+4°C
Blood Bank Refrigerator
(Air Cooling System)

Model: MBC-4V368

(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°C±1°C accuracy is 0.1°C
- Suggested ambient temperature: +10~32°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-4V368
Main Specifications	
Temperature Range	4 ± 1 ℃
Ambient Temperature	10~32℃
Capacity (L/Cu. Ft.)	368 / 13
Interior Dimensions (W×D×H) mm	685×429×1380
Exterior Dimensions (W×D×H) mm	785×598×1925
Weight	128 kgs
Noise	51.2 dB
Storage	
450ml Blood Bag	300
400ml Blood Bag	360
300ml Blood Bag	420
200ml Blood Bag	540
Control and Power	
Controller	Microprocessor
Display	Digital
Sensor	NTC
Voltage and Frequency	187~242V, 50/60Hz
Power	355 W
Electric Current	2.31 A
Power Consumption (kWh/24h)	4.5
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 / 152g
Cabinet	
Door (pcs)	Self-closing Foamed Heating Glass Door / 1
Inner Door (pcs)	PMMA / 6
Fixed / Adjustable Shelf (pcs)	0 / 6
Basket (pcs)	30
Interior Cabinet Material	304 Stainless Steel
Exterior Cabinet Material	Coated Steel
Insulation Material	PURF (δ50mm)
Door Lock	Yes
LED Lamp	Yes
Test Hole (pcs)	Φ25mm / 1
Fixed / Levelling Castors (pcs)	4 / 0
Fixed / Levelling Feet (pcs)	0 / 2
Accessories	
Voltage Stabilizer	Optional
USB Data Download Port	Yes
Remote Alarm Port	Optional
RS232 / RS485 Port	Optional

Temperature Datalogger	Optional
Temperature Printer	Yes
Shipping	
Package	Plywood box with pallet
Shipping Weight	135 kgs
Shipping Size (W×D×H)	890×650×2100
Shipping Volume	1.21 CBM