



GEOCLIMATIC
TECHNOLOGIES PVT LTD

A **SESS** Group Company

BLOOD BANK REFRIGERATOR

PLUS MODEL



ECONOMY MODEL



www.geoclimatic.in



Tomorrow's Technology for Today . . .



BLOOD BANK REFRIGERATOR

BLOOD BANK REFRIGERATORS are designed and manufactured by Geoclimatic Technologies Pvt Ltd (A SESS Group Company) at par with international standards with the help of eminent technical expertise. This equipment is superior in temperature accuracy, better construction of panels for maximum uniformity of temperature to meet strict requirements for storage of whole blood.

Models :

Economy Model : Temperature controller, chart recorder and alarm indication with audio. Inner Wall is of Stainless Steel 304 Grade 1.0 mm thick and Outer Wall is of Mild Steel 1.2 mm thick with Powder Coated. Insulated Full See - Through Transparent Double Pane Glass Door on the Front (3 Layer Glass).

BBR Plus Model : Temperature controller with 7" TFT HMI (Touch Screen) with USB port for Data logging purpose. Inner Wall is of Stainless Steel 304 Grade 1.0 mm thick and Outer Wall is of Mild Steel 1.2 mm thick with Powder coated. Insulated See-Through Transparent Double Pane Glass Door at the Center on the Front (3 Layer Glass).

HMI Specifications :

- ✓ Display : 7" TFT Colour
- ✓ Resolution : 800 x 480 px
- ✓ Colours : 16 M
- ✓ Memory : 128 MB
- ✓ Input power : 24 VDC
- ✓ HMI Environment : -20 deg c to 60 deg c
- ✓ Protection saturation : IP65 compliant front panel



| | |
|-----------------------|---|
| Name of the Equipment | Standard Model : Micro Controller based Blood Bank Refrigerator. BBR PLUS Model : HMI based Blood Bank Refrigerator with paper less data logging facility. |
| Control System | Standard Model : Micro Controller based Temperature Indicator cum Controller with Digital Display and PT 100 Sensor. BBR PLUS Model : With 7" HMI Colour. |
| Alarm | Audio Visual Alarm if the temperature deviates from the preset Temperature. |
| Refrigeration System | Hermetically Sealed CFC Free Emerson/Danfoss Compressor With R 134a refrigerant. |
| Air Circulation | Motor and blower arrangement to have uniformity of Temperature under loaded condition. |
| Insulation | 65 mm thick CFC Free PUF Insulation for models BBR 50, BBR 120, BBR 150 & 80 mm thick for BBR 300. |
| Lighting | Interior illumination for working area. |
| Trays | Specially designed Stainless Steel Baskets. |
| Safety Features | Time delay of 180 Sec. compressor 'ON' delay timer to safeguard the compressor. |
| Power | Works on 230V AC single Phase 50Hz with Proper earthing. |
| Temperature Recorder | 7 days circular chart recorder |
| Other | Castor Wheels, MCBs and Heavy Duty Latch with Lock & Key. |
| Gsm Mobile Alert | Available on specific request |



Unique Features...



- ✓ Display: 7" TFT Colour
- ✓ Resolution: 800 x 480 px

Display Readings of

1. Set Temperature
2. Actual Temperature
3. Alarm Temperature

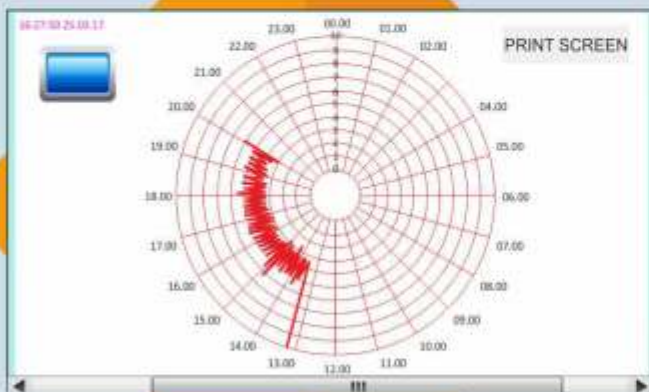
- ✓ Data Logging Facility (Both Soft Copy & Hard Copy option)
- ✓ Data logging Details of
 1. Date
 2. Time
 3. Temperature

| Sr. No. | Time | Date | Temperature |
|---------|-------|------------|-------------|
| 10 | 10.26 | 27-05-2017 | 2.5 |
| 9 | 10.25 | 28-05-2017 | 2.6 |
| 8 | 10.24 | 29-05-2017 | 2.4 |
| 7 | 10.23 | 30-05-2017 | 2.8 |
| 6 | 10.22 | 31-05-2017 | 3.1 |
| 5 | 10.21 | 01-06-2017 | 3.5 |
| 4 | 10.2 | 02-06-2017 | 2.8 |
| 3 | 10.19 | 03-06-2017 | 2.9 |
| 2 | 10.18 | 04-06-2017 | 4.3 |
| 1 | 10.17 | 05-06-2017 | 4.8 |

21008

Download Data

Clear Log



- ✓ Display of Temperature Chart Recorder (Both Soft Copy and Hard Copy option for 24 Hours) with a memory of 30 days storage facility.

TECHNICAL SPECIFICATIONS FOR BLOOD BANK REFRIGERATORS

| Model Number | BBR 60 | BBR 120 | BBR 150 | BBR 300 |
|----------------------------------|--|------------------------|-------------------------|-------------------------|
| Temperature control | Microprocessor | | Microprocessor | |
| Display | 4" HMI (TFT Screen) | 7" HMI (TFT Screen) | 7" HMI (TFT Screen) | 7" HMI (TFT Screen) |
| Control Accuracy | ±0.1°C | | | |
| Tolerance | ±1°C | | | |
| Gross Internal Volume in liters | 122 | 238 | 295 | 647 |
| Total Bags Capacity | 60 | 120 | 150 | 300 |
| Storage capacity per Tray | 2 x 30 | 4 x 30 | 5 x 30 | 5 x 60 |
| Number of Drawers | 2 | 4 | 5 | 5 |
| Temperature | 4°C | | | |
| Audio / Visual Alarm | Temperature High /Low, Power Failure, Power ON | | | |
| Refrigeration system | Single | | | |
| Insulation | High Density – CFC Free- Puf Insulation | | | |
| Internal body material | S.S 304 (Stainless Steel, AISI Grade, Non Corrosive, Non Magnetic) | | | |
| External body material | Powder coated CRCA Steel | | | |
| Battery backup | UPS Battery backup for Controller & Recorder | | | |
| Recommend line voltage corrector | 1KVA | 2KVA | 2KVA | 3KVA |
| Electrical Safety | Miniature circuit breaker (MCB) + Fuse | | | |
| Operating Voltage | 220 - 240 Volts / 50Hz, Single phase | | | |
| Inner Dimension (mm) | 600(W)x450 (D)x450 (H) | 510(W)x550 (D)x850 (H) | 510(W)x550 (D)x1050 (H) | 750(W)x750 (D)x1150 (H) |
| Outer Dimension (mm) | 730(W)x690(D)x1315(H) | 640(W)x790(D)x1715(H) | 640(W)x790(D)x1915(H) | 910(W)x1005(D)x2045(H) |

HMI (Human Machine Interface) will not be available in Economy Models

- ✦ Any Other Capacities other than the above can be offered against specific request.
- ✦ We also deal with complete range of all blood bank equipments.
- ✦ We undertake service / AMC for all Blood Bank Equipments including imported units.
- ✦ We also do Calibration and can provide certificates with NABL Accreditation in Association with approved labs .



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