

+2~8°C/-40°C



Biomedical Combined Refrigerator & Freezer

Model: MRF-40-528

(Version: 2024-5)



Applications

Combined Refrigerator & Freezer are specially designed to store medicines, vaccines, blood plasma, reagents, and many other biological materials which are widely used in research institutions, clinics, and electronic and medical fields.

Features

- Microprocessor control, ensure good inner temperature uniformity, accuracy is 0.1°C
- Double outside doors and two independent chambers.
- 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.
- 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

- Adjustable shelves (Refrigerator) and drawers (Freezer) for easy storage.
- Auto on/off LED light with manual switch on the control panel (Only for refrigerator).
- Auto on/off cooling fan to prevent cold air from leaking out when the door is opening.
- Casters and adjustable feet for easy moving and fixation.



Specifications

Model NO.	MRF-40-528
Main Specifications	
Temperature Range	F: -20 ~ -40 °C; R: 2 ~ 8 °C
Ambient Temperature	10 ~ 32°C
Capacity (L/Cu. Ft.)	R: 273 / 9.64; F: 255 / 9
Interior Dimensions (W×D×H) mm	R: 765×640×635; F: 651×636×635
Exterior Dimensions (W×D×H) mm	900×818×1870
Weight	174 kgs
Noise	50 dB
Control and Power	
Controller	Microprocessor
Display	Digital
Sensor	NTC
Voltage and Frequency	187~242V, 50/60Hz
Power	527 W
Electric Current	3.02 A
Power Consumption (kWh/24h)	7.06
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
Abnormal Ambient Temp. Alarm	Yes
Refrigeration	
Refrigeration Type	R: Forced-air Cooling; F: Direct Cooling
Defrost	R: Auto; F: Manual
Compressor (Brand/pcs)	Chinese Brand / 2
Refrigerant / Weight (kgs)	R: R290 / 28g; F: R290 / 56g
Cabinet	
Door (pcs)	R: Foamed Glass Door / 1; F: Foamed Solid Door / 1
Fixed / Adjustable Shelf (pcs)	3 / 2
Drawer (pcs)	9
Interior Cabinet Material	Coated Steel
Exterior Cabinet Material	Coated Steel
Insulation Material	R: PURF (δ38mm); F: PURF (δ95mm)
Door Lock	Yes
LED Lamp	R: Yes; F: -
Test Hole (pcs)	Φ25mm / 2
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	Optional
Shipping	
Package	Carton box with pallet
Shipping Weight	204 kgs
Shipping Size (W×D×H)	921×960×1950
Shipping Volume	1.72 CBM