



VAV INSTRUMENTS

MFG. SCIENTIFIC & BLOOD BANK INSTRUMENTS



Our Profile

Established in the year 2006 at Maharashtra, India, We "VAV Instruments" are Sole Proprietorship (Individual) based firm, involved as the Blood Bank Instruments Manufacturer in India and Exporters of Blood Bank Instruments, Mortuary Chamber, Dead Body Freezer, Ice Lined Refrigerator, Blood Donor Couch, Laboratory Freezers, Laboratory Incubators, Blood Collection Monitor, OT Table, Blood Bank Scale, Circulating Water Bath etc. All our products are getting widely acclaimed among the large clientele for their exclusive designs, superior quality, and reliability. Apart from this, our ability to maintain timelines as well as quality in the assortment, providing cost effective solutions and assurance to make timely shipment of the orders placed by customers have assisted us positioning our name in the list of top-notch companies of the industry.

www.vavinstruments.net



Blood Bank refrigerator especially designed incorporating aesthetic design and latest technologies for Blood Bank application. They are equipped with Hermitical type duty compressors. Inner chamber having direct air flow system for temperature uniformity to maintain a vital operational temperature of 4°C. The Micro-controller based LCD graphic display ensures crystal clear accurate temperature values from long distance. The transparent inner Acrylic door provides clear viewing of material kept in the chamber.

Features:

1. Micro controller based graphic LCD display
2. CFC free refrigerant and high density PUF insulation
3. Audio – Visual alarm when the temperature deviates
4. Built-in 7 days chart recorder
5. Motors with Impeller for temperature uniformity in chamber
6. CFL lamp for chamber inside visibility
7. Perforated Stainless Steel heavy duty baskets
8. Castor wheels for easy mobility
9. Door open alarm

Optional Accessories:

1. 8/4 Channel Temperature data scanner with sensors, printers interface data management, pen drive retrieval facility
2. Mobile alert via GSM in case system fails
3. Power Failure alarm (optional)
4. Glass Door
5. Validation Port (optional)

MODELS	VIBBR60	VIBBR120	VIBBR240	VIBBR300	VIBBR525	VIBBR800
TEMPERATURE	4.0°C	4.0°C	4.0°C	4.0°C	4.0°C	4.0°C
ACCURACY	5%	5%	5%	5%	5%	5%
SIZE(W*D*H)cms Inner size.app.	44*40*61	45*45*80	57*49*119	64*59*120	80*65*140	127*65*142
VOLUME	90 ltr.	170 ltr.	300 ltr.	425 ltr.	700 ltr.	1100 ltr.
NO.OF BASKETS	2 Nos.	4Nos.	5 Nos.	5 Nos.	8 Nos.	12 Nos.
BLOOD BAGS(A)(350ml.)	60.	120.	240.	300.	525.	800.
RECORDER EXTRA.		Circular chart.	Circular chart.	Circular chart.	Circular chart.	Circular chart.

PLASMA FREEZER



Our high- performance- 35C freezers provide long-term storage for specialty plasma products, delivering protection against interior warm-up that can result from heavy freezer use. Our 40C plasma freezers maintain safe, uniform storage conditions even at ambient temperatures of up to +45C.

1. -35C and -40C units with storage capacities from 80 liter to 60C liter
2. Microprocessor based Digital display Independent bottom temperature control with audio visual alarm for high and low temperature. And power failure alarm.
3. CFC free refrigeration system.
4. Start p delay protection.
5. High intensity insulation foam.
6. Lockable caster – easy to move.
7. It has washable filter.
8. Positive latch with key lock security; prevents door ‘pop-open’ on two-door units.
9. Anti-sweat door frame heaters with magnetic compression gaskets to provide a tight door seal.
10. dual door for zero cooling loss.

MODELS	VIPF80	VIFP140	VIPF250	VIPF300	VIPF450
TEMPERATURE	-35°C	-35°C	-35°C	-35°C	-35°C
NUMBER OF TRAYS	2	4	5	6	7
SIZE(W*D*H)cms					
Inner size.(app.)	44*40*61	49*50*82	57*49*119	60*55*120	63*65*142
VOLUME	150 ltr.	250 ltr	300 ltr.	450 ltr.	600 ltr.

Plasma Freezer provides an ideal freezing environment for the preservation of Plasma, and test samples. The instruments outer body is made of heavy gauge Mild steel duly powder coated with stainless Steel (304) Inner Chamber. This unit Designed to maintain a stable and uniform temperature of up to -40.0°C, Vertical and Horizontal with four different sizes. The user-friendly design includes a built-in Stainless steel insulated inner door, and simple calibration is possible via the control panel. This coupled with a visual and audible alarm system, ensures that your samples are both safe and secure, but also easy to access when you need them.

Temperature Details:

1. Controller: Microprocessor controller, with Digital dual display temperature controller cum indicator.
2. Range : -40°C, Accuracy ±2°C.
3. Uniformity : ± 2°C
4. Sensor : Pt100 (RTD)
5. Chart Recorder – Circular Chart recorder with chart speed of 7 days 1 revolution.



provides an ideal Storing environment for the Platelets. This unit Designed to maintain a stable and uniform temperature of 22.0°C, The user-friendly design includes an acrylic inner door, and see through outer door, simple calibration is possible via the control panel. This, coupled with a visual and audible alarm system, ensures that your samples are both safe and secure, but also easy to access when you need them



Other features of this unit include :

1. Micro Controlled Temperature controller with Audio Visual Alarm for high & Low Temperature.
2. Display of Set and Process value.
3. Extra-strength non CFC refrigeration System.
4. The unit is mounted on castor wheel for easy mobility.
5. CFC Free PUF (Poly Urethane Foam) Insulation to ensure temperature stability and save power consumption.

Inner Dim(WxDxH)	Operating Temperature
18x18x16inch.	22.0 °C (48 PLATELET BAGS)



Platelet Agitator is an open continuous side-to-side motion agitation system with storage capacity up to 54 apheresis bags. The shelves are constructed in stainless steel, favourable for easy sliding, mounting and dismounting. Specialized motor assembly allows shelf platform to produce smooth strokes reducing squeaks and noise. One-piece perforated drawers with non-slip textured coating provide uniform air circulation and dissipates heat to maintain RTP conditions.

Other features of this unit include :

Maximum storage capacity	54 apheresis bags
Shelf platforms	7 shelves
Base material	Stainless steel
Stroke speed	60 strokes / min
Mobility	Castor wheels
Power	220 V / 50 Hz / 50
Dimension	400 x 480 x 350 mm
Weight	41.5 kg

high-performance -86°C freezers provide long-term storage for specialty plasma products, delivering protection against interior warm-up that can result from heavy freezer use. Our -86°C plasma freezers maintain safe, uniform storage conditions even at ambient temperatures of up to +45°C.

- -35°C and -86°C units with storage capacities from 80 liter to 600 liter.

Microprocessor based LCD /LED display Independent bottom temperature control with audio visual alarm for high and low temperature. And Power failure alarm.

CFC free refrigeration system.

1. The Interior and Outer door should be painted steel. Its Inner door should be ABS resin panel with stainless frame, 2 doors.
2. The shelf should be of Stainless steel,
- 3 shelves (adjustable), Inner dimension; Load; 50 kg/shelf.
4. Its Access port should be 17 mm diameter, 3 locations (back, 2 bottoms)
5. The insulation of the Ultra-Low Temperature Freezer should be Vacuum insulation panel + Rigid polyurethane foamed-Our in place.
6. It should have two types of Compressors, (a) compression: Hermetic type, Output; 1100W and (b) compressor: Hermetic type, Output; 1100w.
7. The Evaporator should be Tube on sheet type.
8. Its Condenser should be Finless tube type.
9. The Freezer Refrigerant should be HFC mixed refrigerant.
10. The Temperature controller should be Microcomputer control system. And the Temperature display should be Digital display.
11. The Ultra-Low Temperature Freezer Thermal sensor should have Platinum resistance (Pt 1000Q)
12. The Alarm should be for High temp. Alarm, Low temp, alarm, Power failure alarm, Door alarm, Sensor abnormality, Fan motor abnormality, Compressor temp abnormality & Cooling circuit abnormality.
13. The Remote alarm contact should be Allowable contact capacity: DC 30 V, 2A. 16. The Ultra-Low Temperature Freezer Battery should be Nickel-metal-hydride battery, DC 6 V, 1100 mAh, Auto-recharge (5HR-AAC).
14. The Ultra-Low Temperature Freezer Weight should be around 320kg/328kg. 18. The Ultra-Low Temperature Freezer Voltage booster should be Built-in.
15. The essential Ultra-Low Temperature Freezer Accessories, like 1 set of key, 1 scraper, 1 stick for air intake port cleaning, etc. should be part of the main quote.
16. The Ultra-Low Temperature Freezer Cooling performance should be -80oC at the center of the chamber (ambient temperature; 30oC, no load).
17. The Ultra-Low Temperature Freezer Temperature control range should be -50oC to - 86oC 22. The Ultra-Low Temperature Freezer Power voltage should be AC 220 V/240V.
18. The Ultra-Low Temperature Freezer Rated frequency should be 50Hz/60Hz. 24. The Ultra-Low Temperature Freezer Rated power consumption should be 1140W/1400W. The Maximum pressure should be 2920kPa.



MODELS	VIUF100	VIUF 350	VIUF450	VIUF551	VIUF700
TEMPERATURE	-86`C	-86`C	-86`C	-86`C	-86`C
NOMBER OF TRAYS	3	4	5	6	7
SIZE(W*D*H)cms Inner size.(app.)	45*45*50	57*55*110	60*60*120	70*68*120	75*80*120
VOLUME	100ltr	360 ltr.	450 ltr	600 ltr.	700 ltr.

BLOOD BAG TUBE SEALER

Blood bag tube sealer is a compact instrument to seal the blood bag pilot tube by radio frequency sealing system, no haemolysis at blood in the tube because radio frequency sealing seals the tube without damaging the blood cells inside, and easy separation of tube the sealing is done, sealing can be achieved in less than 1.5 sec. Per tube by simple operation.



Cat No.	Oscillation Frequency	Radio Frequency Output	Sealing Time (Approx.)	Input Voltage	Frequency	Power Consumption
LTS – 4	40.68 MHz.	15 W	1.4 Sec	230 V AC	50 Hz.	80 V A
LTS – 5	40.68 MHz.	15 W	1.4 Sec	230 V AC	50 Hz.	80 V A

BLOOD COLLECTION MONITOR

Blood Collection Monitor is a Compact Unit that provide safe and smooth action to ensure mixing of blood and Anticoagulant without Damaging blood cells during Collection of blood from a donor

Special Features:

- Volume can be set 1ml increment.
- Facility of pausing during collection and also can change.
- preset volume.
- Microcontroller based program to give better accuracy.
- Auto tare facility.
- Motorized pinching system at the end of collection to prevent excess blood from the desired volume.
- Facility to check, set volume, gram and time totalizer during collection.
- Audio visual alarm if the flow is less than 15ml/min and Audio Alarm at the end of collection.



Input Voltage	230V AC	230V AC (SMPS)
Oscillation Speed	10 RPM (+/- 1)	10 RPM (+/- 1)
Display	Red Led	Red Led
Alarm	Audio Visual	Audio Visual
Battery Backup		4 to 7 Hrs

BLOOD DONOR COUCH



Enriched by our vast industrial experience in this business, we are involved in offering an enormous quality range of Blood Donor Couch.

Application	Hospitals, Clinics etc.
Width	550 mm
Load Capacity	130 kg
Height	670 mm

DONER COUCH IS DESIGNED TO PROVIDE A COMFORTABLE POSITION FOR THE DONOR. DONOR'S POSITION CAN BE EASILY BY MICRO MOTION AT YOUR WILL WITH THE TOUCH OF BUTTON.

Size	1880*830*1300 mm
Filling Material	Foam
Back Section Angle	10 to 80 Degree
Type	Adjustable



PLASMA EXPRESSOR



Plasma Extractor is designed to Extract Blood component from centrifuge Bags. The spring loaded front panel applies pressure on the collected bag causing the liquid to contain in transfer bag. Its sturdy construction makes it durable, easy to use and portable, the unit is available in both version automatic and manual.

Automatic Plasma Expressor. The spring loaded front panel applies pressure on the collected bag causing the liquid to contain in transfer bag. These have an attractive front panel bezel and caters to the requirements of hospitals, research clinics etc.

Features:

- IR Sensor
- Motor activated clamping
- Audiovisual Alarm
- Spring Loaded Acrylic Plate
- Uniform Pressure
- Automatic Control
- POWER 230V AC

REFRIGERATED BLOOD BANK CENTRIFUGE



Refrigerated Blood Bank Centrifuge Floor Model with convenient height for easy operation. The Centrifuges are with sturdy and safe steel. Body with Corrosion resistant epoxy coating and Stainless Steel Refrigerated Centrifuging Chamber, Double walled lid with easy to handle gas spring hinges and mechanical and Electronic Safety Locks. Centrifuge is provided with mobility and adjustable rubber Padded Jacks Leveling and Sturdy Locking on the floor.

Outer body	Mild steel with powder coated
Inner chamber	Stainless steel. 304
Max speed	5000rpm. /RCF 6150xg Maintenance free brush less induction motor
Max Capacity	6/8/12 Blood Bags of 450 ml (Triple Bag System)
Chamber Lowest temp.	-20°C CFC free Refrigeration (Cooling) System
Connected Load	4 kva.
Power	230 V/50HZ.
Body size	W*D*H: (860/960/965mm.)
Operating circuit	Micro processor based fully automatic with audio visual alarm Micro processor control with soft touch key pad. 99 Program Memory of set parameters



PROGRAMMABLE FEATURES:

- 1) Speed Control up to 5000 RPM with 10RPM Increment.
- 2) Speed can also be set by Programming Required RCF value
- 3) Temperature in the range to -20°C to +40°C with 1°C Increment.
- 4) Working temperature 5°C to +25°C Depending on Speed.
- 5) Preset Timer 1 to 120 minutes with 1 minute increment and infinite mode.
- 6) User Programmable Acceleration / deceleration time Setting in the range of 40 to 450 seconds.

BUILT IN FEATURES AND SAFETY SYSTEMS:

- 1) LCD Display of working Speed RCF value
- 2) LCD Display of remaining time
- 3) LCD Display of working temperature
- 4) Pre cooling and stand by cooling facility
- 5) Programmed Emergency Lid Lock release in case of failure
- 6) Rotor in motion indicator
- 7) Safety lid open indicator
- 8) Imbalance indication and safety switch off for drive mechanism
- 9) Hydraulic hold for lid
- 10) Mechanical and electronic lid lock with indicator



Ice lined refrigerators are designed for storing life saving vaccines. our sturdy and reliable Ice Lined refrigerators with unique design innovations are specially designed to store vaccine products at a controlled, stable temperature and provides a means of storing vaccines and medical supplies. These Ice Lined Refrigerators with a Temperature range of 2 Deg. C to 8 Deg. C come with a highly efficient backup system of 20 – 24 hours. our Ice Lined Refrigerators are designed to maintain the COLD CHAIN which is a must feature of Ice Lined refrigerators for routine & emergency vaccine handling.

Strong and reliable refrigeration is the main feature of ice lined refrigerator. The unit is fitted with a digital electronic temperature controller cum indicator for easy readability along with high & low alarm system. The heart of the system is a highly efficient compressor and condenser with state of the art accurate Temperature Controls constrained to work with low energy consumption.

FEATURE SELECTIONS:

1. High and low temperature alarms.
2. Temperature data logger.
3. Temperature Chart Recorder.
4. Computer Interface & software.
5. Data store memory & print function.
6. Alarm system with rechargeable battery backup.
7. Alarms for open door, sensor fault, condenser fault etc.
8. Voltage safety system.
9. Dual door system with inner Glass door.
10. Vacuum insulated Glass door system.

SINGLE BODY MORTUARY FREEZER



Cabinet Construction: Double walled construction with inner chamber made of Stainless Steel 304 and outer body made of mild steel duly powder coated/Stainless Steel 304. High density polyurethane (PUF) insulation of desired thickness is filled between the walls and the whole structure is mounted on heavy duty castors for easy removability. Trays to carry bodies with handles at both ends slide on rollers/three pieces Telescopic Chanel carriage assembly. Front opening, hinged stainless steel insulated doors lined with gasket, handle and lock arrangement with keys in duplicate for individual dead bodies. A double door system including the transparent inner acrylic door helps in viewing without disturbing the thermal conditions.

1. Fully SS 304, with lockable wheel, transparent acrylic unbreakable, 230v 50 hz AC.
2. Light weight.
3. Automatic temperature controller with high low alarm.
4. 2 years guarantee and warranty of machine is 3 years service warranty.

MORTUARY FREEZER 2, 3, 4, 6 BODY

Temperature Range and Control:

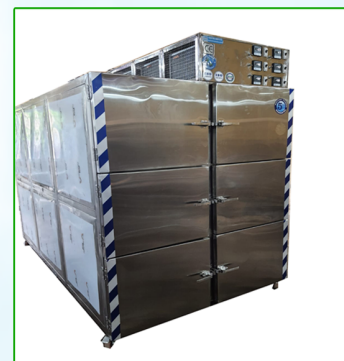
Available with temperature range of 2°C to 8°C and -10°C to -20°C. However these cabinets can also be made with specific temperature range as required by the customer. For accurate measurement and display of temperature a LED or LCD display is used. These units are equipped with microprocessor based digital control panel which is operated with push buttons. For security and safe working high and low temperature alarm system is used.

Refrigeration System:

Equipped with full functional cold storage facility. Refrigeration system is energy efficient, environment friendly, completely airtight and can be roof top or wall mounted. This refrigeration system can also be installed as remote equipment where noise or heat can be a nuisance. The evaporator is equipped with automatic electric defrosting. Featuring noise less compressor and air cooled condenser (water cooled condenser on demand) this cooling system provides full value of money.

Doors:

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.



Model	VI-MC01	VI-MC02	VI-MC03	VI-MC04	VI-MC06	VI-MC09	VI-MC012
Number of Bodies	1 Body	2 Bodies	3 Bodies	4 Bodies	6 Bodies	9 Bodies	12 Bodies
Temperature Range	2°C to 8°C / -10°C to -20°C						
Temperature Control	Digital Micro-processor						
Temperature Display	LED / LCD Display						
Construction	G.I Sheet / M.S / 304 Stainless Steel						
Insulation	High Grade Poly Urethane						
Doors	Made of Steel Sheets w/ Magnetic Gasket & External Lock						

Type of Surgery	General Surgery
Table Type	Hydraulic
Brand	VAV Instruments
Material	SS
Size	1960 x 550 x 910 mm
Power Source	Hydraulic
Automation Grade	Fully Automatic
Voltage	230 V



1. These couch/table body are made from S.S.steel 304.
2. Seat cushion are made from washable 75 m.m. with high quality rexin.
3. High impact double wall construction, wont chip, crack or rust.
4. Tough exterior resist impact inner is impervious to stain & odors.
5. Durable, rust resistant fittings.
6. High quality 3 inches wheel/feet with locking for easy carrying.
5. Beautiful wide mouth design for easy cleaning.
6. Motorized movements provide smooth, easy and accurate position.
7. Remote/foot switch operated back and leg, up and down. Positioning up/down, trendelenberg/reverse trendelenberg, lateral tilt sides, flex/reflex, chair, kidney elevation and lithotomy.
8. SS arm board/anaesthetic frame, pair of padded lateral support/pair of padded shoulder support/pair of leg holder and strap.
9. High quality imported accuator for operating.

Our company holds vast experience in this domain and is involved in the offering **Electric OT Table**.



Table Type	Fully Electric
Brand	VAV Instruments
Load Capacity (Kilogram)	150 Kg
Warranty	1 Year
Driven Type	Electric
Elevation	700 mm/1000 mm
Length of Table	1910 mm
Frame Material	Stainless Steel

AUTOPSY TABLE



The complete autopsy workstation is made of high grade Stainless Steel. The complete table is aesthetically designed by using state-of-the-art engineering, heavy gauge stainless steel and conveniences. The stainless steel table is mounted on stainless steel tubular stand. The autopsy table is scientifically designed for maximum efficiency. (Top-to-bottom Heavy Gauge Stainless Steel) Eliminating iron and paint in the construction means a more durable, longer-lasting finish. The top-to-bottom stainless steel construction will withstand the harshest conditions.

Sink is integrally constructed of 18-gauge stainless steel with rounded corners for easy cleaning. Work surfaces are sloped to facilitate drainage into the extra large integral sink.

All switches are encased in a way to assure easy clean up.

We install the highest quality plumbing fixtures for innovative design, quality craftsmanship and cutting-edge safety features.

OUR CERTIFICATE



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