



+4°C

Blood Bank Refrigerator **(Air Cooling System)**

Model: MBC-4V108

(Version: 2024-5)



Applications

Blood bank refrigerators are specially designed to store blood bags and blood-derived products.

Features

- Microprocessor control, ensure the inside temperature of $4^{\circ}\text{C} \pm 1^{\circ}\text{C}$ accuracy is 0.1°C
- Suggested ambient temperature: $+10 \sim 32^{\circ}\text{C}$.
- Specially designed forced-air cooling system, ensures frost-free cabinet and good temperature uniformity.
- Toughened glass door with heater to avoid condensation.
- Wide available voltage range: 187V~242V.

Security

- Safety door lock and controller password to prevent unauthorized access.
- 72h built-in backup battery to power the controller and save temp. data when power failure or system error.
- Visual and audible alarm system.
- Power failure protection: turn-on delay of the cooling system after power failure.
- Controller error protection: the cooling system will remember the normal working cycle and keep working depending on this memory when the controller or two sensors failed.

Humanized design

- Special designed service-free drainage system, ensure no water in the cabinet.
- Adjustable shelves and blood baskets for easy storage.
- Casters with stoppers for easy moving and fixation.
- Auto on/off LED light with manual switch on the control panel.
- Auto on/off cooling fan to prevent cold air from leaking out when the door is opening.



Specifications

| Model NO. | MBC-4V108 |
|---------------------------------|--|
| Main Specifications | |
| Temperature Range | 4 ± 1 °C |
| Ambient Temperature | 10~32°C |
| Capacity (L/Cu. Ft.) | 108 / 3.81 |
| Interior Dimensions (W×D×H) mm | 432×462×555 |
| Exterior Dimensions (W×D×H) mm | 522×635×1050 |
| Weight | 74 kgs |
| Noise | 49.6 dB |
| Storage | |
| 450ml Blood Bag | 66 |
| 400ml Blood Bag | 78 |
| 300ml Blood Bag | 96 |
| 200ml Blood Bag | 120 |
| Control and Power | |
| Controller | Microprocessor |
| Display | Digital |
| Sensor | NTC |
| Voltage and Frequency | 187~242V, 50/60Hz |
| Power | 185 W |
| Electric Current | 1.23 A |
| Power Consumption (kWh/24h) | 2.1 |
| Audible and Visual Alarms | |
| High / Low Temp. Alarm | Yes |
| Power Failure Alarm | Yes, 72h |
| Sensor Error Alarm | Yes |
| Controller Error Alarm | Yes |
| Door Ajar Alarm | Yes |
| Battery Error Alarm | Yes |
| Refrigeration | |
| Refrigeration Type | Forced-air Cooling |
| Defrost | Auto |
| Compressor (Brand/pcs) | EMBRACO / 1 |
| Refrigerant / Weight (kgs) | R134a / 60g |
| Cabinet | |
| Door (pcs) | Self-closing Foamed Heating Glass Door / 1 |
| Inner Door (pcs) | PMMA / 2 |
| Fixed / Adjustable Shelf (pcs) | 0 / 2 |
| Basket (pcs) | 6 |
| Interior Cabinet Material | 304 Stainless Steel |
| Exterior Cabinet Material | Coated Steel |
| Insulation Material | PURF (δ45mm) |
| Door Lock | Yes |
| LED Lamp | Yes |
| Test Hole (pcs) | Φ25mm / 1 |
| Fixed / Levelling Castors (pcs) | 4 / 0 |
| Accessories | |
| Voltage Stabilizer | Optional |
| USB Data Download Port | Optional |
| Remote Alarm Port | Optional |
| RS232 / RS485 Port | Optional |

| | |
|------------------------|-------------------------|
| Temperature Datalogger | Optional |
| Temperature Printer | Yes |
| Shipping | |
| Package | Plywood box with pallet |
| Shipping Weight | 95 kgs |
| Shipping Size (W×D×H) | 690×580×1200 |
| Shipping Volume | 0.48 CBM |