



2~8°C

# Biomedical Refrigerator (Forced-air Cooling System)

Model: MPC-5V416A

(Version: 2024-5)



## Applications

2~8°C biomedical refrigerators are specially designed to store medicines, vaccines, reagents, and bio-medical products.

## Features

- Microprocessor control, ensure the inside temperature is within 2~8°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.
- Foamed solid door provides dark storage condition.
- Wide available voltage range: 187V~242V.

## Security

- Safety door lock and controller password to prevent unauthorized access.
- 8h 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 for easy storage.
- 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.	MPC-5V416A
<b>Main Specifications</b>	
Temperature Range	2 ~ 8 °C
Ambient Temperature	10~32°C
Capacity (L/Cu. Ft.)	416 / 14.69
Interior Dimensions (W×D×H) mm	685×429×1380
Exterior Dimensions (W×D×H) mm	785×595×1927
Weight	114 kgs
Noise	50 dB
<b>Control and Power</b>	
Controller	Microprocessor
Display	Digital
Sensor	NTC
Voltage and Frequency	187~242V, 50/60Hz
Power	273 W
Electric Current	1.68 A
Power Consumption (kWh/24h)	2.41
<b>Audible and Visual Alarms</b>	
High / Low Temp. Alarm	Yes
Power Failure Alarm	Yes, 8h
Sensor Error Alarm	Yes
Controller Error Alarm	Yes
Door Ajar Alarm	Yes
<b>Refrigeration</b>	
Refrigeration Type	Forced-air Cooling
Defrost	Auto
Compressor (Brand/pcs)	Chinese Brand / 1
Refrigerant / Weight (kgs)	R290 / 48g
<b>Cabinet</b>	
Door (pcs)	Foamed Solid Door / 1
Fixed / Adjustable Shelf (pcs)	0 / 5
Interior Cabinet Material	Coated 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
<b>Accessories</b>	
Voltage Stabilizer	Optional
USB Data Download Port	Optional
Remote Alarm Port	Optional
RS232 / RS485 Port	Optional
Temperature Datalogger	Optional
Temperature Printer	Optional
<b>Shipping</b>	
Package	Carton box with pallet
Shipping Weight	133 kgs
Shipping Size (W×D×H)	890×655×2100
Shipping Volume	1.22 CBM