MEDICAL GRADE

METHER

TEMP CONTROL SPECIALIST

BIOMEDICAL COMBINED REFRIGERATOR & FREEZER

2~8℃
-40℃

2~8℃
-25℃

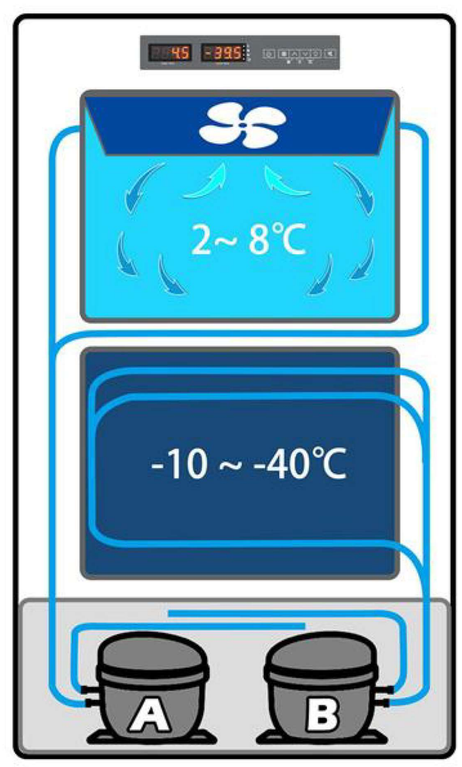
Safe | Stable | Eco | CFC-free | Alarms

COMBINED REFRIGERATOR & FREEZER

TEMPERATURE CONTROL TECHNOLOGY

» Dual cooling system

This unit is equipped with two independent cooling systems, one for the upper compartment and one for the lower compartment. Each system has its own independent control system, allowing for individual temperature settings.



Refrigerator Compartment

- Forced air cooling system
- Fan-assisted circulation
- Uniform air distribution

Freezer Compartment

- Static cooling system
- Copper tube evaporator
- Pressure equalization

» Ultimate uniformity

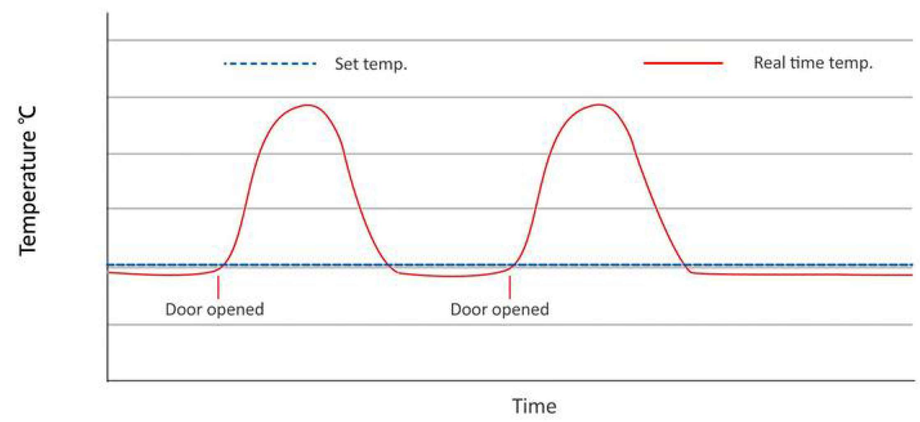
The chambers maintain temperatures within +/-3°C throughout the entire compartment, ensuring confidence that items are stored at the correct temperature regardless of their placement in the chamber.

» Excellent insulation performance

All units are filled with thick, high-density PU foam, providing excellent insulation.

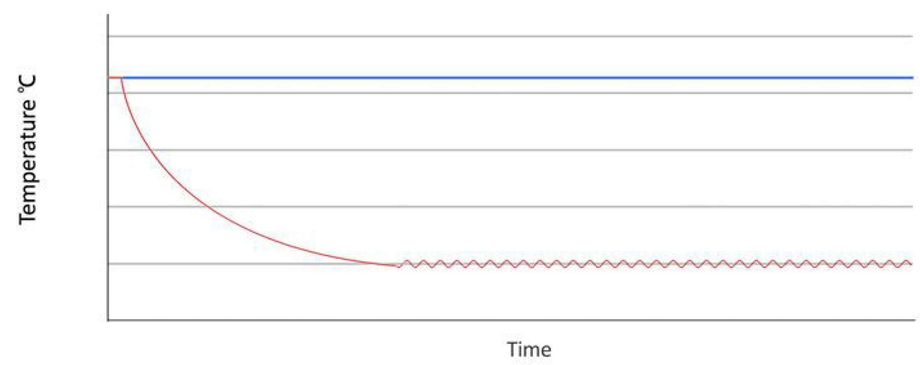
» Fast recovery

Faster temperature recovery even after prolonged door openings. The high efficient cooling system maintains consistent temperatures, ensuring that preservations are stored at the right temperature even when the unit is opened frequently.



» Optimized fluctuation

Maintain superior temperature stability, avoiding rapid and significant changes in temperature. This ensures that samples, medications, vaccines, and blood therapies are consistently stored in their optimal environment, without compromise.



COMBINED REFRIGERATOR & FREEZER

Safe storage

to safeguard patient samples and ensure medications remain effcacious.

Presice temp control

to ensure stable and accurate temperatures in the chamber

User-friendly

to bring convenience and easy maintenance to users

Eco-friendly

to reduce operating costs, privide a quiet working environment and support sustainability initiatives

GUIDE TO MODELS

Find out the model you need quickly

MRF-25V368

- **M**edial **R**efrigerator and **F**reezer
- **V**ertical type
- Total **368** Liters
- Freezer temperature - **25**℃

ECO-FRIENDLY & USER-FRIENDLY

Natural Refrigerants

Sustainable U.S. EPA, SNAP, and EU F-Gas compliant natural refrigerants and foaming agents support sustainability initiatives. The cooling system uses **R290** **or** **R600a** which are are environmentally friendly, having no impact on ozone depletion and a very low Global Warming Potential (GWP) grade.

High-efficiency cooling system

Operating at a low noise level while still providing efficient cooling, our advanced cooling technology offers lower energy consumption and better user experiences.

MRF-40V528

Locks with keys

Cold air distribution system
for the refrigerator

Glycerine box with sensor inside

Removable drawers

Built-in locks

Ensures the security of your preservations

LED lighting

Smart lighting on and off for convenient access

Fan-assisted evaporator

Highly efficient evaporator with high airflow fans

Glycerine box

Precise temperature control and minimal fluctuations

Adjustable shelves

Easy to remove and install

Removable drawers

For organizing your storage

Padlock hole

For fixing additional padlocks

Universal casters

Brake & leveling feet for easy
movement and stable fixation

MRF-40V528

MRF-25V528

MRF-25V528

Z06-sx Controller

Optional Z06 controller with internal USB data logger

Heated glass

Prevent fogging and condensation

Access ports

Each compartment with 1 dia.25mm ports for additional monitoring device

Ergonomic handles

Easy open for one-hand operation

Equalization Port

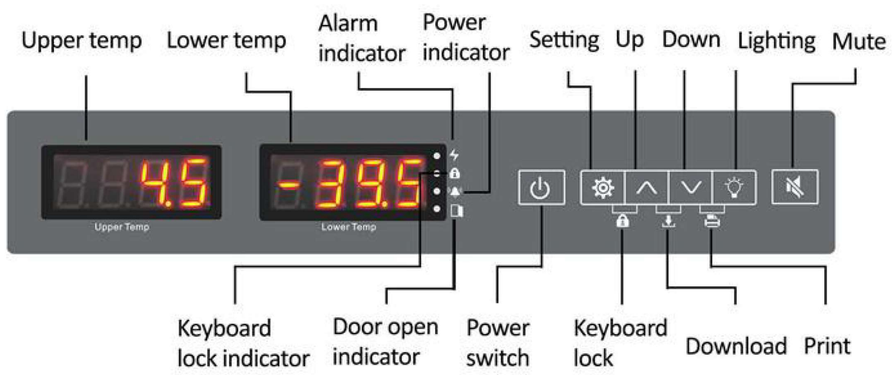
Allow a quick re-access to your preservations

Sealing gaskets

Long-lasting magnetic sealing gasket locks in cold air

USB interface

Temperature recording and alarm data can be exported to PDF or Excel file



Z06-sx Controller

The temperature controller can accurately control the temperature of the two compartments and provide audiable and visual alarms.

- Pre-set : Refrigerator @ 5°C, Freezer @-25°C/-40°C.
- The precision of display and control is 0.1°C.
- Audible and visual alarms : High/low temp, power failure, sensor error, door ajar, ambient temp, backup battery failure, and condenser fault.

Easy open handles

USB interface

FEATURES

» Forced air circulation

The forced-air circulation system of the refrigerator maintains uniform chamber temperatures and provide fast temperature recovery after door openings. The refrigerator compartment does not require a defrost cycle to maintain a constant temperature, ensuring that items are always stored at the desired temperature without interruption.

» Copper tube evaperator

The high-quality copper tube evaporator wrapped around the freezer cabinet improves the refrigeration efficiency of the cabinet and ensures more uniform temperature inside.

» Multiple applications

This type of refrigerator has a wide range of applications and provides practical value in clinics, blood stations, biological laboratories, hospital testing departments. It is suitable for applications with limited space but a wide variety of storage.

» Variable large space

Refrigerator (273 liters) is equipped with 3 coated wire shelves and freezer (255 liters) with 2 coated wire shelves and 9 removable drawers.

MRF-40V368 / MRF-25V368

MRF-40V368

MRF-25V368

FEATURES

» Dual cooling system

The specially designed dual-system biomedical freezer contains two independent refrigeration systems (two compressors, two condensers, two control systems).

» Z06-sx Controller

The temperature controller can accurately control the temperature of the two compartments and provide audiable and visual alarms.

» Variable space

Refrigerator (183 liters) is equipped with 3 coated wire shelves (adjustable) and freezer (185 liters) with 2 coated wire shelves and 9 removable drawers.

» Internal USB data logger

For monitoring, recording and exporting temperature & alarm data through a built-in USB interface.

» Foamed glass door

The refrigerator compartment is equipped with a foamed glass door, which is electrically heated and has anti-fog and anti-condensation features.

» High-quality materials

The unit are made of high-quality coated cold-rolled steel both exterior and interior, which is antibacterial, anti-corrosive, and easy to clean.

Easy open handles

Removable drawers

MRF-25V300

MRF-25V300

FEATURES

» Precise Controller

The temperature controller can accurately control the temperature of the two compartments and provide audiable and visual alarms.

- Pre-set : Refrigerator @ 5°C, Freezer @-25°.
- The precision of display and control is 0.1°C.
- Audible and visual alarms : High/low temp, power failure, sensor error, door ajar, and controller failure.

» Forced air circulation

The forced-air circulation system of the refrigerator maintains uniform chamber temperatures and provide fast temperature recovery after door openings. The refrigerator compartment does not require a defrost cycle to maintain a constant temperature, ensuring that items are always stored at the desired temperature without interruption.

Smart lighting on and off for convenient access

» Variable space

Refrigerator (198 liters) is equipped with 2 coated wire shelves (adjustable) and freezer (102 liters) with 3 drawers.

» Lockable cabinets

The unit standard equipped with a built-in lock, provides a secure storage space for your preservations.

3-Drawer design in the freezer

» High-quality materials

The extrior is made of high-quality coated cold-rolled steel and interior made of HIPS.

SPECIFICATION SHEET

	Model	MRF-25V300	MRF-25V368	MRF-25V528	MRF-40V368	MRF-40V528
Spesifications	Shelf（drawer）	Shelves/2 and draws/3	Shelves//2 Drawer/6	Shelves//3 Drawer/9	Shelves//2 Drawer/6	Shelves//3 Drawer/9
	Cooling method	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost	Manual	Manual	Manual	Manual	Manual
	Refrigerant Type	R290	R290	R290	R290	R290
	Refrigerant Weight(g)	Upper：44 Lower：30	Upper：30 Lower：44	Upper：28 Lower：58	Upper：30 Lower：48	Upper：30 Lower：48
	Power consumption(kWh/24h)	3.3	4.38	5.56	6.9	7.06
	Noise（db)	49	50	50	50	50
	Ambient temperature（℃）	10～32℃	10～32℃	10～32℃	10~32℃	10~32℃
	Temperature range（℃）	F:-10℃～-25℃ R:2℃～8	F:-10℃～-25℃ R:2℃～8	F:-10℃～-25℃ R:2℃～8	F:-20℃～-40℃ R:2℃～8	F:-20℃～-40℃ R:2℃～
Cooling system	Compressor brand/QTY	China brand 2	China brand 2	CUBIGEL/2	CUBIGEL/1;HUAYI/1	CUBIGEL/2
	Condenser	Wire tube	Wire tube	Wire tube	Wire tube	Wire tube
	Sensor	NTC	NTC	NTC	NTC	NTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	Digital Display	Dual Independent	Dual Independent	Digital display	Dual Independent
Power	Voltage/frequency（V/Hz)	220V/50Hz	220V/50Hz	220V/50Hz	220/50Hz	220V/50Hz
	Power（W)	349W	363	431W	458	527W
	Current（A)	2.5	2.81	2.9	2.45	3.02
Materials	Inside material	Engineering plastics	SPCC sprayed steel	SPCC sprayed steel	Spray coated steel	SPCC sprayed steel
	Outside material	SPCC sprayed steel	SPCC sprayed steel	SPCC sprayed steel	Spray coated steel	SPCC sprayed steel
	Insulation	PURF	PURF	PURF	PURF	PURF
Measurement	Capacity（L/cu.ft)	R:198 F:102	R:183 F:185	R:273 F:255	368/12.99	R:273 F:255
	NT./GT.（kg)	100/120	130/170	168/188	145/175	174/194
	Exterior size(W*D*H)(mm)	650×620×1980	720×830×1870	900×818×1870	720*830*1870	900×818×1870
	Interior size(W*D*H)(mm)	R:565*480*759（mm） F:461*465*600（mm）	R:580*626*625（mm） F:466*636*625（mm）	R:765×640×635； F:651×636×635；	F:580×626×625； R:466×636×625	R:765×640×635； F:651×636×635；
	Package size(W*D*H)(mm)	706*674*2020	780*920*2000	921×960×1950	780×920×2000	921*960*1950
	CBM	1	1.41887	1.724112	1.43	1.724112
	20GP/40GP/40HQ	24/48/48	14/39/39	12/24/24	14/39/39	12/24/24
Alarms	High/low temperature	Y	Y	Y	Y	Y
	Power failure	Y	Y	Y	Y	Y
	Sensor error	Y	Y	Y	Y	Y
	Filter check	/	/	/	/	/
	Temperature controller failure	/	Y	Y	Y	Y
	Low battery	/	/	/	/	/
	Condenser clean	/	Y	Y	Y	Y
	High ambient temperature	Y	Y	Y	Y	Y
	Door ajar	Y	Y	Y	Y	Y
	Power failure backup	8H	8h	8h	8h	8h
Accessories	Caster	Y	Y	Y	Y	Y
	Test hole	/	2/25MM	2/25MM	2/25MM	2/25MM
	USB port	/	Y	Y	Y	Y
	Data logger	Optional	Optional	Optional	Optional	Optional
	Remote alarm	/	Y	Y	Y	Y
	Certification	ISO9001、13485、14001	ISO9001、13485、	ISO9001、13485、	ISO9001、13485、	ISO9001、13485、

METHER

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