



About Us

Established in the year 2006 at Maharashtra, India, we “VAV Instruments” are Sole Proprietorship (Individual) based firm, involved as the Manufacturer and Exporters of Blood Bank Instruments manufacturer in Mumbai, Laboratory Freezers, Mortuary Chamber manufacturer in Mumbai India, Ice Lined Refrigerator Manufacturer in Mumbai India, Blood Donor Couch, Dead Body Freezer Manufacturer in Mumbai, 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.



BLOOD BANK REFRIGERATOR

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	VIBBR200	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.	230 ltr	300 ltr.	500 ltr.	700 ltr.	1100 ltr.
NO.OF BASKETS	2 Nos.	4Nos.	5 Nos.	6 Nos.	8 Nos.	12 Nos.
BLOOD BAGS(A)(350ml.)	60.	200.	250.	300.	525.	800.
RECORDER EXTRA.		Circular chart.	Circular chart.	Circular chart.	Circular chart.	Circular chart.



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Technical specification Blood Bank Refrigerator

Blood Bank Refrigerator	
S.no	Description of Technical Specification
1	Clinical Purpose- A refrigerator for storing whole blood or red cell packs in a blood bank. A refrigerator for storing various reagents and /or patient samples.
2	Technical characteristics - Compression type refrigerator that uses CFC/HFC/HCFC free refrigerant gas.
	Construction:
3	Internal: Durable unbreakable interior is made up of Stainless steel SS304.
4	External: Durable rust free resistant exterior is made up of GPSP Sheet/Galvanized Sheet/Powder Coated Corrosion resistant Sheet/Powder coated CRCA Steel. CFC free insulation.
5	Drawers: Roll out type, Stainless steel scratch resistant material, perforated on the bottom for perfect and homogeneous distribution of cold air. The separators, if provided in the drawers, is such that blood bags are held in a vertical position with the the lable side visible.
6	Door: Door with automatic closing of the front door below opening angle of 90 degree and opening angle limited to 110 degree , Insulation and gasket is of silicon. Polyurethane insulation is of minimum 50 mm thickness. Door opening audio and visual display alarm.
7	Temperature Range: 2 deg C to 6 deg C and adjustable with setting accuracy of ± 0.1 deg C with set temperature of 4 deg C.
8	Minimum Compressor Starting Voltage: 22% below nominal Voltage
9	Internal Temperature Control: Electronic temperature control, range +2 deg C to +6 deg C with setting accuracy of ± 1 deg C whatever the load, fan air cooling
10	External Ambient Temperature: Performs in an ambient temperature of +5 deg C to +45deg C
11	Hold over time: A full load of blood packs at +4 deg (± 1 deg C) takes at least 60 minutes to rise to above +6 deg C. Internal temperature hold over time in case of power failure is 3 hrs.





Technical specification Blood Bank Refrigerator

12	<ul style="list-style-type: none"> Temperature Monitoring: Digital temperature (LED/LCD) display with 0.1 deg C graduation, Temperature recording device, Microprocessor control for operation with integrated audio visual temperature alarm function with digital monitoring display. Independent safety thermostat to avoid negative temperatures.
13	<ul style="list-style-type: none"> This refrigerator having 2 temperatures sensors: Sensor for temperature monitoring shown on front display, sensor for managing use of Temperature recording device: Visual and audible alarm system indicating unsafe temperatures. Battery backup for alarm system indicating unsafe temperatures.
14	<ul style="list-style-type: none"> Seven days graphic temperature recorder with range of -10 deg C to +20 deg C with supply of free charts for a period of one year. Ideal compressor running time of 27% at room temperature. Door locks is also available. Audio and visual alarm for variation in temperature, Interior lightening, Auto defrosting/Frost Free Design.
15	Capacity -As required by the blood bank (250 bags of 350/450 mL each)
16	Settings –Manual
17	User's interface –Manual
18	Software and/or standard of communication(where ever required) -Built in
19	Physical characteristics
20	Noise (in dBA) Noise factor is limited to 60 decibels.
21	ENERGY SOURCE (electricity, UPS)
22	Power Requirements input voltage -220/240V 50 Hz
23	Protection - A line voltage corrector of appropriate rating will form part of standard configuration.
24	Accessories, Spare parts, Consumable
25	Accessories, Consumable & List of Spare Parts: Accessories, Consumables & List of spare parts -Complete with comprehensive set of list of spare parts and a suitable capacity voltage stabilizer. The make, rating, model, description, specifications, price, quantity of each item shall be furnished separately.
26	Enviromental and Epartmental Consideratons
28	1. Atmosphere / Ambiance (air conditioning, humidity, dust) -Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. Capable of operating continuously in ambient temperature of 5 to +45deg C or more and relative humidity of 15 to 90%.
29	Additional Requirements -All equipments specify Design qualifications, Installation qualifications, Operational qualifications and performance qualifications, validation and calibration reports have traceability towards applicable national/ international standards. Performance, efficiency, other factors such as distortion etc. as applicable be also furnished. Complete construction, details in respect of material specification, thickness, finish etc. are to be furnished.



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30	User's care, Cleaning, Disinfection & Sterility issues -Complete unit to be easily washable and sterilizable using both alcohol and chemical disinfectant
31	Standards And Safety
32	Product certifications – ISO 13485, CE, WHO-GMP, FDA.
33	Electrical Safety Equipment meets electrical safety specifications of IEC 60601-1 and 60601- 2 (as relevant)
34	Training And Installation
35	Training of staff (medical, paramedical, technicians) -Training of users in operation and basic maintenance are provided.
36	Warranties And Maintenance
37	Warranty 3years.
39	5 years CMC (as per tender terms and condition).
40	Documentation
41	Operating manuals, service manuals, other manuals -Necessary catalogues, technical write up in english is attached with the offer both in hard and soft copies.



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