BiolineIndia

Manufacturers of Medical Equipments
An ISO-CE-NSIC-IEC Certified company

Company Profile

Bioline India an ISO 9001:2015, ISO 13485 Certified Company Offering A Highly Affordable Range of Blood Bank Equipments...

With a mission to reach the masses by developing medical equipments indigenously, strengthened with a single mind pursuit to market good quality equipments in very affordable prices, our mentor Mr. Rajeev Goel shaped our humble beginning in the year 1998. His efforts & dedication paved way for the birth of BiolineIndia. We are one of the most reputed entities working as a exporter, manufacturer, supplier and trader of a broad spectrum of Blood Bank Equipments.

Bioline India has the feather on his cap as the first manufacturer in India to develop Blood Bag Tube Sealer in 2001. Today, we pride in being the only firm which is making extensive series of Blood Bag Tube Sealers in India.

Owing to our qualitative range of products, we have bagged the coveted NSIC certification. All the products offered by our organization are manufactured using top notch quality raw material, components using best in the class machinery. Our infrastructure facility is well equipped with modern machinery for automating diverse tasks. Also, we have priced our products conveniently for our customers.

[BROCHURE]

At **Rioline India**, we are committed to building an extensive ethical business culture and set an example for the same. Honesty and integrity form a building ground for approach to an ethical and international business culture. We set high standards for our clientele and aim to meet them persistently. We are committed to achieving sustainable growth to the benefit of our clients by providing a comprehensive range of high quality products to the communities where we operate.

Rioline India is a company that have its mission statement, philosophy, and code of ethics to all of its business practices. Mission Statement We are committed to achieve sustainable growth to the benefit of our clients by providing a comprehensive range of high quality products to the communities where we operate and by fostering mutually beneficial relationships with all our customers.

- ✓ We put our Customers first and strive to secure their loyalty through top quality service.
- ✓ We value our Employees and seek to help them achieve their full potential.
- ✓ We embrace Professionalism and seek Excellence in everything we do.
- ✓ We do our best to help our Communities be better places in which to live, work and grow.

Our Quality Policy

Biolineindia is committed to manufacturing cutting edge products of an extremely high quality to our existing and growing customer base in an accurate and timely manner.

We satisfy all customer and ISO 9001:2015 requirements and continually improve our processes to enhance customer satisfaction and loyalty.

* ISO 9001: 2015, ISO 13485: 2016, NSIC & CE Certifications

Our persistent efforts and unwavering attention to quality has helped us bagging in prestigious ISO 9001: 2015 certification with ICS, accredited by joint accreditation System of Australia & New Zealand and NSIC Certification.

✓ Timely Deliveries :-

Our wide distribution network and alliances with leading logistics firms allows us to deliver products in a punctual manner within the desired time duration.

✓ Economical Price :-

We provide highest quality products to our customers at optimal prices. Thereby assuring that the quality is the first priority for us.

Our Amazing Team:-

Bioline India is comprised of passionate and experienced experts who amplify cutting edge technology for the team. We respect the efforts of all the people associated with us and have helped us in attaining this respected and reputable position in the industry. We owe special thanks to Mr. Rajeev Goel, our founder, Mrs. Neeta Goel, our CEO and Mr. Yashpal Goel who is our CTO.

Over the years, we have achieved many milestones to emerge as a successful business entity, not by following the status quo, but by taking our own path and making our own history. Today, we continue to grow and evolve our client offerings.

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Blood Bag Tube Sealer

BBS2015, BBS 2015 B & BBS2015 H

♣ Blood Bag Tube Sealer Model No : BBS 2015

The unit is heavy duty & based on RF 40.63 MHz Di-Electric heating without damaging the blood cells.



Input Voltage 115/230 V, 50/60 Hz

Blood Bag Tube Sealer seals tube of 4-6 mm diameter. Sealing is with in 1.5 second / tube. Indication sealing.

Sealer based on RF dielectric heating which gives unique sealing finish and RF signal is applied only after the tube is fully squeezed.

Blood Bag Tube Sealer : Battery Back Up Table TopModel No : BBS 2015 B

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. Sealing with in 1.5 second / tube. Indication sealing.

Sealer based on RF dielectric heating which gives unique sealing finish and RF signal is applied only after the tube is fully squeezed.

Stand wide input voltage fluctuation.

♣ Portable Blood Bag Tube Sealer: Hand Held Unit Battery Back up for More than 1000 seal Model No : BBS 2015 H

Bioline India Blood Bag Tube Sealer heavy duty and be able to seal the blood bag etc quickly and effectively.



- > simple to handle.
- Gently for seal the tubing with no hemolysis using radio frequency.
- Capable of making wide seal of 2 mm thickness
- Sealer runs on both mains and battery (more than 10hrs back up and charger).
- > 1000 seal per fully charge battery
- > sealing trigger automatic
- Portable hand unit sealing hand with RF cable 1.9 meter.
- ➤ Indication lamps for "Sealing Process" on handle as well as main unit
- No warm up time required.
- Easy separation of tube segments after the sealing.
- Electrodes are protected by a cover.
- > Sealing time adjustable from 0.5 seconds
- Sealer runs on both mains and battery (more than 10hrs back up and charger). Back up battery and seal more than 1000 seals on PVC-tubes in continuous mode with fully charge battery.
- > Suitable auto voltage corrector with spike protector available.

Next Generation Portable Blood Bag Tube Sealer:

Model No : Bio Seal H+

BiolineIndia Blood Bag Tube Sealer Model No. Bio Seal H+ is a battery operated sealing unit for PVC tubes, especially for blood bag tubes or plasmapheresis sets. With new and fully loaded batteries it can make more than 1000 seals on





PVC tubes. The high capacity makes it suitable to use Bio Sea; H+ both in donation centers, preparation centers and in mobil application.

Bio Seal H+ comprises three Units:-

- Power unit with batteries ,RF generator and controlled unit monitor by microprocessor
- > Seagling Handle with Coaxial cable of length 1.9 M
- Battery Charger

Salient features:

- Lightweight, portable and heavy duty.
- Di-Electric heating without damaging the blood cells.
- Modern electronic system.
- Handgun ensures easy sealing process by just pressing the lever.
- Extended sealing handgun with compatible RF Cable for extended use.
- Anti spark and overheat protection system to avoid damage to tubing.
- Audio Visual indication for
 - > Ready to seal
 - Seal Process
 - Power Supply
- Easy to remove sealing head cap (splash guard) for quick cleaning.
- Seal with clear break line for snap apart separation consistent seal quality.

- Sealer runs on both mains and batteru (more than 10 hrs backup and charger.
- High performance rechargeable battery ensures a capacity for more than 1000 seals with single charge.
- No warm up time required.
- Easy separation of tube segments after the sealing.
- Electrodes are protected by a cover.
- Sealing time adjustable from 0.5 seconds
- Back up battery and seal more than 1000 seals on PVC-tubes in continuous mode with fully charge battery.
- Suitable auto voltage corrector with spike protector available.

TECHNICAL SPECIFICATIONS:-

- Novel
Bio Seal H+
270X115X112
2.2 Kg including battery
40.68 MHZ
2x12 V 2 Ah
Overload Protection
120 W Max. Effect
Adjustable 0.5 -3 Sec
90W/ 50 Ohm Max.
4 hr
1000 seals (with auto adjustable seal time)
Automatic by pressing the button
Class 1 (93/42 and 47/2007 MDD)
150-240 V, 50Hz
E 60601-1 3rd edition of electric safety
for medical equipment
Protection Against electric Shock



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Blood Collection Monitor

Bio 20 Plus & Bio 20 Plus B

♣ Blood Collection Monitor Model No : Bio 20 Plus

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

Input Power 1-Ø AC 230 V,50 Hz



Salient Features :-

- 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.
- Having gentle mixing i.e. continuous agitation 12-20 cycle/min.
- Complete indication and audio alarm at the end of collection.

- 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.

Audio Visual Alarm is provided for Completion of volume, high low flow of blood and preset time completion.

Display on LCD

1. Start 2. Process 3. Complete 4. Pause 5. Manu display (350ml, 450ml, calibration buzzer on off)

★ Blood Collection Monitor Model No : Bio 20 PlusB

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

Input Power 1-Ø 150V-240AC Hz

Salient Features :-

- ♦ 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.



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- ♣ 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 ±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.

Audio Visual Alarm is provided for Completion of volume, high low flow of blood and preset time completion.

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.

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<u>Plasma Expresser</u>

BPE2008, BEPE 2008 E &

♣ Plasma Expresser (Manual) Model No : BPE 2008

The unit is controlled manually & having acrylic pressure plate for separation of components. Hinge is made up of S.S 304 to avoid corrosion.



Automatic Plasma Expresser Model No : BEPE 2008E

Bioline Electronic Plasma Expresser is an electromechanical device that enables easy separation of blood components. It is semiautomatic equipment to separate blood into red cells and plasma.

Manual Plasma Expresser, are simple devices that have mechanical structures only. Those conventional plasma separators request operators close watch all the time to stop the blood flow. This electronic plasma Expresser is equipped with an opto –sensor and a tube clamp. Watching blood components flowing in tubing, the device closes tubes clamp immediately when the opto – sensor senses red cells passing. The electronic plasma expresser Model BEPE 2008E is having interface with compo scale (optional).

Special Features:

- **↓** Sensor Type –Infra –Red beam interruption sensor.
- ← Clamping Power source, Geared Motor.
- White Power coated mild steel cabinet with stand corrosion, wear & tear on continues usage.
- Compression Plate designed to exert uniform pressure on the blood bag.

Blood Component Extractor Model No: BIO 20^{EX}

Bioline Blood Component Extractor Bio20^{EX} is Indent to make easy Blood component separation in any manner. Blood component extractor Bio20^{EX} is suitable both for automatic routine procedures and manual operations, giving a wide and safe component separation and the operator can easily pull the bag set apart.



Blood Component Extractor:

Blood component extractor Bio20EX is the new generation of manual plasma extractor providing the manual controlled separation of erythrocytes (RBC), Buffy-coat (BC), platelet poor plasma (PPP) or platelet rich plasma (PRP) and platelet concentrates.

Special Features:

- ♣ Specially design Hook to hang the different size Blood Bag during separation.
- **↓** Intelligent Separator to maintain the accuracy of separation.
- **↓** Calibrator

Specifications:

- **↓** Dimension(L x W x H): 240x180x290
- ♣ Weight: 3kg

- ♣ Powerful spring
- Frame and construction in powder coated mild steel.

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Blood Bag Tube Stripper

MTS 20 & ATS 2015

BiolineInida Manual Tube Stripper Model No : MTS 20

Bioline India tube stripper (Manual) is Manual tube stripper to strip tubing in preparation of blood segments, Teflon rollers with reinforced pins, Machined aluminum, Non-tiring, operation, Easy handling and cleaning, Net weight of approx. 70-100gms. can be used for various size of blood tube.



Automatic Tube Stripper Battery Backup Model No : ATS 2015

Automatic blood bag tube Stripper is directly operated on 12V Li-Ion Battery Operated Quick & Easy handling.

- Swift & complete stripping of blood bag tubes.
- Donor Tube Stripper used to facilitate anticoagulation of blood in donor bag, Tubing prior to preparing segments.
- Eliminates of Blood and is automatic Bioline Tube Stripper compatible with all international tube strippers.
- > Stainless steel and corrosion free.
- Power :- 23V 50 Hz



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Blood Compo Scale

Compo 20 Plus

Hodel No : Compo 20 Plus

The Bioline Micro controller based Blood Compo Scale is designed for weighing Blood and Components. It can accurately measure the volume of Blood Components as the specific gravity of all components is taken into consideration.



<u>Calibration</u>: The equipment is calibrated with the help of master Calibrator, which is certified for its accuracy by Electronic Regional Testing Laboratory (ERTL West) Government of India recognized testing laboratory with traceable reference to National Physical Laboratories (NPL).

Special Features:

- ♦ Display on Graphics LCD while measuring Components Volume/weight.
 - Set Volume of component.
 - Process value of component in ml.
 - Process value of component in gm.
- ♦ Display on Graphics LCD while the seating the volume of Blood Component.
 - Plasma, Platelet, Blood, RBC &WBC.
 - Set Volume of each component.
- ♦ Easy conversion of Weight & volume.
- ★ Tare provision to account the weight of Blood Bag.
- ♦ Display volume and weight of Blood Components –Plasma, Platelet, Blood, RBC & WBC.
- ♦ Continues display of selected component by LED.

Additional Features :-

- → Bioline Blood Compo Scale with built in interface to integrate an Electronic Plasma

 Expresser-Model No. BPE-2008E
- ♦ Motor activated clamping at the end of the process, mounted in Electronic Plasma Expresser.
- ♦ Audio-visual alarm at the end of process

R.H. View Box

BRHVB-12

★ BiolineIndia R.H. View Box Model No : BRHVB – 12

Bioline India RH View Box, meets the Rh slide test standards set by the American Association of Blood Banks. Rh slide attains prescribed temperature, from 37° to 39°C, within two minutes. The view-area calibration range is from 45° to 50°C. The Temperature is adjusted by a knob and measured on digital temperature meter accurately. The Built-in temperature Controller is provided. The soft, glare-free light provides



optimal intensity for blood typing and cross matching. Light intensity is independent of the temperature control. The M.S powder Coated Box is pivotally supported in frame for gently rocking.

Specification:

- → Built in temperature indicator for easy accurate monitoring of viewing area.
- ♦ Viewing area temperature adjusts easily to compensate for ambient temperature changes (Range:45°C to 50°C).
- ♦ Rh slide reaches temperature of 37 °C to 39 °C in two minutes, eliminating wasted hear up time.
- ♦ Soft, fluorescent, glare free light provides uniform illumination of slide contents
- ♦ View box can be gently rocked using large knob on Support Cradle.
- ♦ Sturdy, easy –to-clean Metallic powder Compact case. Utilizes minimal bench space.
- ♦ Meets Rh slide test standards set by the AABB
- ♦ Unit conveniently includes three wire cord and plug.

Portable Donor Chair & Automatic Blood Donor Couch

PDC - 2015 & BIDC

♣ Portable Donor Chair Model No : PDC – 2015

Portable donor Coach is specially designed for Blood Donation Camps and provide a comfortable position for the donor and features variable positioning for either arms as well as and upright body position



Specification:

- ♦ Light weight & foldable.
- ♦ High grad stainless steel frame.
- ♦ Easy to move and operate.
- ♦ Easy to maintain & clean.

♣ <u>Automatic Blood Donor Couch</u> Model No : BIDC

The unit is based on haemo dynamic principles having heavy duty geared Motor attached with Blood Collection Monitor Stand. Tilt adjustment can be done by remote control. Input Power 1-Ø AC 230 V,50 Hz



- ♦ Facility for blood collection from both sides.
- ♦ Provides a comfortable position for the donor.
- ♦ Variable positioning for either arm with a Comfortably wide arm-rests
- → Tilt adjustment can be done by using remote control.
- ♦ Comfortable chair type with soft padding for cushioning and rexin cover.
- Two Geared Actuator Ensuring safety and comfort to the donor 4 Heavy Duty Lockable castors for easy mobility.
- ♦ Based on hemodynamic principles. (Donor's head can be lowered immediately and legs can be lifted above heart level so that blood can flow back to the brain and other vital organs, in case of vasovagal attack).

Elisa Plate Reader & Elisa Plate Washer

EPR:2012 & BW:2012

♣ Elisa Plate Reader Model No : EPR :2012

- → Advanced optical system, ensure accurate result and good repeatability.
- ♦ 8 channel optical fiber systems enable 5 secs' reading for 96 well plates.
- → Bichromatic measurement, multi-calculation methods include ABS, Cut-off, Linearity and Log.
- ♦ Easily programmable and operate through PC software or keyboard
- ♦ Ability to communicate with PC, free PC operating software
- → Plate shaking feature : 405nm, 450nm, 492nm, 630nm, 4 free positions
- To carry out ideal operation and data management for Elisa test, we provide an intelligent PC software for SPR-960 Working base on Windows system
- ♦ Control machine, test programming, calculating results and indicating reagent recession curve.
- → Multi-calculation methods on board: linearity, LogX, logY, logXY, Parabola regression, Polynomial regression, 4PL Regression.
- ♦ A complete data administration system for: micro-plate, reagent, patient, laboratory and results.

Sr.No.	Parameter Parameter	EPR 2012
1.	Reading Speed	Halogen lamp 8V/50W
2.	Filters	405nm, 450nm, 492nm, 630nm, 4 open positions
3.	Photometric Range	0.000-4.000Abs
4.	Photometric Accuracy	±1%(0.000-2.000Abs)
5.	Applicable programs	28 except of PC
6.	Wavelength Range	340~750nm
7.	Measure Mode	Monochromatic, Bichromatic
8.	Display	240*128LCD
9.	Interface	RS232, parallel interface for external printer
10.	Output	External printer (optional)
11.	Power supply	AC220V/110V±10%,50/60Hz



Lisa Plate Washer

Model No : BW :2012

We are instrumental in offering premium quality Elisa Plate Washer to our esteemed customers. Their large LCD display, string washing function, self calibration and large memory make these washers highly demanded in various hospitals and research labs. Furthermore, these washers are easy to operate and maintain.



Salient Features:

- → Large LCD Display, intelligent software, easy to operate.
- ♦ Strong washing function, bottom washing and two position aspiration make completed washing effect.
- ♦ 8 channel or 12 channel optional.
- ♦ Needle position adjustable and up to 10 different needle position pre settable pressure, volume & time adjustable, washing times, whole plate or single strip reading.
- ♦ Needle position adjustable and up to 10 different needle position pre settable 5 position of needles are adjustable, fit for multi kind of plates.
- ♦ Self calibration and trouble alarm function.
- ♦ Large memory store up to 100 programs.
- ♦ Continuous aspiration to prevent overflow.

Sr.No.	Parameter	BW 2012	
1.	Plate	48/96 well and trips (U,V, Flat bottom)	
2.	Residual Volume	<2ul	
3.	Dispensing volume	Adj <mark>ustable fro</mark> m 50 to 900 ul	
4.	Wash cycles	1-16 optional	
5.	Mode of wash	From 1 to 2, row and rank, selectable	
6.	Soak time Up to 990 seconds adjustable		
7.	Display	Large LCD	
8.	Channel	3 channels for washing liquid, 1 channel for waste liquid	
9.	Memory	up to 100 programs can be stored	
10.	Interface	RS232	
- 11.	Power Supply	AC220V+10%, 50/60Hz; AC110V+10%, 50/60Hz	
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Centrifuge Bucket Corrector

CBC 20⁺

BiolineIndia Centrifuge Bucket Corrector/ Double Pan Balance

Model No : CBC 20⁺

BiolineIndia Centrifuge Bucket Corrector is specially designed electronic differential balance for balancing the centrifuge bucket with blood bag. It measures weight of two buckets with blood bags simultaneously and display weight difference.



Salient Features:

- ♦ Accurate simple and easy to use.
- ♦ Has two independent weight sensors, which display individual weight of each bucket with high degree of accuracy.
- → Capacity of weighing max weight of 2500 gms.
- ♦ Indicate the weight of each pan separately (A & B)
- → Has a LCD display.
- ♦ Display of Difference of weight of two buckets which can be adjustable also
- ♦ Audio buzzer and LCD Display when both the buckets are balanced.
- → Has a visual indication of overweight (> 2500 gms) (WTOR)
- ♦ Leveling screw for balancing the equipment.
- ♦ Self Calibration mode.
- ♦ Inbuilt replaceable fuse for extra safety of the equipment.
- ightharpoonup Power 220 240 V AC Supply.

Sr.No.	Parameter	CBC 20 ⁺
1.	Oscillation Frequency	40.68 MHZ
2.	Input Voltage	115/230 V, 50/60 Hz
3.	Ref Standard	E 60601-1 for electric safety, E 60601-1-2 for EMC
4.	Power Consumption	100 VA
5.	Effect Consumption	100 W maximum effect while is sold business.

Blood Bank Refrigerator

BBR - 100, BBR - 200 & BBR - 300

BiolineIndia Blood Bank Refrigerator

Model No : BBR

BiolineIndia Refrigerator is specially designed incorporating aesthetic design and latest technologies for Blood Bank applications this refrigerators are available in various models to suite storage requirements. For temperature uniformity to maintain a vital operational temperature of 4°C. The microcontroller based LCD graphic display ensures crystal clear and accurate temperature values from long distance. The transparent inner Acrylic door provides clear viewing of material kept in the chamber.

Salient Features:

- ♦ Micro controller based graphic LCD Display.
- ♦ CFC Free refrigerant and high density PUF insulation.
- ♦ Audio visual alarm when the temperature deviates.
- ♦ Built in 7 days chart recorder.
- ♦ Motors with impeller for temperature uniformity in chamber.
- ♦ LED lamp for chamber inside visibility.
- → Perforated Stainless Steel heavy duty baskets.
- ♦ Heavy duty castor wheels for easy mobility.
- ♦ Door open alarm.
- ♦ Password protected control panel.

Model No.	BBR 100	BBR 200	BBR 300
Temperature	4°C	4°C	4°C
Accuracy	±0.5°C	±0.5°C	±0.5°C
Storing capacity of Blood Bags apx. (ml)	65x350 ml 46x450 ml	175x350 ml 141x450 ml	206x350 ml 175x450 ml
No. of Baskets	3	4	4
Power Supply	230 VAC 50Hz	230 VAC 50Hz	230 VAC 50Hz
Tray & Chamber MDC	SS – 304	SS – 304	SS – 304
No. of chamber Blower	1 Axil Fan	2 Axil Fan	2 Axil Fan



Plasma Freezer -40° C & Ultra Low Deep Freezer -80° C

DF-40°C & DF-80°C

↓ Plasma Freezer -40°C Model No : DF-40°C

BiolineIndia Deep Freezer is constructed in double wall. The interior of the chamber is made of SS 304 and the exterior is made of MS with powder coated. And elegant looks with PUFF insulation is between. The door is fitted on the chamber by heavy duty hings, Locking arrangement and gasket on the door. The unit having heavy duty lockable castor wheels for easy mobility.

Insulation: Approx 80 mm high density PUF with double seal silicon. Inner door provided of SS PUF insulated for better sealing & proper temperature maintain.

Condensing Unit: Heavy duty refrigeration system maintenance free up to -40° C cascaded connection with hermetically sealed refrigeration single compressor and reliable cascaded refrigeration to mimise noise and vibration. It should have short cooling time of 2 hours at maximum ambient temperature of 33° C.



Control Panel: Control panel temp. from 0° C to -40° C maintain through programmable Microprocessor (PID) based digital temperature controller cum indicator and audio / visual alarm system. Complete electronic circuit with safety features. Having commands to SET temperature (min. & max.) on/off alarm system.

Power Supply: 220V- 240V, 50 Hz, Single Phase

Ultra low Deep Freezer -80°CModel No : DF-80°C

BiolineIndia Deep Freezer is constructed in double wall. The interior of the chamber is made of SS 304 and the exterior is made of MS with powder coated. And elegant looks with PUFF insulation is between. The door is fitted on the chamber by heavy duty hings, Locking arrangement and gasket on the door. The unit having heavy duty lockable castor wheels for easy mobility.

Insulation: Approx 17.5 cm high density PUF with double seal silicon. Inner door provided of SS PUF insulated for better sealing & proper temperature maintain.

Condensing Unit: Heavy duty refrigeration system maintenance free up to -80° C cascaded connection with hermetically sealed refrigeration single compressor and reliable cascaded refrigeration to mimise noise and vibration. It should have short cooling time of 2 to 3 hours at maximum ambient temperature of 33° C.



Control Panel: Working temp. from -50° C to -80° C maintain through programmable Microprocessor (PID) based digital temperature controller cum indicator and audio / visual alarm system. Complete electronic circuit with safety features. Having commands to SET temperature (min. & max.) on/off alarm system.

Power Supply: 220V- 240V, 50 Hz, Single Phase

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Blood Bank Refrigerated Centrifuge

BBRC

BiolineIndia Refrigerated Centrifuge Machine Model No: BBRC

Latest Feature: With Rotor head (6 & 8 blood bags) + Latest Panel with color Touch Screen, + Fully Auto PLC Controlled, Auto Safety Lock on Running

<u>Construction</u>: BiolineIndia Refrigerated Centrifuge is constructed with MS with powder coated. Inner chamber is made up of SS 304 easy to clean. Unit having heavy duty movable wheels.

<u>Capacity</u>: Rotor Head 6 metal buckets for 6 Blood Bags (each standard 450 ml. Working Capacity: 4200 RPM and Maximum Capacity: 5000 RPM



Panel Features: Fully Automatic PLC Based Programmable memory with soft color touch screen. 0-99 minutes with minimum revolution of 1 minute. Soft key operation fully programmable. The unit is suitable for operation from 0 to 35°C at 90 Rh.

Temperature Range: Temperature maintain -5°C to + 30°C, LC: 0.1 Micro processer controlled rotor temperature within 1°C regardless of the centrifuge speed.

Power Supply: 220V / 240 Volts, 50 Hz, Single Phase AC Supply.

Voltage Corrector: 5 KVA Voltage Stabilizer with electronic safety device incorporated.

Pletlet Incubtor with Agitator

BPIA

♣ Pletlet Incubator with Agitator Model No : BPIA

Construction: BiolineIndia Platel Incubator is constructed with double wall with PUF insulation. Outer body is made of MS 18/20 Gauge with powder coated. Inner Chamber is made of SS 20 Gauge (304 Grade) easy to clean. The Main door is full front view double glass door & Inner door is made of acrylic sheet. Unit having heavy duty movable wheels. Platelet Agitator is made of MS with Powder coated. Racks of agitator is made of SS Jali for air better circulation in the chamber.

Control Panel: Digital Temperature Controller cum Indicator PID Based for unform temperature controlling 22 0C ± 10C LC: 0.10C. The Agitator is maintain agitating at 70 - 72 RPM (approx). The control panel maintains audio / visual alarm system with complete electronic circuit with safety features. Having comands to SET temperature (min. & Max.) On / OFF alarm systems. Temp. Recorder Weekly Circular Temp.



Inspection Lamp: One Bulb / CFL for internal inspection automatically / manual.

Power Supply: 220V / 240 Volts, 50 Hz, Single Phase AC Supply.

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Bio Fogger with rotator

BFR 2009

Bio fogger

Model No : BFR 2009

With rotator for blood bank sterilization

The unit is consist of SS Tank /Valve, Silicon rubber tubing with timer fixed range of 5min, 10min &15min. that will automatically turn off the fogger.



With Rotator S.S.:-

Rotating Table which rotates the Fogger clock wise and anti-clock wise for 300° at 1RPM.

Input Power 1-Ø AC 230 V,50 Hz



Special Features:

- → Introducing a Handy/Portable ULV (Ultra Low Volume) Fogger based on US Can be used in both indoor and outdoor for eliminate germs.
- ♦ A versatile fogger for both water & oil based liquid chemical combinations.
- → Powered by 3,000 RPM motor, one can be rest assure that the entire area will be disinfected / deodorized within a short span of time.
- ♦ The most effective way of Sterilization.
- → Produces a blend of fine for (5-10 micron) that evaporates in atmosphere and does not leave behind any chemical strains.

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Binocular Microscope

RH-85 UXL

♣ Binocular Microscope Model No : RH – 85 UXL

- ➤ Binocular head inclined at 45° moveable to 360°.
- Co-axial coarse & fine focusing with ball bearing guide ways & gear system in slow motion for long life having tension adjustment ring.
- ➤ Ball veering nose piece, Co-axial mechanical stage, two lens abbe condenser with iris diafhragm.
- ➤ 6v-20w Halogen bulb having solid state intensity control with electrical fitting in lower part of Microscope base for easy manipulation.



Eyepiece : 6x Huy, 10x LKW (Paired)

Objectives:

Achromatic 4x/5x, 10/x, 40x/45x & 100x oil immersion. Complete with accessories in a wooden box with thermocol packing.

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Thawing Bath / Cryo Bath

BTB & BCB

★ Thawing Bath /Cryo Bath Model No : BTB / BCB

Capacity: 8 / 12 Plasma bags

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 G CRCA MS sheet with two coats of

DUCO paint with puff insulation in between.



Features:

- Can thaw 8 FFP/Apheresis or plasma bags of any size.
- have two separate basket assemblies.
- built in fingers for securely holding the plasma bags.
- pives an alarm when the plasma bags are thawed, have deep thawing chamber with a stirrer, have a minutes, have a SS cover

Temperature Range: Temperature Range having 4 Deg to 50 Deg C

<u>Insulation</u>: *PUF* insulation for better power saving purpose.

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Temp. Controller: PID (Programmable) Microprocessor Based Temperature Controller used for controlling $4^{\circ}37^{\circ}$ C \pm 10 C accuracy: 0.1 Have audio visual over temperature alarm system.

<u>Control panel</u>: Controls to compromise fully automatic temperature Indicator cum PID (Progra.)Microprocessor Based Temperature Controller with PT – 100 Sensor, Temp. Recorder, Compressor, fans, Alarm etc.

Cooling Unit: Kirloskar make Compressor, which is CFC Free.

Power Supply: 230 Volts, Single Phase 50HZ

<u>Trays</u>: No. of Trays 3 (three) in S.S. for proper Storage of FFP/Apheresis or plasma bags.

<u>Safety:</u> Electronic safety device incorporated that will give audiovisual alarming case of power failure along with Voltage Stabilizer along with *Low & High* Voltage protector.

Sr.No.	Parameter	Thawing Bath	Cryo Bath
1.	Model	BTB	ВСВ
2.	Operating Temperature	+37°C	+4°C
3.	Circulation	Submersible Pump	Submersible Pump
4.	Capacity	12 Plasma Bags	12 Plasma Bags
5.	Cabinet	Table Top Cabinet	Cabinet on castor wheels
6.	Power Supply	230V single Phase 50HzAc	230V single Phase 50HzAc
Lord Cont		<u> </u>	

Laminar Air Flow

BLAF

↓ <u>Laminar Air Flow</u> Model No : BLAF

Vertical / Horizontal Laminar Air Flow workstation is made of MS with powder coated and painted with corrosion resistant and antifungal epoxy paint from inside. The unit have self supporting structure & requires no additional stand neither for the cabinet containing motor blower unit, Hepa Filter & Prefilters nor for the cabinet containing motor blower unit, Hepa filter & Prefilters not for the work table. Working table top mounted with Stainless Steel Sheet of high grade. The motor blower unit is mounted on anti vibration mounts to keep the surface vibrations at minimum. The unit have a built in fluorescent of Lighting in the hood and a suitable.



germicidal UV tube. Side panels are of safety flexi glass 6 mm in thickness mounted with anodized aluminum angles. Front door of perplex sheet with anodized aluminum frames and locks having arrangement to work with half open door. Hepa Filter facing to working table is being well protected with a grill pf perforated aluminum material.

Laminar Air Flow Bench principales involves double filtration of air Atmosphere air is drawn through the prefilters by heavy - duty blowers. This air is made pass through Hepa Filters. Double filtered air blowing through the laminar work table at a nominal controlled velocity of approx 90ft/minute.

Hepa Filters which is class 100 levels of cleaness as per U. S. Federal Standerd 29B, Having efficiency of 99.97% removal of air born particles as contaminant. The unit having static pressure menometer accurately calibrated to assess static pressure in hepa chamber.

The unit sutable to operate on 220V - 240V

Optional:- Provides Gas Co

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Incubator

BIINC

★ <u>Incubator</u> Model No : BIINC

- ♣ Control: Equipped with Microprocessor controlled with a large digital display.
- **↓** Work Chamber Volume: minimum 75 Litres.
- Working temp.: Ambient temp. $+5^{\circ}$ C to 75° C whereas room temperature is around $20^{\circ} 24^{\circ}$ C.
- **↓** Temp. deviation:±0.5°C.
- ♣ Display: Digital display located on front panel of the equipment.
- Leasy to clean: A silicon door gasket & removal of shelf supports make thorough cleaning and disinfection of the working chamber easy & safe
- ♣ Inner casing: Should be made of corrosion resistant 304 grade stainless steel.
- ♣ Shelves (adjustable): Two perforated shelves made of corrosion resistant 304 grade stainless steel. Standard supply 3 nos., inter shelves gap − 6" approx.
- ♣ Non corrosive metal used.
- ♣ Better Performance and long lasting base & vertical surface.
- ← Can Express plasma platelets.
- 4 350/450 ml filled b,b suitable.

 4 350/450 ml filled b,b suitable.
- ♣ Ambient temp working 10 to 40 log & relative humidity 15 to 90%.
- Memert Type: Double wall inside Chamber M.S/ S.S outer chamber M.S. finished with powder coated
- **↓** Temperature : 60°C
- ♣ Accuracy : ±.1°C



Autoclave

BATI

Autoclave

Model No : BATI

With pressure & temperature Indiacator: SS304

BiolineIndia Autoclave totally based on Micro Process & totally 304 Aragon welded thick plate. Electrically operated supplied with pressure gauge, safety valve/release valve. Lid is made of S.S. thick plate supplied with low water level including system with buzzer.

Construction : Single wall Inner SS 304, Outer Aluminum

Chamber : SS 304

Digital controller : Microprocessor Based Pressure Indication : Analog Pressure Guage

Heater : Industrial type

Sensor : PT 100 Size : 30x30cm

V.D.R.L. Rotator

BVDRL

↓ V.D.R.L. Rotator

Model No : BVDRL

Motor (RPM for above – 180 RPM) with timer

BiolineIndia VDRL Rotator

- ≥ 50 to 150 RPM Fitted with 1/20H. Pelectic Gear Motor
- Controller for speed control supplied without Glassparts.



PH Meter

BIPH

PH Meter Model No : BIPH

- ↓ Function: pH& temp. OR mV & temp. simultaneously
- Display: 16 character x 2 lines Alphanumeric BL LCD
- $\frac{1}{2}$ 230 V ± 10% 50 Hz AC
- ♣ Data Entry : By six soft touch keys with audible sound.
- **↓** 1000 sample storage
- Real Time Display 24 hour mode with date
- **↓** Temperature Range : -20.0°C to 200°C
- **↓** Temperature Resolution & Accuracy : 0.1 °C & \pm 0.1% of range \pm 1 digit
- ♣ Sensors : Pt 100 probe

Accessories: pH electrode, Instruction Manual, Buffer, Solution Dust cover, Electrode Stand, Temp Probe.

Micro Pipette

BIMP

- > 10-100 µl
- > 50-500 µl
- > 100-1000 μl





Hot Air Oven

BIHAO

BiolineIndia Oven Double wall inside Aluminum Outer chamber Mild Steel finished with powder coated.

Temprature : 250°C

Accuracy: ±.1°C heating element of lab model has only one element at the bottom side



Digital Water Bath

BIDWB

↓ <u>Digital Water Bath</u> Model No : BIHAO

BiolineIndia Digital water bath with Serological

Temperature : 5°C above ambient to 58°C

Rectangular Accuracy : 0.5°C (Powder Coated)



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Chemical Balance

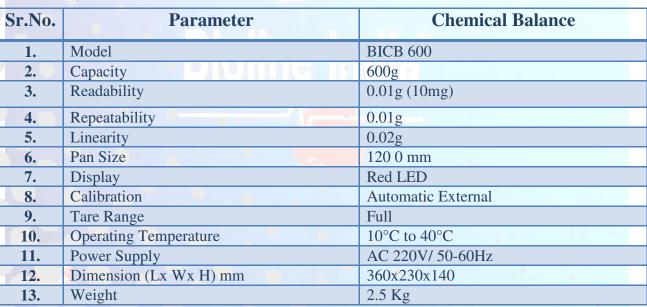
BICB 600

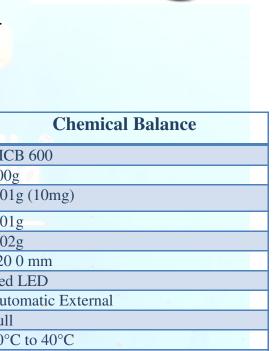
Chemical Balance Model No : BICB 600

Salient Features :-

- Auto calibration with External Weight.
- Low Battery Indicator.
- Multifunction Weighing Units.
- Auto zero tracking.
- Overload protection Design.
- ♣ S.S. Weighing Pan, Level indicator, Adjustable fit.
- ♣ Automatic switch off option.
- **RS232** Interface.







Cold Box



- For transporting blood from blood collection point/site to the processing centre.
- > temperature maintenance of 10°C or less for a period of 8 -24 hours.
- > Stable and robust with less weight.
- White colour inside of the container for easy cleaning.
- Cover should be firmed tightly close to avoid air going in/out of the container

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