



-40°C

Biomedical Freezer

Model: MDF-40V936

(Version: 2024-5)



Applications

The -40 °C medical deep freezers are designed to store vaccines, blood plasma, reagents, and many other biological materials which are widely used in research institutions, clinics, and medical fields.

Features

- Microprocessor control, ensure good inner temperature uniformity, accuracy is 0.1°C
- HC green refrigerant is energy-saving and environmentally friendly.
- Wide available voltage range: 187V~242V.

Security

- Safety door lock and controller password to prevent unauthorized access.
- Built-in backup battery to display temperature and alarms when power failure or system error.
- Visual and audible alarm system.
- Inner doors to prevent cold air from leaking out when the outside door is opening.
- 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

- Adjustable shelves for easy storage.
- Casters with stoppers for easy moving and fixation.



Specifications

Model NO.	MDF-40V936
Main Specifications	
Temperature Range	-20 ~ -40 °C
Ambient Temperature	10~32°C
Capacity (L/Cu. Ft.)	936 / 33.1
Interior Dimensions (W×D×H) mm	1000×700×1335
Exterior Dimensions (W×D×H) mm	1304×1000×2017
Weight	378 kgs
Noise	50 dB
Control and Power	
Controller	Microprocessor
Display	Digital
Sensor	PTC
Voltage and Frequency	187~242V, 50/60Hz
Power	1000 W
Electric Current	5.8 A
Power Consumption (kWh/24h)	14.5
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
Abnormal Voltage Alarm	Yes
Abnormal Ambient Temp. Alarm	Yes
Battery Error Alarm	Yes
Condenser Error Alarm	Yes
Refrigeration	
Refrigeration Type	Direct Cooling
Defrost	Manual
Compressor (Brand/pcs)	SECOP / 2
Refrigerant / Weight (kgs)	R404A / 320g
Cabinet	
Door (pcs)	Foamed Solid Door / 1
Inner Door (pcs)	Foamed Solid Door / 4
Fixed / Adjustable Shelf (pcs)	0 / 3
Interior Cabinet Material	304 Stainless Steel
Exterior Cabinet Material	Coated Steel
Insulation Material	PURF (δ120mm)
Door Lock	Yes
Test Hole (pcs)	Φ18mm / 1
Fixed / Levelling Castors (pcs)	0 / 4
Accessories	
Voltage Stabilizer	Optional
USB Data Download Port	Yes
Remote Alarm Port	Yes
RS232 / RS485 Port	Optional
Temperature Datalogger	Optional
Temperature Printer	Optional
Temperature Chart Recorder	Optional
Shipping	
Package	Plywood box with pallet
Shipping Weight	413 kgs
Shipping Size (W×D×H)	1350×1080×2150
Shipping Volume	3.13 CBM