-40°C
Biomedical Freezer

Model: MDF-40V328E

(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-40V328E
Main Specifications	
Temperature Range	-20~-40℃
Ambient Temperature	10~32 ℃
Capacity (L/Cu. Ft.)	328 / 11.58
Interior Dimensions (W×D×H) mm	508×455×1393
Exterior Dimensions (W×D×H) mm	673×676×1886
Weight	113 kgs
Noise	48 dB
Control and Power	
Controller	Microprocessor
Display	Digital
Sensor	NTC
Voltage and Frequency	220V, 50/60Hz
Power	300 W
Electric Current	1.6 A
Power Consumption (kWh/24h)	4
Audible and Visual Alarms	
High / Low Temp. Alarm	Yes
Power Failure Alarm	Yes, 8h
Sensor Error Alarm	Yes
Controller Error Alarm	Yes
Door Ajar Alarm	Yes
Refrigeration	
Refrigeration Type	Direct Cooling
Defrost	Manual
Compressor (Brand/pcs)	CUBIGEL / 1
Refrigerant / Weight (kgs)	R290 / 78g
Cabinet	
Door (pcs)	1 / Foamed Solid Door
Inner Doors (pcs)	5 / Coated Steel
Fixed / Adjustable Shelves (pcs)	0 / 4
Interior Cabinet Material	Coated Steel
Exterior Cabinet Material	Coated Steel
Insulation Material	PURF (82.5mm)
Fixed / Levelling Castors (pcs)	4 / 0
Accessories	
Door Lock	Yes
Test Hole (pcs)	1, Φ25mm
USB Data Download Port	Optional
Remote Alarm Port	Optional
RS232 / RS485	Optional
Temp. Datalogger	Optional
Shipping	
Shipping Weight	131 kgs
Shipping Size (W×D×H) mm	770×770×2040
Shipping Volume	1.21 CBM