In case of power failure, High voltage, Low voltage, High & Low temperature, door opening.
- CFC free refrigerant. Hermetically sealed refrigeration compressor
- Microprocessor based digital temperature controller cum indicator used for controlling +22 ^{o}C ± 2 ^{o}C, accuracy 0.1 ^{o}C. Temperature gradient less than 1 ^{o}C.
- Agitation: 72-75 agitation per minutes.
- **Power Supply:** 220 to 240 V , 50 Hz, Single phase A.C. Supply.

Blood Donor Couch (Motorized) DCM

TECHNICAL SPECIFICATION

- **Model : DCM**
- Fully upholstered donor chair, designed to provide a comfortable position to donor, and feature variable positioning for either arm as well as reclining and upright body position.
- Dimension (Approx): Seat height : 26”, Length of the seat and leg rest : 40”, Length of the back rest : 36”, width : 27”, width of the arm rest : 6”, length of the arm rest : 24”, Upholstery : soft upholstery of 2.5” thickness.
- Load bearing capacity: up to 150 kgs (donor weight)
- Donor couch having arm bar assembly with adjustable armrests. Remote controller is located at head of the couches.
- Donor couch is take care of physical position, with the help of electric motor, we can adjust the donor position in between head low –feet high to head high– feet lower position and arm rest swing out for easy sitting as well as up & down of chair such position minimization of donor chair.
- Motor’s working voltage 220 V– 240 V, 50 Hz, Single phase AC supply, gear ratio 10:47, controlled through limit switches, linear speed : 0.42 meter per second.
- The couch height is 26" & power slide controlled by motor.
- The frame of the Recliner is constructed of High grade Steel duly epoxy powder-coated.
- The base is covered with smooth and elegant finish polymer molded which is rust-free, scratch resistant and easy to clean. Leather as per Japanese Standard : JASO-M-313-813
- Manufacturing unit compliant with ISO 13485:2003, ISO 9001:2008, CE approved.
- Equipment compliant with Electrical Safety specification of IEC 60601-1

Blood Donor Couch (Mechanical) DC1-MDx

Normal position for blood donation

Low head– high feet position for blood donation

TECHNICAL SPECIFICATION

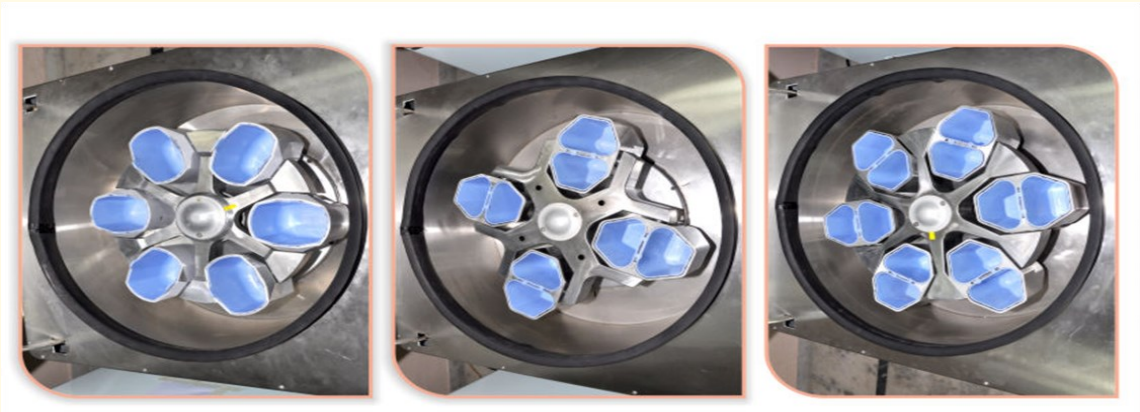
- **Model : DC1-MDx**
- Fully upholstered donor chair, designed to provide a comfortable position to donor, and feature variable positioning for either arm as well as reclining and upright body position.
- Dimension (Approx): Seat height : 26”, Length of the seat and leg rest : 40”, Length of the back rest : 36”, width : 27”, width of the arm rest : 6”, length of the arm rest : 24”, Upholstery : soft upholstery of 2.5” thickness.
- Back section tilt: 0^{o} to 70^{o}, Leg section tilt: 0^{o} to 80^{o}.
- Load bearing capacity: up to 150 kgs (donor weight)
- Donor couch having arm bar assembly with adjustable armrests..
- Manual and Easy operation.
- Controlled by best mechanism with safety features.
- Arm board dimension: 17” x 6 “ inches.
- The couch height is 26" & power slide controlled by motor.
- The frame of the Recliner is constructed of High grade Steel duly epoxy powder-coated.
- The base is covered with smooth and elegant finish polymer molded which is rust-free, scratch resistant and easy to clean. Leather as per Japanese Standard : JASO-M-313-813
- Manufacturing unit compliant with ISO 13485:2003, ISO 9001:2008, CE approved.
- Equipment compliant with Electrical Safety specification of IEC 60601-1

Contact Shock Freezer CSF-18

TECHNICAL SPECIFICATION

- Vertical Upright.
- Working temperature range : +10 °C to –80 °C.
- Constructed in double wall CFC free PUF (Polyurethane foam) Insulated, PUF thickness > 120 mm.
- Inner body made with Stainless steel 304 grade 22SWG and Outer body made with galvanized pre painted sheet (GPPS) 18 SWG. CFC free refrigerant. Hermetically sealed refrigeration compressor.
- Door fitted on the door with heavy duty hinges, door locking arrangement, magnetic door gasket.
- Door opening angle limited to 90° to 110°, Separate inner door with magnetic latch. Hotline around the mouth of the cabinet to prevent moisture condensation. Mounted on Lockable caster wheel.
- Audio Visual Alarms: In case of power failure, High voltage, Low voltage, High & Low temperature, door opening.
- Automatic defrosting and defrost cycle within 8 minutes. Evenly shaped bags for optimum utilization of storage options.
- Shock freezing of several batches in succession with optimized cooling systems.
- State of art compressor technology with optimized cooling system, and Air condenser.
- CFC and HCFC free Refrigerants.
- Separate refrigeration of the fixed cover plate and the electrically adjustable working surface of the upper and lower plates. Three number of Shelves. Trouble free cleaning and disinfection.
- Blood Bag Serial number can be introduced in the program.
- The preset and recommended operating temperature (set point) of -50°C, to minimize the risk of bag rupturing.
- High Voltage protector: Available for 160 V to 255 V voltage fluctuations.
- Microprocessor controlled programmable HMI touch screen for temperature controller and operation documentation. (as per drug act). Temperature setting accuracy 0.1 °C
- Equipment compliant with Electrical Safety specification of IEC 60601-1. CRP meet current EEC standards.
- Power Supply: Compatible with 220V to 240V, 50 Hz, Single phase A.C.

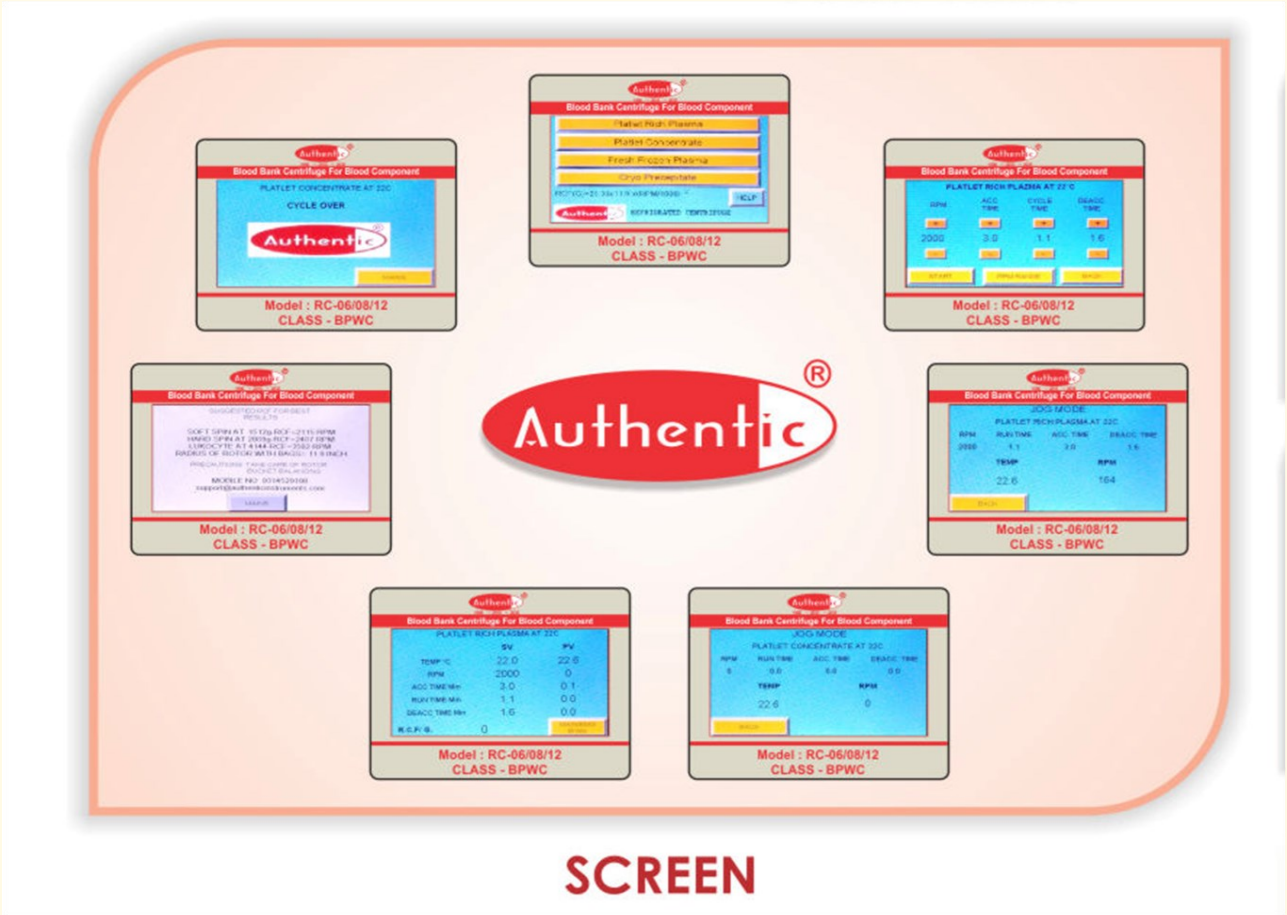
Refrigerated Centrifuge



RC-6 **RC-8** **RC-12**

Refrigerated Centrifuge

BUCKETS



Refrigerated Centrifuge

TECHNICAL SPECIFICATION

- **Model :** RC-6/ RC-8 /RC-12
- Floor standing refrigerated centrifuge for separation of components from whole blood. Fully automatic with touch screen. Programmable memory with tamper proof facility.
- Predefined program and parameter stored in the memory.
- Stable, sturdy all-steel design with stainless steel rotor chamber, easy to clean, corrosion resistant paintings, provision of both drain and condensed water collection container. Automatic lid lock.
- **Swing-out buckets:** Swing-out rotors with metal buckets, with or without wind shielded, suitable adapters for 6/8/12 blood bags with SAGAM bag and empty satellite bags with In line filter system and, removable plastic cups to hold single/double/triple blood bags etc.
- **Temperature control:** Range:-20^{o}C to +40^{o}C, with micro processor controlled rotor temperature within 0.1 °C, regardless of centrifuge speed.
- Digital display (real time and set target) of temperature, speed, acceleration time, deacceleration time, real time and processing RCF with minimum no. of 3 digit resolution.
- **Programmable time**: 0 minute to 99 hours with minimum resolution of 0.1 minute.

Speed and Force:

- **Maximum speed** 4500 rpm
- **Maximum RCF (Relative Centrifugal force) for blood bags:** 6500g**.**
- Acceleration and declaration profiles are independently adjustable with nin e brake levels and option for free coasting.
- **Motor Imbalance detection:** Automatic shutdown of centrifuge if rotor load is out of balance with appropriate indicator. Motion sensors drives unbalance detection. Soft touch emergency stop.
- **Protection & Alarm :** In event of power interruption or complete failure, data remain stored in memory. Password Protection to prevent unintentional switch off and also unauthorized opening of the equipment.
- Alarms for imbalance detection, lid interlock, over temperature, rotor over speed.
- Manufacturing unit compliant with ISO 13485:2003, ISO 9001:2008 .
- **Power Supply:** Compatible with 220V to 240V, 50 Hz, Single phase A.C.
- **High Voltage protector:** Available for 160V to 260V voltage fluctuation.

Laboratory Centrifuge

Laboratory centrifuge machine

Control Panel

Tube Holder

Model	LC-1512	LC-1516	LC-1096
Capacity	15 ml x 12	15 ml x 16	10ml x 96

TECHNICAL SPECIFICATION

- Centrifugation of various samples with or without refrigeration.
- Suitable for routine sample analysis in Medical, Hospital, Pathology and Institutional Laboratories.
- Constructed in double wall CFC free PUF (Polyurethane foam) Insulated, PUF thickness > 60 mm.
- Inner body made with Stainless steel 304 grade and Outer body made with galvanized pre painted sheet (GPPS), door locking arrangement. Door PUF insulated and door opening angle limited to 65° to 85°.
- Audio Visual Alarms: In case of power failure, High voltage, Low voltage, High & Low temperature, door opening.
- Brushless motor up to 4500 rpm.
- Vibration free and balanced.
- Digital display of RPM and Time.
- Steeples Speed adjustment.
- Safety Lid interlocks to prevent cover opening during centrifugation.
- Manufacturing unit compliant with ISO 13485:2003, ISO 9001:2008.
- Equipment compliant with Electrical Safety specification of IEC 60601-1.
- Power Supply: Compatible with 220V to 240V, 50 Hz, 2 Ampere single phase A.C.
- High Voltage protector: Available for 160V to 255V voltage fluctuation.
- **Optional:** CFC free refrigerant, hermetically sealed refrigeration compressor in case of refrigerated lab centrifuge.

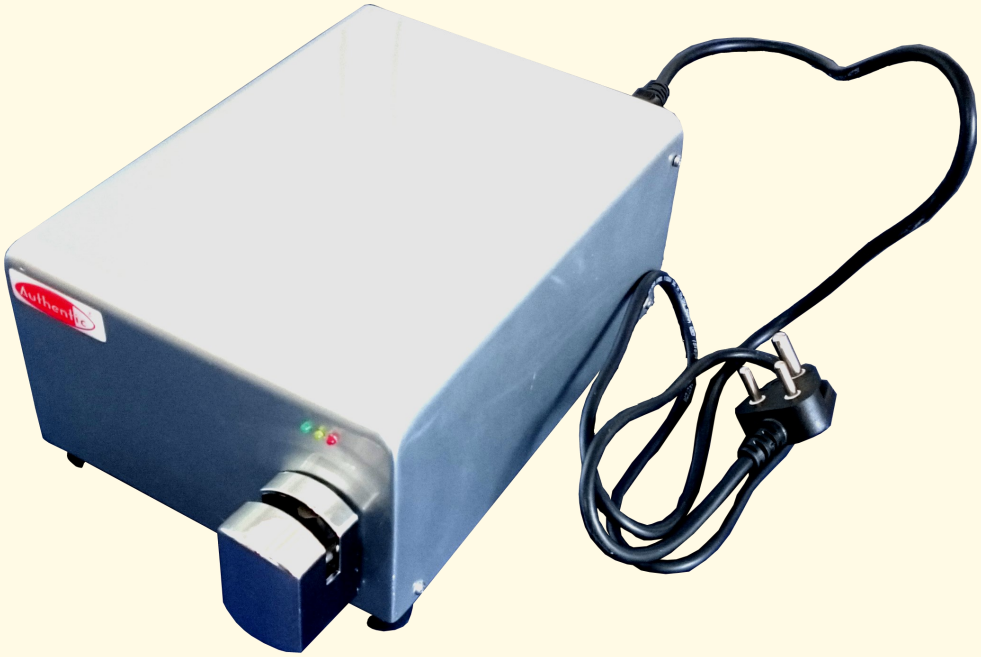
Double Pan Balance

Model no. DPB-3000

TECHNICAL SPECIFICATION

- **Capacity: 3000 gm,**
- 2 independent weight sensors & display weight differences range 0 to 3000 gm.
- Weight measurement range 0 to 3000 gm.
- Weight sensor.
- LED/ LCD Display with facility after equal balance and Pan wt. difference.
- Automatic "0" facility / Auto Calibration facility.
- Accessories like power adapter.
- Sensitivity: 0.1 gm
- Repeatability: 0.1 gm
- Wt. Calibration tolerance **± 0.1 gm.**
- Total Accuracy of display **± 0.1 gm.**
- Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008.
- Equipment compliant with Electrical safety specification of IEC 60601-1.
- Power sources- 220-240 V, 50 Hz Single phase A.C. supply.

Blood Tube Sealer



TECHNICAL SPECIFICATION

Model:	**:**	**BBTS-1**
Sealing time	:	0.6 to 2 Second.
Tube diameter	:	2 to 8 mm with wall thickness of 0.75 mm.
Dimension	:	300 (L) x 175 (B) x 150 (H) in mm
Construction	:	Made of Aluminum alloy casting with anti-corrosive chrome plating.
Operating temperature	:	0-40°C (32° to 104°F)
Type of Sealing	:	RF. Di-electric
Operation	:	Fully automated, continuous operation, it is suitable for bench top use.
No		warm up time.
Power supply	:	220-240 volts, 50 Hz, Single phase A.C. Supply. Power consumption : 30
W.		
Quality of Seal	:	Wide 3 mm & hermetic seal on the tube for easy separation of two ends.
Working	:	On radio frequency which is MOSFET based output : 70 W & operation frequency 40.68 MHz crystal controlled electrical safety-internal power
supply.		
Security Provision	:	Shock Proof sealing handle device & plastic cover on the electrodes to
avoid		contact.
Sensitivity	:	Sealer equipped with sophisticated sensing system.
Maintenance	:	It is easy to clean the electrodes by removing the covering lid on the electrodes.
Sealing	:	Sealer has an intelligent sensing system for better sealing.
Weight	:	5 Kg (approx).
Battery backup	:	Cadmium free Ni-MH batteries rechargeable and maintenance free
battery		
		12V DC.
Capacity	:	1100 to 1200 blood tube seals.
Battery charging time	:	Less than 3 hours.
Indicator	:	Battery power level indicator.
Safety Standard	:	Equipment meet with electrical safety specification of IEC 60601-1.
Quality Standard	:	ISO 9001:2008, ISO 13485:2003 certified

Blood Collection Monitor

FRONT PANEL

TECHNICAL SPECIFICATION

- **Model: BCM-R**
- Pre selection of volume and auto care facility.
- Display of volume and weight.
- Display of set volume & Pause function & Total time taken.
- Volume can be set in 1 ml increment.
- Suitable for any bag either 350ml or 450ml.
- Microprocessor controller based programmer.
- Volume can be set from 1 ml to 450 ml or more.
- Provision for pausing collection and change program during blood collection through
- microprocessor controller.
- Automatic clamping through imported compact motor.
- Provided smooth and gentle rocking action for uniform mixing of blood.
- Blood collection time monitoring.
- Low blood flow rate alarm in case blood flow is higher & lower than present volume.
- The Blood collection monitor having facility to convey weight into volume and vice versa
- through microprocessor.
- The memory having the repeated collection of previous blood volume.
- Uninterrupted Power Supply.
- Having automatic terminator facility of blood collection when blood volume collected reach
- present set volume.
- Automatic zero volume calibration of blood bags.
- Power Supply 230 V ± 10; 50 Hz.

Laminar Air Flow

Laminar Air Flow 4x2x2
(LAF-422)

Laminar Air Flow

Laminar Air Flow 2x2x2
(LAF-222)

Model	Size
VLAF-422	Vertical 4' x 2' x 2'
VLAF-222	Vertical 2' x 2' x 2'
HLAF-422	Horizontal 4' x 2' x 2'
HLAF-222	Horizontal 2' x 2' x 2'

Laminar Air Flow

Purification Rank	Class II
Rating Air Flow	90 CFM
Filtration Efficiency	99.97 %
Intensity of Illumination (LUX)	800 at workable
Power (W)	200 W
Noise db	<55
Power Supply	220 V
Fluorescent Lamp's space & quality	36 W
Material	Head: Steel with Powder coating
Glove Box	Acrylic

TECHNICAL SPECIFICATION

- Floor model, well-lighted, low vibration and noise, easy to maneuver due to castor wheel provision, with brake pedal.
- Constructed of SS-304/ GI sheet, which is termite & insect proof, fire & weather resistant covered with high quality & high pressure white laminated sheet from outside and painted with corrosion resistant & antifungal epoxy paint from inside.
- Cabinet : Stainless Steel sheet of 20 SWG lining.
- Front Panels: Removable transparent scratch resistant sheet of 6mm thickness.
- Side Panels: Fixed transparent scratch resistant sheet of 6mm thickness mounted with anodized aluminum angle.
- Front Door : Made of perplex sheet with anodized aluminum frames & lock, having arrangement to work with half open door.
- Work Table : Stainless Steel of 20 SWG lining.
- Pre-filters: 2 Pre-filters.
- HEPA filters: No. 1, Size–48"x24"x 6", confirms to class 100 levels of cleanliness as per U.S. Federal Standard 209B with filtration efficiency 99.9% removal of air born particles as contaminant.
- Motor Blower : Dynamically balanced & specially constructed to suit low noise and vibration with adjustable speed Motor (2x 1/6 HP).
- Air Velocity : Double filtered laminar flow air blowing through the worktable at a nominal controlled velocity of approx. 90ft/per minute.
- Lighting : Fluorescent tube of 4' length.
- Ultra Violet light source : Fitted with a suitable germicidal UV tube 3' length.
- Manometer : Provided with static pressure manometer accurately calibrated to assess static pressure in HEPA chamber.
- Line Voltage Corrector : Copper wound single phase automatic line voltage corrector.
- Quality Standard: Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008.
- Equipment compliant with Electrical safety specification of IEC 60601-1.

Bio Safety Cabinet

Bio Safety Cabinet 4x2x2
(BSCX-422)

Manometer & Switch

Pre-filter

Bio Safety Cabinet 2x2x2
(BSCX-222)

Model	Size
BSCX-422	4' x 2' x 2'
BSCX-222	2' x 2' x 2'

Bio Safety Cabinet

Special Features :

- Floor Model with Front Manual Door.
- Negative pressure having supply & exhaust via HEPA/ULPA Filter giving efficiency of 99.99% & 99.999%.
- Air Flow Speed 0.3 ± 10% m/s.
- Total exhausted air tunnel via ULPA exhaust filter.
- Supplied with UV light & fluorescent light of > 800 lux.
- Static Pressure Manometer: is used for monitoring the HEPA Filter.
- Exhaust system suitable for 6' duct. Exhaust ducting (Per running feel) : to through the contaminated air to the atmosphere. Exhaust ducting PVC PIPE with suitable fittings.
- Virus Burn out unit : Ensures destructions of pathogens present in air being exhaust from the cabinet. This further enhances protection of environment.
- UV disinfection, Gas burner (Extra) Cock for Gas, Air or Vacuum line.
- Sliding Sash: renders unit convertible for use as a conventional vertical laminar down flow clean air work station.
- HEPA Filter at Exhaust
- Particle Dust Count can be done at site after installation of above at an extra cost

Construction :

The Biological safety Cabinets are fabricated out of thick 16 SWG MS Sheet. Interior surface are epoxy painted for its longer life. The work table is made of Stainless Steel grade 304 (SS). Side panels are made out of thick transparent UV flexi glass duty framed & transparent front door, adjustable & removable made out of transparent acrylic sheet. The unit is fitted with pre-filter and HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.99% with cold DOP and 99.97% with hot DOP, airborne particles of size down to 0.3 micron.

Bio safety Cabinet is fabricated out of thick 20 SWG MS Sheet. Interior surface are epoxy painted. The work table is made of Stainless Steel. Side panels are made out of thick transparent plexi glass duly framed & transparent front door which is adjustable & removable. Using a dynamic balancing machine, the blower & motor assembly is statically and dynamically balanced. Motor of ¼ H.P. capacity operates with minimum noise level. The working area is illuminated by fluorescent lighting fitted to the unit. The height of the working table provides a comfortable "SIT DOWN" working position for the operator. In addition to the above features of a standard Vertical Laminar Flow Bench the Bio-Safe Cabinets have arrangement for re-circulating a part of the air thus creating highest level of clean air. The unit is also convertible to the conventional vertical laminar flow bench with downward air flow by lifting the sliding front door upwards. Air is sucked through the pre-filter and the excess air is thrown out from the top by means of a COMPUTER FAN fitted at the top of the unit and is let out through a HEPA filter of size 2' x 2' x 6". The unit is fitted with pre-filter and HEPA (High Efficiency Particular Air) filters having efficiency rating as high as 99.99% with cold DOP and 99.999% with hot DOP, air-borne particles of size down to 0.3 micron.

Dynamic balancing machine, the blower & motor assembly, motor of 1/4 HP. The working area illuminated by fluorescent lighting. Glove ports and Gauntlets are provided on the front door. Unit is fitted with built –in U.V. Germicidal light. To work on 220/230 volts A. C. Supply.

Working size	**2' x 2' x 2'**	**Size of HEPA Filter**	**2' x 2' x 6"**
No. of HEPA Filter	**2**	**No. of Pre Filter**	**2 Nos**
Illumination	**2x40W**	**UV Tube**	**2 Nos**

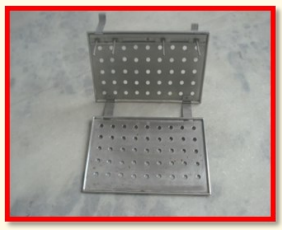
Parameter	Type A2	Type B2
Recirculation	70 %	0 %
Exhaust Air	30 %	100%
Inflow velocity	0.3 ±10% m/sec	0.45 ±10% m/sec

Cryo Bath

FRONT SIDE

BACK SIDE

SEPARATE BASKET



BASKET (OPEN)

CHAMBER

TECHNICAL SPECIFICATIONS

Model: CB-12

- **Capacity:** 12 Bags per run cycle
- **Purpose of equipment:** For uniform thawing of plasma bag at preset temperature of +4 °C.
- **Operating temperature:** 3.5 °C to 4.5 °C (Set temperature +4 °C.)
- **Size:** Inner chamber 400 (mm) x 340 (mm) x 350 (mm).
- **Construction:** The chamber is constructed in double wall. The interior of the chamber is made of Stainless Steel 22 gauge and the exterior is made out of Galvanized Corrosion resistant coating MS sheet with two coats of primer and 3 coats of DUCO paint with PUF insulation in between.
- The chamber provides with a full top opening double wall typed PUF insulated door.
- The door is fitted on the chamber by heavy-duty hinges and locking arrangement. Gasket on the door.
- **Tray:** Stainless steel , removable tray of individual compartments for holding plasma bags. Separate baskets assemblies with built in fingers for securely holding the plasma bags of all sizes.
- Mounted on lockable castor wheels
- **Time taken per cycle:** Less than 2 hours for plasma bag stored at -40 °C.
- High Capacity pump to facilitate optimum and uniform thawing of plasma.
- **Temperature Controller:** PID (Programmable) Microprocessor based digital temperature controller used for controlling of temperature at 4 °C ± 1°C and display resolution: 0.1°C. PT100 temperature sensing probe directly dipped into water.
- **Cooling Unit:** Hermetically sealed CFC free Compressor. Drain line with shut off connected in chamber.
- **Quality Standard:** Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008.
- Equipment compliant with Electrical safety specification of IEC 60601-1.
- **Power Supply:** 230 V ± 10% V, 8 Amp , 50 Hz Single Phase A.C. Supply.

Plasma Thawing Bath

Door closed mode

Door open mode

SEPARATE BASKET

BASKET (OPEN)

CHAMBER

TECHNICAL SPECIFICATIONS

Purpose of the Equipment:

- Plasma Thawing Bath is used for thawing of fresh frozen plasma (FFP) and Cryoprecipitate as per the therapeutic requirements.

Technical Specifications

- Temperature range: Ambient temperature to +60 °C with set temperature +37 °C.
- Table top with top opening. Interior chamber made of corrosion resistant stainless Steel (304, 1.2 mm thick).
- High density CFC Free Poly Urethane Foam insulated cabinet with corrosion resistant stainless steel interior and white powder coated exterior finish
- Deep thawing chamber with a agitator basket and inline heating system to ensure uniform thawing.
- Quick thawing within 20 minutes.
- Agitation of bucket 60-70 agitation per minutes.
- Drain line shut off valve.
- Separates baskets assemblies with built in fingers for securely holding the plasma bags of all sizes.
- Removable type stainless steel trays with partition of holding plasma bags.
- Microprocessor controlled digital temperature controller with programmable timer and audio visual alarm for high/ low temperature, and completion of thawing time.

Quality Standard

- Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008.
- Equipment compliant with Electrical safety specification of IEC 60601-1.

Power Supply

- Power supply : 220-240 Volts
- Voltage Requirements : 220-240VAC, 50 Hz
- Heating Power : 1250 Watts.
- Current Rating : 6 Amp Maximum.
- Protection Fuse: 8 Amp.

Serological Water Bath

TECHNICAL SPECIFICATION

- **Model: SWB-8**
- Capacity : 8 Bags.
- Size : 10” x 12” x 8”
- Construction: The chamber is constructed in double wall. The interior of the chamber is made of Stainless Steel and the exterior is made out of GPPS MS sheet with two coats of primer and 3 coats of DUCO paint with puff insulation in between.
- Temperature Controller : PID (Programmable) Microprocessor Based Digital Temperature Controller cum Indicator used for controlling +56 °C ± 1 °C, Accuracy: 0.1 °C.
- Control panel: Controls to compromise fully automatic Digital Temperature Indicator cum PID (Program.) . Microprocessor Based Temperature Controller with PT – 100 Sensor, etc.
- Inspection Lamp : One low watt bulb for internal inspection automatically / manually operated.

SPECIAL FEATURES

- Top cover SS, Slot for thermometer. Chamber also made of SS.
- Visual display of temperature, adjustable temperature.
- Optional-thermostatic temp controller.
- Stirrer for uniform temp in chamber precisely.
- Thaws standard size plasma as well as cryoprecipitate.
- Individual time setting for each bag location.
- Forced water circulation with gentle rocking motion.
- Simple to operate - easy to read LED display.
- Light weight - easy to carry.
- Audio completion signal.
- Complies with AABB standards for plasma thawing.
- Double walled outer body of mild steel power coated.
- Manufacturing unit compliant with ISO 13485:2003, ISO 9001 9001:2008.
- Equipment compliant with Electrical safety specification of IEC 60601-1.

Power Supply: 230 Volts, 50HZ, Single Phase A.C. Supply

Mortuary Chamber

Mortuary Chamber - 2 Bodies (MCR-2)

Mortuary Chamber - 4 Bodies (MCR-4)

Mortuary Chamber - 6 Bodies (MCR-6)

Model	Capacity
MCR-2	Mortuary Chamber -2 Bodies
MCR-4	Mortuary Chamber - 4 Bodies
MCR-6	Mortuary Chamber- 6 Bodies

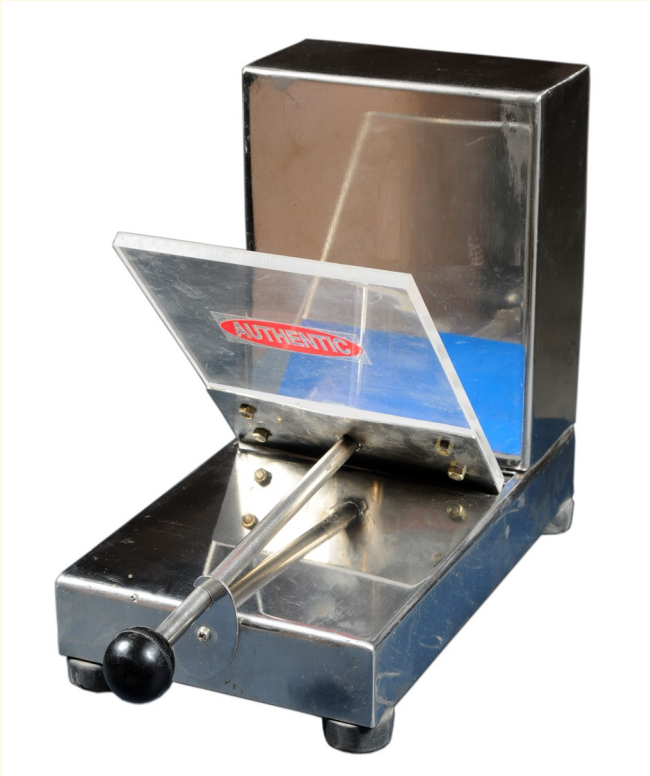
Mortuary Chamber

TECHNICAL SPECIFICATION

Capacity	2 Body, 4 Body, 6 Body.
Construction	Mortuary chambers are of double walled construction and Inner wall and Outer wall made of SS304 grades corrosion resistant stainless steel
Insulation	For insulation high pressure-injected polyurethane is used for minimizing thermal loss and meeting the particular requirements of refrigeration in mortuaries. Insulation thickness 60 mm.
Door	Doors are made of painted stainless steel and fitted with external lock for security. These doors are situated in front and allows easy loading of trolleys. These doors feature lining in odorless rubber gasket and anti-condensation resistors. Door Buzzer Alarms
Trolley/Racs	Removable Racks Made of Stainless Steel
Temperature Range & Control	-2°C to 6°C , For accurate measurement and display of temperature a LED or LCD display is used. These units are equipped with microprocessor based digital control panel which is operated with push buttons. For security and safe working high and low temperature alarm system is used with weekly circular chart recorder
Data Logger and Temperature Chart Recorder etc	Three weeks independent, Paperless & Inkless weekly circular temperature Chart recorder ,
Defrosting	Auto Defrosting
Evaporator	Internal Type Forced Draught
Internal Drainage	Should Be There
Refrigeration System	**Refrigeration system** is energy efficient, environment friendly, completely airtight and can be roof top or wall mounted and Should Be Energy Efficient. Air Cooled Hermetically Sealed compressor, and it is controlled by an automatic electronic solid state digital temp. Controller. Noise less compressor and air cooled condenser, R134a or R404 refrigerants
Compressor	HCFC, CFC free
Air Circulation	Forced Air Circulation
Alarm	High / Low / Door Open
Internal Lighting	Lighting system comes with waterproof fluorescent ceiling lamps which are fitted with a switch on the control panel.
Locking System	Standard Key Lock
Power Supply	220 Volts / 50 HZ.
Accessories	Caters, Stabilizer, Loading Trolley,

Plasma Expresser (Manual)

Model	**:**	**PEM (Manual)**
Inner & Outer Body	:	Made of Stainless Steel
Handle	:	Stainless steel
Operation	:	User friendly & Manual



Model	**:**	**PEMS (Manual)**
Inner & Outer Body	:	Made of Stainless Steel and pre painted
Handle	:	Stainless steel
Operation	:	User friendly & Manual Operating

Hot Air Oven

Door close mode

Door open mode

Door lock

Model: HOA-18”

TECHNICAL SPECIFICATION

- **Construction:** The chamber is constructed in double wall. The interior of the chamber is made of Aluminum with two coats of primer and 3 coats of DUCO paint with PUF insulation in between. The door is fitted on the chamber by heavy-duty hinges and locking arrangement. Gaskets on the door.
- **Internal Size:** 18” x 18” x 18”
- **Temperature Controller:** Thermostatic Temperature Controller used for controlling ambient to 80 ^{o}C ± 1 ^{o}C, 50 ^{o}C to 220 ^{o}C ± 2 ^{o}C. Visual temperature display.
- **Control Panel:** Controls to compromise thermostatic with PT-100 sensor etc.
- **Inspection lamp:** One low watt bulb for internal inspection automatically / manually operated.
- **Shelves:** 3 Nos.
- **Fan** : Fan for proper temperature, maintaining.
- **Power Supply:** 240 Volts, 50 Hz, 150 W Single phase A.C. Supply.

Incubator– 14”

Door close mode

Door open mode

Control Panel

Model : ICB-14”

TECHNICAL SPECIFICATION

- Vertical Upright type.
- **Construction:** The Chamber is constructed Triple walled. The interior of the chamber is made of Stainless Steel and the exterior is made out of Stainless Steel or G CRCA MS Sheet with two coats of primer and 3 coats of DUCO paint with Mineral Wool insulation in between. The chamber is provided with a full front opening door, which is double wall typed with transparent full view glass door. The door is fitted on the chamber by heavy duty hinges and locking arrangement. Gasket on the door. Synthetic rubber gasket at door and door opening angle limited to 90^{o} to 110^{o}.
- **Insulation :** Three side mineral wool insulation for better power saving purpose.
- **Shelves:** 3 to 4 perforated shelves.
- **Heating Elements:** Nichrome heating Wire, Porcelain beads and placed three sides in the chamber for uniform temperature.
- **Internal Size:** 14” x 14” x 14” (Approx 44 liter).
- **Temperature Controller:** Microprocessor digital temperature controller, with Visual temperature display.
- **Operating temperature range:** 5 ^{o}C to 60 ^{o}C ± 0.5 ^{o}C. **Relative humidity:** ambient to 95% at 37 ^{o}C
- **Control Panel:** Controls to compromise thermostatic with PT-100 sensor etc.
- **Timer :** 1 to 60 minutes (Digital adjustable).
- **Inspection lamp:** One low watt bulb for internal inspection automatically / manually operated.
- **Fan** : 2 Nos. of Air circulating fan for uniformity of temperature.
- **Cooling unit:** Emerson hermetically sealed CFC free compressor.
- Built in thermostatic voltage stabilizer, UV lamp 1.5 ft with complete accessories.
- **Power Supply:** 240 Volts, 50 Hz, 150 W Single phase A.C. Supply.

BOD Incubator

Door close mode

Door open mode

Pre-Filter

Control Panel

MODEL	BOD-4 cft	BOD-6 cft	BOD-10 cft	BOD-20 cft
Capacity	4 cft	6 cft	10 cft	20 cft
Internal Size in cm	48 x 48 x 50	50 x 56 x 60	55 x 55 x 90	70 x 75 x 110

TECHNICAL SPECIFICATION

- Vertical Upright type.
- **Operating temperature range:** 5 °C to 70 °C ± 0.5 °C. **Relative humidity:** ambient to 95% at 37 °C
- **Construction:** The Chamber is constructed Triple walled. The interior of the chamber is made of Stainless Steel SS304 and the exterior is made out of Stainless Steel or G CRCA MS Sheet with powder coated with mineral Wool insulation in between. The chamber is provided with a full front opening door, which is double wall typed with transparent full view glass door. The door is fitted on the chamber by heavy duty hinges and locking arrangement.
- Magnetic gasket on the door. Synthetic rubber gasket at door and door opening angle limited to 90° to 110°.
- **Insulation :** Three side mineral wool insulation for better power saving purpose.
- **Shelves:** 3 to 5 perforated shelves according to size .
- **Heating Elements:** Nichrome heating Wire, Porcelain beads and placed three sides in the chamber for uniform temperature.
- **Temperature Controller:** Microprocessor digital temperature controller with setting accuracy of ±0.5 °C, with Visual temperature display.
- **Control Panel:** Controls to compromise thermostatic with PT-100 sensor etc.
- **Timer :** 1 to 60 minutes (Digital adjustable).
- **Inspection lamp:** One low watt bulb for internal inspection automatically / manually operated.
- **Air Circulation:** Motorized blower from back for forced air circulation for temperature homogenity.
- **Cooling unit:** Emerson hermetically sealed CFC free compressor.
- Built in thermostatic voltage stabilizer, UV lamp 1.5 ft with complete accessories.
- **Power Supply:** 240 Volts, 50 Hz, 150 W Single phase A.C. Supply.

Dry Bath (Heating Block)

TECHNICAL SPECIFICATION

Model : DBI

- Temperature range: 1 °C to 60 °C.
- Heating Block: 24 holes of 12.7 mm diameter.
- Timer: 1 to 60 minutes (Digital adjustable)
- Double walled with stainless steel inner chamber having a minimum of two inner stainless steel shelves with holes and powder coated outer surface
- PID Digital temperature indicator & Controller.
- Temperature setting accuracy 0.1 °C.
- Manufacturing unit compliant with ISO 13485:2003, ISO 9001:2008 .
- Equipment compliant with Electrical Safety specification of IEC 60601-1.
- **Power Supply:** 240 Volts, 50 Hz, 150 W Single phase A.C. Supply.

R_H View Box

Model : R_H-2X

SPECICAL FEATURES

- Suitable for slide viewing.
- Glare free light from lower cabinet for ease of viewing the slides.
- Viewing Box to be mounted on a cradle for rotation with sturdy knob.
- Warming slides for Gram's stain.
- Rh determinations.
- Tissue typing.

TECHNICAL SPECIFICATION

- **Construction:** Body made with Stainless steel SS304 duly powder coated. Upper side is covering with Imported Scratch-less Acrylic Sheet .
- **Temperature range:** 35 ^oC to 40 ^oC at an ambient temperature of 20 ^oC.
- **Size:** 600 mm x 150 mm.
- **Light:** 2 Nos. of tube light (1.5 ft length).
- **Control Panel**: ON/OFF Switch.
- **Power Supply:** 240 Volts, 50 Hz, 150 W Single phase A.C. Supply.

Needle Destroyer

Needle Destroyer

Tray

Model : ND-S

TECHNICAL SPECIFICATIONS

- Type of Electrode : Copper Electrode -Nickel plated.
- Two slot easy operation for destroying Needle & Syringe.
- Needle burns electrically and syringe cuts manually.
- Cuts the syringe within seconds.
- Low power consumption
- Can destroyer disposable syringe & needle 18G to 28G
- Collection receptacle to collect the waste
- Provision of On/Off switch with pilot lamp
- Shock proof-Main circuit breaker is provided
- Portable, compact, handy
- High quality plastic material used for better finish
- Control Panel: ON/OFF Switch.

VDRL Shaker

Model : VDRL

TECHNICAL SPECIFICATIONS

- Body made out of Mild steel finished with powder coating.
- Heavy duty motors for suitable capacities are provided for long time, continuous operation.
- Fixed Speed and Variable speed models are offered.
- Platform is provided with lotus type clamps or rubber discs to hold flasks.
- RPM range - up to 250 RPM.
- Timer: 0-60 Minute.
- Manufacturing unit compliant with ISO 13485:2003, ISO 9001:2008.
- Equipment compliant with Electrical Safety specification of IEC 60601-1.
- Power Supply: 240 Volts, 50 Hz, Single phase A.C. Supply.

Tube Stripper

TECHNICAL SPECIFICATIONS

- Donor tube Stripper is a mechanical device which helps in adequate mixing of whole blood with anticoagulant in the blood bag tubing so that blood in the tubing is the correct representative sample for testing .
- Made of stainless steel material with anti-corrosive coating