4~+22°C

Biomedical Portable Cooler

Model: MBC-4V700LC

(Version: 2024-5)

Applications

Biomedical portable coolers are specially designed to store and transport blood, serum, plasma, vaccines, reagents, and special medicines for epidemic prevention stations, blood banks, health centers, CDC, animal husbandry bureau, army, and pharmaceutical companies.

Features

- Accurate microprocessor controller especially for biomedical use and resolution of 0.1°C.
- Suggested ambient temperature: +10~32°C.
- Integrated and strong PE body to resist impact and corrosion.
- High-efficiency air cooling system to ensure good temperature uniformity.
- Auto switch cooling and heating system to ensure the inside temperature in all climatic conditions.
- Wide voltage design, able to be used when the voltage is between 187V~242V AC and 12V/24V DC.

Security

- Standard protective basket to prevent the samples from being frozen off by the evaporator.
- 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 fail.

Humanized design

- Different power ports for AC/DC connection to avoid wrong operation.
- Stackable, friendly for space-limited place.

Specifications

Model NO.	MBC-4V700LC
Main Specifications	
Temperature Range	4 ~ 22℃
Ambient Temperature	10~32℃
Capacity (L/Cu. Ft.)	700 / 24.72
Interior Dimensions (W×D×H) mm	939×973×863
Exterior Dimensions (W×D×H) mm	1080×1029×1080
Weight	162 kgs
Noise	50 dB
Control and Power	
Controller	Microprocessor
Display	Digital
Sensor	NTC
Voltage and Frequency	AC 187~242V, 50/60Hz; DC 12V, 24V
Power	C: 350 W; H: 200 W
Electric Current	DC 12V, 25 A; DC 24V, 13 A; AC 220V, 1.6 A
Power Consumption (kWh/24h)	3.95
Audible and Visual Alarms	
High / Low Temp. Alarm	Yes
Power Failure Alarm	Yes, 8h
Sensor Error Alarm	Yes
Controller Error Alarm	Yes
Refrigeration	
Refrigeration Type	Forced-air Cooling
Defrost	Auto
Compressor (Brand/pcs)	Chinese Brand / 1
Refrigerant / Weight (kgs)	R134a / 242g
Cabinet	
Door (pcs)	PE Foamed Solid Door / 1
Fixed / Adjustable Shelf (pcs)	0 / 2
Basket (pcs)	15
Interior Cabinet Material	PE
Exterior Cabinet Material	PE
Insulation Material	PURF (δ68mm)
Fixed / Levelling Feet (pcs)	4 / 0
Accessories	
Voltage Stabilizer	Optional
USB Data Download Port	Optional
Temperature Datalogger	Optional
Shipping	
Package	Carton box with pallet
Shipping Weight	209 kgs
Shipping Size (W×D×H)	1140×1190×1150
Shipping Volume	1.56 CBM