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METHHER

-86°C Smart Series

Ultra-low Temperature freezer

Smart storage | Ultimate safety



3rd Gen

DUAL COOLING TECHNOLOGY

Designed for Bio-banks



Smart ULT freezer

Intelligent management of biological samples

Your Private Bio-Bank



MDF-86V600L

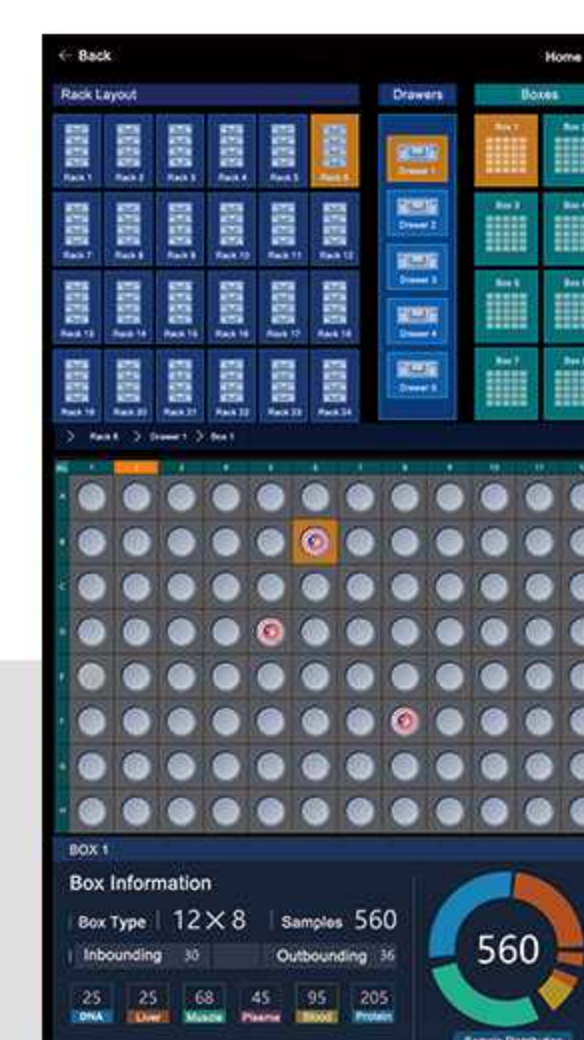


MDF-86V860L



13.3" HD LCD Screen

- Better human-computer interaction
- More user-friendly UI for convenient operation



Smart Management System

- Scan-in and Scan-out management
- Easier sample access
- Samples are classified



Dual Cooling Technology

- 2 independent cooling system provides Max safety for samples
- Better cooling performance and more energy-saving

SUPER COOLING



Dual cooling systems work together to cool down from 25°C to -86°C in 3 hours, with the lowest temperature reaching -90°C. Equipped with V.I.P panels, it provides superior thermal insulation for enhanced performance.

INNOVATIVE APPEARANCE



13.3-inch large screen design for better human-machine interaction experience, with multi-functionality and intelligent features.

SAFE STORAGE



Equipped with 2independently cooling systems, ensuring system redundancy and sample storage safety. Real-time monitoring and data backup are available through the cloud platform.

USER MANAGEMENT



Permission management with customizable authorization. multiple login modes such as password, NFC card, fingerprint, and facial recognition. Records all user login, logout, and operation information.

IoT & Cloud



Standard WiFi and Bluetooth connectivity, optional 4G and wired connections. Cloud storage ensures long-term, secure, and extensive storage of device temperature, status, and alarm data, accessible from all three platforms, and can be directly downloaded via USB port on a computer or device.

Model	Capacity	Temperature	Exterior Size W*D*H(mm)	Inner Size W*D*H(mm)	Exterior Material	Interior Material
MDF-86V600L	600L	-40°C~-86°C	891*1155*1994.5	606*738*1310	Coated Steel	Stainless Steel
MDF-86V860L	860L	-40°C~-86°C	179*1135*1994.5	894*718*1310	Coated Steel	Stainless Steel
N.W(kg)	Power(W)	Ambient	Power supply	Insulation	Boxes	Samples(2ml)
303	1500	10~32°C	220V/50Hz	PURF+VIP	400	40,000
391	1700	10~32°C	220V/50Hz	PURF+VIP	600	60,000

METHER

-86°C

Ultra-low Temperature Freezers



Life Science



Bio-banking



Blood bank



Pharmaceutical



Clinical



Vaccines

A Reliable ULT Freezer

6 criteria to help you find a good ULT freezer



User-friendly



Stable performance



Excellent insulation



Energy-saving



CFC-free



Quiet operation



7" touch screen controller



Single-handed operation handle



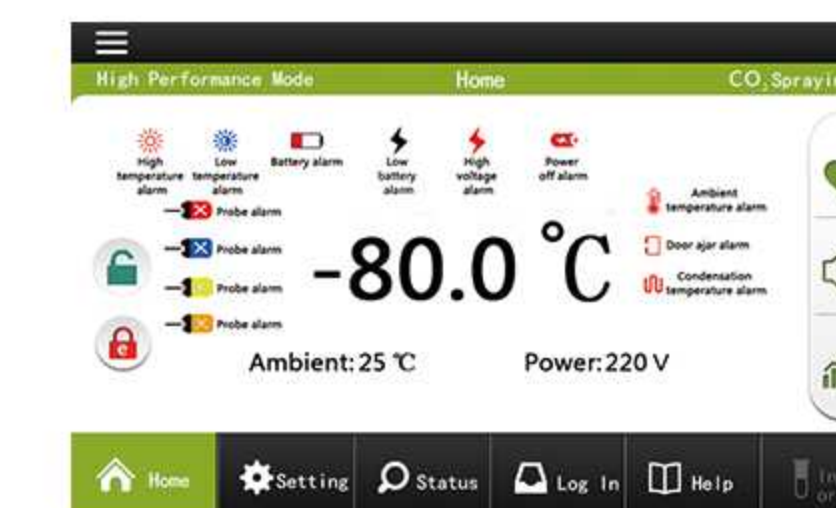
Standard built-in door lock & padlock port



Easy-to-clean condenser filter.



MDF-86V588D



Complete alarm system



Real time monitoring



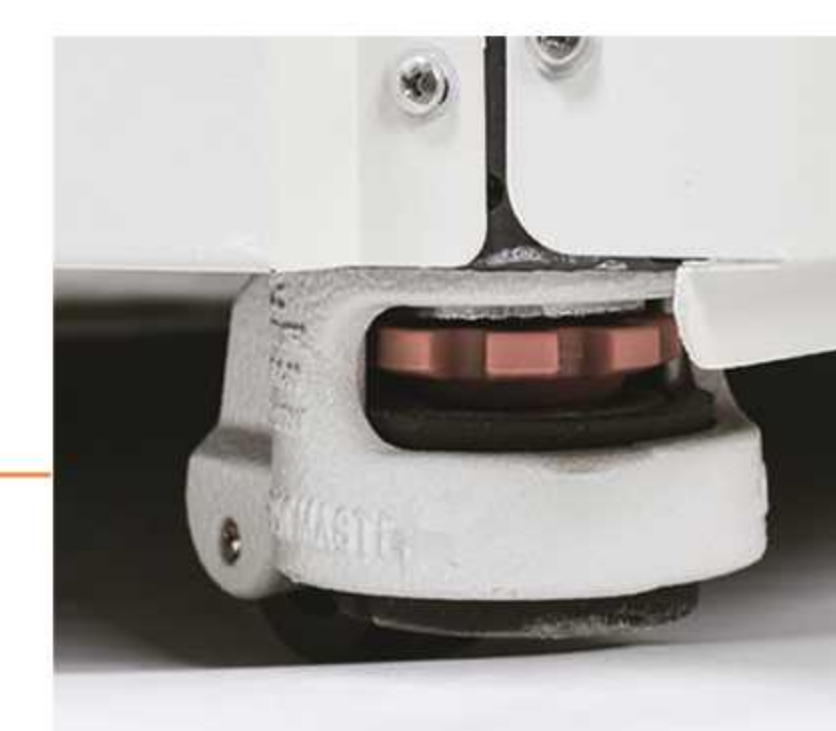
File-box for keeping Logbooks



Easy access USB interface



Whiteboard design



Heavy duty leveling castors

METTER



Cooling performance

- High-performance reliable compressors
- Excellent performance even in extreme ambient conditions
- Low noise operation
- CFC-free & HCFC-free refrigerant



Intelligent Controller

- Eye-level 7" touch screen for simple and intuitive operation
- Integrated temp. display, graphs, unit status, and events monitoring
- Complete alarm system escorts your valuable bio-samples
- Easy access USB port for downloading 10 years temperature and alarm data



Advanced Insulation

- Internal V.I.P panels reduce cold loss
- CFC-free high-density PU foam
- Better warm up time keeps the samples cold as long as possible once power failure



User-friendly Design

- Automatic vacuum release port allows users to open&close the door frequently
- Ergonomic one-handed operation handle
- File box design for keeping daily files
- Standard built-in door lock and padlock port
- Built-in whiteboard design
- Easy moving and installing universal castors
- Quick release condenser filters



Complete Alarm System

- High/low temperature, Ambient temperature
- Power failure, Controller failure
- Abnormal voltage, Low battery
- Sensor error, Condenser error
- Door ajar, Filter screen check
- Backup system (alarm) for 72 hours



Constructions

More scientific and advanced design concepts

Stepped door frame design

Reduce cold air leakage and ice buildup



port

Dia. 25mm for extra monitoring device



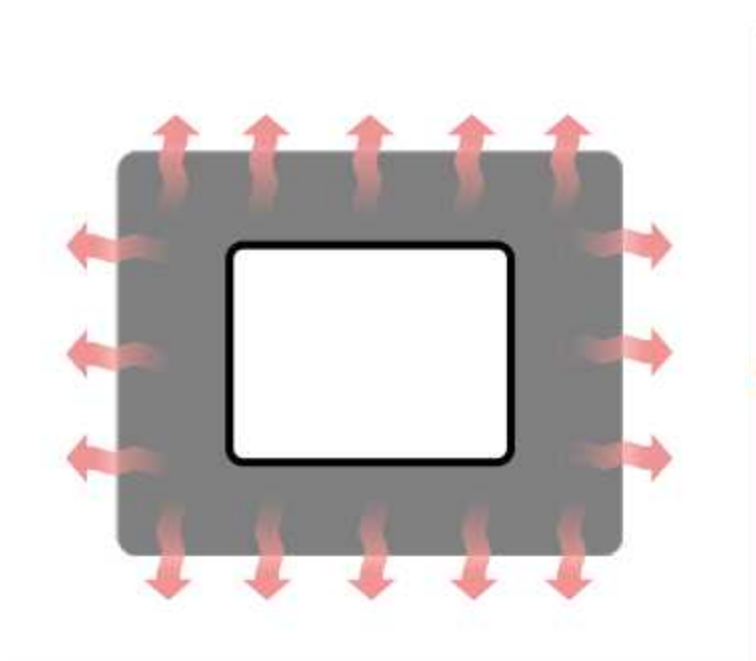
Enhanced shelf design

Each SS shelf supports 50kg



Complete SS chamber

Robust stainless steel body for high sample safety and easy cleaning



Door frame heating

Effectively prevents ice buildup



MDF-86V838D



Detachable design

Inner doors can be easily removed and cleaned



Multi-point gaskets

Keeping heat out and reducing frost build-up, the multiple points of compression lead to a longer-lasting, tighter seal for better performance



Vacuum heating release port

Pressure equalization port for quick re-access to samples



Inner door gaskets

Low temp. resistance flexible silicone sealings reduce cold leakage



Lock the cold air

Inner door closing pressure can be adjusted by the handle



Compartment doors

Stainless steel and 27mm thick PU foam-filled innerdoors for better insulation



Dual Cooling Series

Dual cooling ULT freezers are designed with 2 independent cooling systems which provides extra insurance for Bio-samples.



Designed to store a maximum capacity of
60,000 bio-samples (2ml cyo-tube)



Ultimate Safety



Dual Cooling System



Easy installation



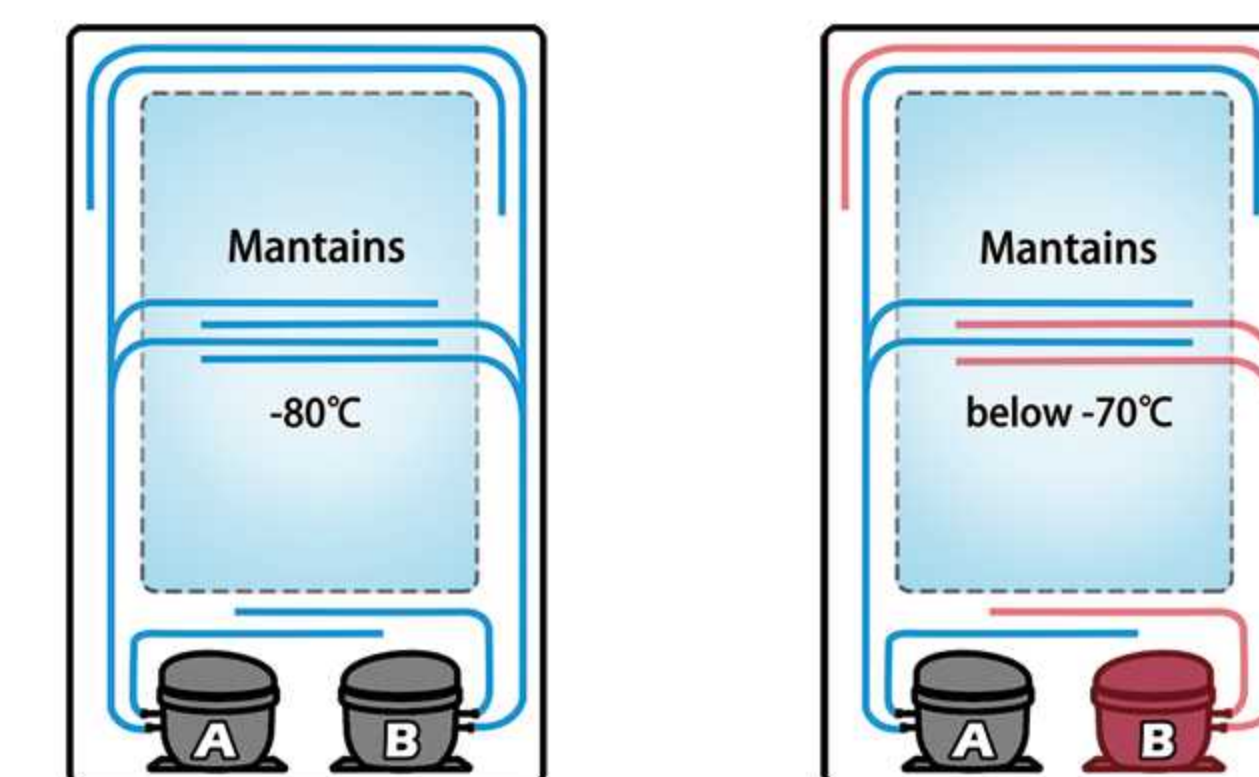
Touch Screen



Stainless Steel Interior

Dual Cooling Technology

Maximising the protection of your temperature-sensitive biological samples. Should one cooling system unexpectedly fail, the other will maintain an ultra-low temperature ensuring that the samples not put at risk separately. They are two independent refrigeration systems, each consisting of a high performance compressor, a condenser, and an evaporator. These systems can operate in coordination or independently, providing flexibility and redundancy.



Normal operation

Unexpected on A or B

Safety Matters

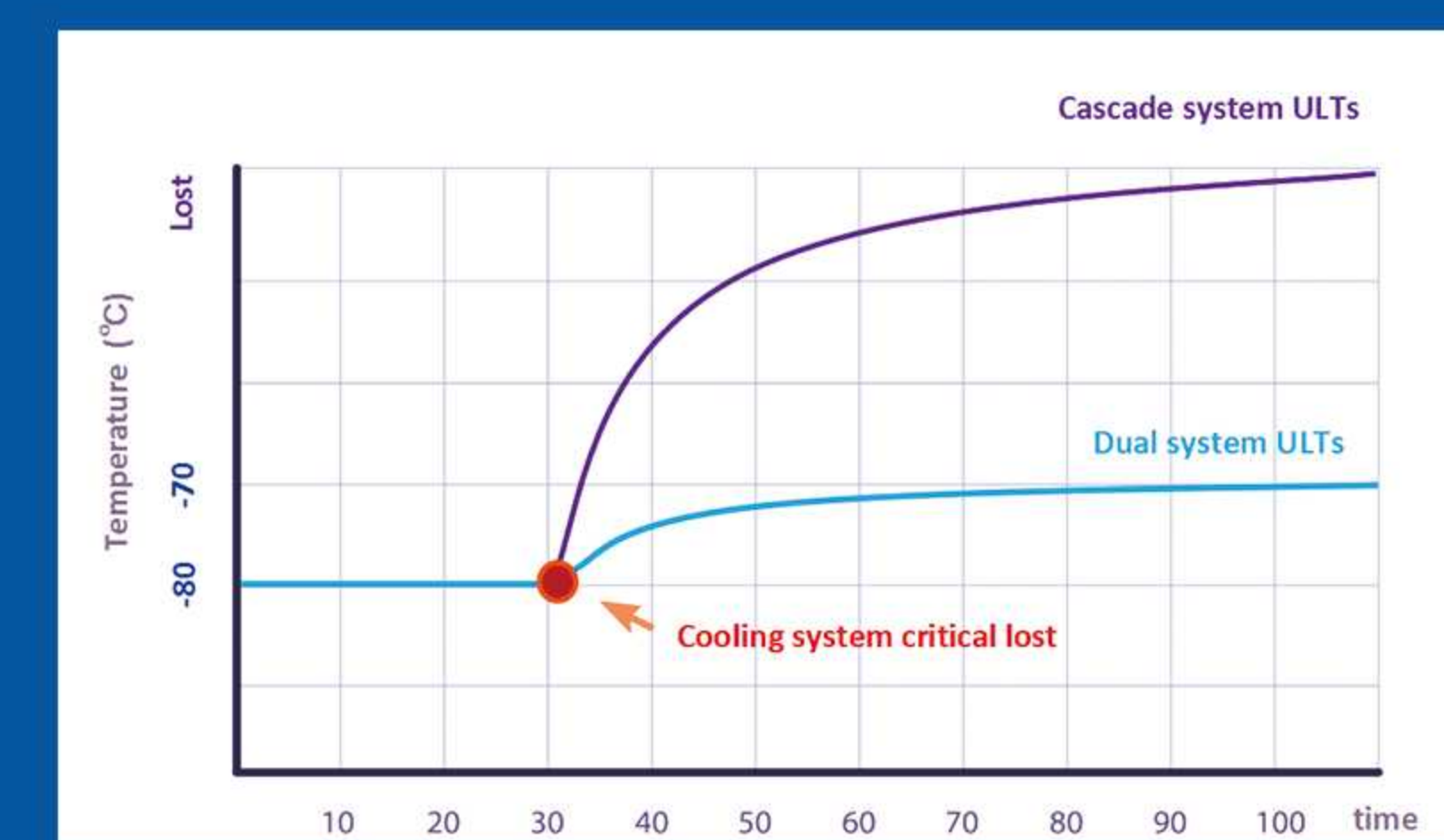
Embracing the forefront of life science, we prioritize safety above all else. With unwavering commitment, we safeguard breakthroughs and ensure the preservation of life-changing discoveries for a better future.

Cooling Matters

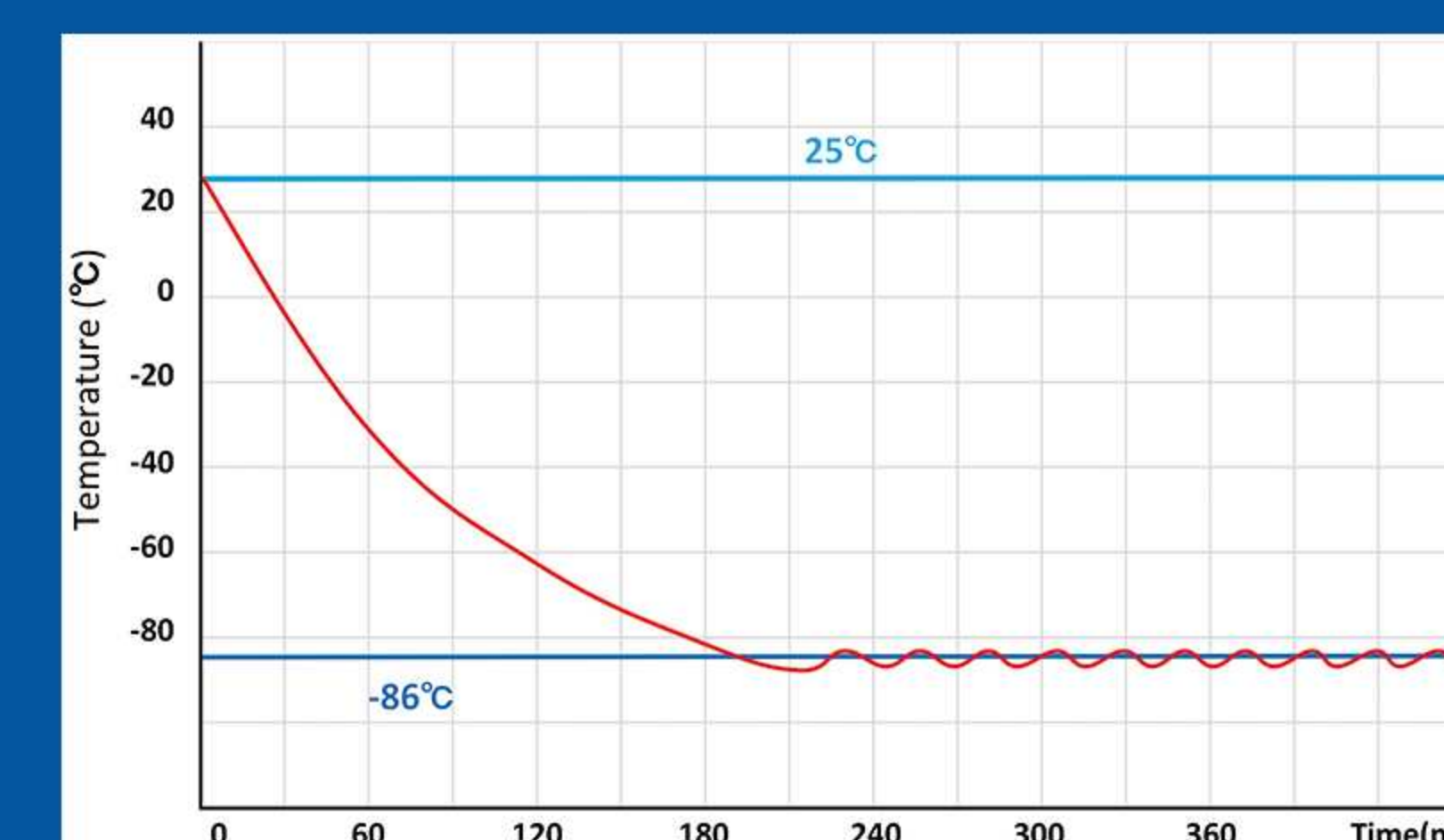
The dual cooling system enables efficient and rapid cooling in the chamber. The intelligent controller can control both cooling systems to work in coordination or independently, providing faster door recovery time.

Insulation Matters

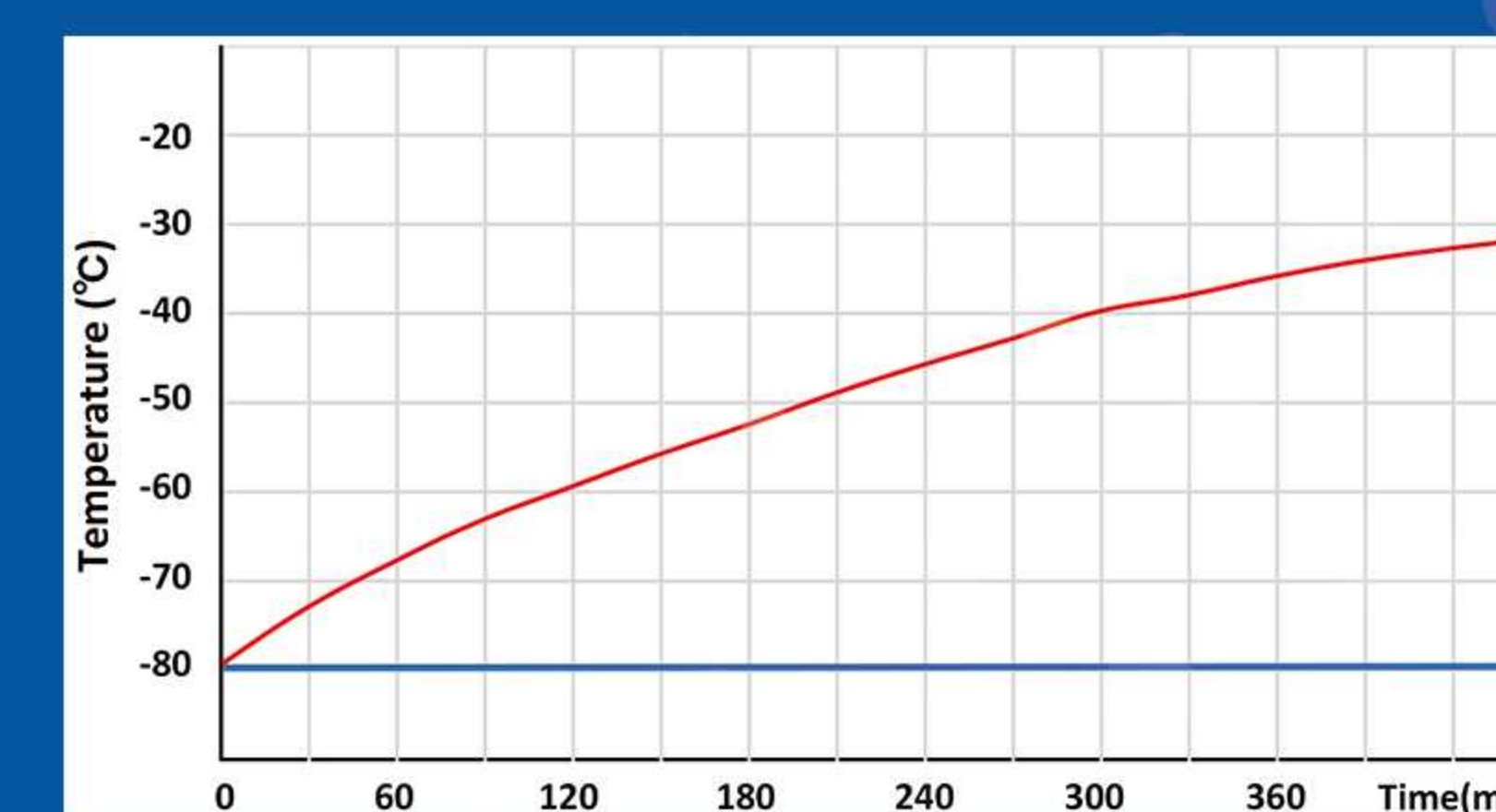
Better insulation translates to improved thermal insulation performance, enhanced energy efficiency, faster cooling capabilities. Slower warm-up times during an extended power failure buys the user time for carrying out a back-up plan.



Temp. graph if one cooling system fails



MDF-86V588D pull down times @ ambient 25°C

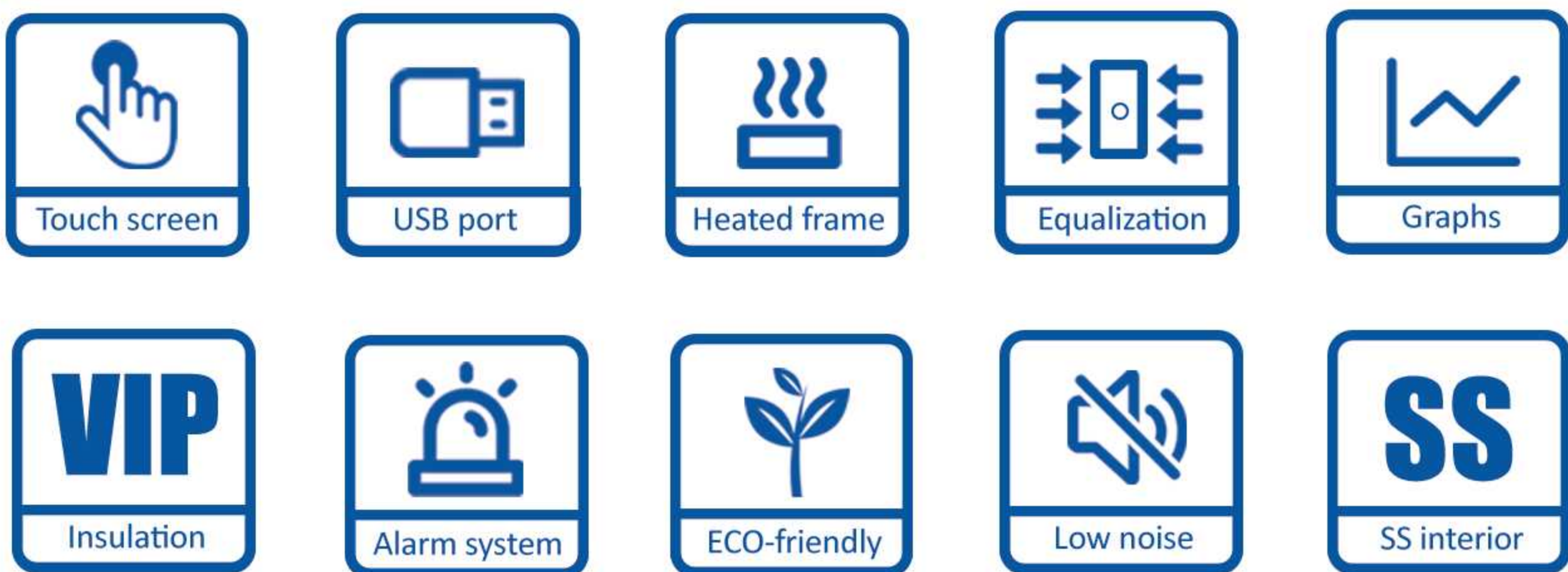


MDF-86V728D warm up times @ ambient 25°C



Dual system ULTs

408~838 liter dual system ULT freezers



Features

- Dual cooling system, direct cooling
- 7" color touch screen controller
- Exterior material: Coated steel
- Interior material: Stainless steel
- Insulation: PURF & VIP panle
- Refrigerant: R4001 (mixed gas)
- 4 compartments and 2 inner doors



Specifications

Model	MDF-86V408D	MDF-86V588D	MDF-86V690D	MDF-86V728D	MDF-86V838D
Temp.	-40~-86°C	-40~-86°C	-40~-86°C	-40~-86°C	-40~-86°C
Ambient	10~32°C	10~32°C	10~32°C	10~32°C	10~32°C
Capacity(L/cu.ft)	408/14.4	588/20.76	690/24.32	728/25.7	838/29.59
Exterior size(mm)	891*992*1945.5	891*1155*1994.5	1248*975*1994.5	1248*975*1994.5	1179*1135*1994.5
Interior size(mm)	606*575*1180	606*738*1310	935*555*1350	963*571*1350	894*718*1310
Package size(mm)	965*1040*2120	970*1190*2200	1335*1010*2200	1335*1010*2200	1275*1165*2200
N.W/G.W(kg)	235.5/278	283/345.5	316/392	316/392	310/383.5
Refrigerant	R4001	R4001	R4001	R4001	R4001

Rack layout



Model	MDF-86V408D	MDF-86V588D	MDF-86V690D	MDF-86V728D	MDF-86V838D
Racks	N3J-254D*8 N3J-244D*8	N3J-255D*16	N3J-254D*18 N3J-264D*6	N3J-254D*18 N3J-264D*6	N3J-255D*24
Boxes (2 inch)	288 pcs	400 pcs	504 pcs	504 pcs	600 pcs
Samples (2ml)	28,800 pcs	40,000 pcs	50,400 pcs	50,400 pcs	60,000 pcs

Cascade ULT Series

Cascade ULT freezers use a two-stage refrigeration system to make the cabinet reach a preset temperature.



Designed to store a maximum capacity of
60,000 bio-samples (2ml cyo-tube)



Ultimate Stable



Cascade Cooling System



Easy installation



Touch Screen



Stainless Steel Interior

Cascade Cooling System

Cascade Refrigeration System uses multiple refrigeration cycles coupled with each other via heat exchanger to improve the refrigeration effect. It uses multiple refrigerants depending on the stages. It can achieve reduced temperature and better efficiency compared to conventional refrigeration systems.



User-friendly

Automatic vacuum release port allows users to open&close the door frequently
Ergonomic one-handed operation handle
Quick-release condenser cover
Sturdy construction for longer service life

Efficient Cooling

High-performance reliable compressors with long service time
Excellent performance even in extreme ambient conditions
Low noise operation @ 50dB
CFC-free refrigerant R290&R170

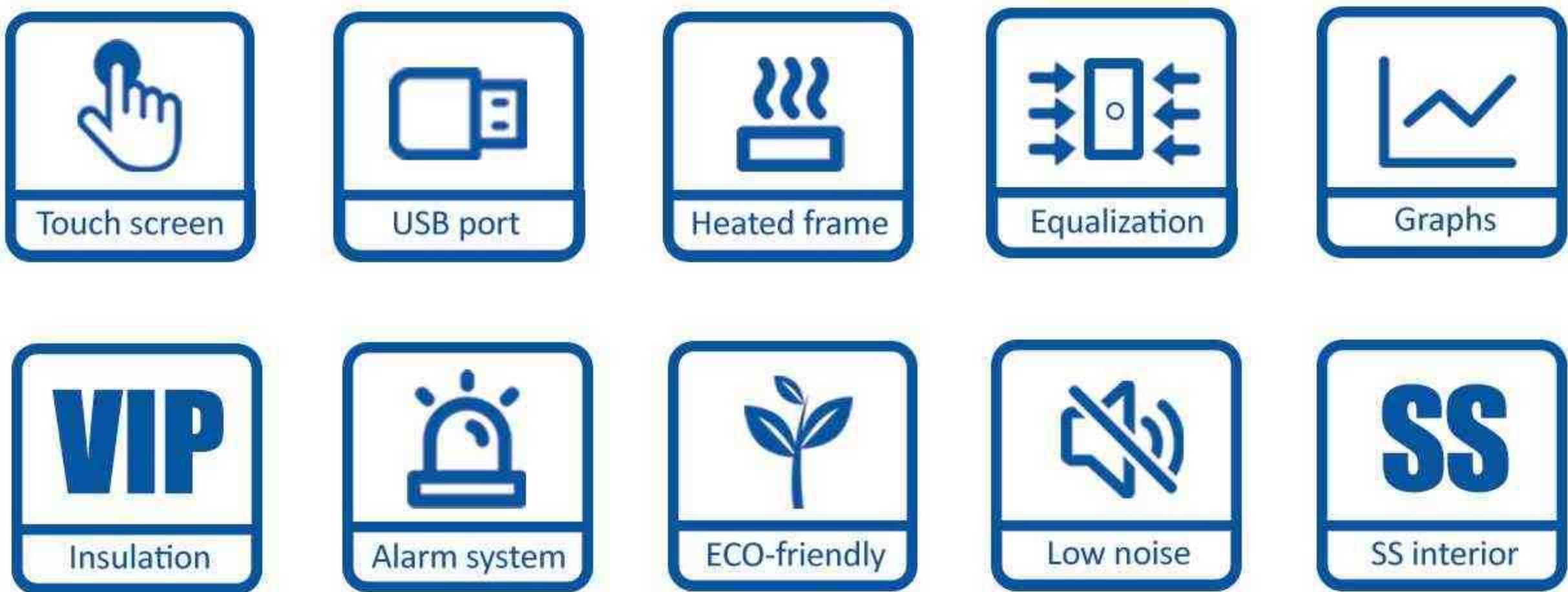
Advance Insulation

Internal V.I.P panels reduce cold loss
CFC-free high-density PU foam
Better warm up time keeps the samples cold as long as possible once power failure



Cascade system ULTs

338~838 liter cascade system ULT freezers



Features

- Cascade cooling system, direct cooling
- 7" color touch screen controller
- Exterior material: Coated steel
- Interior material: Stainless steel
- Insulation: PURF & VIP panle
- Refrigerant: R290 R170
- 4 compartments and 2 inner doors



Specifications

Model	MDF-86V338	MDF-86V408	MDF-86V588	MDF-86V728	MDF-86V838
Temp.	40~86°C	40~86°C	40~86°C	40~86°C	40~86°C
Ambient	10~32°C	10~32°C	10~32°C	10~32°C	10~32°C
Capacity(L/cu.ft)	338/11.93	408/14.4	588/20.76	728/25.7	838/29.59
Exterior size(mm)	854*1072*1907	891*992*1945.5	891*1155*1994.5	1248*975*1994.5	1179*1135*1994.5
Interior size(mm)	488*607*1140	606*575*1180	606*738*1310	963*571*1350	894*718*1310
Package size(mm)	950*1090*2080	965*1040*2110	970*1190*2200	1335*1010*2200	1275*1165*2200
N.W/G.W(kg)	296/306	292/317	335/363.5	380/400	331/408
Chart recorder	Optional	Optional	Optional	Optional	Optional
Data logger	Optional	Optional	Optional	Optional	Optional
LN ₂ /CO ₂ back up system	Optional	Optional	Optional	Optional	Optional

Rack layout



Model	MDF-86V338	MDF-86V408	MDF-86V588	MDF-86V728	MDF-86V838
Racks	N3J-244D*12	N3J-254D*8 N3J-244D*8	N3J-255D*16	N3J-254D*18 N3J-264D*6	N3J-255D*24
Boxes (2 inch)	192 pcs	288 pcs	400 pcs	504 pcs	600 pcs
Samples (2ml)	19,200 pcs	28,800 pcs	40,000 pcs	50,400 pcs	60,000 pcs



Cryogenic Freezer

Provides a safe, convenient and economical alternative long term storage solution for customers. Cryopreservation refers to the storage of a living organism, cell or tissue at ultra-low temperatures.

-150°C **LABORATORY FREEZER**



110V power system

Compatibility with 110V power is achieved for the refrigerator by either modifying the compressor or utilizing an additional transformer.



Data Logger (TLOG-100EC)

DLW-100EC is an independent monitoring device that records the realtime temperature and provides the necessary alarmsto protect your preservations.



6" Temperature Chart Recorder

The chart recorder provides an easy-to-read graph of data vs time. It is a reliable, accurate, and stable instrument, for on-the-spot written documentation of freezer chamber temperature.



TEMP&RH% controllers

Displays real-time humidity in the chamber and additional humidity sensor inside.



Printer

Built-in thermo printer or Dot matrix printer could be provided to record and print the real-time temperatures.



SS exterior and interior

For customers who need stainless steel materials, there is a special cabinet customization



Voltage stabilizer

Stabilize the input voltage of a power source to protect refrigerators from the effects of voltage fluctuations.



4G/Wifi Data Logger (RCW-360P)

A networked device that can upload real-time temperature data to the cloud. Users can monitor and manage the data through the mobile app or web-based cloud platform.



3Q qualification

Provides documentation for Installation and Operational Qualifications (IQ/OQ), as well as an outline of suggested topics for performance qualification (PQ).



Additional shelves

More shelves can be provided to meet the diverse needs of customers.



Internal water proof socket

Provide power to other electrical equipment placed in the refrigerator



Enhanced Packaging

The standard packaging is cardboard. Stronger packaging is also provided - plywood packaging.



Advanced
cooling technology



Precise
temp control



Smart controller



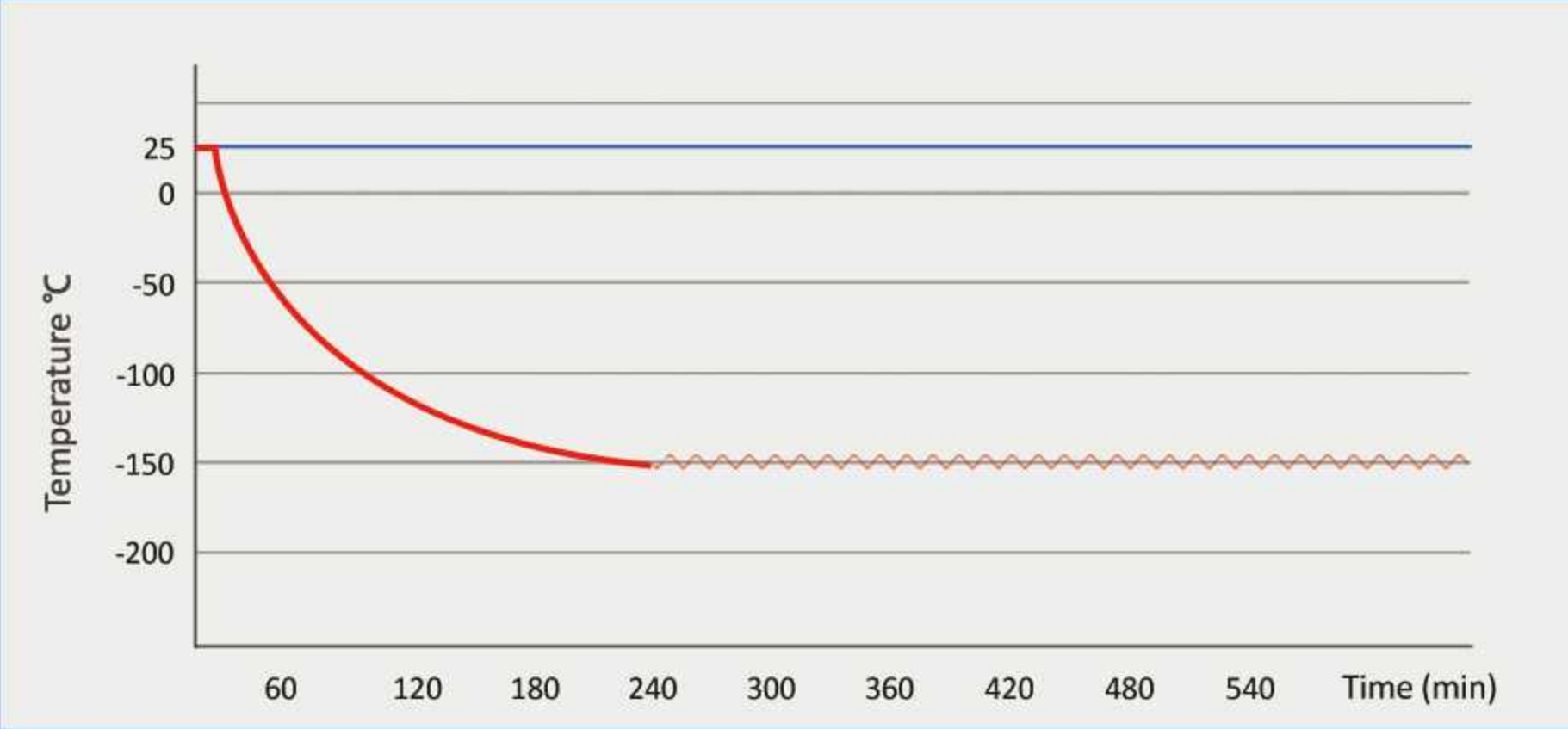
Alarms



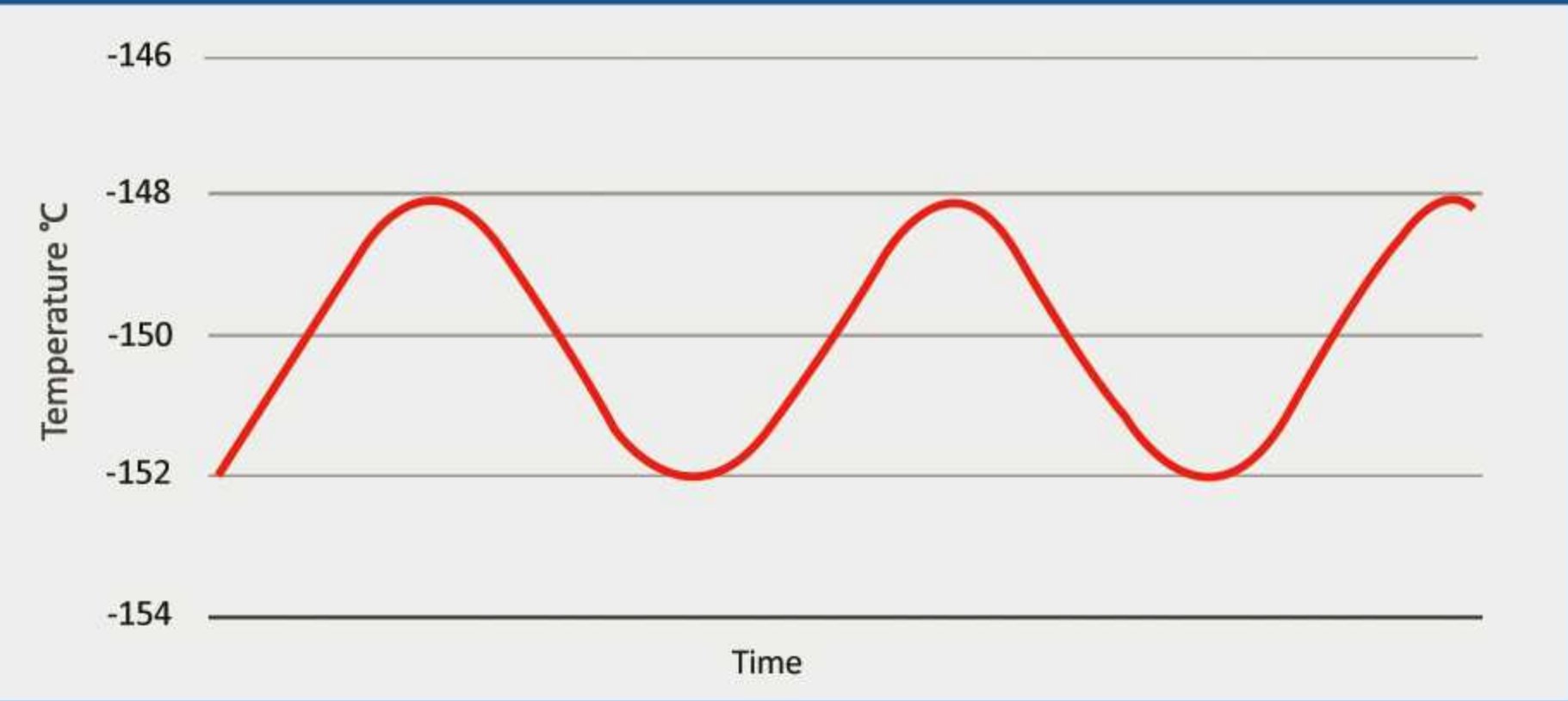
Ultimate safety

-150°C

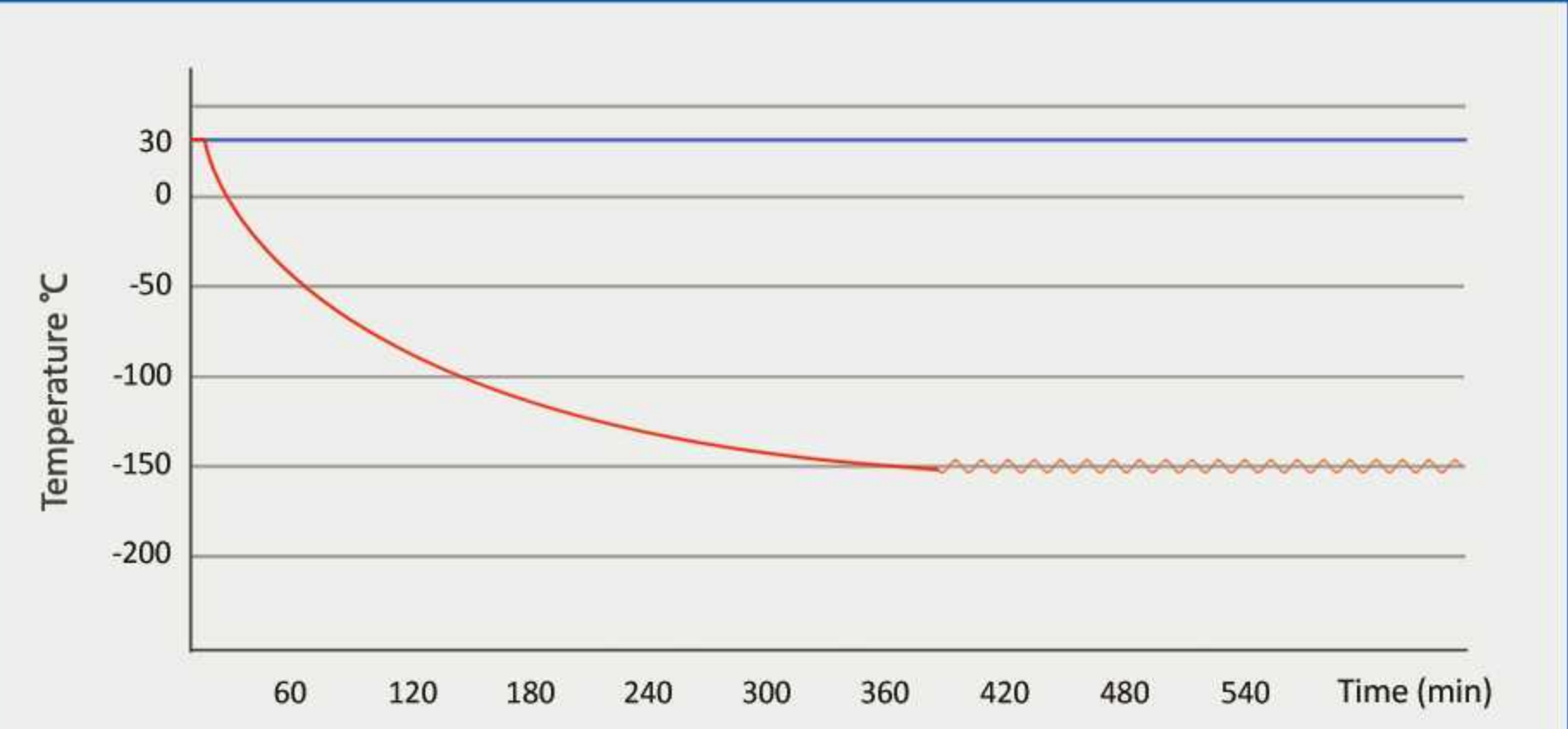
Temp. Control Technology



Pull down times @ ambient 25°C (no load)



Temperature fluctuations @ ambient 25°C (no load)



High ambient temperature condenser semi-blocked experiment @ ambient 30°C (no load)

Ultimate safety

The unit has comprehensive protection measures for electrical safety and refrigeration system safety, ensuring the users can use it safely and confidently.

Super cooling

Worlding leading cooling performance. Advanced multi-stage flash evaporation refrigeration technology, super fast cooling to -150°C in only 230 minutes (@ambient 25 °C 220V/50Hz).

Optimized fluctuation

Maintain superior temperature stability @-150°C. Precise temperature control provides stable temperature fluctuation between -148°C and -152°C in the chamber (-150±2°C).

Under extreme conditions

The unit can perform effectively under extreme conditions. In the experiment of high ambient temperature (30°C) condenser semi-blocked, the unit can pull down to -150°C in 387 minutes. The cooling system's pressure and exhaust temperature are operating within the standard range.

A Reliable Cryogenic Freezer

Applied for various applications



Military Industry



Pharmaceutical



Life science



Biobanking



Electronics



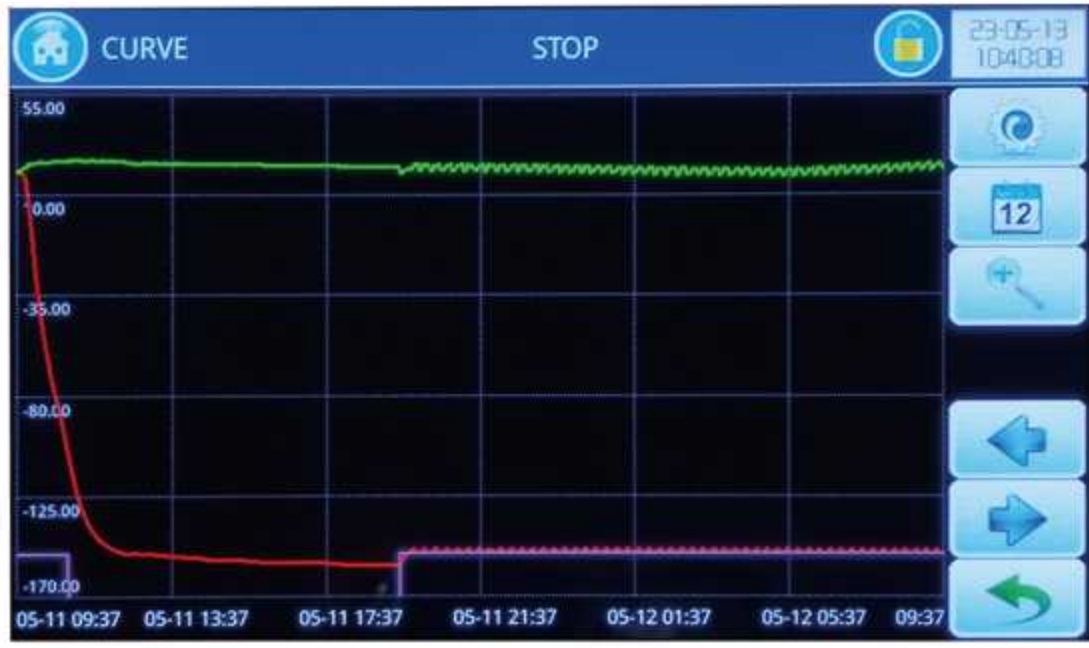
MDF-150H128

Intelligent Control System

This controller has powerful functions. In addition to providing precise temperature control, it can also display real-time chamber temperature, condenser temperature, and running time. Moreover, it can monitor various statuses of the unit and provide audible and visual alarms when there are abnormal statuses, including high and low temperature alarms, condenser alarms, system pressure alarms, and sensor alarms. Users can view temperature graphs, historical alarm information, and export data through a USB interface.



The 7" LCD touch screen provides abundant information



Historical temperature graphs

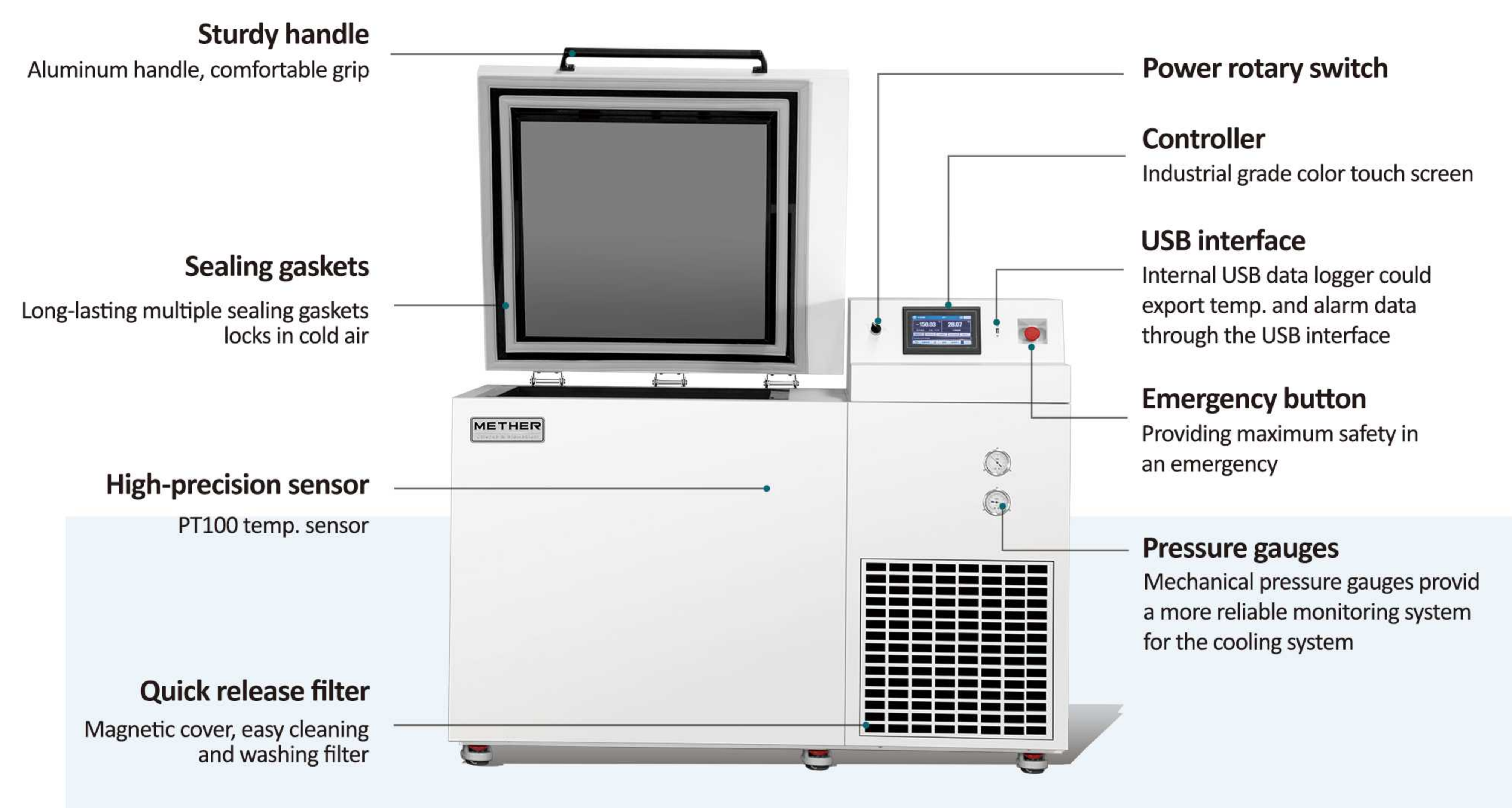
FILE LIST		
STOP		
NO.	TIME	LENGTH
1	2023-05-11 09:37:05	1023H48M
2	2023-05-09 16:08:57	0021H06M
3		
4		

The temperature and alarm data downloading interface

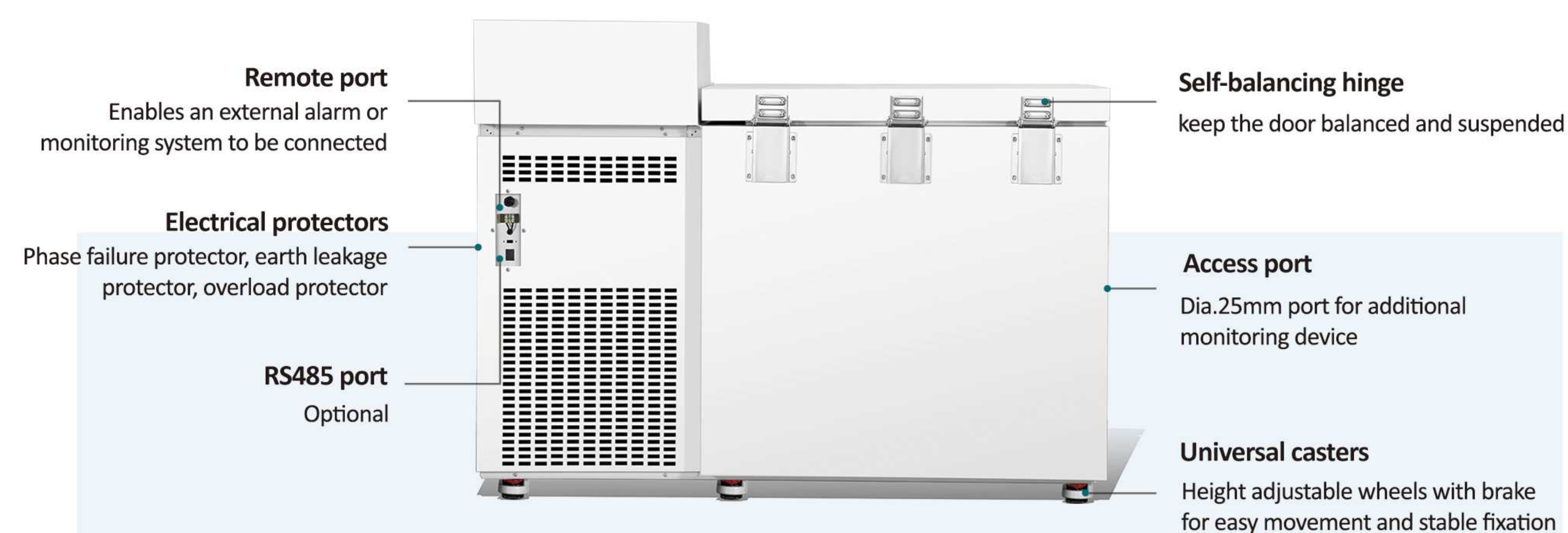


Cryogenic Freezer

Biological sample storage @ -150°C



MDF-150H128 front view



MDF-150H128 rear view

Super thick insulation

CFC-free high density foam insulation with 200mm thickness minimizes the cold loss effectively and lock the cold air inside. The step-style door lid is designed with 240mm thick foaming insulation and multiple layers of sealing gaskets to provide a secure seal and prevent cold air from escaping.



Thick insulation and multiple sealing gaskets

High quality materials

The units are made of high-quality coated cold-rolled steel exterior and stainless steel interior, which is anti-corrosive, long service life and easy to clean.



Emergency shut-down button

Safety Protection

The unit is equipped with comprehensive safety protections for users. Electrical protections include an emergency stop button, phase failure protector, earth leakage protector, and overload protector. Additionally, the refrigeration system is equipped with a mechanical pressure gauge for monitoring system pressure.



Mechanical pressure gauge

User-friendly design

The unit are equipped with user-friendly features. The self-suspended lid can automatically hover, making it convenient for users to access samples. The magnetic quick-release condenser mask makes it easier to clean the filter.



Quick release filter

Racks and boxes (optional)

The unit can be equipped with stainless steel cryo-racks and boxes (Cardboard or PC), which provide the fine management of biological samples.



Cryo-racks



Cryogenic Freezer

Specifications



	Model	MDF-150H128		Model	MDF-150H128
Cooling system	Cooling system	Copper tube	Materials	Internal material	Stainless steel
	Defrost	Manual		External material	Coated steel
	Refrigerant	Mixed gas		Insulation	CFC-free PURF
	Noise(db)	54		Capacity (L/cu.ft)	128/4.5
	Ambient temperature (°C)	10 ~ 30°C		NT./GT.(kg)	245/340
	Temperature range(°C)	-40 ~ -150°C	Measurement	Exterior size(W*D*H)(mm)	1560*957*1178
Power	Voltage(V)	220V		Interior size(W*D*H)(mm)	500*450*578
	Frequency(Hz)	50Hz		Package size(W*D*H)(mm)	1640*970*1375
	Power Consumption(kWh/24h)	38.0		Shipping CBM	2.19
	Power (W)	2550W		20GP/40GP/40HQ	6/14/14
Specifications	Compressor/QTY	TECUMSEH/1	Racks	Rack Qty	N3J-2A1U(10*1)*9
	Sensor	PT100		2" Box capacity	90
	Temperature controller	Microprocessor		Samples(2ml)	9000
	Display	7" LCD touch screen	Alarms	High/low temperature	Y
Accessories	Castor	Y		Power failure	N/A
	leveling feet	Y		Controller failure	Y
	LN ₂ back up system	Optional		Filter check	Y
	Access port Qty/diameter	1/25mm		Sensor error	Y
	USB Interface	Y		Low battery	N/A
	Remote alarm port	Y		Condenser fault	Y
	Data logger	Optional		High Ambient temperature	Y
	RS485	Optional		Door ajar	N/A
	Cryo Safety Gloves	Optional		Abnormal voltage	Y



Auto-cascade ULT Freezer

Dual cooling ULT freezers are designed with 2 independent cooling systems which provides extra insurance for Bio-samples.

-86°C

ULTRA-LOW FREEZER



Designed to store a maximum capacity of
60,000 bio-samples (2ml cyo-tube)



Ultimate Safety



Auto Cascade System



Easy installation



Touch Screen



Stainless Steel Interior



Auto-cascade ULT freezer

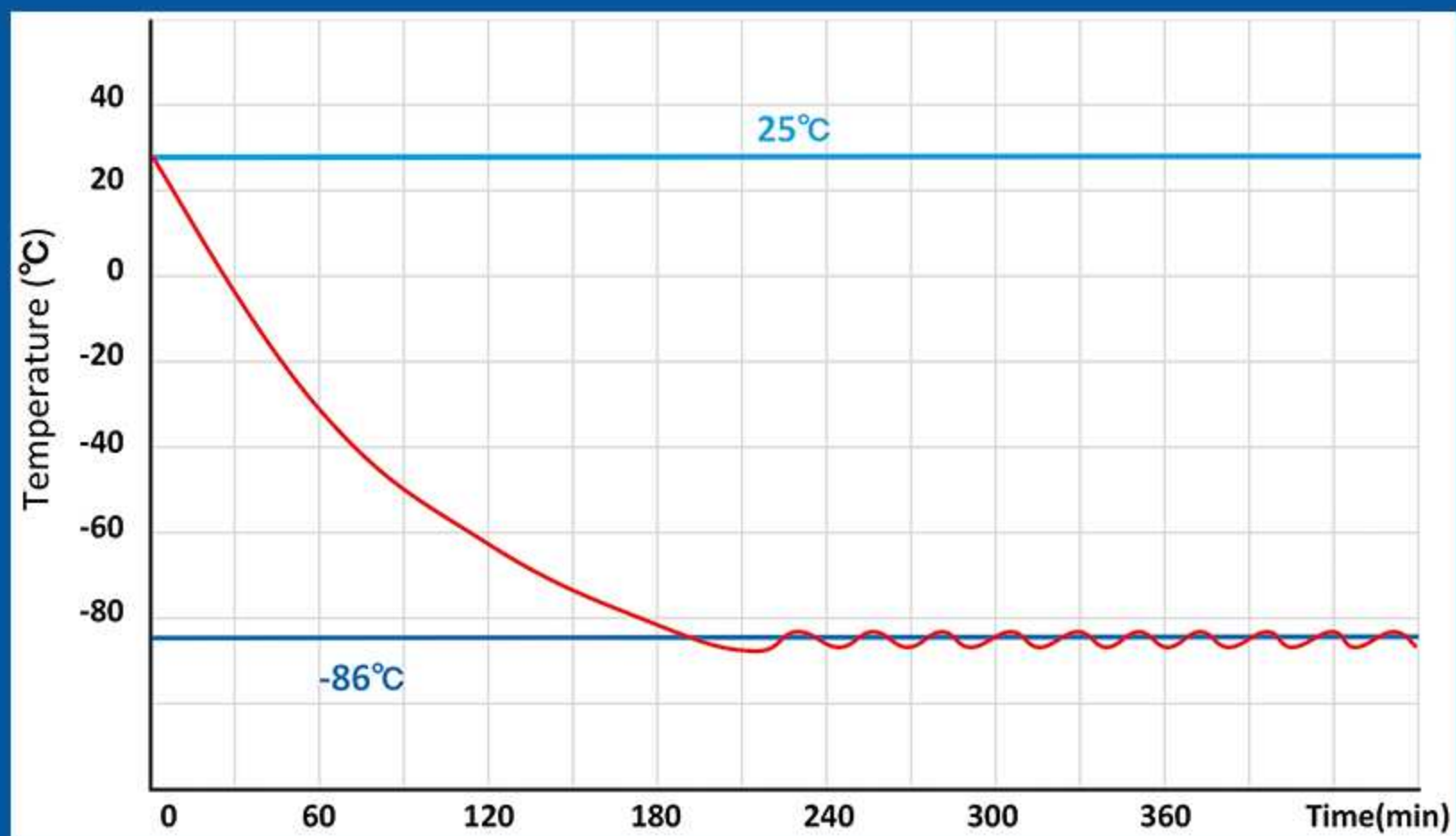
Biological sample storage @ -86°C

Constructions

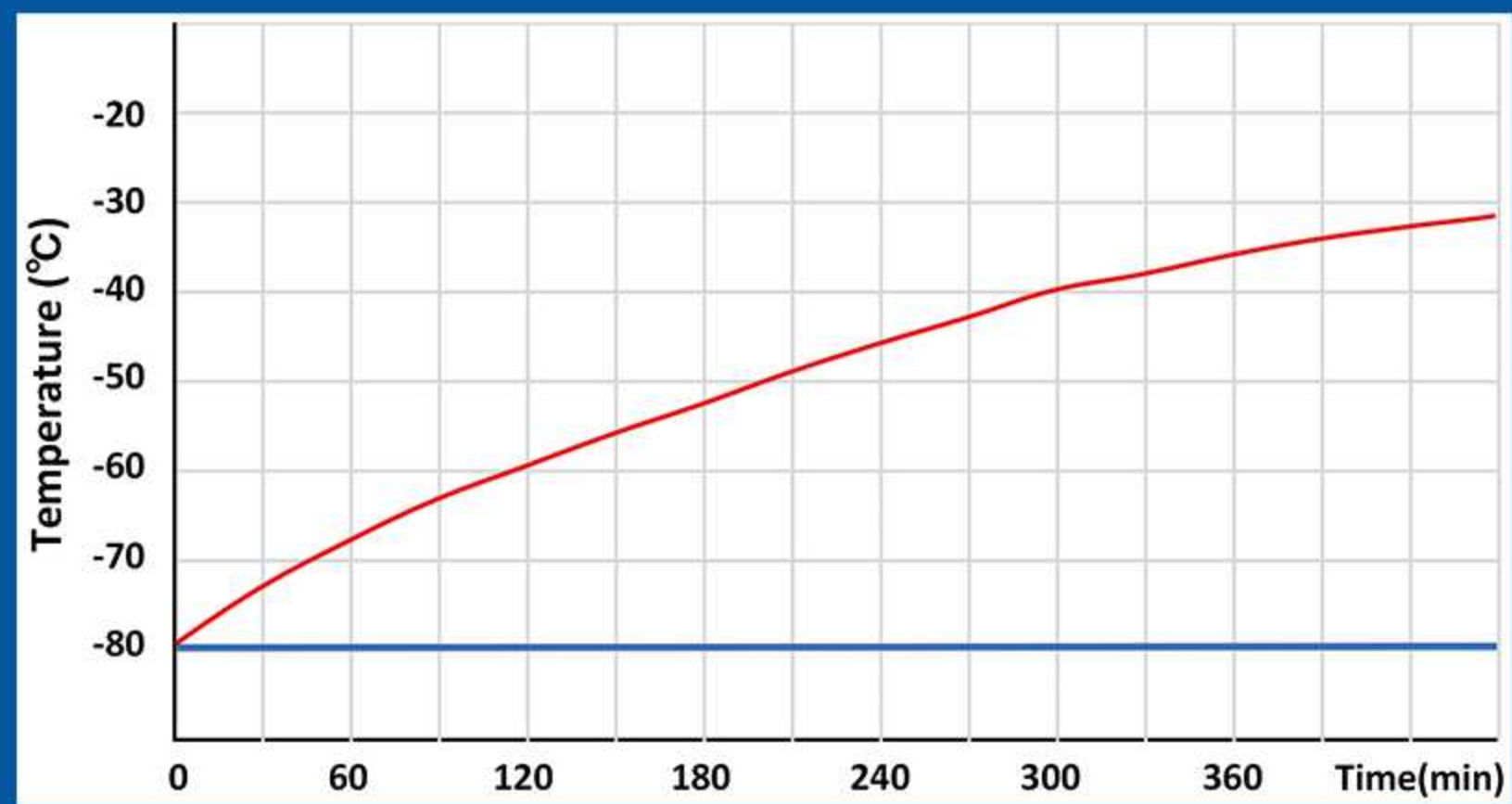


Auto-cascade ULTs

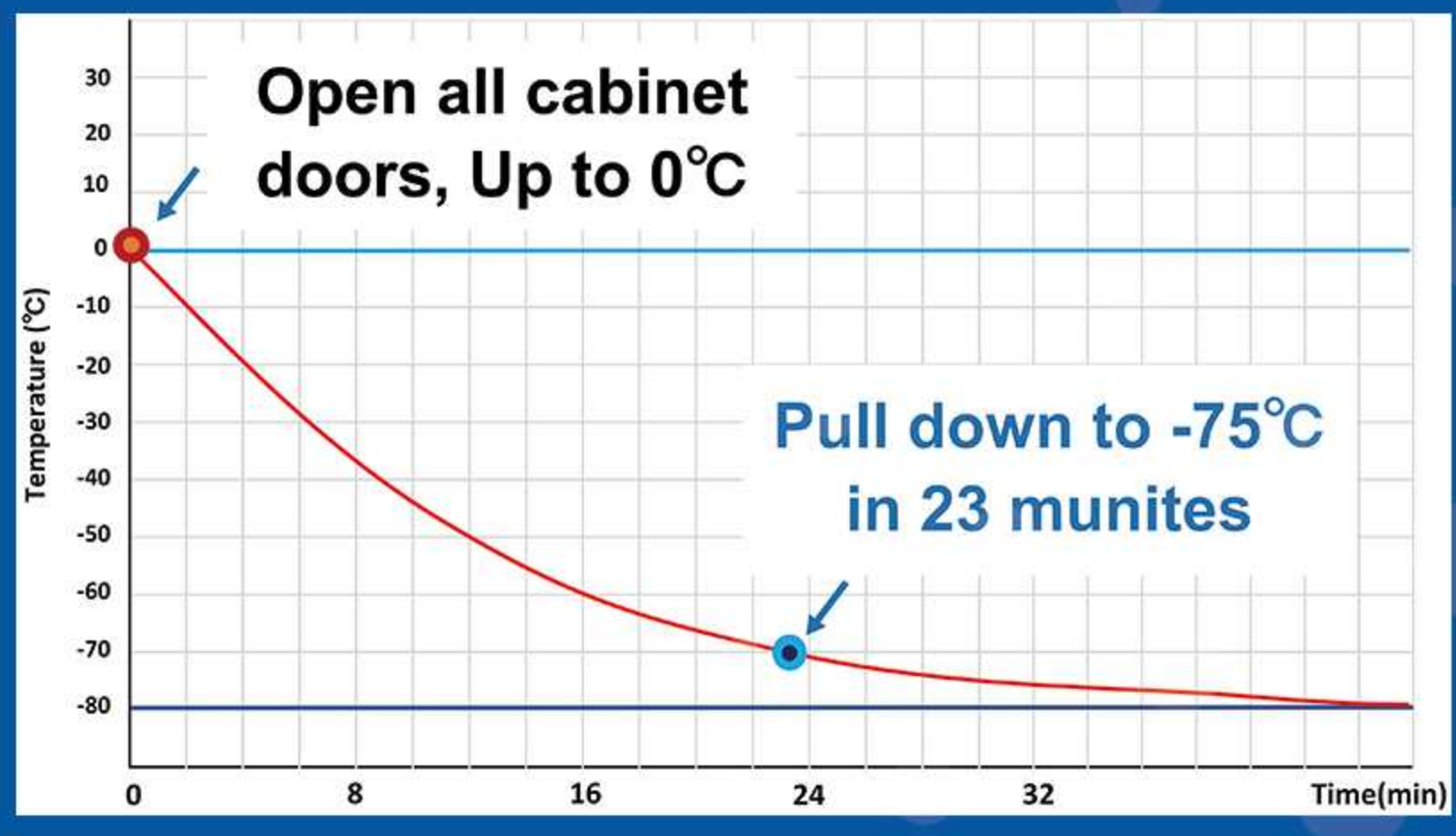
The auto-cascade Ultra-low freezers are devices intended for the storage of blood components and blood plasma, human cells, tissues, live virus vaccines, and other laboratory samples at ultra-low temperatures down to -86°C. Superior performance and cost-effective are its impressive features.



MDF-86V588E pull down times @ ambient 25°C



MDF-86V728E warm up times @ ambient 25°C



MDF-86V838E recovery times @ ambient 25°C



Fast Pull Down Times

The powerful cooling system enables efficient and rapid cooling in the chamber. The intelligent controller can control cooling systems to work providing faster door recovery time.

Better Warm-up Times

Better insulation translates to improved thermal insulation performance&enhanced energy efficiency. Slower warm-up times during an extended power failure buys the user time for carryingout a back-up plan.

Fast Recovery

The intelligent controller and powerful cooling system provide faster door recovery time. So that



Auto-cascade ULTs (Touch screen)

Biological sample storage @ -86°C



User-friendly



Stable performance



Excellent insulation



Energy-saving



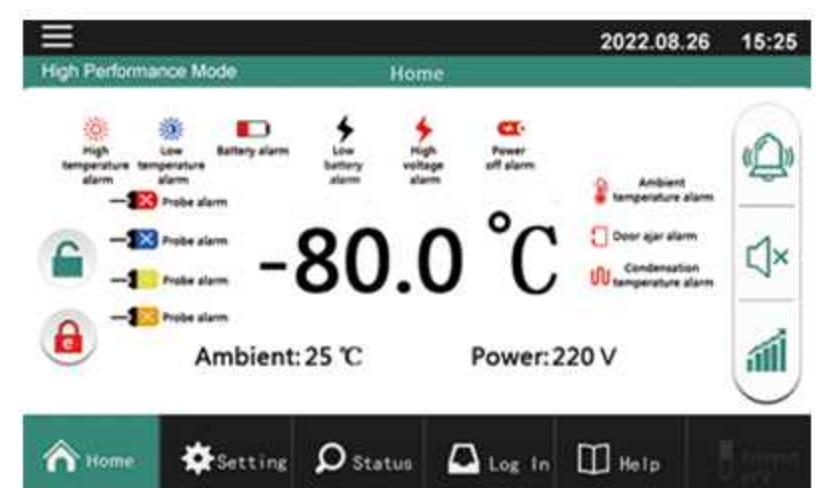
CFC-free



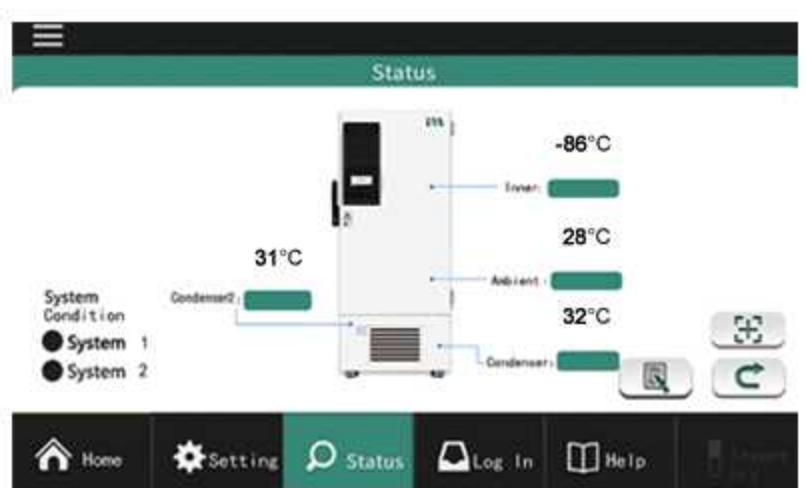
Quiet operation

Intelligent Control System

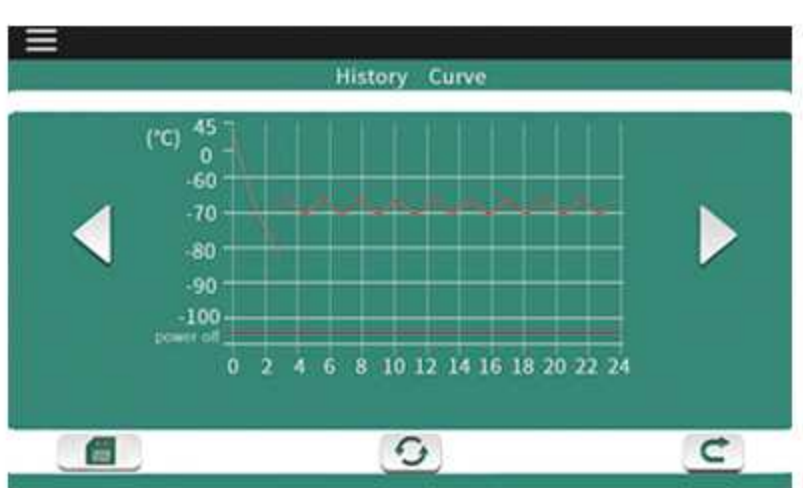
This controller has powerful functions. In addition to providing precise temperature control, it can also display real-time chamber temperature, condenser temperature, and running time. Moreover, it can monitor various status of the unit and provide audible and visual alarms when there are abnormal status, including high and low temperature alarms, condenser alarms, system pressure alarms, and sensor alarms. Users can view temperature graphs, historical alarm information, and exportdata through a USB interface.



Complete alarms



Monitoring of ULT status



Temp. graphs&downloading



Parameter settings

User-friendly

Ergonomic one-handed operation handle;
File box design for keeping daily files;
Export data through a USB interface;
Quick-release condenser filters.



One-hand operation handle



File-box for keeping daily files



Easy access USB interface



Quick release filter



Cooling performance

- High-performance reliable compressors
- Excellent performance even in extreme ambient conditions
- Low noise operation
- CFC-free & HCFC-free refrigerant



Intelligent Controller

- Eye-level 7" touch screen for simple and intuitive operation
- Integrated temp. display, graphs, unit status, and events monitoring
- Complete alarm system escorts your valuable bio-samples
- Easy access USB port for downloading 10 years temperature and alarm data



Advanced Insulation

- Internal V.I.P panels reduce cold loss
- CFC-free high-density PU foam
- Better warm up time keeps the samples cold as long as possible once power failure



User-friendly Design

- Automatic vacuum release port allows users to open&close the door frequently
- Ergonomic one-handed operation handle
- File box design for keeping daily files
- Standard built-in door lock and padlock port
- Built-in whiteboard design
- Easy moving and installing universal castors
- Quick release condenser filters



Complete Alarm System

- High/low temperature, Ambient temperature
- Power failure, Controller failure
- Abnormal voltage, Low battery
- Sensor error, Condenser error
- Door ajar, Filter screen check
- Backup system (alarm) for 72 hours



MDF-86V340E



MDF-86V408E



MDF-86V588E



Auto-cascade ULTs (Touch screen)

Specifications

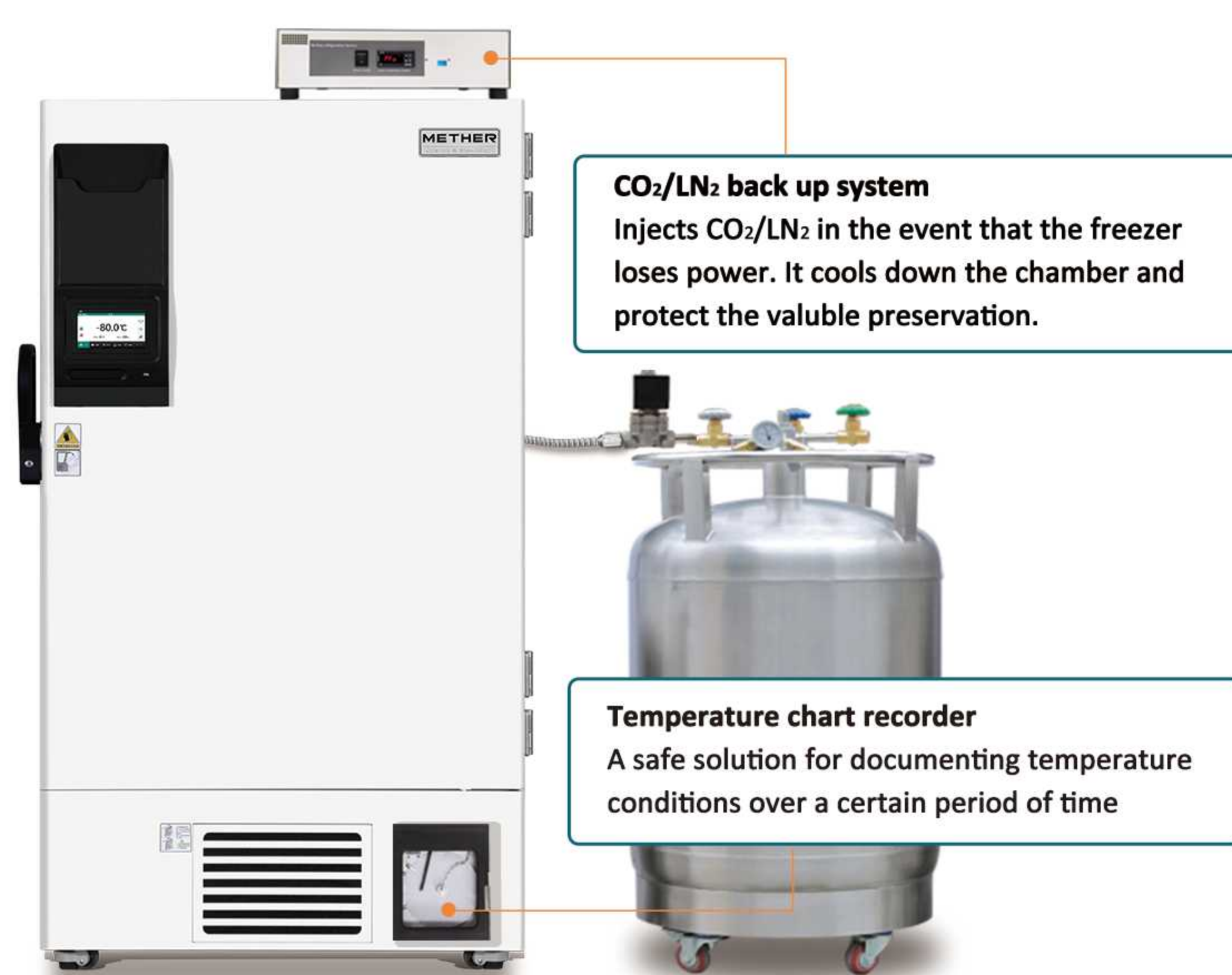


	Model	MDF-86V340E	MDF-86V408E	MDF-86V588E	MDF-86V728E	MDF-86V838E
Specifications	Shelf/drawer QTY	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3
	Cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost	Manual	Manual	Manual	Manual	Manual
Cooling system	Refrigerant	R4001(mixed gas)	R4001(mixed gas)	R4001(mixed gas)	R4001(mixed gas)	R4001(mixed gas)
	Power Consumption(kWh/24h)	13.09	12.82	16.02	23.44	19.98
	Noise(dB)	52	50	53	50	50
Power	Ambient temperature(℃)	10~32℃	10~32℃	10~32℃	10~32℃	10~32℃
	Temperature range(℃)	-40~-86℃	-40~-86℃	-40~-86℃	-40~-86℃	-40~-86℃
	Compressor brand/QTY	SECOP/1	SECOP/1	SECOP/2	SECOP/2	SECOP/2
Materials	Sensor	PT 100	PT 100	PT 100	PT 100	PT 100
	Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	7" LCD touch screen	7" LCD touch screen	7" LCD touch screen	7" LCD touch screen	7" LCD touch screen
Measurement	Pull down time*(min)	224	245	178	247	268
	Warm up time**(min)	205	234	273	292	304
	Voltage/frequency(V/Hz)	220/50Hz	220/50Hz	220/50Hz	220/50Hz	220/50Hz
Racks	Power(W)	810W	890W	1500W	1400W	1700W
	Current(A)	5.13A	5.34A	10.35A	10.37A	10.75A
	Inside material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Alarms	Outside material	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel
	Insulation	PURF	PURF	VIP + PURF	VIP + PURF	VIP + PURF
	Capacity(L/cu.ft)	340/12	408/14.40	588/20.76	728/25.7	838/29.59
Accessories	NT./GT.(kg)	224.5/284.5	235/279.5	283/345.5	316/392	332/407
	Exterior size(W*D*H)(mm)	854*1006*1907	872*1028*1945.5	891*1155*1994.5	1248*975*1994.5	1179*1135*1994.5
	Interior size(W*D*H)(mm)	488*607*1140	606*575*1180	606*738*1310	963*571*1350	894*718*1310
	Package size(W*D*H)(mm)	955*1090*2085	965*1040*2120	970*1190*2200	1320*970*2185	1275*1165*2200
	Shipping CBM	2.17	2.13	2.54	2.96	3.27
	20GP/40GP/40HQ	12/24/24	12/24/24	10/22/22	9 /19/19	8/18/18
	Racks	N3J-244D*12	N3J-254D*8 N3J-244D*8	N3J-255D*16	N3J-254D*18 N3J-264D*6	N3J-255D*24
	Boxes (2 Inches)	192	288	400	504	600
	Samples(2ml)	19200	28800	40000	50400	60000
	High/low temperature	Y	Y	Y	Y	Y
	Power failure	Y	Y	Y	Y	Y
	Abnormal voltage	Y	Y	Y	Y	Y
	Sensor error	Y	Y	Y	Y	Y
	Filter screen check	Y	Y	Y	Y	Y
	Thermostat failure	Y	Y	Y	Y	Y
	Low battery	Y	Y	Y	Y	Y
	Condenser clean	Y	Y	Y	Y	Y
	High ambient temperature	Y	Y	Y	Y	Y
	Door ajar	Y	Y	Y	Y	Y
	Power failure alarm (for controller)	72h	72h	72h	72h	72h
	Castor	Y	Y	Y	Y	Y
	Compartment door	2	2	2	2	2
	Access port QTY/diameter	2/25MM	2/25MM	2/25MM	2/25MM	2/25MM
	USB port	Y	Y	Y	Y	Y
	RS485 interface	Y	Y	Y	Y	Y
	Chart recorder	/	/	Optional	Optional	Optional
	Data logger	Optional	Optional	Optional	Optional	Optional
	Remote alarm port	Y	Y	Y	Y	Y



Auto-cascade ULTs

Accessories



CO₂/LN₂ back up system
Injects CO₂/LN₂ in the event that the freezer loses power. It cools down the chamber and protect the valuable preservation.

Temperature chart recorder
A safe solution for documenting temperature conditions over a certain period of time



4G/Wifi Data logger
An external monitoring device to record internal temperature and upload data to internet management platform



Remote interface
Equiped with a standard remote alarm port and RS485 dry contact for connection to BMS system



Water cooling system
A special device that cools the refrigeration system and allows the freezer to work more efficient or under extreme conditions



Auto-cascade ULTs

Biological sample storage @ -86°C

-86°C 188 L 58 L



MDF-86V188E



MDF-86V58



Data Logger (DLW-100EC)

DLW-100EC is a monitoring device independent of the freezer, it can record the realtime temperature in the chamber and provide the necessary alerts to protect your irreplaceable samples



CO₂/LN₂ Back-up System

The back-up system injects liquid CO₂/LN₂ on demand when cabinet temperature warms to a pre-set level. Back-up system includes all hardware except the supply cylinder. In the event of a power failure, the system will operate on a charged battery.



Additional Shelves

Each ULT freezer comes standard with 3 shelves. Extra shelves are available and each shelf comes with 4 clips.



Ice Scraper

Ice scraper is available for cleaning ice built up on door gasket, PEP and other places in the freezer



Stainless Steel Racks

Store the 2" cyo-boxes within organized freezer racks. High quality stainless steel racks to optimize your freezer space and makes it easy to find the items you desire.



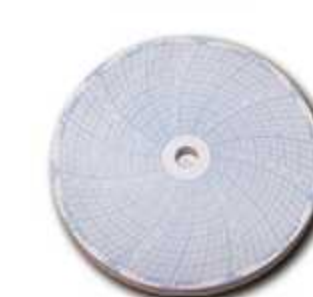
4G/Wifi Data Logger (DLW-360P)

DLW-360P is a networked device that can upload real-time temperature data to the cloud. Users can monitor and manage the data through the mobile app or cloud platform.



6" Temperature Chart Recorder

The chart recorder provides an easy-to-read graph of data vs time. It is a reliable, accurate, and stable instrument, for on-the-spot written documentation of freezer chamber temperature.



6" Temperature Chart

6" Temperature Chart, 7day, 54/pack



Cryo Safety Gloves

Mid-arm style cryo safety gloves are available for use with ultra-cold surfaces. Cryo safety gloves protect hands and arm when inserting or removing inventory

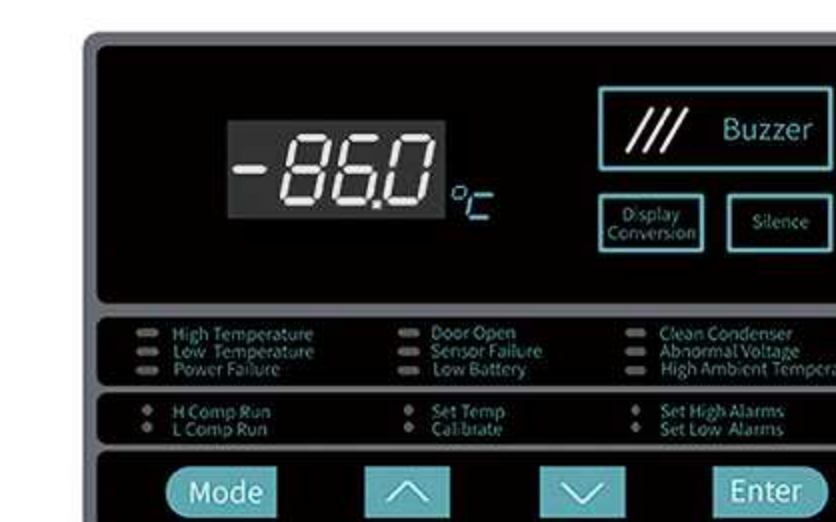


Cryo-boxes & Cryo-tubes

Fit into ULT freezers. The outer footprint dimensions (133mm) are compatible with common racks and the inner grid provides for a perfect fit to cryotubes.

Precise controller

- A digital microprocessor temperature controller with a LED display and complete alarms.
- The precision of display and control is 0.1°C.
- Pre-set to -80°C for general applications.
- Complete audible and visual alarms



Rapid cooling

High efficient cooling system provide fast cool down time and fast door recovery time.

High quality materials

Made of high-quality stainless steel, the interior is antibacterial, anti-corrosive, and easy to clean.

Inner door design

Inner doors which are made of stainless steel and filled with PU foam, provide better insulation.





Auto-cascade ULTs

Biological sample storage @ -86°C

Undercounter

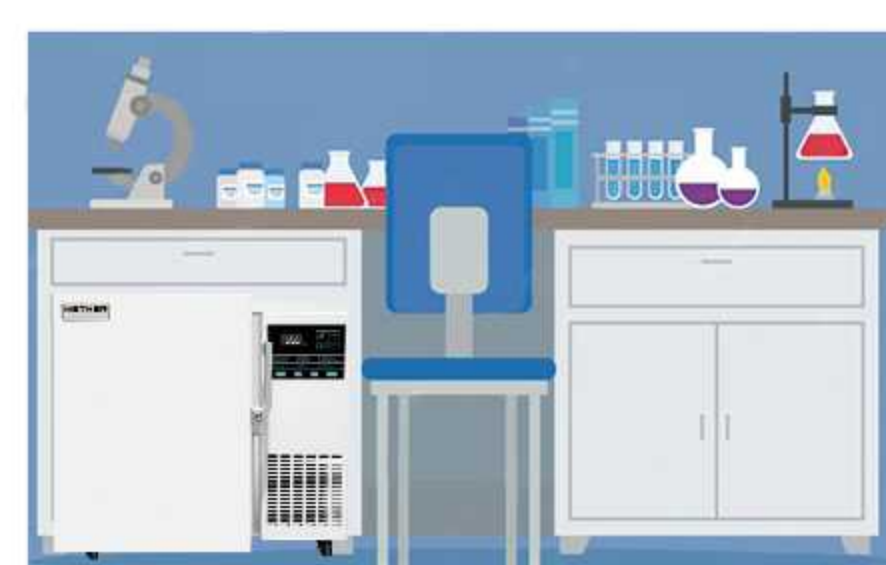
-86°C 58 L



MDF-86V58U

Flexible and Compact Under-counter

Ideal for research labs and clinical trials with limited space. 748mm cabinet height makes it easy to place on or under bench, saving storage space.



Ergonomic door& Handle

Ergonomic design for easy door opening and closing by one hand. Lockable and equipped with keys.



Frame Design

Stepped door frame and multiple layers of gaskets to reduce cold air leakage and ice buildup.



Reliable system & Fast Recovery

Inner SUS material and Precise controller ensure good performance and fast recovery in cabinet.



-86°C 58 L



MDF-86V58

Chest ULT freezers

-86°C -60°C 485 L



MDF-86H485/MDF-60H485

-86°C -60°C 105 L



MDF-86H105/MDF-60H105



Auto-cascade ULTs

Specifications

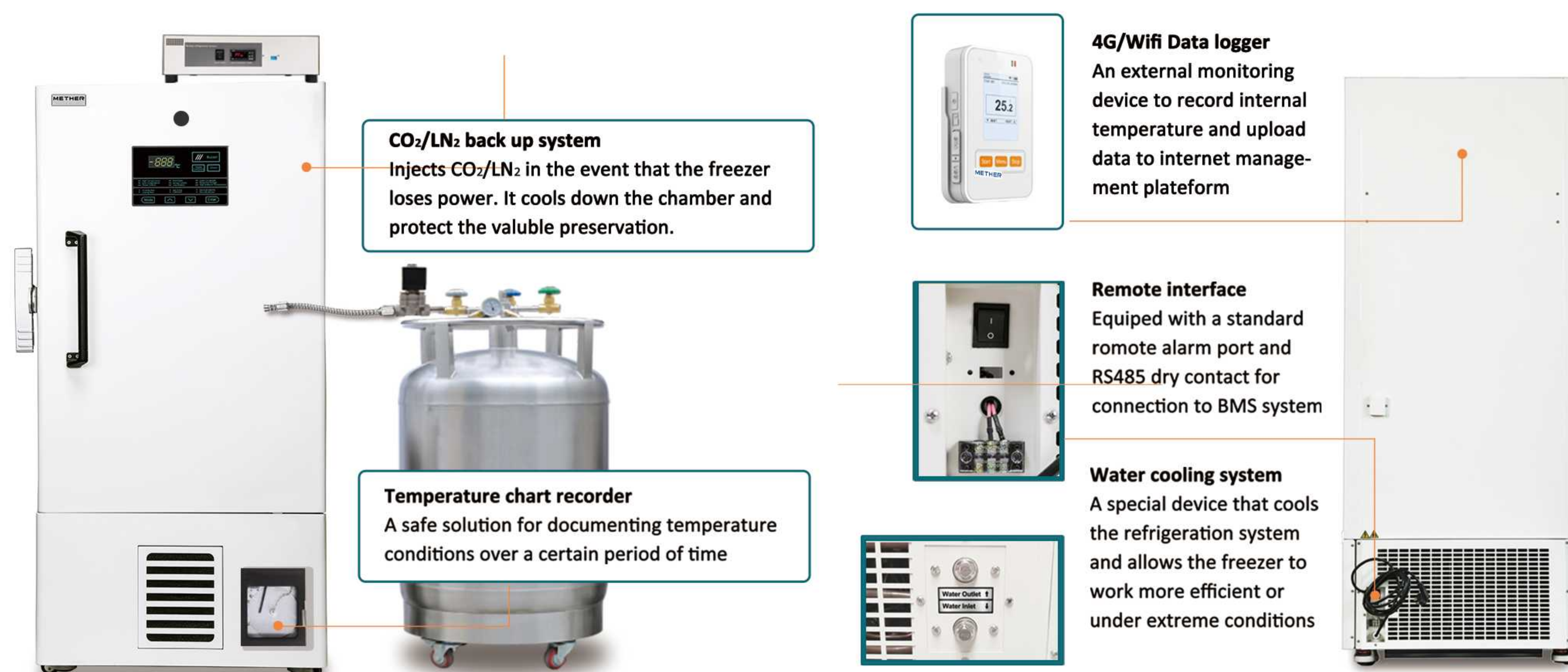


		Model	MDF-86V58U	MDF-86V188E	MDF-86V58
Specifications	Shelf/drawer QTY		Stainless steel shelf/1	Stainless steel shelf/2	Stainless steel shelf/1
	Cooling		Direct cooling	Direct cooling	Direct cooling
	Defrost		Manual	Manual	Manual
	Refrigerant		R4001	R4001(mixed gas)	R4001(mixed gas)
Cooling system	Power Consumption(kWh/24h)		4.5	11.17	6.09
	Noise(dB)		50	52	50
	Ambient temperature(℃)		10~32℃	10~32℃	10~32℃
	Temperature range(℃)		-60~-86℃	-40~-86℃	-40~-86℃
Power	Compressor brand/QTY		SECOP/1	CUBIGEL/1	SECOP/1
	Sensor		PTC	PTC	PTC
	Temperature controller		Microprocessor	Microprocessor	Microprocessor
	Display		Digital display	Digital display	Digital display
Materials	Voltage/frequency(V/Hz)		220/50Hz	220/50Hz	220/50Hz
	Power(W)		363W	660W	442W
	Current(A)		3A	3.14A	3.18A
	Inside material		Stainless steel	Stainless steel	Stainless steel
Measurement	Outside material		Power coated steel	Color sprayed steel	Color sprayed steel
	Insulation		PURF	PURF	PURF
	Capacity(L/cu.ft)		60L/2	188/6.63	58/2.0
	NT./GT.(kg)		94/115	194.5/220	112/146
Racks	Exterior size(W*D*H)(mm)		904x798x748	830x810x1607.5	635*757*1212
	Interior size(W*D*H)(mm)		330x453x410	465*465*830	330*453*410
	Package size(W*D*H)(mm)		966x818x932	925x870x1815	730*860*1420
	Shipping CBM		0.73	1.46	0.89
Alarms	20GP/40GP/40HQ		24/56/56	12/26/26	21/42/42
	Racks		2(6X2)	N3J-243D*9	N3J-262D*2
	Boxes (2 inches)		24	108	24
	Samples(2ml)		2400	10800	2400
Accessories	High/low temperature		Y	Y	Y
	Power failure		Y	Y	Y
	Abnormal voltage		Y	Y	Y
	Sensor error		Y	Y	Y
	Filter screen check		Y	Y	Y
	Thermostat failure		Y	Y	Y
	Low battery		Y	Y	Y
	Condenser clean		Y	Y	Y
	High ambient temperature		Y	Y	Y
	Door ajar		Y	Y	Y
	Power failure alarm (for controller)		72h	72h	72h
	Castor		Y	Y	Y
	Compartment door		1	3	1
	Access port QTY/diameter		1/25MM	1/25MM	1/25MM
	USB port		Y	Y	Y
	Chart recorder		/	/	/
	Data logger		Optional	Optional	Optional
	Remote alarm port		Y	Y	Y

		Model	MDF-86H485	MDF-86H105	MDF-60H485	MDF-60H105
Specifications	Basket/Rack		Optional	Optional	Optional	Optional
	Cooling system		Copper pipe	Copper pipe	Copper pipe	Copper pipe
	Defrost		Manual	Manual	Manual	Manual
	Refrigerant		R4001(mixed gas)	R4001(mixed gas)	R4001(mixed gas)	R4001(mixed gas)
Cooling system	Noise(db)		54.5	50	53	53
	Ambient temperature (℃)		10~32℃	10~32℃	10~32℃	10~32℃
	Temperature range(℃)		-40~-86℃	-40~-86℃	-25~60℃	-25~60℃
	Compressor/ QTY		SECOP/1	CUBIGEL/1	CUBIGEL/1	CUBIGEL/1
Power	Sensor		PTC	PTC	PTC	NTC
	Temperature controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display		LED digital display	LED digital display	LED digital display	LED digital display
	Voltage(V)		220	220	220	220
Materials	Frequency(Hz)		50Hz	50Hz	50Hz	50Hz
	Power Consumption(kWh/24h)		3.16	2.53	3.44	2.36
	Power (W)		670W	500W	600W	380W
	Internal material		Stainless steel	Stainless steel	Stainless steel	Stainless steel
Measurement	External material		Coated steel	Coated steel	Coated steel	Coated steel
	Insulation		CFC-free PURF	CFC-free PURF	CFC-free PURF	CFC-free PURF
	Capacity (L/cu.ft)		485/17.12	105/3.70	485/17.12	105/3.70
	NT./GT.(kg)		130/150	65/70	124/138.5	65/70
Racks	Exterior size(W*D*H)(mm)		1695x840x962	680*580*935	1655*755*915	680x580x935
	Interior size(W*D*H)(mm)		1455.5*525.2*674	480*380*665	1455*525*665	480*380*665
	Package size(W*D*H)(mm)		1765x900x1060	760*740*1050	1750*705x1050	770x705x1090
	Shipping CBM		1.68	0.59	1.62	0.59
Alarms	20GP/40GP/40HQ		6/13/13	24/51/51	6/13/13	24/48/48
	High/low temperature		Y	Y	Y	Y
	Power failure		N/A	N/A	N/A	N/A
	Controller failure		Y	Y	Y	Y
Accessories	Filter check		N/A	N/A	N/A	N/A
	Sensor error		Y	Y	Y	Y
	Low battery		N/A	N/A	N/A	N/A
	Condenser fault		N/A	N/A	N/A	N/A
	High Ambient temperature (℃)		N/A	N/A	N/A	N/A
	Door ajar		N/A	N/A	N/A	N/A
	Power failure backup		12h	12h	12h	12h
	Castor		Y	Y	Y	Y
	leveling feet		N/A	N/A	N/A	N/A
	Access port Qty/diameter		1/25mm	1/25mm	1/25mm	1/25mm
	USB Interface		N/A	N/A	N/A	N/A
	Remote alarm port		N/A	N/A	N/A	N/A
	Door type/Qty		Solid/1	Solid/1	Solid/1	Solid/1
	Inner door/Qty		N/A	N/A	N/A	N/A
	Chart recorder		N/A	N/A	Optional	Optional
	Data logger		Optional	Optional	Optional	Optional
	Stainless Steel interior		Y	Y	Y	Y

Auto-cascade ULTs

Specifications



Data Logger (DLW-100EC)

DLW-100EC is a monitoring device independent of the freezer, it can record the realtime temperature in the chamber and provide the necessary alerts to protect your irreplaceable samples



CO₂/LN₂ Back-up System

The back-up system injects liquid CO₂/LN₂ on demand when cabinet temperature warms to a pre-set level. Back-up system includes all hardware except the supply cylinder. In the event of a power failure, the system will operate on a charged battery.



Additional Shelves

Each ULT freezer comes standard with 3 shelves. Extra shelves are available and each shelf comes with 4 clips.



Ice Scraper

Ice scraper is available for cleaning ice built up on door gasket, PEP and other places in the freezer



Stainless Steel Racks

Store the 2" cyo-boxes within organized freezer racks. High quality stainless steel racks to optimize your freezer space and makes it easy to find the items you desire.



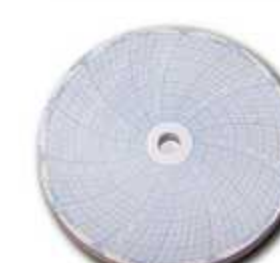
4G/Wifi Data Logger (DLW-360P)

DLW-360P is a networked device that can upload real-time temperature data to the cloud. Users can monitor and manage the data through the mobile app or cloud platform.



6" Temperature Chart Recorder

The chart recorder provides an easy-to-read graph of data vs time. It is a reliable, accurate, and stable instrument, for on-the-spot written documentation of freezer chamber temperature.



6" Temperature Chart

6" Temperature Chart, 7day, 54/pack



Cryo Safety Gloves

Mid-arm style cryo safety gloves are available for use with ultra-cold surfaces. Cryo safety gloves protect hands and arm when inserting or removing inventory



Cryo-boxes & Cryo-tubes

Fit into ULT freezers. The outer footprint dimensions (133mm) are compatible with common racks and the inner grid provides for a perfect fit to cryotubes.

Biomedical Deep Freezers

Biomedical Deep Freezers are widely used in hospitals and laboratories. Designed to store vaccines, blood plasma and many other biological materials. Installations can be found in research institutions and clinical sites in the life science, pharma, biotech, medical and electronics sectors.

-40 °C / -25 °C

MEDICAL GRADE



Safe storage



Precise temp control



Rapid cooling



Alarms



Eco-friendly



Innovative Temperature Control

Maintain a constant temperature @ -40°C / -25°C



Frozen Plasma



Enzymes



Pre-Freezing



Clinical



Medication

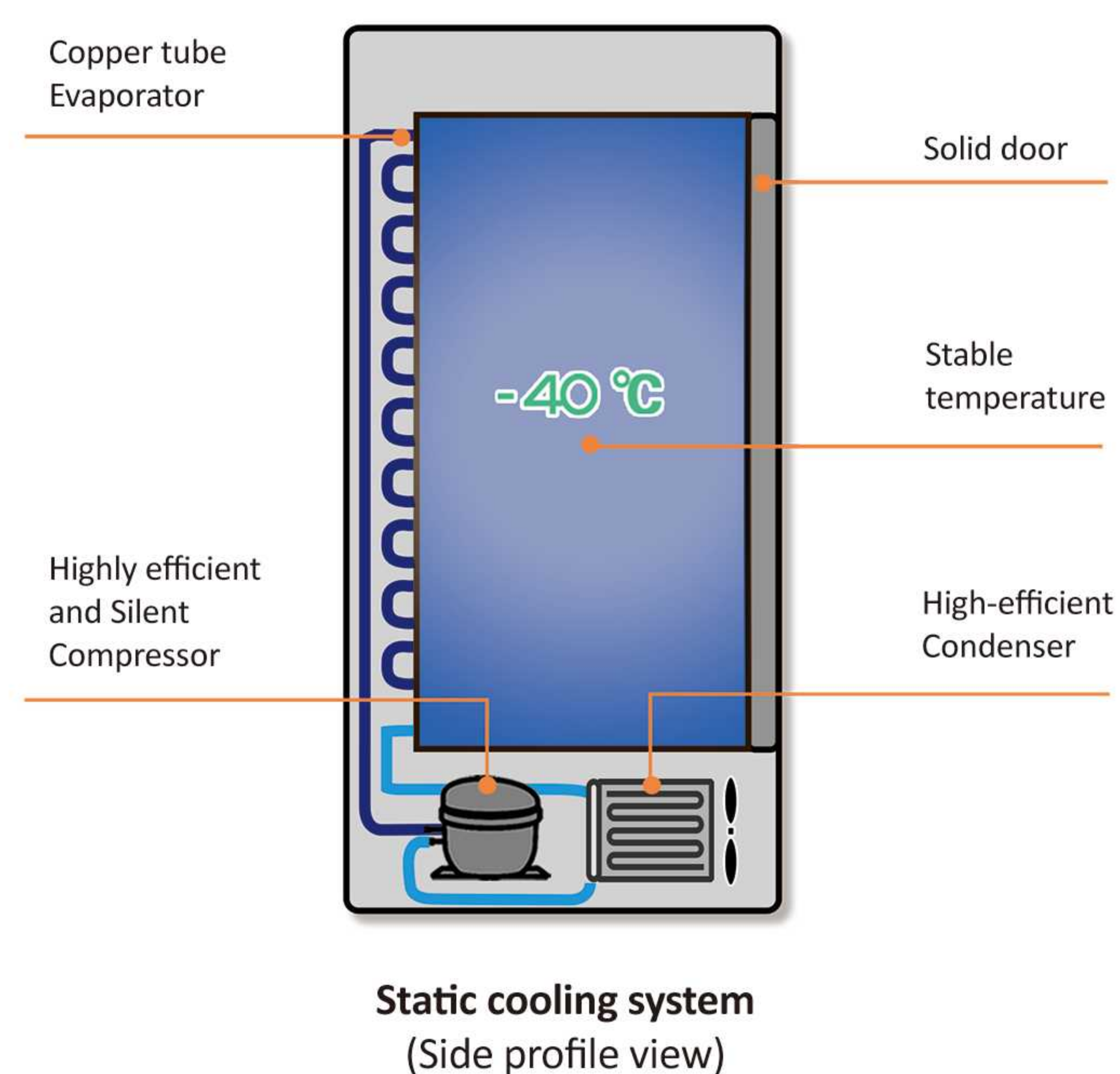


Vaccines

-40°C / -25°C

Efficient Cooling System

The cooling system not only cools quickly and uniformly at a stable temperature, but also saves energy



Green Earth

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



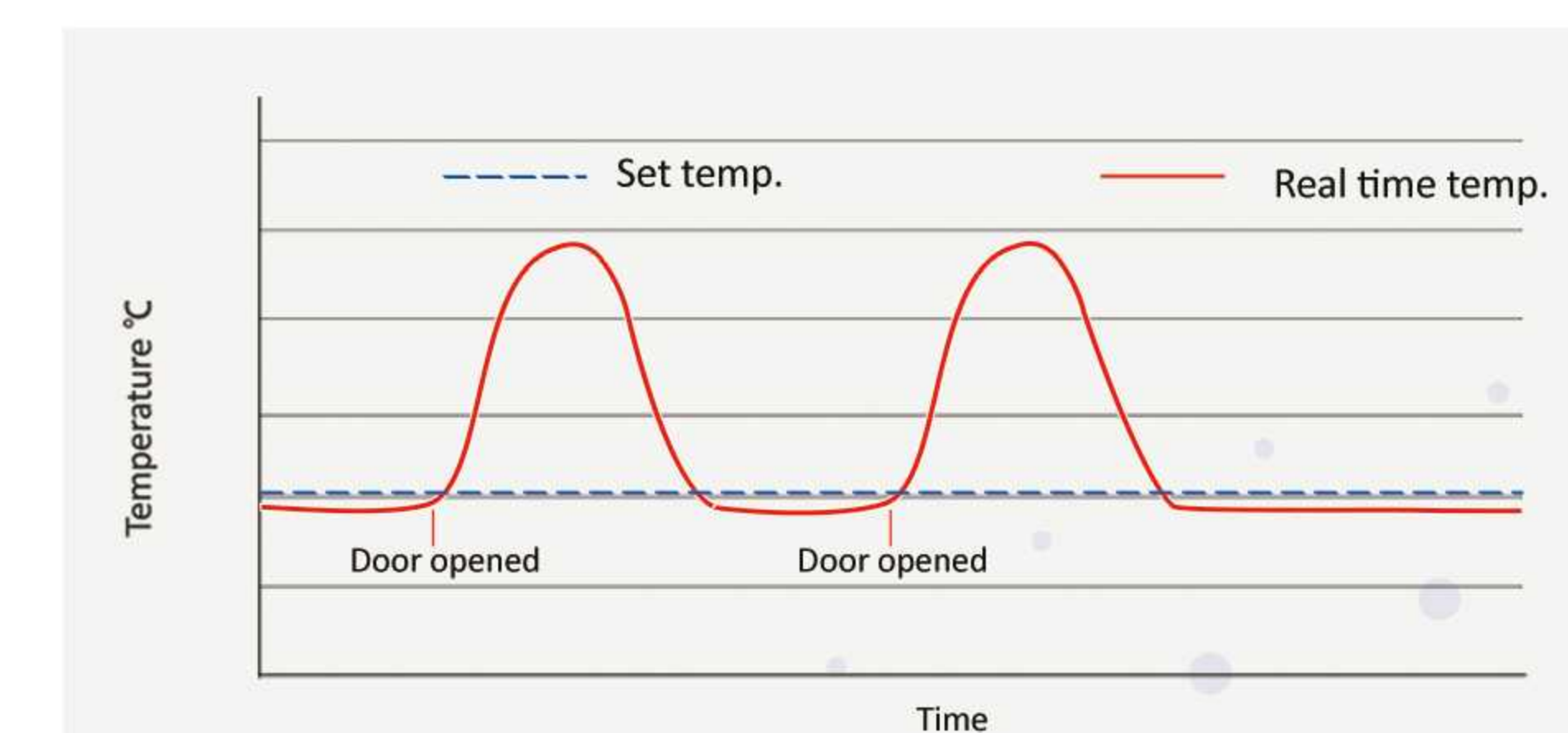
Precise Controller

- A digital microprocessor temperature controller with LED display and alarm back up power
- The precision of display and control is 0.1°C
- Pre-set to -40°C / -25°C for deep freezers
- Audible and visual alarms
- Internal USB data logger (optional)



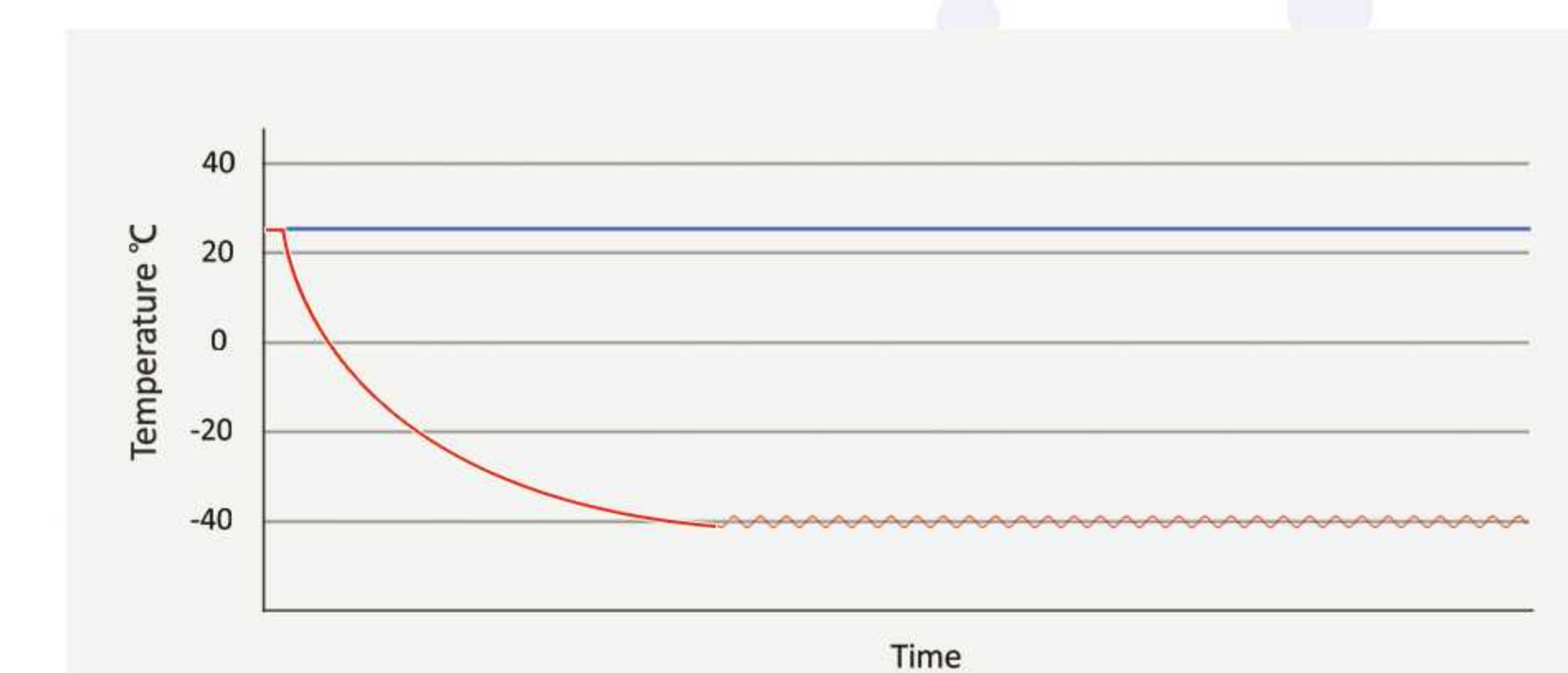
Fast Recovery

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 at a high frequency.



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.



Ultimate Uniformity

The cabinet maintain temperatures within $\pm 3^{\circ}\text{C}$ throughout the entire compartment, ensuring confidence that items are stored at the correct temperature regardless of their placement in the chamber.



Biomedical Deep Freezer

Medical, laboratory storage @ -40°C / -25°C

-40°C Dual System 528 L

-25°C Dual System 528 L



MDF-40V528

MDF-25V528

-40°C Dual System 358 L

-25°C Dual System 358 L

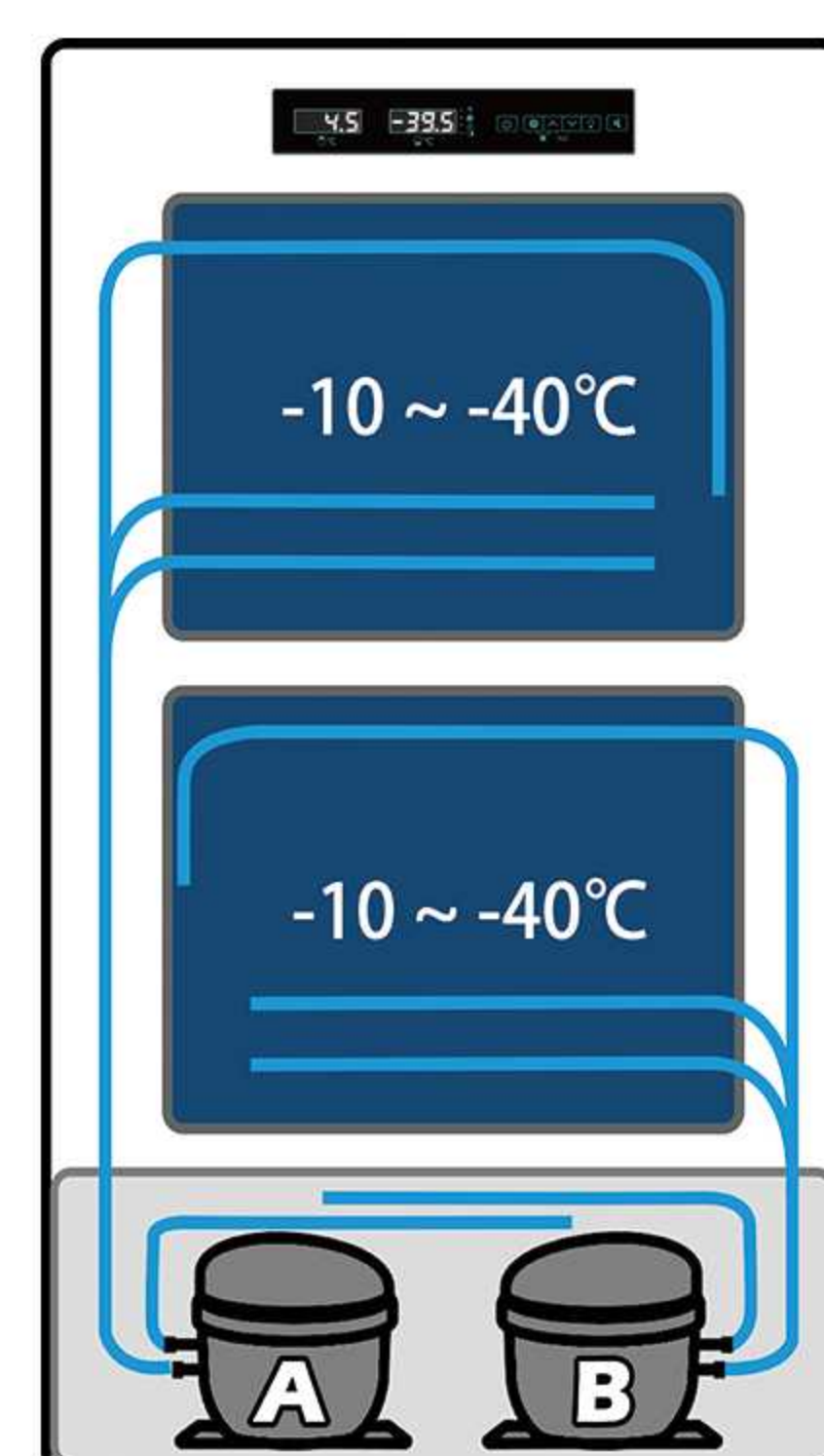


MDF-40V358

MDF-25V358

Dual cooling system

The units are equipped with 2 independent cooling system, each of them with an independent control system. 2 separate compartments, each with independent temperature settings. Even if one system fails, the other can still operate normally.



Built-in locks
Ensures the security of your preservations

Drawers
Removable drawers for organizing your storage

Access ports
2 Dia.25mm ports for additional monitoring device

Removable shelves
Provide users with more versatile interior space

USB interface
Brake & leveling feet for easy movement and stable fixation

Universal castors
Brake & leveling feet for easy movement and stable fixation



MDF-40V528

Controller
Optional Z06 controller with internal USB data logger

Equalization Port
Allow a quick re-access to your preservations

Padlock hole
For fixing additional padlocks

Ergonomic handles
Easy open for single-hand operation

Sealing gaskets
Long-lasting magnetic sealing gasket locks in cold air

Quick release filter
Magnetic cover, easy cleaning and washing filter

Ergonomic handles

One-hand operated door handle with automatic pressure relief system for easy access to storage.



Easy open handles with padlock holes

Internal data logger

The temperature data can be recorded and exported through a built-in USB interface.

Variable space

Each compartment is equipped with 2 coated wire shelves and removable drawers. Each shelf has a weight capacity of 25kgs. Users can place various storage items according to their needs.



Pressure equalization port

High quality materials

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



Manage your storage perfectly



Biomedical Deep Freezer

Medical, laboratory storage @ -40°C / -25°C

-40°C 328 L



MDF-40V328E

-25°C 328 L



MDF-25V328E

-40°C 268 L

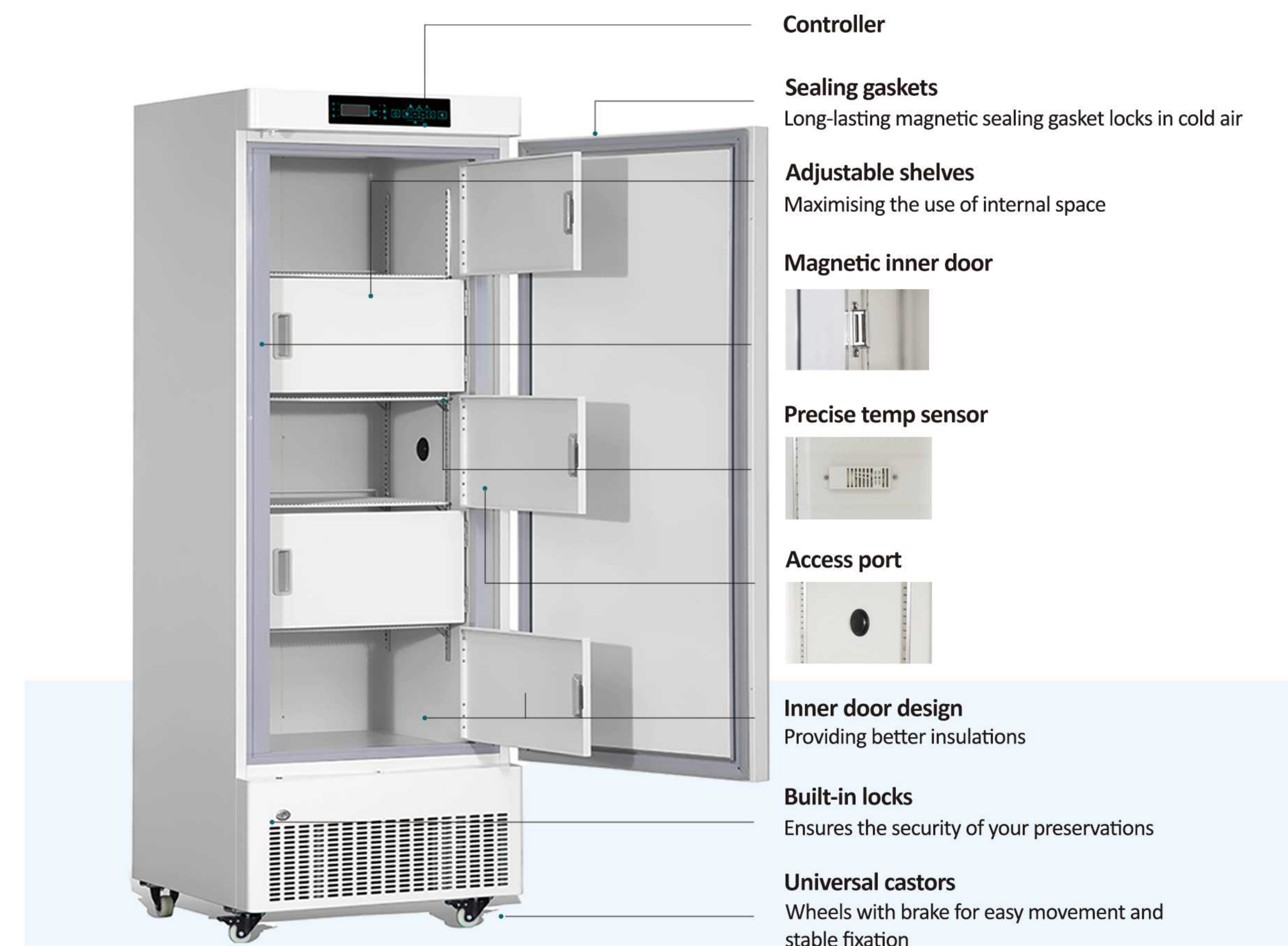


MDF-40V268E

-25°C 268 L



MDF-25V268E



Inner door design

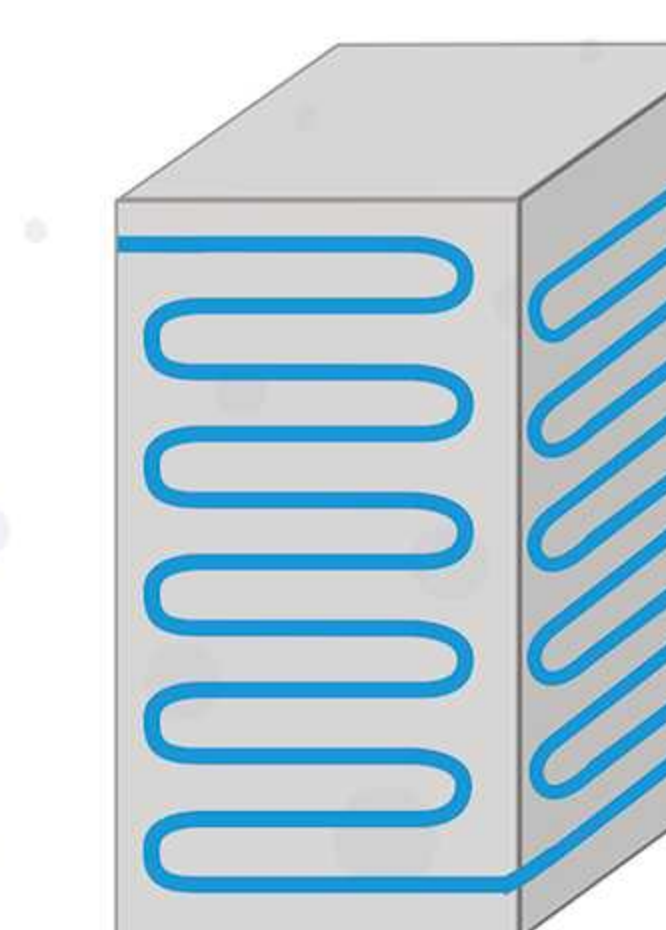
Powder-coated inner doors divide the chamber to individual compartments.

Copper pipe evaporator

Compared to the wire and shelf type evaporators, the copper tube evaporator provides more uniform temperature distribution and higher refrigeration efficiency.

High quality materials

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



Copper tube evaporator



Height-adjustable shelves



Biomedical Deep Freezer

Medical, laboratory storage @ -40°C / -25°C

-40°C 278 L



MDF-40V278W

-25°C 278 L



MDF-25V278W

Copper tube evaporator

Compared to the wire and shelf type evaporators, the copper tube evaporator provides more uniform temperature distribution and higher refrigeration efficiency.

7-drawer design

The 7 drawers allow for better sorting and better management of your different storage items.

High quality materials

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

Lockable cabinet

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

-25°C 100 L



MDF-25V100

Compact design

The unit can be placed on a counter or used in limited spaces, taking up minimal footprint and providing more applications for users.

-40°C Dual System 936 L



MDF-40V936

-25°C Dual System 936 L



MDF-25V936

Dual cooling system

Two independent refrigeration systems operate independently. Even if one system fails, the other can still operate normally. The specially designed dual refrigeration system maximizes the safety of stored items.

Precise controller

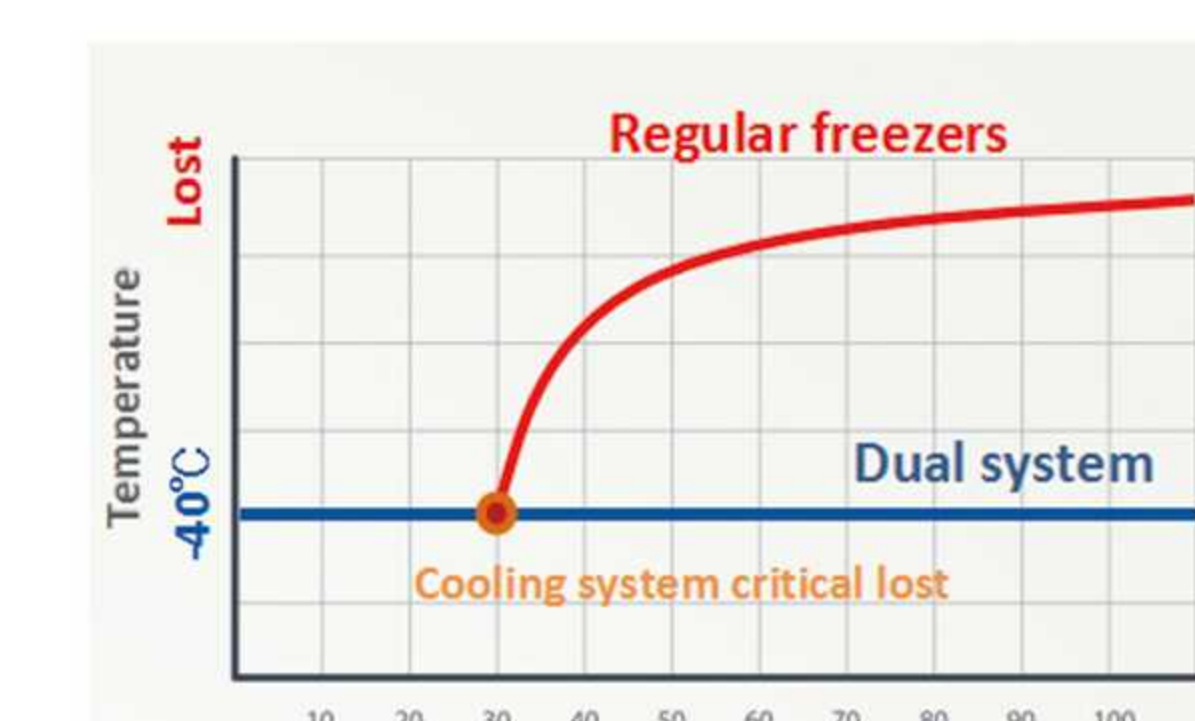
A digital microprocessor temperature controller with LED displays and complete alarms. The precision of display and control is 0.1°C. Pre-set to -25°C/-40°C for general applications. Complete audible and visual alarms

High quality materials

Made of high-quality stainless steel, the interior is antibacterial, anti-corrosive, and easy to clean.

Inner door design

4 stainless steel inner doors and shelves divide the chamber to 4 compartments.



Maximum safety for preservations



Temperature controller



Ergonomic handle



Chest Freezer

Medical, laboratory storage @ -86°C/ -60°C/-40°C / -25°C

-86°C -60°C -40°C -25°C 485 L



MDF-40H485/MDF-25H485

-40°C -25°C 305 L



MDF-40H305/MDF-25H305

-60°C -40°C -25°C 105 L



MDF-40H105/MDF-25H105

Ultimate cooling performance

The efficient refrigeration system quickly cool down the cabinet, providing faster recovery time and more economical energy consumption.

Microprocessor controller

Dixell temperature provides a precise and stable control of the freezer temperature. Display and control accuracy of 0.1°C.



User friendly design

The design of universal casters, self-balancing hinge, and access port provides a worry-free user experience. Lockable buckles provide secure storage space.



Excellent temp uniformity

The tube evaporator and thick insulation improves the refrigeration efficiency ensures more uniform temperature inside.



Accessories

Medical, laboratory storage @ -86°C/ -60°C/-40°C / -25°C



110V power system

Compatibility with 110V power is achieved for the refrigerator by either modifying the compressor or utilizing an additional transformer.



Voltage stabilizer

Stabilize the input voltage of a power source to protect refrigerators from the effects of voltage fluctuations.



Data Logger (TLOG-100EC)

DLW-100EC is an independent monitoring device that records the realtime temperature and provides the necessary alarmsto protect your preservations.



4G/Wifi Data Logger (RCW-360P)

A networked device that can upload real-time temperature data to the cloud. Users can monitor and manage the data through the mobile app or web-based cloud platform.



SS exterior and interior

For customers who need stainless steel materials, there is a special cabinet customization



Racks and boxes

The stainless steel racks and cryo boxes are used for managing biosamples



Wire basket (chest freezer)

More shelves can be provided to meet the diverse needs of customers.



Additional shelves

More shelves can be provided to meet the diverse needs of customers.



Printer

Built-in thermo printer or Dot matrix printer could be equiped to record and print the real-time temperatures.



3Q qualification

Provides documentation for Installation and Operational Qualifications (IQ/OQ), as well as an outline of suggested topics for performance qualification (PQ).





Biomedical Deep Freezer

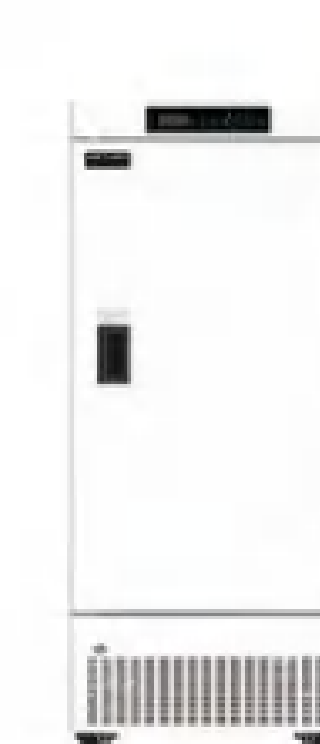
Specifications

-40°C



Specifications	Model	MDF-40V528	MDF-40V358	MDF-40V328E
	Shelf/drawer QTY	Shelves/4 drawers/18	Shelves/4 drawers/12	Shelves/4
	Cooling system	Direct cooling	Direct cooling	Direct cooling
	Defrost	Manual	Manual	Manual
Cooling system	Refrigerant	R290	R290	R290
	Noise(db)	55	49	48
	Ambient temperature (°C)	10~32°C	10~32°C	10~32°C
	Temperature range(°C)	-20 ~ -40°C	-20 ~ -40°C	-20 ~ -40°C
Power	Compressor QTY	2	2	1
	Sensor	NTC	NTC	NTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor
	Display	LED digital display	LED digital display	LED digital display
Materials	Voltage(V)	187~242	187~242	187~242
	Frequency(Hz)	50Hz	50Hz	50Hz
	Power Consumption(kWh/24h)	7.81	6	6.5
	Power (W)	452W	345W	330W
Measurement	Internal material	Coated steel	Coated steel	Coated steel
	External material	Coated steel	Coated steel	Coated steel
	Insulation	CFC-free PURF	CFC-free PURF	CFC-free PURF
	Capacity (L/cu.ft)	528/18.64	358/12.6	328/11.58
Alarms	NT./GT.(kg)	160/180	138/178	104/126
	Exterior size(W*D*H)(mm)	900*818*1875	720*830*1870	673*676*1886
	Interior size(W*D*H)(mm)	(651*631.5*635)*2	(466*636*625)*2	508*455*1393
	Package size(W*D*H)(mm)	921*960*1950	780*920*1990	770*770*2040
Accessories	Shipping CBM	1.8	1.43	1.16
	20GP/40GP/40HQ	12/24/24	18/39/39	21/48/48
	High/low temperature	Y	Y	Y
	Power failure	Y	Y	Y
Accessories	Controller failure	Y	Y	Y
	Filter check	N/A	N/A	N/A
	Sensor error	Y	Y	Y
	Low battery	N/A	N/A	N/A
Accessories	Condenser fault	N/A	N/A	N/A
	Ambient temperature	Y	Y	N/A
	Door ajar	Y	Y	Y
	Power failure alarm	8 hours	8 hours	8 hours
Accessories	Castor	Y	Y	Y
	leveling feet	Y	Y	N/A
	Access port Qty/diameter	2/25mm	2/25mm	1/25mm
	USB Interface	Y	Y	Optional
Accessories	Remote alarm port	Optional Free	Optional Free	Optional Free
	Door type/Qty	Solid/2	Solid/2	Solid/1
	Inner door/Qty	N/A	N/A	Y/5
	Chart recorder	N/A	N/A	N/A
Accessories	Data logger	Optional	Optional	Optional
	Stainless Steel interior	Optional	Optional	Optional

-40°C



Model	MDF-40V268E	MDF-40V278W	MDF-40V936
Shelf/drawer QTY	Shelves/3	Drawer/7	Shelves/3
Cooling system	Direct cooling	Direct cooling	Direct cooling
Defrost	Manual	Manual	Manual
Refrigerant	R290	R290	R404A
Noise(db)	48	50	52
Ambient temperature (°C)	10~32°C	10~32°C	10~32°C
Temperature range(°C)	-20 ~ -40°C	-20 ~ -40°C	-20 ~ -40°C
Compressor QTY	1	1	2
Sensor	NTC	NTC	PT 100
Temperature controller	Microprocessor	Microprocessor	Microprocessor
Display	LED digital display	LED digital display	LED digital display
Voltage(V)	187~242	187~242	187~242
Frequency(Hz)	50Hz	50Hz	50Hz
Power Consumption(kWh/24h)	5.2	5.2	14.5
Power (W)	309W	280W	1000W
Internal material	Coated steel	Coated steel	Stainless steel
External material	Coated steel	Coated steel	Coated steel
Insulation	CFC-free PURF	CFC-free PURF	CFC-free PURF
Capacity (L/cu.ft)	268/9.46	278/9.81	936/33.05
NT./GT.(kg)	98.5/122	110/120	378/413
Exterior size(W*D*H)(mm)	673*676*1630	659*600*1694	1304*1000*2017
Interior size(W*D*H)(mm)	508*455*1137	480*415*1460	1000*700*1335
Package size(W*D*H)(mm)	770*770*1804	710*650*1800	1350*1080*2150
Shipping CBM	1.0	0.9	3.4
20GP/40GP/40HQ	21/45/45	24/54/54	8/16/16
High/low temperature	Y	Y	Y
Power failure	Y	N/A	Y
Controller failure	Y	Y	Y
Filter check	N/A	N/A	Y
Sensor error	Y	Y	Y
Low battery	N/A	N/A	Y
Condenser fault	N/A	N/A	Y
Ambient temperature	N/A	N/A	Y
Door ajar	Y	Y	Y
Power failure alarm	8 hours	N/A	72 hours
Castor	Y	Y	Y
leveling feet	N/A	N/A	N/A
Access port Qty/diameter	1/25mm	1/25mm	1/18mm
USB Interface	Optional	N/A	Y
Remote alarm port	Optional Free	N/A	Y
Door type/Qty	Solid/1	Solid/1	Solid/1
Inner door/Qty	Y/4	N/A	Y/4
Chart recorder	N/A	N/A	Optional
Data logger	Optional	Optional	Optional
Stainless Steel interior	Optional	Optional	Y



Biomedical Deep Freezer

Specifications

-25°C



	Model	MDF-25V528	MDF-25V358	MDF-25V328E
Specifications	Shelf/drawer QTY	Shelves/4 drawers/18	Shelves/4 drawers/12	Shelves/4
	Cooling system	Direct cooling	Direct cooling	Direct cooling
	Defrost	Manual	Manual	Manual
	Refrigerant	R290	R290	R290
	Noise(db)	55	49	46
Cooling system	Ambient temperature (°C)	10~32°C	10~32°C	10~32°C
	Temperature range(°C)	-10 ~ -25°C	-10 ~ -25°C	-10 ~ -25°C
	Compressor QTY	2	2	1
	Sensor	NTC	NTC	NTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor
Power	Display	LED digital display	LED digital display	LED digital display
	Voltage(V)	187~242	187~242	187~242
	Frequency(Hz)	50Hz	50Hz	50Hz
	Power Consumption(kWh/24h)	3.4	5.5	1.7
	Power (W)	260W	310W	218W
Materials	Internal material	Coated steel	Coated steel	Coated steel
	External material	Coated steel	Coated steel	Coated steel
	Insulation	CFC-free PURF	CFC-free PURF	CFC-free PURF
	Capacity (L/cu.ft)	528/18.64	358/12.6	328/11.58
	NT./GT.(kg)	160/180	138/178	104/126
Measurement	Exterior size(W*D*H)(mm)	900*818*1875	720*830*1870	673*676*1886
	Interior size(W*D*H)(mm)	(651*631.5*635)*2	(466*636*625)*2	508*455*1393
	Package size(W*D*H)(mm)	921*960*1875	780*920*1990	770*770*2040
	Shipping CBM	1.8	1.4	1.2
	20GP/40GP/40HQ	12/24/24	18/39/39	21/48/48
Alarms	High/low temperature	Y	Y	Y
	Power failure	Y	Y	Y
	Controller failure	Y	Y	Y
	Filter check	N/A	N/A	N/A
	Sensor error	Y	Y	Y
Accessories	Low battery	N/A	N/A	N/A
	Condenser fault	N/A	N/A	N/A
	Ambient temperature	Y	Y	N/A
	Door ajar	Y	Y	Y
	Power failure alarm	8 hours	8 hours	8 hours
	Castor	Y	Y	Y
	leveling feet	Y	Y	N/A
	Access port Qty/diameter	2/25mm	2/25mm	1/25mm
	USB Interface	Y	Y	Optional
	Remote alarm port	Optional Free	Optional Free	Optional Free
	Door type/Qty	Solid/2	Solid/2	Solid/1
	Inner door/Qty	N/A	N/A	Y/5
	Chart recorder	N/A	N/A	N/A
	Data logger	Optional	Optional	Optional
	Stainless Steel interior	Optional	Optional	Optional

	Model	MDF-25V268E	MDF-25V278W	MDF-25V936	MDF-25V100
Specifications	Shelf/drawer QTY	Shelves/3	Drawer/7	Shelves/3	Shelves/3 Drawer/3
	Cooling system	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost	Manual	Manual	Manual	Manual
	Refrigerant	R290	R290	R404A	R600a
	Noise(db)	50	46	50	50
Cooling system	Ambient temperature (°C)	10~32°C	10~32°C	10~32°C	10~32°C
	Temperature range(°C)	-10 ~ -25°C	-10 ~ -25°C	-10 ~ -25°C	-10 ~ -25°C
	Compressor QTY	1	1	1	1
	Sensor	NTC	NTC	PT 100	NTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Power	Display	LED digital display	LED digital display	LED digital display	LED digital display
	Voltage(V)	187~242	187~242	187~242	187~242
	Frequency(Hz)	50Hz	50Hz	50Hz	50Hz
	Power Consumption(kWh/24h)	3.0	2.45	10.0	2.2
	Power (W)	215W	195W	1000W	73W
Materials	Internal material	Coated steel	Coated steel	Stainless steel	HIPS
	External material	Coated steel	Coated steel	Coated steel	Coated steel
	Insulation	CFC-free PURF	CFC-free PURF	CFC-free PURF	CFC-free PURF
	Capacity (L/cu.ft)	268/9.46	278/9.81	936/33.05	100/3.53
	NT./GT.(kg)	92/114	105/115	378/413	32/43
Measurement	Exterior size(W*D*H)(mm)	673*676*1620	659*600*1694	1304*1000*2017	540*553*877
	Interior size(W*D*H)(mm)	508*455*1137	480*415*1460	1000*700*1335	410*410*670
	Package size(W*D*H)(mm)	770*770*1804	710*650*1800	1350*1080*2150	590*590*900
	Shipping CBM	1.0	0.9	3.4	0.3
	20GP/40GP/40HQ	21/45/45	24/51/51	8/16/16	54/120/120
Alarms	High/low temperature	Y	Y	Y	Y
	Power failure	Y	N/A	Y	Y
	Controller failure	Y	Y	Y	Y
	Filter check	N/A	N/A	Y	N/A
	Sensor error	Y	Y	Y	Y
Accessories	Low battery	N/A	N/A	Y	N/A
	Condenser fault	N/A	N/A	Y	N/A
	Ambient temperature	N/A	N/A	Y	N/A
	Door ajar	Y	Y	Y	Y
	Power failure alarm	8 hours	N/A	72 hours	8 hours
	Castor	Y	Y	Y	N/A
	leveling feet	N/A	N/A	N/A	N/A
	Access port Qty/diameter	1/25mm	1/25mm	1/18mm	N/A
	USB Interface	Optional Free	N/A	Y	N/A
	Remote alarm port	Optional	N/A	Y	N/A
	Door type/Qty	Solid/1	Solid/1	Solid/1	Solid/1
	Inner door/Qty	Y/4	N/A	Y/4	N/A
	Chart recorder	N/A	N/A	Optional	N/A
	Data logger	Optional	Optional	Optional	Optional
	Stainless Steel interior	Optional	Optional	Y	N/A



Biomedical Chest Freezer

Specifications

-40°C



	Model			
		MDF-40H485	MDF-40H305	MDF-40H105
Specifications	Basket/Rack	Optional	Optional	Optional
	Cooling system	Direct cooling	Direct cooling	Direct cooling
	Defrost	Manual	Manual	Manual
	Refrigerant	R290	R290	R290
Cooling system	Noise(db)	55	50	50
	Ambient temperature (°C)	10~32°C	10~32°C	10~32°C
	Temperature range(°C)	-20 ~ -40°C	-20 ~ -40°C	-20 ~ -40°C
	Compressor QTY	1	1	1
Power	Sensor	NTC	NTC	NTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor
	Display	LED digital display	LED digital display	LED digital display
	Voltage(V)	187~242	187~242	187~242
Materials	Frequency(Hz)	50Hz	50Hz	50Hz
	Power Consumption(kWh/24h)	3.53	2.1	1.49
	Power (W)	300W	162W	175W
	Internal material	Stainless steel	Coated steel	Stainless steel
Measurement	External material	Coated steel	Coated steel	Coated steel
	Insulation	CFC-free PURF	CFC-free PURF	CFC-free PURF
	Capacity (L/cu.ft)	485/17.12	305/10.7	105/3.70
	NT./GT.(kg)	124/138	80/85	62/70
Alarms	Exterior size(W*D*H)(mm)	1667*863*949	1210*833*941	694*686*942
	Interior size(W*D*H)(mm)	1455*525*665	1000*380*665	480*380*665
	Package size(W*D*H)(mm)	1775*900*1050	1295*842*1070	770*705*1090
	Shipping CBM	1.7	1.2	0.6
Accessories	20GP/40GP/40HQ	12/26/26	22/46/46	24/51/51
	High/low temperature	Y	Y	Y
	Power failure	Y	Y	Y
	Controller failure	Y	Y	Y
	Filter check	N/A	N/A	N/A
	Sensor error	Y	Y	Y
	Low battery	N/A	N/A	N/A
	Condenser fault	N/A	N/A	N/A
	Ambient temperature	N/A	N/A	N/A
	Door ajar	N/A	N/A	N/A
	Power failure alarm	12h	12h	12h
	Castor	Y	Y	Y
	leveling feet	N/A	N/A	N/A
	Access port Qty/diameter	1/25mm	1/25mm	1/25mm
	USB Interface	N/A	N/A	N/A
	Remote alarm port	N/A	N/A	N/A
	Door type/Qty	Solid/1	Solid/1	Solid/1
	Inner door/Qty	N/A	N/A	N/A
	Chart recorder	N/A	N/A	N/A
	Data logger	Optional	Optional	Optional
	Stainless Steel interior	Y	Optional	Y

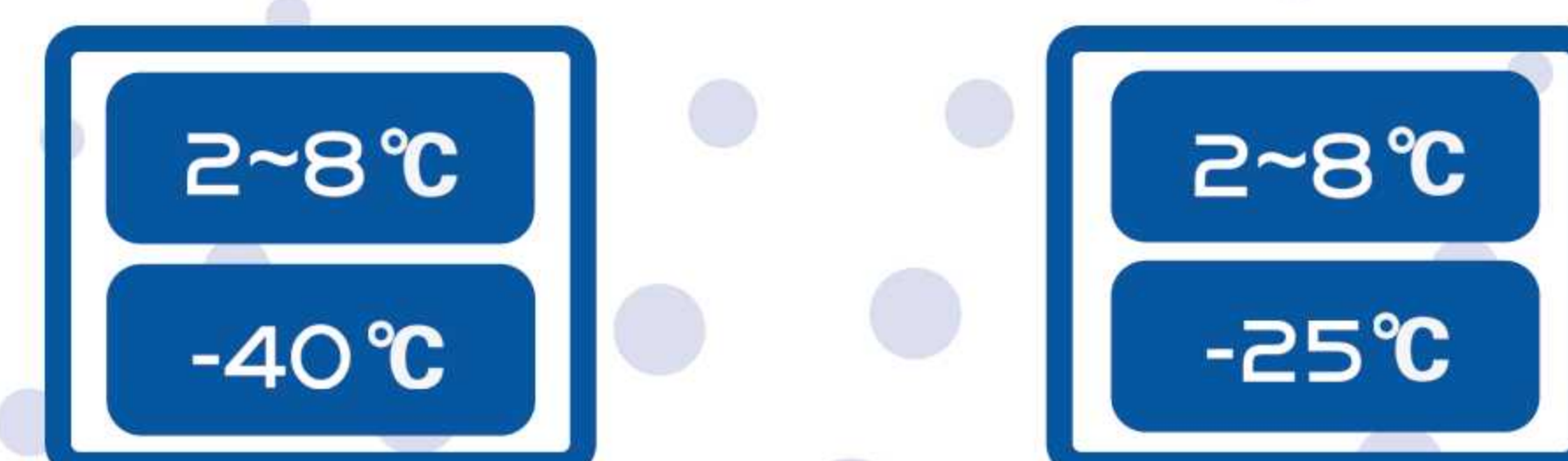
-25°C



	Model			
		MDF-25H485	MDF-25H305	MDF-25H105
Specifications	Basket/Rack	Optional	Optional	Optional
	Cooling system	Direct cooling	Direct cooling	Direct cooling
	Defrost	Manual	Manual	Manual
	Refrigerant	R290	R290	R290
Cooling system	Noise(db)	55	49	46
	Ambient temperature (°C)	10~32°C	10~32°C	10~32°C
	Temperature range(°C)	-10 ~ -25°C	-10 ~ -25°C	-10 ~ -25°C
	Compressor QTY	1	1	1
Power	Sensor	NTC	NTC	NTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor
	Display	LED digital display	LED digital display	LED digital display
	Voltage(V)	187~242	187~242	187~242
Materials	Frequency(Hz)	50Hz	50Hz	50Hz
	Power Consumption(kWh/24h)	3.45	1.8	1.6
	Power (W)	295W	128W	174W
	Internal material	Stainless steel	Coated steel	Coated steel
Measurement	External material	Coated steel	Coated steel	Coated steel
	Insulation	CFC-free PURF	CFC-free PURF	CFC-free PURF
	Capacity (L/cu.ft)	485/17.12	305/10.7	105/3.70
	NT./GT.(kg)	124/138	66/70	31/34
Alarms	Exterior size(W*D*H)(mm)	1655*755*915	1140*742*883	621*588*883
	Interior size(W*D*H)(mm)	1455*525*665	1000*520*665	480*380*665
	Package size(W*D*H)(mm)	1710*885*1020	1225*772*1010	670*610*980
	Shipping CBM	1.66	1.2	0.6
Accessories	20GP/40GP/40HQ	12/26/26	22/46/46	24/51/51
	High/low temperature	Y	Y	Y
	Power failure	Y	Y	Y
	Controller failure	Y	Y	Y
	Filter check	N/A	N/A	N/A
	Sensor error	Y	Y	Y
	Low battery	N/A	N/A	N/A
	Condenser fault	N/A	N/A	N/A
	Ambient temperature	N/A	N/A	N/A
	Door ajar	N/A	N/A	N/A
	Power failure alarm	12h	12h	12h
	Castor	Y	Y	Y
	leveling feet	N/A	N/A	N/A
	Access port Qty/diameter	1/25mm	1/25mm	1/25mm
	USB Interface	N/A	N/A	N/A
	Remote alarm port	N/A	N/A	N/A
	Door type/Qty	Solid/1	Solid/1	Solid/1
	Inner door/Qty	N/A	N/A	N/A
	Chart recorder	N/A	N/A	N/A
	Data logger	Optional	Optional	Optional
	Stainless Steel interior	Y	Optional	Optional

Biomedical Combined Refrigerator & Freezer

Combined Refrigerator and Freezer is widely used in hospitals, blood stations and laboratories.

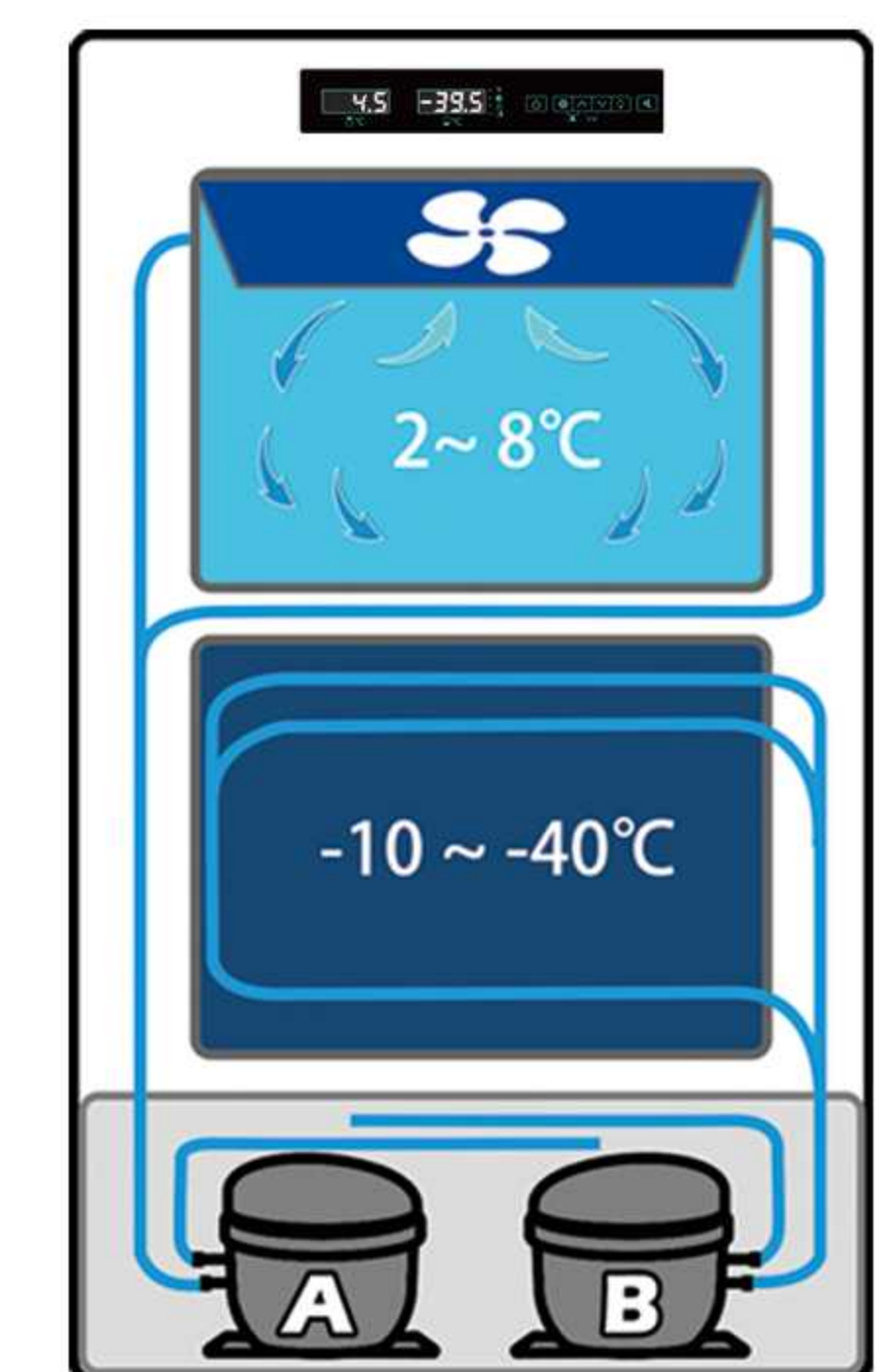


Dual cooling system

This unit is equipped with 2 independent cooling systems, one for the upper compartment and the other for the lower compartment. Each system has its own independent control system, allowing for individual temperature settings.

Multiple applications

The unit 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.



Green Earth

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



Precise Controller

- A digital microprocessor temperature controller with LED display and alarm back up power
- The precision of display and control is 0.1℃
- Pre-set : Refrigerator @ 5℃, Freezer @ -25℃/-40℃.
- Audible and visual alarms
- Standard USB port for easily data download





Biomedical Combined Refrigerator & Freezer

2~8°C

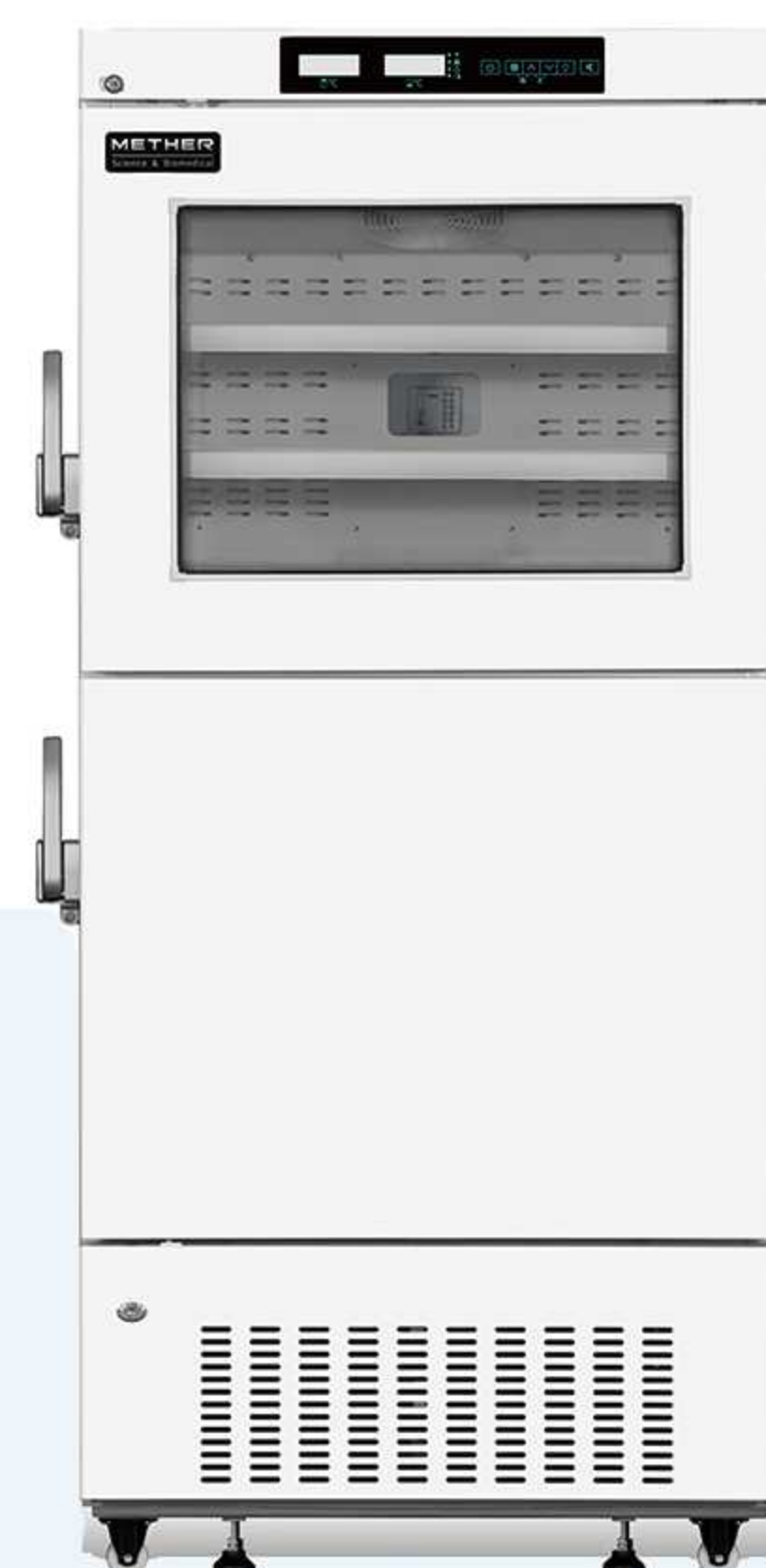
-40°C



MRF-40V528

2~8°C

-25°C



MRF-25V528

2~8°C

-40°C



MRF-40V368

2~8°C

-25°C



MRF-25V368

Forced air circulation

The forced-air circulation system of the unit maintains uniform chamber temperatures and provide fast temperature recovery after door openings.



Cold air distribution system

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.



Easy open handles

Copper pipe evaporator

Compared to the wire and shelf type evaporators, the copper tube evaporator provides more uniform temperature distribution and higher refrigeration efficiency.



USB interface

High quality materials

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





Biomedical Combined Refrigerator & Freezer



Accessories

For Biomedical Combined Refrigerator & Freezer

2~8°C

-25°C



MRF-25V300

Precise Controller

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



Dual cooling system

This unit is equipped with 2 independent cooling systems—one for the upper chamber and the other for the lower chamber. Each system has its own independent control system, allowing for individual temperature settings.

Forced air circulation (Refrigerator)

The forced-air circulation system of the unit maintains uniform chamber temperatures and provides fast temperature recovery after door openings.



Cold air distribution system



Freezer drawers

Variable space

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



110V power system

Compatibility with 110V power is achieved for the refrigerator by either modifying the compressor or utilizing an additional transformer.



Voltage stabilizer

Stabilize the input voltage of a power source to protect refrigerators from the effects of voltage fluctuations.



Data Logger (TLOG-100EC)

DLW-100EC is an independent monitoring device that records the real-time temperature and provides the necessary alarms to protect your preservations.



4G/Wifi Data Logger (RCW-360P)

A networked device that can upload real-time temperature data to the cloud. Users can monitor and manage the data through the mobile app or web-based cloud platform.



SS exterior and interior

For customers who need stainless steel materials, there is a special cabinet customization.



Additional shelves

More shelves can be provided to meet the diverse needs of customers.



Printer

Built-in thermo printer or Dot matrix printer could be equipped to record and print the real-time temperatures.



3Q qualification

Provides documentation for Installation and Operational Qualifications (IQ/OQ), as well as an outline of suggested topics for performance qualification (PQ).





Biomedical Combined Refrigerator & Freezer



	Model	MRF-40V528	MRF-40V368	MRF-25V528	MRF-25V368	MRF-25V300
Specifications	Shelf/drawer QTY	Shelves/5 drawers/9	Shelves/5 drawers/6	Shelves/5 drawers/9	Shelves/5 drawers/6	Shelves/2 drawers/3
	Cooling system	Forced air	Forced air	Forced air	Forced air	Forced air
	Defrost	Ref: Auto Fr: Manual	Ref: Auto Fr: Manual	Ref: Auto Fr: Manual	Ref: Auto Fr: Manual	Ref: Auto Fr: Manual
	Refrigerant	Ref: R290a Fr: R290	Ref: R290a Fr: R290	Ref: R290a Fr: R290	Ref: R290a Fr: R290	Ref: R290 Fr: R290
	Noise(db)	52	50	52	50	49
	Ambient temperature (°C)	10~32°C	10~32°C	10~32°C	10~32°C	10~32°C
	Temperature range (°C)	Ref: 2 ~ 8°C Fr: -20 ~ -40°C	Ref: 2 ~ 8°C Fr: -20 ~ -40°C	Ref: 2 ~ 8°C Fr: -10 ~ -25°C	Ref: 2 ~ 8°C Fr: -10 ~ -25°C	Ref: 2 ~ 8°C Fr: -10 ~ -25°C
	Compressor QTY	2	2	2	2	2
	Sensor	NTC	NTC	NTC	NTC	NTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Cooling system	Display	LED digital display	LED digital display	LED digital display	LED digital display	LED digital display
	Voltage(V)	187~242	187~242	187~242	187~242	187~242
	Frequency(Hz)	50Hz	50Hz	50Hz	50Hz	50Hz
	Power Consumption(kWh/24h)	7.0	6.8	5.5	4.83	3.3
Power	Power (W)	527W	458W	431W	363W	349W
	Internal material	Coated steel	Coated steel	Coated steel	Coated steel	HIPS
	External material	Coated steel	Coated steel	Coated steel	Coated steel	Coated steel
	Insulation	CFC-free PURF	CFC-free PURF	CFC-free PURF	CFC-free PURF	CFC-free PURF
Materials	Capacity (L/cu.ft)	528/18.64 Ref: 273/9.64 Fr: 255/9.0	368/12.99 Ref: 183/6.46 Fr: 185/6.53	528/18.64 Ref: 273/9.64 Fr: 255/9.0	368/12.99 Ref: 183/6.46 Fr: 185/6.53	300/10.59 Ref: 198/6.99 Fr: 102/3.60
	NT./GT.(kg)	174/194	145/175	168/188	130/170	100/120
	Exterior size(W*D*H)(mm)	900*818*1870	720*830*1870	900*818*1870	720*830*1870	650*620*1980
	Interior size(W*D*H)(mm)	765*640*635	580*626*625	765*640*635	580*626*625	565*480*759
Measurement	Package size(W*D*H)(mm)	921*960*1950	780*920*2000	921*960*1950	780*920*2000	706*674*2020
	Shipping CBM	1.8	1.4	1.8	1.4	1.0
	20GP/40GP/40HQ	12/24/24	14/39/39	12/24/24	14/39/39	24/48/48
	High/low temperature	Y	Y	Y	Y	Y
Alarms	Power failure	Y	Y	Y	Y	Y
	Controller failure	Y	Y	Y	Y	Y
	Filter check	N/A	N/A	N/A	N/A	N/A
	Sensor error	Y	Y	Y	Y	Y
Accessories	Low battery	Optional Free	Optional Free	Optional Free	Optional Free	N/A
	Condenser fault	Y	Y	Y	Y	N/A
	Ambient temperature	Y	Y	Y	Y	N/A
	Door ajar	Y	Y	Y	Y	Y
	Power failure alarm	8 hours	8 hours	8 hours	8 hours	8 hours
	Castor	Y	Y	Y	Y	Y
	leveling feet	Y	Y	Y	Y	N/A
	Access port Qty/diameter	2/25mm	2/25mm	2/25mm	2/25mm	2/25mm
	USB Interface	Y	Y	Y	Y	N/A
	Remote alarm port	Optional Free	Optional Free	Optional Free	Optional Free	Optional Free
	Door type	Ref: Foamed glass Fr: Solid	Ref: Foamed glass Fr: Solid	Ref: Foamed glass Fr: Solid	Ref: Foamed glass Fr: Solid	Ref: Solid Fr: Solid
	Chart recorder	N/A	N/A	N/A	N/A	N/A
	Data logger	Optional	Optional	Optional	Optional	Optional
	Stainless Steel interior	Optional	Optional	Optional	Optional	N/A



Pharmacy Refrigerator

Widely used in hospitals pharmacy stores and laboratories.
For preserving storage such as drugs, vaccines, enzymes,
hormones, stem cells, extracted RNA and gene libraries and
important biological and chemical reagents.

2~8°C

MEDICAL GRADE



Safe storage



Precise temp control



Forced-air



Alarms



Eco-friendly

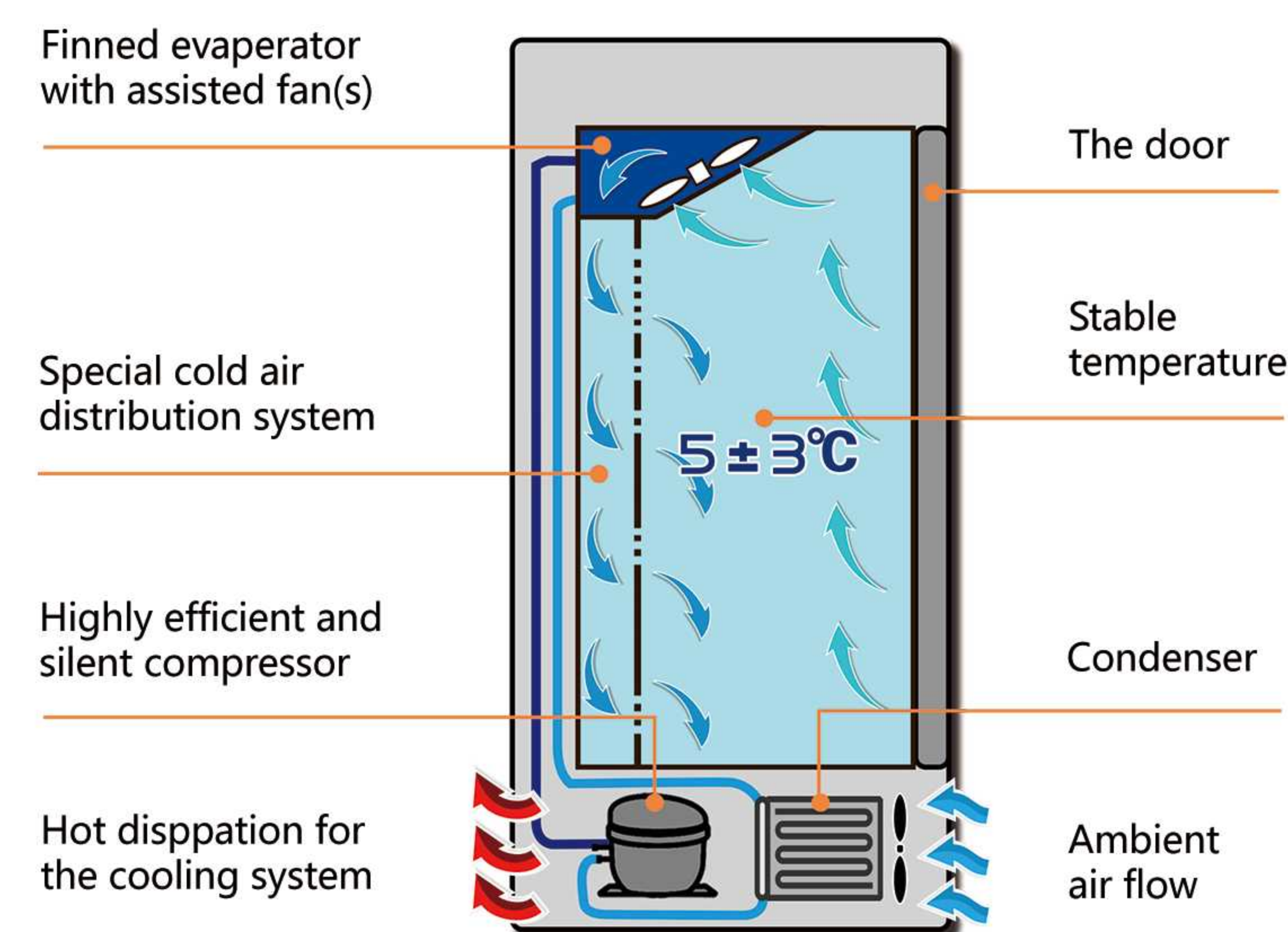


Innovative Temperature Control

Maintain a constant temperature between 2°C to 8°C

Advanced air circulation

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



Green Earth

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



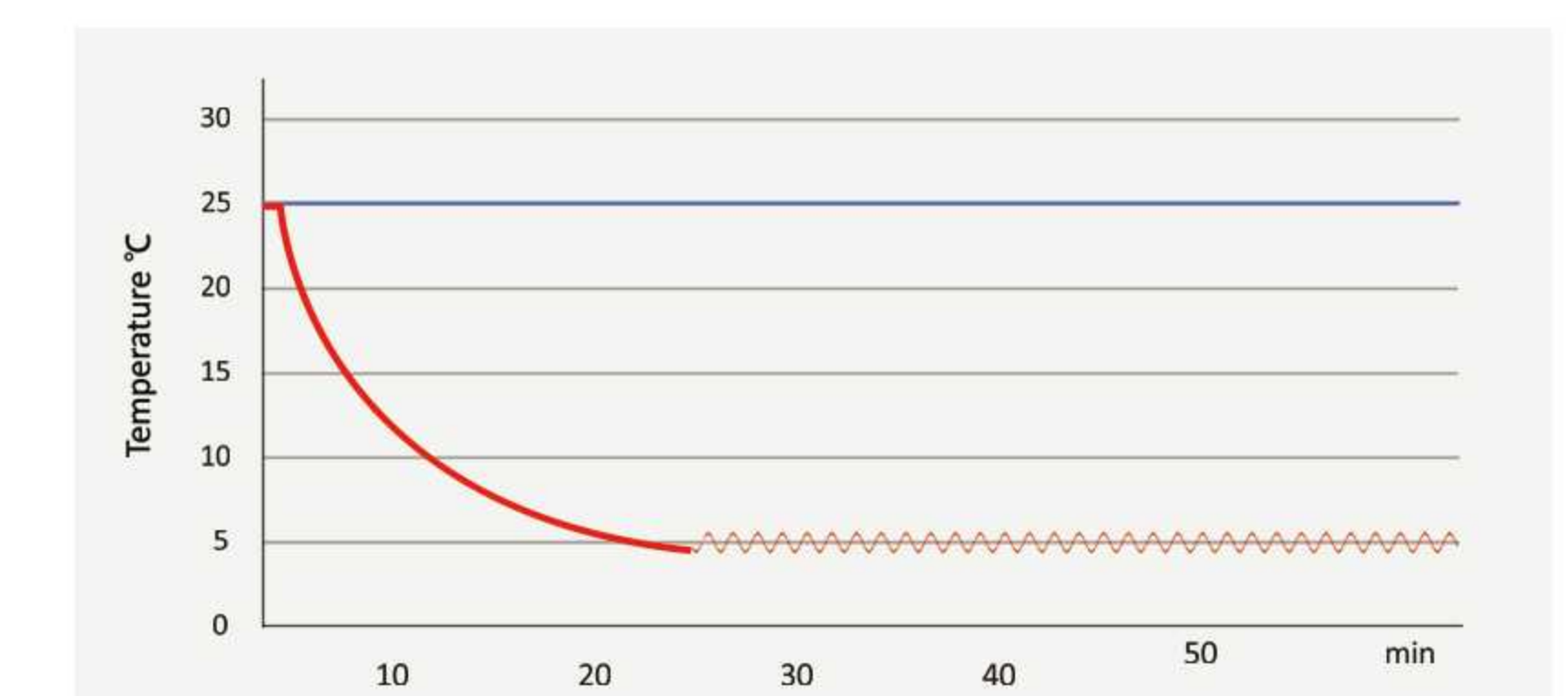
Precise Controller

- A digital microprocessor temperature controller with LED display and alarm back up power.
- The precision of display and control is 0.1°C.
- Pre-set to 5°C for pharmacy refrigerators.
- Audible and visual alarms
- Internal USB data logger (optional)



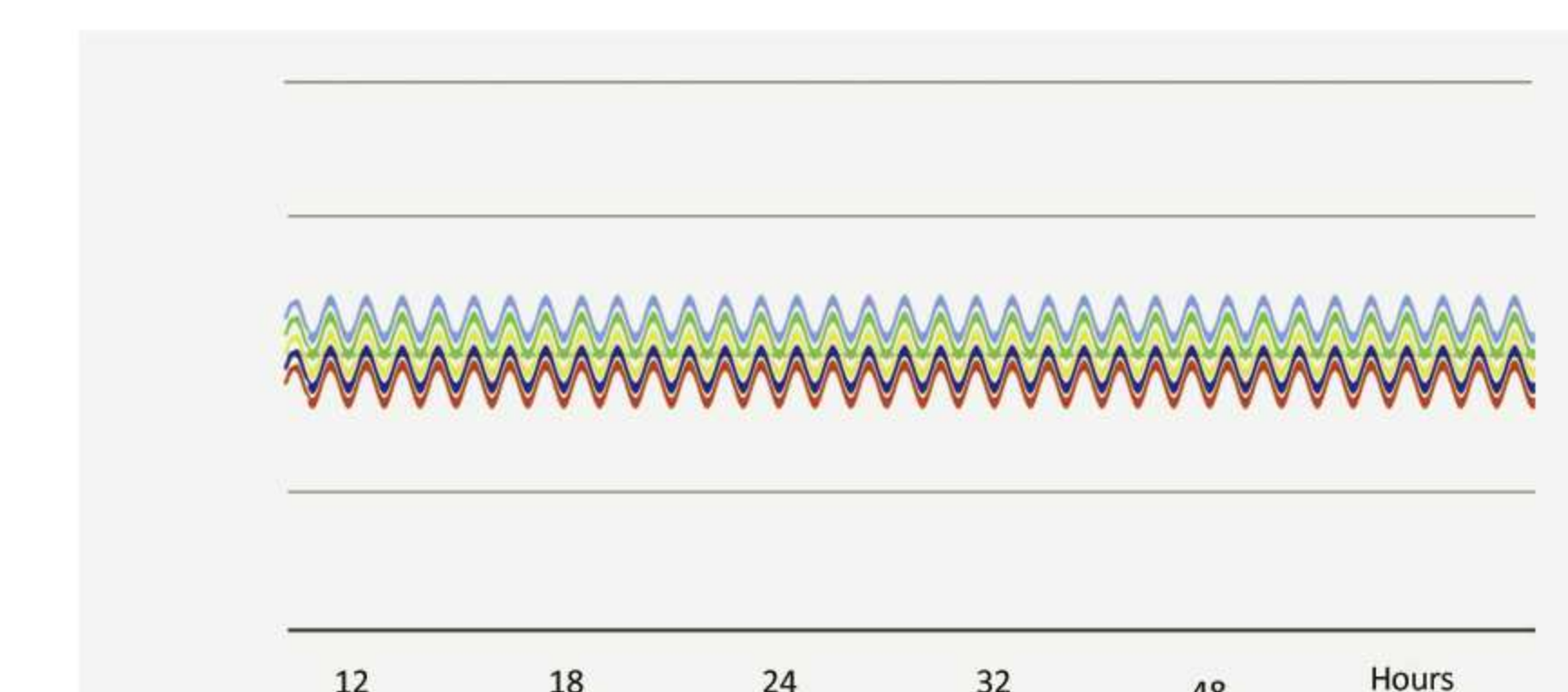
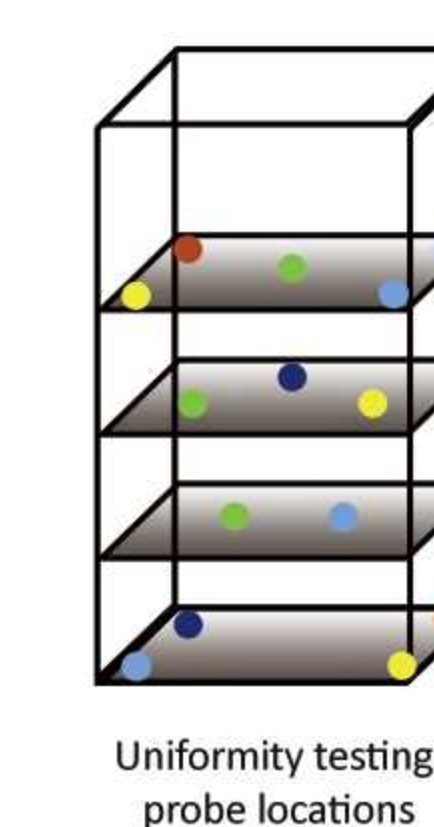
Optimized Fluctuation

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.



Ultimate Uniformity

The cabinet maintain temperatures within $\pm 3^\circ\text{C}$ throughout the entire compartment, ensuring confidence that items are stored at the correct temperature regardless of their placement in the chamber.



Fast Recovery

Faster temperature recovery even after prolonged door opening. The forced-air cooling system maintains consistent temperatures, ensuring that the blood is stored at the right temperature even when the door is opened frequently.



Pharmacy Refrigerator

Pharmacy, vaccine storage @ 2°C ~8°C

1006 Liters



MPC-5V1006

1006 Liters



MPC-5V1006A

Glycerine box inside

Glycerine boxes are used to simulate the actual temperature of the blood. The temperature sensor detects the temperature of the glycerin, so that the controller drives the cooling system to ensure optimal temperature stability of the chamber.



High efficient fans

Electrically heated glass door

Fog or condensation often occurs when opening and closing the door. However, this can be easily prevented with the electrically heated glass door, which quickly evaporate any moisture.



Glycerine box

High quality materials

The double-door series products are made of high-quality coated cold-rolled steel both inside and outside, which is anti-corrosive, and easy to clean.



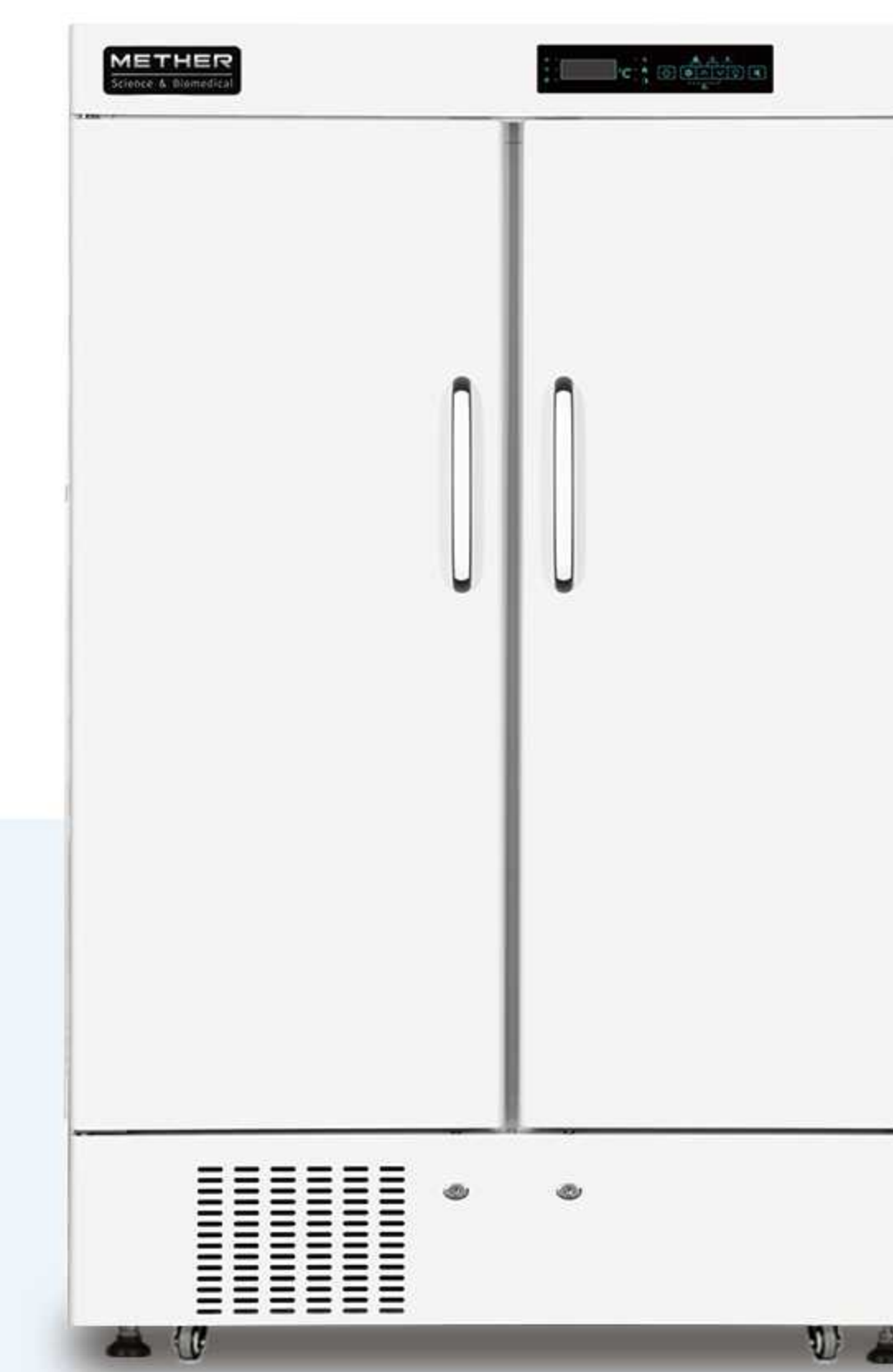
Heated glass

656 Liters



MPC-5V656

656 Liters



MPC-5V656A

Solid doors (optional)

Made of powder coated steel, the solid doors are filled with thick PU foam(40mm) to achieve faster door opening recovery time. No risk of glass door cracking in extreme environments. With improved insulation performance, the solid door type units require lower energy consumption.



Height-adjustable shelves

Variable inner space

The removable and height-adjustable plastic-coated wire steel shelves are capable of supporting a max weight of 25kg each.



Access port

Lockable cabinets

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

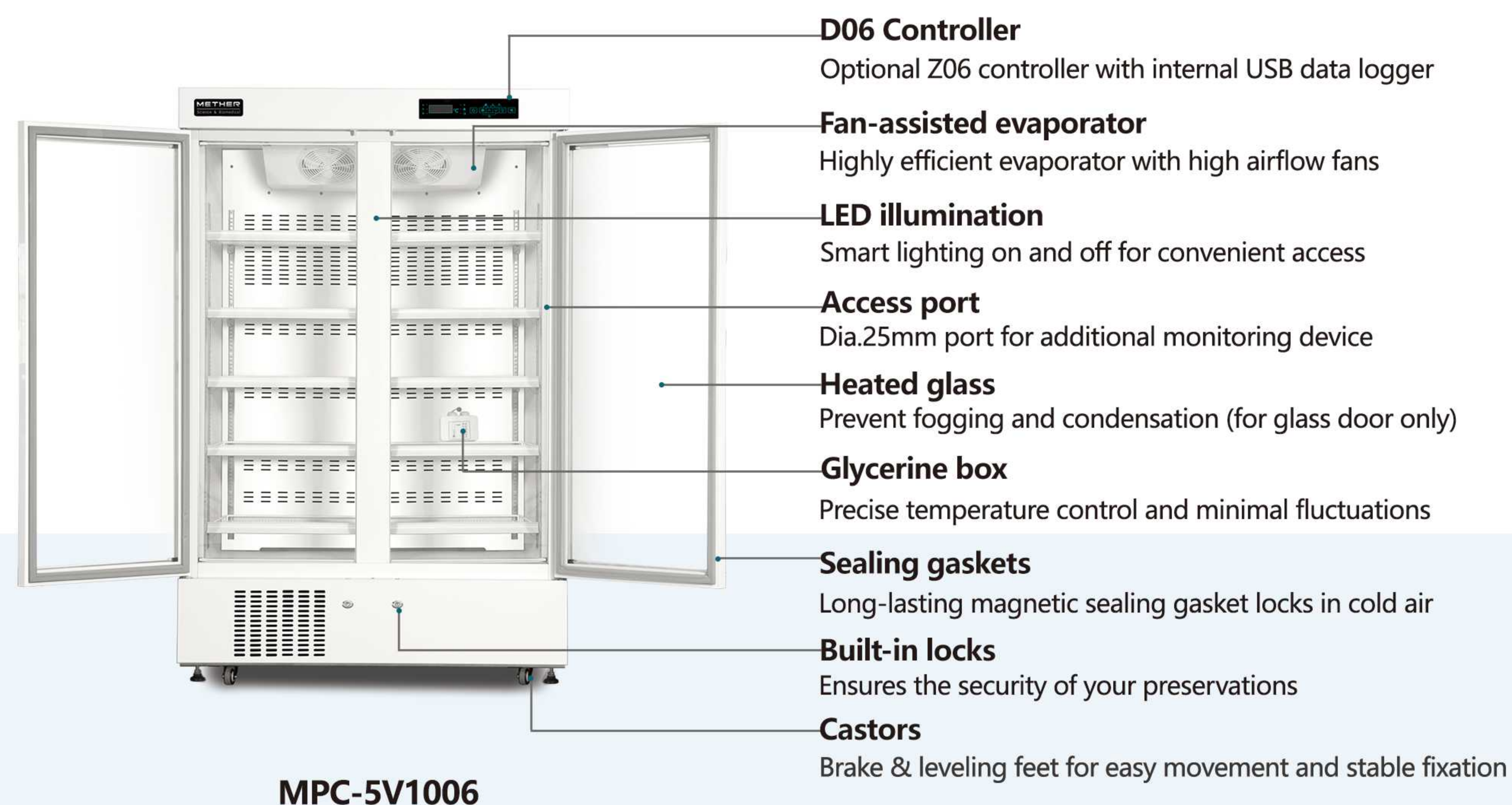


Castors & leveling feet

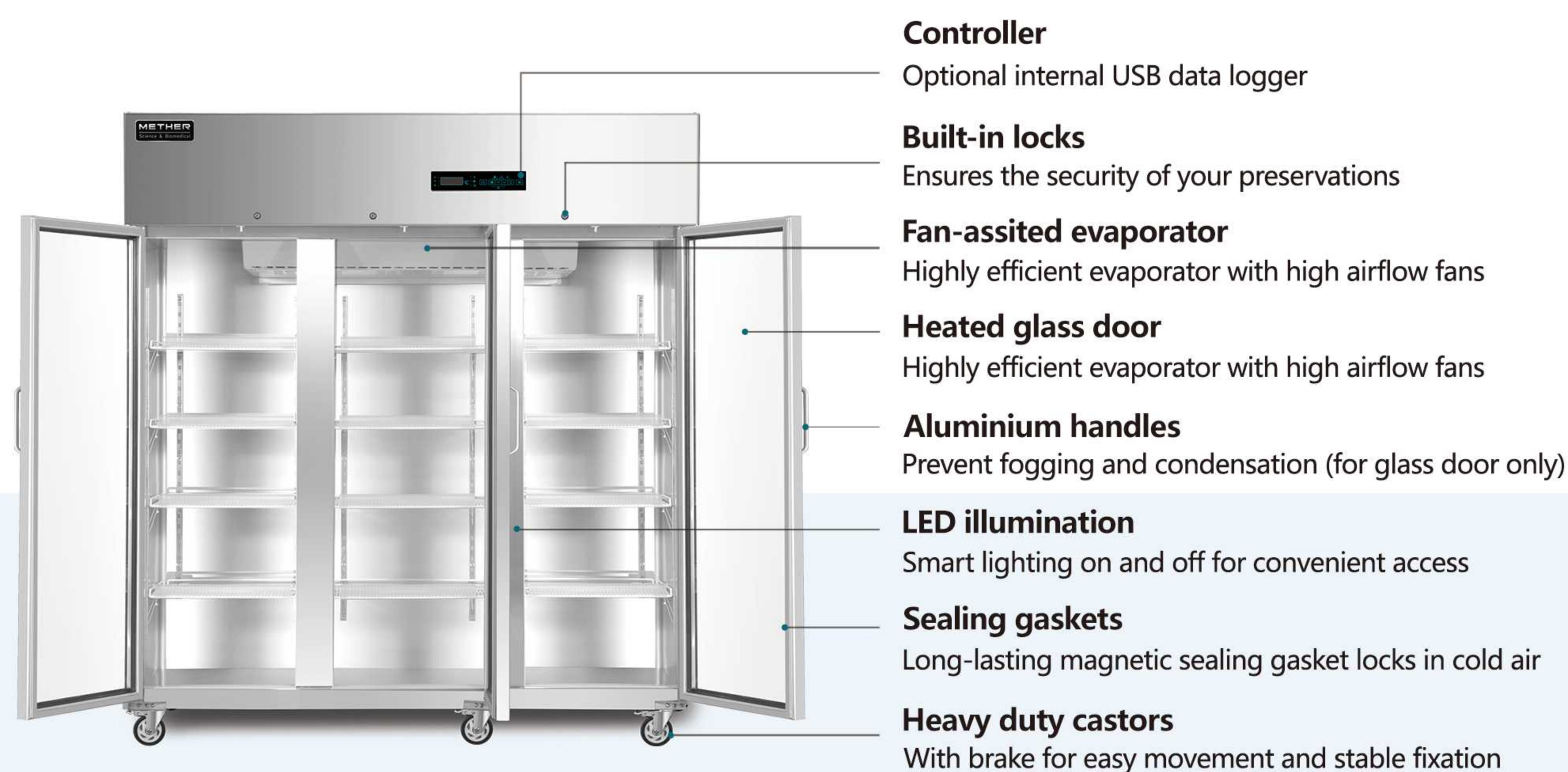


Pharmacy Refrigerator

Pharmacy, vaccine storage @ 2°C ~8°C



MPC-5V1006



MPC-5V1500

1500 Liters



MPC-5V1500

Powerful air-cooled circulation

The powerful compressor and 3 evaporator fans drive strong air-circulation in the chamber, enabling temperature uniformity even in large spaces and quick recovery of temperature after opening the door.



Evaporator fans
Quiet running and high efficiency

Electrically heated glass doors

Fog or condensation often occurs when opening and closing the door. However, this can be easily prevented with the electrically heated glass doors, which quickly evaporate any moisture.



LED illumination
Lighting up the entire interior space

Variable large space

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

High quality materials

Made of high-quality stainless steel both interior and exterior, which is antibacterial, anti-corrosive, and easy to clean.



Universal castors
Easy to move and install



Pharmacy Refrigerator

Pharmacy, vaccine storage @ 2°C ~8°C

415 Liters



MPC-5V415

315 Liters



MPC-5V315

416 Liters



MPC-5V416

316 Liters



MPC-5V316

Double Glycerine box

2 glycerine boxes, each equipped with a temperature sensor, are distributed in the upper and lower parts of the chamber for more precise temperature control.

Electrically heated glass door

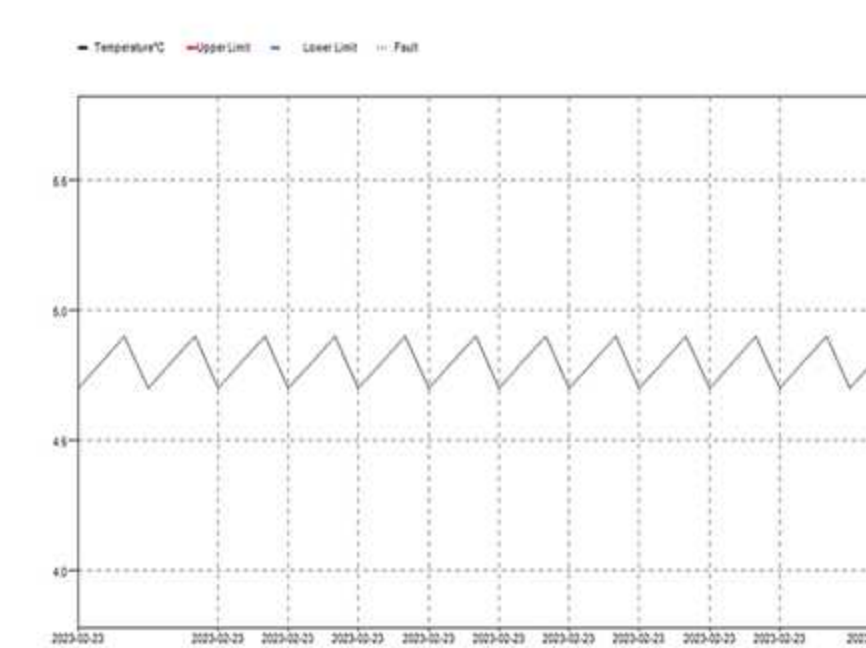
Fog or condensation often occurs when opening and closing the door. However, this can be easily prevented with the electrically heated glass door, which quickly evaporate any moisture.

Internal USB data logger

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

8 temperature sensors

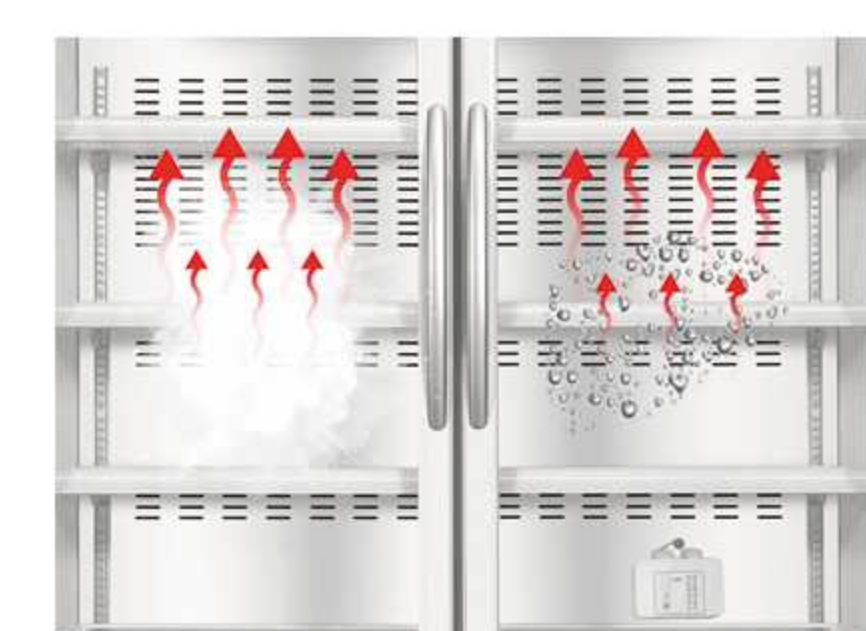
Built-in with 8 sensors, including upper temperature sensor, lower temperature sensor, ambient temperature sensor, humidity sensor, temperature control/alarm sensor, condenser temperature sensor, evaporator temperature sensor, and one backup sensor.



Temperature fluctuation within 1°C @ ambient 25°C



USB interface



Heated glass

High quality materials

The double-door series products are made of high-quality coated cold-rolled steel both inside and outside, which is anti-corrosive, and easy to clean.

Variable inner space

The removable and height-adjustable plastic-coated wire steel shelves are capable of supporting a max weight of 25kg each.

Lockable cabinets

The refrigerators are standard with the built-in lock for each door, provides a secure storage space for your preservations.



Height-adjustable shelves



Access port



Castors & leveling feet



Pharmacy Refrigerator

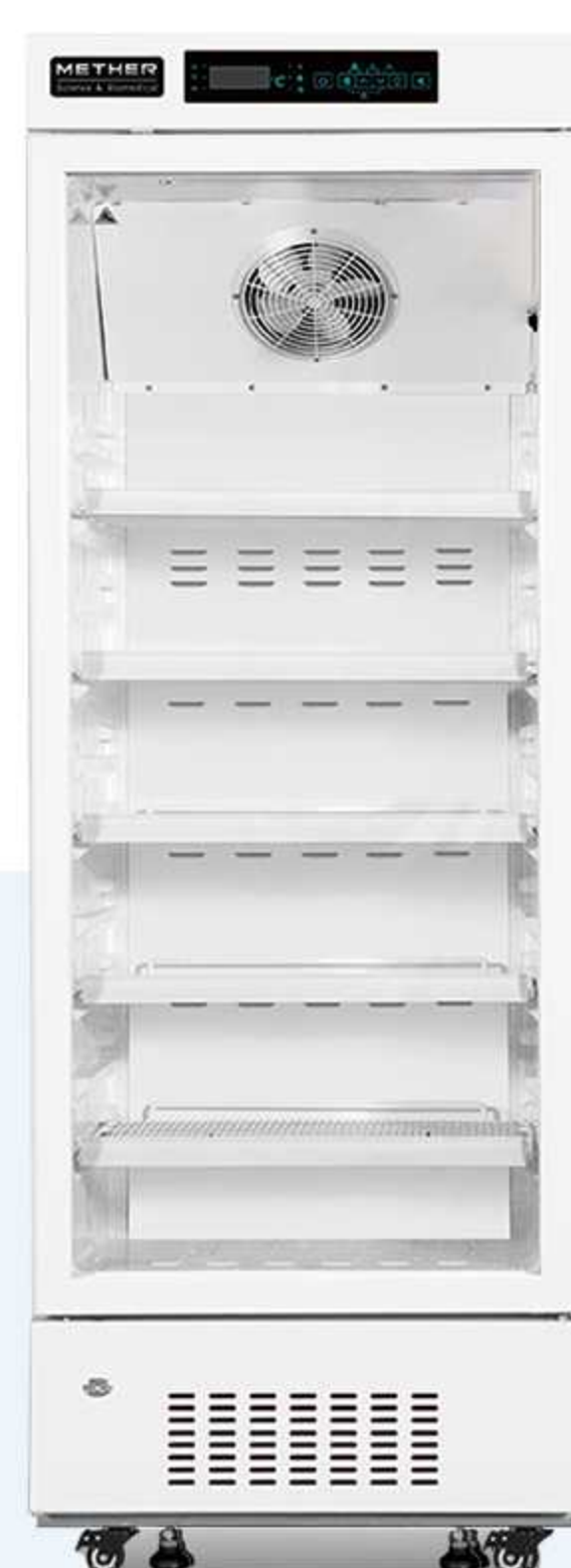
Pharmacy, vaccine storage @ 2°C ~8°C

312 Liters

226 Liters

100 Liters

100 Liters



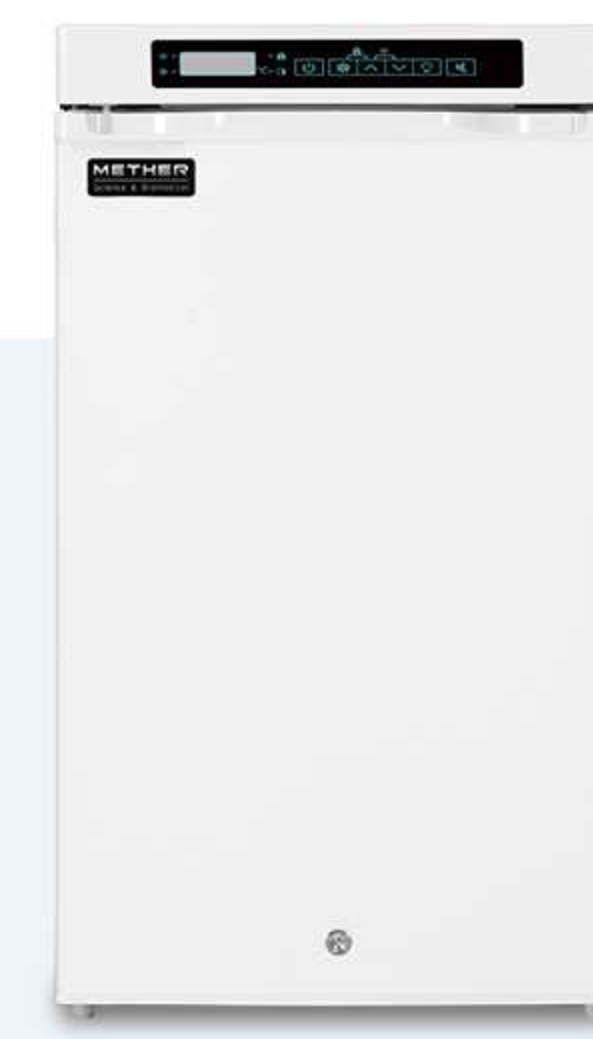
MPC-5V312



MPC-5V226



MPC-5V100



MPC-5V100A

Frost-free

Forced-air cooling system drives the cold air distribute uniformly inside the chamber. Condensate self-evaporating design keeps the chamber free of ice and frost

Variable inner space

The removable and height-adjustable plastic-coated wire steel shelves are capable of supporting a max weight of 25kg each.

Undercounter/Countertop

60 Liters



MPC-5V60G

Space-saving

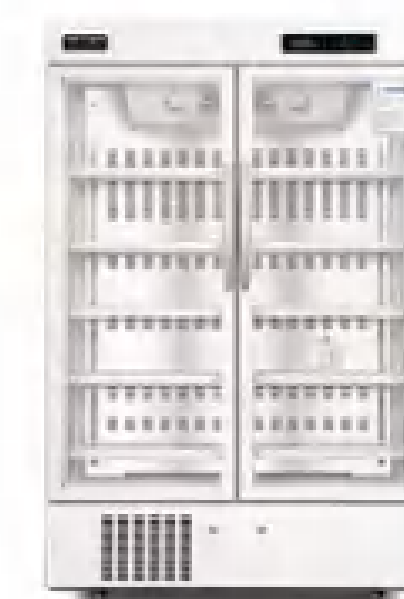
Designed to be compact and space-efficient, making them ideal for small medical facilities or clinics with limited space, freeing up valuable floor space





Pharmacy Refrigerator

Specifications



	Model	MPC-5V1006	MPC-5V1006A	MPC-5V656	MPC-5V656A
Specifications	Shelf/drawer QTY	Wired shelf/10	Wired shelf/10	Wired shelf/10	Wired shelf/10
	Cooling system	Forced air	Forced air	Forced air	Forced air
	Defrost	Frost-free	Frost-free	Frost-free	Frost-free
	Refrigerant	R290	R290	R290	R290
Cooling system	Noise(db)	53	53	52	52
	Ambient temperature (℃)	10~32℃	10~32℃	10~32℃	10~32℃
	Temperature range(℃)	2~8℃	2~8℃	2~8℃	2~8℃
	Compressor QTY	1	1	1	1
Power	Sensor	NTC	NTC	NTC	NTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LED digital display	LED digital display	LED digital display	LED digital display
	Voltage(V)	187~242	187~242	187~242	187~242
Materials	Frequency(Hz)	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
	Power Consumption(kWh/24h)	5.6	2.8	5.8	3.1
	Power (W)	400W	330W	403W	310W
	Internal material	Coated steel	Coated steel	Coated steel	Coated steel
Measurement	External material	Coated steel	Coated steel	Coated steel	Coated steel
	Insulation	CFC-free PURF	CFC-free PURF	CFC-free PURF	CFC-free PURF
	Capacity (L/cu.ft)	1006/35.52	1006/35.52	656/23.16	656/23.16
	NT./GT.(kg)	189/213	175/198	166/184	154/170
Alarms	Exterior size(W*D*H)(mm)	1220*860*1885	1220*860*1885	1220*630*1885	1220*635*1885
	Interior size(W*D*H)(mm)	1100*684*1325	1100*684*1325	1100*454*1325	1100*454*1325
	Package size(W*D*H)(mm)	1280*900*1950	1280*900*1950	1280*670*1950	1280*670*1950
	Shipping CBM	2.52	2.52	1.9	1.9
Accessories	20GP/40GP/40HQ	8/18/18	8/18/18	12/27/27	12/27/27
	High/low temperature	Y	Y	Y	Y
	Power failure	Y	Y	Y	Y
	Sensor error	Y	Y	Y	Y
Alarms	Low battery	N/A	N/A	N/A	N/A
	Condenser fault	N/A	N/A	N/A	N/A
	Ambient temperature	N/A	N/A	N/A	N/A
	Door ajar	Y	Y	Y	Y
Accessories	Power failure arlam (For controller)	8 hours	8 hours	8 hours	8 hours
	Castor	Y	Y	Y	Y
	leveling feet	Y	Y	Y	Y
	Glycerine box/Qty	Y/1	Y/1	Y/1	Y/1
Accessories	Illumination	LED	LED	LED	LED
	Access port Qty/diameter	1/25mm	1/25mm	1/25mm	1/25mm
	USB Interface	Optional	Optional	Optional	Optional
	Remote alarm port	Free	Free	Free	Free
Accessories	Door type/Qty	Self-closing glass/2	Self-closing solid/2	Self-closing glass/2	Self-closing solid/2
	Heated glass	Y	N/A	Y	N/A
	Chart recorder	Optional	Optional	Optional	Optional
	Data logger	Optional	Optional	Optional	Optional
Accessories	Stainless Steel interior	Optional	Optional	Optional	Optional



	Model	MPC-5V1500	MPC-5V415	MPC-5V315	MPC-5V416
Specifications	Shelf/drawer QTY	Wired shelf/12	Wired shelf/7	Wired shelf/7	Wired shelf/5
	Cooling system	Forced air	Forced air	Forced air	Forced air
	Defrost	Frost-free	Frost-free	Frost-free	Frost-free
	Refrigerant	R134a	R290	R290	R290
Cooling system	Noise(db)	55	50	50	50
	Ambient temperature (℃)	10~32℃	10~32℃	10~32℃	10~32℃
	Temperature range(℃)	2~8℃	2~8℃	2~8℃	2~8℃
	Compressor QTY	1	1	1	1
Power	Sensor	NTC	NTC	NTC	NTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LED digital display	LED digital display	LED digital display	LED digital display
	Voltage(V)	187~242C	187~242	187~242	187~242
Materials	Frequency(Hz)	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
	Power Consumption(kWh/24h)	14.42	4.23	3.33	4.23
	Power (W)	1065W	330W	294W	330W
	Internal material	Stainless steel	Coated steel	Coated steel	Coated steel
Measurement	External material	Stainless steel	Coated steel	Coated steel	Coated steel
	Insulation	CFC-free PURF	CFC-free PURF	CFC-free PURF	CFC-free PURF
	Capacity (L/cu.ft)	1500/52.97	415/14.69	315/11.15	416/14.69
	NT./GT.(kg)	245/280	120/146	92.5/100	120/133
Alarms	Exterior size(W*D*H)(mm)	1800*775*1965	785*552*1927	640*554*1925	785*552*1927
	Interior size(W*D*H)(mm)	1680*595*1312	685*429*1380	540*425*1380	685*429*1380
	Package size(W*D*H)(mm)	1940*880*2035	880*640*2100	704*637*2000	880*640*2100
	Shipping CBM	3.31	1.22	0.9	1.22
Accessories	20GP/40GP/40HQ	6/14/14	18/39/39	27/54/54	18/39/39
	High/low temperature	Y	Y	Y	Y
	Power failure	Y	Y	Y	Y
	Sensor error	Y	Y	Y	Y
Accessories	Low battery	N/A	N/A	N/A	N/A
	Condenser fault	N/A	Y	Y	N/A
	Ambient temperature	N/A	Y	Y	N/A
	Door ajar	Y	Y	Y	N/A
Accessories	Power failure arlam (For controller)	8 hours	72 hours	72 hours	8 hours
	Castor	Y	Y	Y	Y
	leveling feet	N/A	Y	Y	Y
	Glycerine box/Qty	N/A	Y/2	Y/2	Y/1
Accessories	Illumination	LED	LED	LED	LED
	Access port Qty/diameter	Optional	1/25mm	1/25mm	1/25mm
	USB Interface	Optional	Y	Y	Optional
	Remote alarm port	Free	Free	Free	Free
Accessories	Door type/Qty	Heating Glass/3	Self-closing glass/1	Self-closing glass/1	Heating Glass/1
	Heated glass	Y	Y	Y	Y
	Chart recorder	Optional	Optional	Optional	Optional
	Data logger	Optional	Optional	Optional	Optional
Accessories	Stainless Steel interior	Y	Optional	Optional	Optional

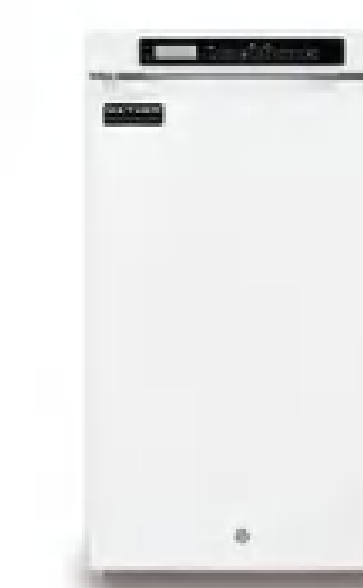
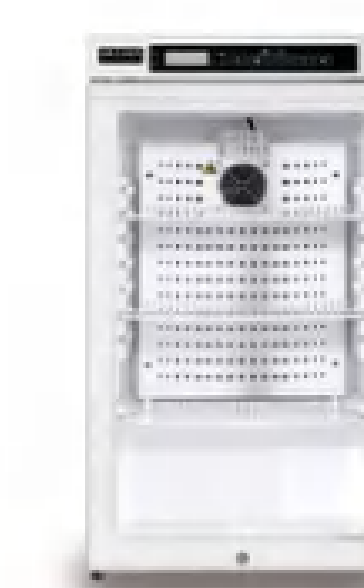


Pharmacy Refrigerator

Specifications



	Model	MPC-5V416A	MPC-5V316	MPC-5V312	MPC-5V226
Specifications	Shelf/drawer QTY	Wired shelf/5	Wired shelf/5	Wired shelf/5	Wired shelf/4
	Cooling system	Forced air	Forced air	Forced air	Forced air
	Defrost	Frost-free	Frost-free	Frost-free	Frost-free
	Refrigerant	R290	R290	R290	R600a
	Noise(db)	46	50	50	50
	Ambient temperature (°C)	10~32°C	10~32°C	10~32°C	10~32°C
	Temperature range(°C)	2~8°C	2~8°C	2~8°C	2~8°C
Cooling system	Compressor QTY	1	1	1	1
	Sensor	NTC	NTC	NTC	NTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LED digital display	LED digital display	LED digital display	LED digital display
Power	Voltage(V)	187~242C	187~242	187~242	187~242
	Frequency(Hz)	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
	Power Consumption(kWh/24h)	2.4	3.63	3.63	1.4
	Power (W)	273W	286W	312W	221 W
Materials	Internal material	Coated steel	Coated steel	HIPS	HIPS
	External material	Coated steel	Coated steel	Coated steel	Coated steel
Measurement	Insulation	CFC-free PURF	CFC-free PURF	CFC-free PURF	CFC-free PURF
	Capacity (L/cu.ft)	416/14.69	316/11.15	312/11.02	226/7.99
	NT./GT.(kg)	118/130	101/112	86/90	73/76
	Exterior size(W*D*H)(mm)	782*552*1927	640*554*1925	650*624*1902	625*574*1707
	Interior size(W*D*H)(mm)	685*429*1380	540*425*1380	560*485*1350	534*406*1150
	Package size(W*D*H)(mm)	890*655*2100	704*637*2000	710*680*1960	707*676*1745
	Shipping CBM	1.22	0.9	0.95	0.91
Alarms	20GP/40GP/40HQ	18/39/39	27/54/54	24/48/48	24/51/51
	High/low temperature	Y	Y	Y	Y
	Power failure	Y	Y	Y	Y
	Sensor error	Y	Y	Y	Y
	Low battery	N/A	N/A	N/A	N/A
	Condenser fault	N/A	N/A	N/A	N/A
	Ambient temperature	N/A	N/A	N/A	N/A
Accessories	Door ajar	Y	Y	Y	Y
	Power failure arlam (For controller)	8 hours	8 hours	8 hours	8 hours
	Castor	Y	Y	Y	Y
	leveling feet	Y	Y	Y	Y
	Glycerine box/Qty	Y/1	Y/1	N/A	N/A
	Illumination	LED	LED	LED	LED
	Access port Qty/diameter	1/25mm	1/25mm	1/25mm	1/25mm
	USB Interface	Optional	Optional	Optional	Optional
	Remote alarm port	Free	Free	Free	Free
	Door type/Qty	Self-closing Solid/1	Heating glass/1	Heating glass/1	Heating glass/1
	Heated glass	N/A	Y	Y	Y
	Chart recorder	Optional	Optional	Optional	Optional
	Data logger	Optional	Optional	Optional	Optional
	Stainless Steel interior	Optional	Optional	Optional	Optional



	Model	MPC-5V100	MPC-5V100A	MPC-5V60G
Specifications	Shelf/drawer QTY	Wired shelf/3	Wired shelf/3	Wired shelf/2
	Cooling system	Forced air	Forced air	Forced air
	Defrost	Frost-free	Frost-free	Frost-free
	Refrigerant	R600a	R600a	R600a
	Noise(db)	50	50	50
	Ambient temperature (°C)	10~32°C	10~32°C	10~32°C
	Temperature range(°C)	2~8°C	2~8°C	2~8°C
Cooling system	Compressor QTY	1	1	1
	Sensor	NTC	NTC	NTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor
	Display	LED digital display	LED digital display	LED digital display
Power	Voltage(V)	187~242C	187~242	187~242
	Frequency(Hz)	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
	Power Consumption(kWh/24h)	1.15	1.15	0.84
	Power (W)	80W	91W	75W
Materials	Internal material	HIPS	HIPS	Coated steel
	External material	Coated steel	Coated steel	Coated steel
Measurement	Insulation	CFC-free PURF	CFC-free PURF	CFC-free PURF
	Capacity (L/cu.ft)	100/3.53	100/3.53	60/2.11
	NT./GT.(kg)	35/38	30/33	33/37
	Exterior size(W*D*H)(mm)	505*510*875	505*525*990	490*440*710
	Interior size(W*D*H)(mm)	385*356*737	385*356*737	410*315*560
	Package size(W*D*H)(mm)	580*580*940	580*580*940	558*508*757
	Shipping CBM	0.32	0.32	0.22
Alarms	20GP/40GP/40HQ	80/160/160	80/160/160	132/276/276
	High/low temperature	Y	Y	Y
	Power failure	Y	Y	Y
	Sensor error	Y	Y	Y
	Low battery	N/A	N/A	N/A
	Condenser fault	N/A	N/A	N/A
	Ambient temperature	N/A	N/A	N/A
Accessories	Door ajar	Y	Y	Y
	Power failure arlam (For controller)	10 hours	10 hours	8 hours
	Castor	N/A	N/A	N/A
	leveling feet	Y	Y	Y
	Glycerine box/Qty	N/A	N/A	N/A
	Illumination	LED	LED	LED
	Access port Qty/diameter	1/25mm	1/25mm	1/25mm
	USB Interface	N/A	N/A	N/A
	Remote alarm port	Free	Free	Free
	Door type/Qty	Heating glass/1	Solid/1	Low-E glass/1
	Heated glass	Y	N/A	N/A
	Chart recorder	N/A	N/A	N/A
	Data logger	Optional	Optional	Optional
	Stainless Steel interior	Optional	Optional	Optional



Accessories

For Pharmacy Refrigerators



110V power system

Compatibility with 110V power is achieved for the refrigerator by either modifying the compressor or utilizing an additional transformer.



Voltage stabilizer

Stabilize the input voltage of a power source to protect refrigerators from the effects of voltage fluctuations.



Data Logger (Build in and External)

Data logger is an independent monitoring device that records the realtime temperature and provides the necessary alarmsto protect your preservations.



4G/Wifi Data Logger (RCW-360P)

A networked device that can upload real-time temperature data to the cloud. Users can monitor and manage the data through the mobile app or web-based cloud platform.



TEMP&RH% controllers

Displays real-time humidity in the chamber and additionalhumidity sensor inside.



Additional shelves

More shelves can be provided to meet the diverse needs of customers.



6" Temperature Chart Recorder

The chart recorder provides an easy-to-read graph of data vs time. It is a reliable, accurate, and stable instrument, for on-the-spot written documentation of freezer chamber temperature.



3Q qualification

Provides documentation for Installation and Operational Qualifications (IQ/OQ), as well as an outline of suggested topics for performance qualification (PQ).



Printer

Built-in thermo printer or Dot matrix printer could be equiped to record and print the real-time temperatures.



Internal water proof socket

Provide power to other electrical equipment placed in the refrigerator



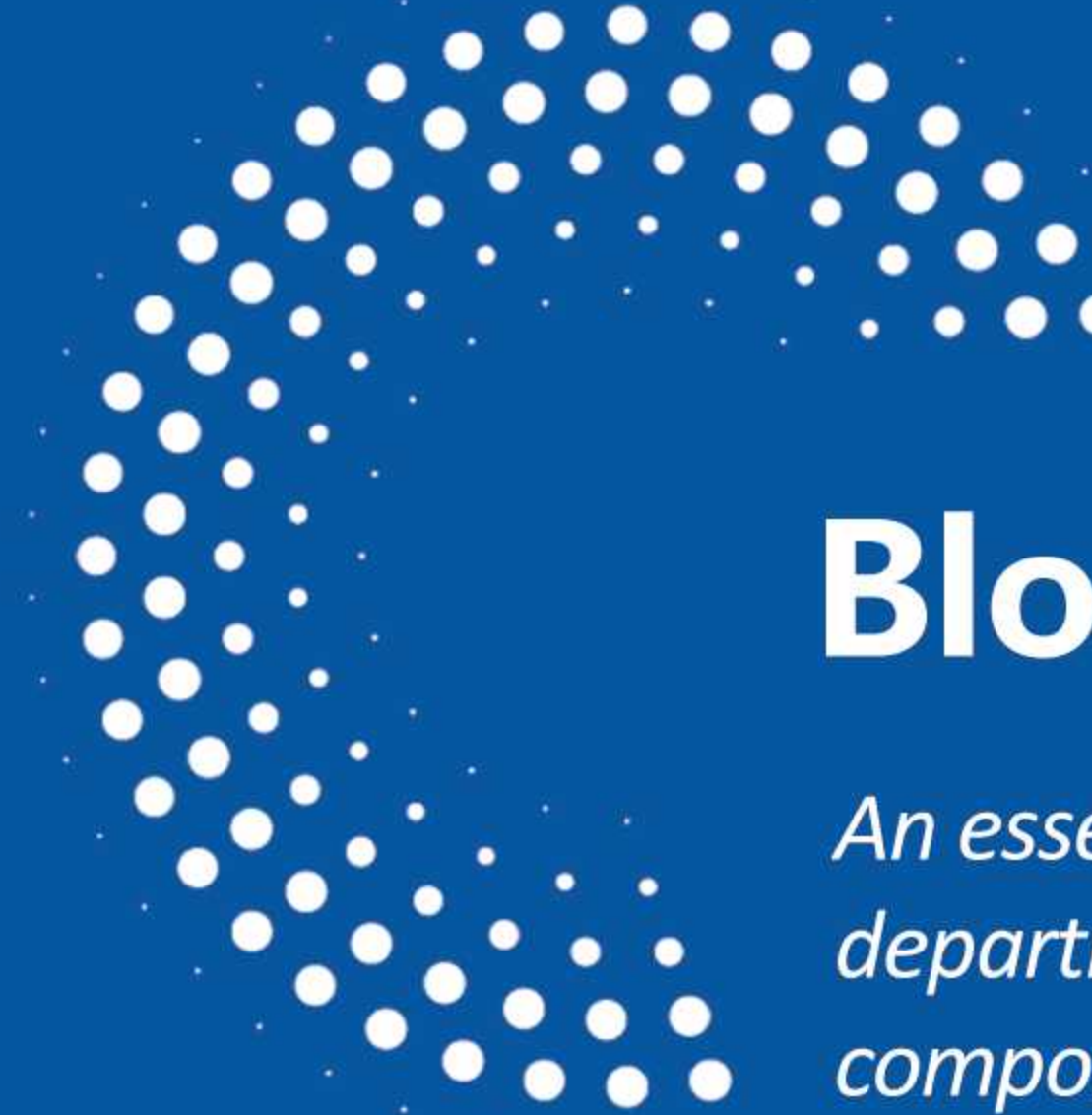
SS exterior and interior

For customers who need stainless steel materials, there is a special cabinet customization



Enhanced Packaging

The standard packaging is cardboard. Stronger packaging is also provided - plywood packaging.



Blood Bank Refrigerators

An essential piece of equipment in the immunohematology department and provides safe storage of whole blood, blood components and reagents.

4±1°C

MEDICAL GRADE



Blood storage



Presice temp control



Forced-air



Alarms



Stainless steel interior



Innovative Temperature Control

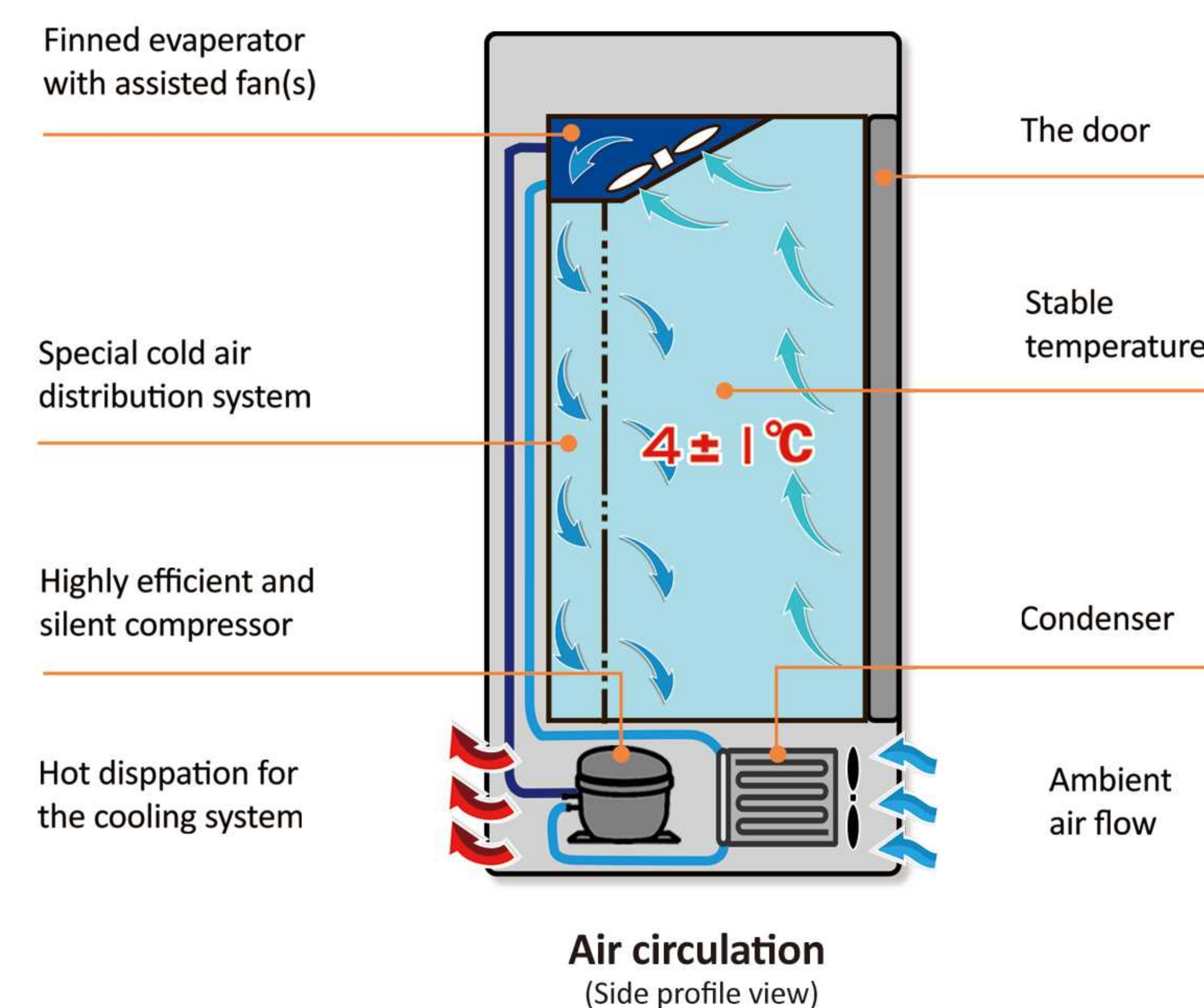
Maintain a constant temperature of 4°C



-  **Whole Blood**
-  **Red Cell Concentrates**
-  **Thawed Plasma**

Temp. Control Technology

Highly efficient compressor and refrigeration system, precise temperature control systems and high-quality insulation system guarantee the accuracy, uniformity and stability of the cabinet temperature.



Precise Controller

- A digital microprocessor temperature controller with LED display and alarm back up power.
- The precision of display and control is 0.1°C.
- Pre-set to 4°C for blood bank refrigerators.
- Audible and visual alarms.
- Internal USB data logger (optional): Temperature recording data can be exported via USB interface.
- Thermal printer as standard, which prints real-time temperatures at 5-minute intervals.

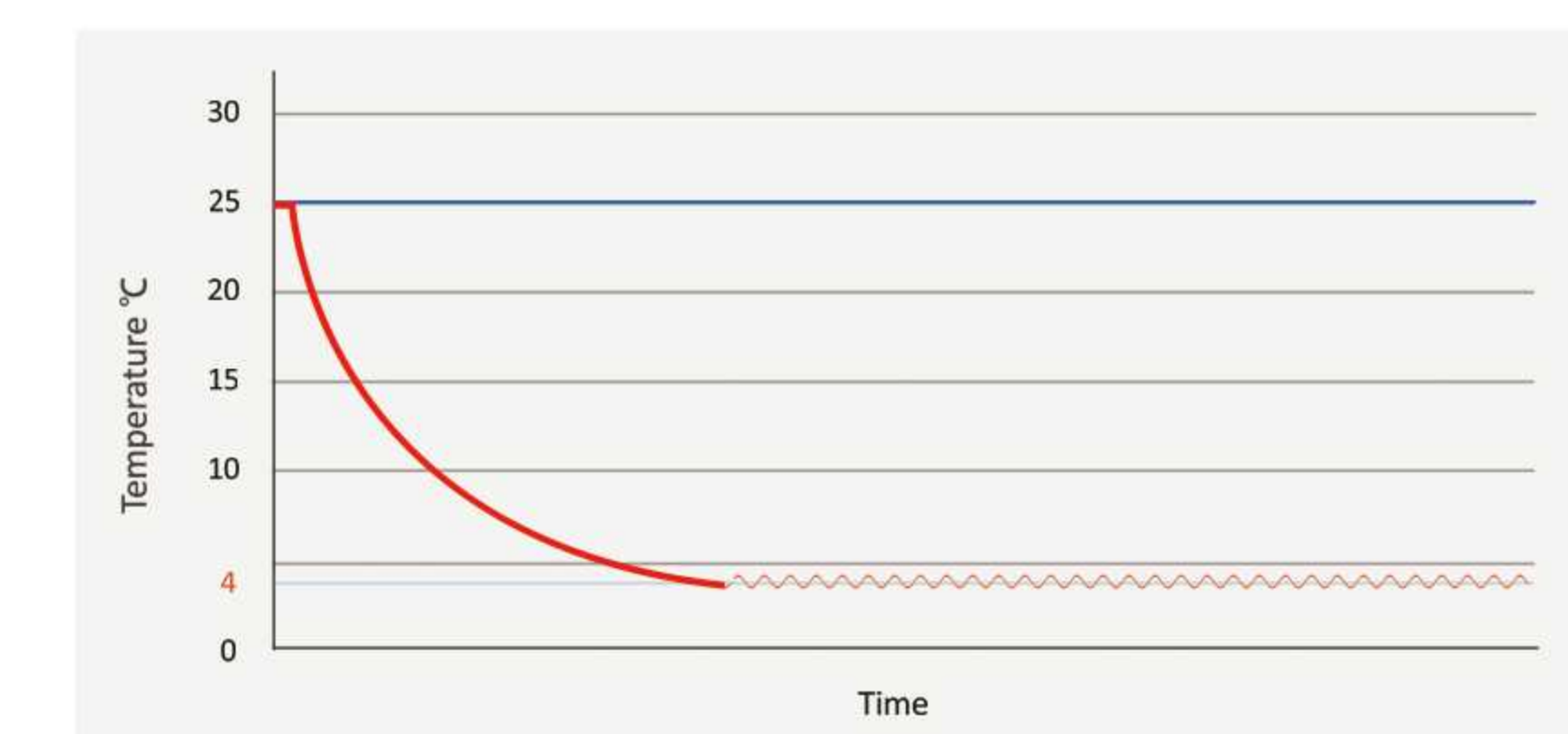


Fast Recovery

Faster temperature recovery even after prolonged door openings. The forced-air circulation system maintains consistent temperatures, ensuring that the blood is stored at the right temperature even when the door is opened frequently.

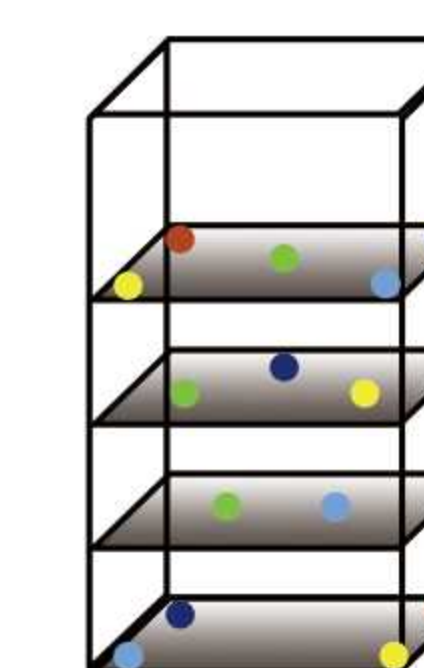
Optimized Fluctuation

Maintain superior temperature stability @ 4±1°C, 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.

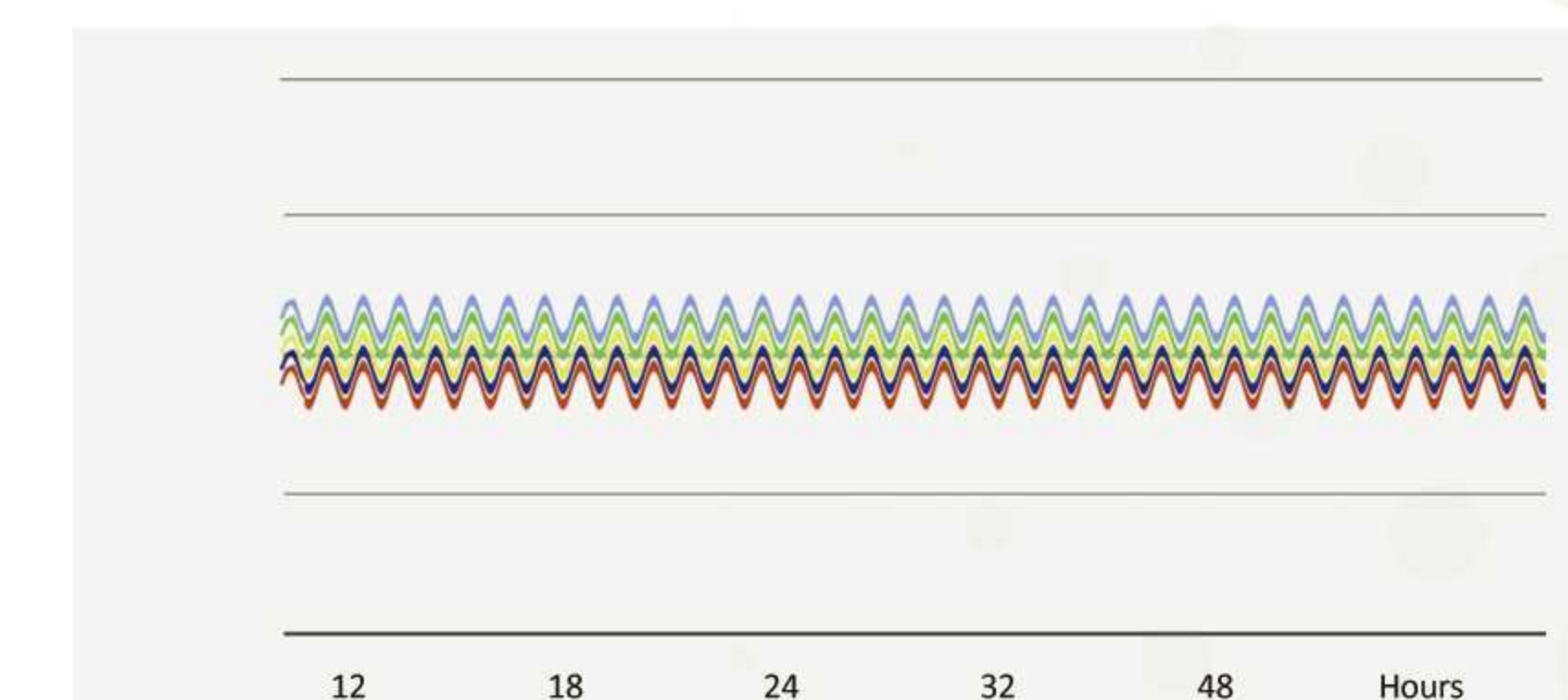


Ultimate Uniformity

The cabinet maintains temperatures within +/-1°C throughout the entire compartment, ensuring confidence that items are stored at the correct temperature regardless of their placement in the chamber.



Uniformity testing probe locations





Blood Bank Refrigerator

Blood storage @ $4^{\circ}\text{C} \pm 1^{\circ}\text{C}$



680 bags



MBC-4V1008

Super air cooling

A powerful air-cooling system equipped with three silent fans and a unique air distribution channel efficiently distributes the cool air to everywhere in the cabinet.



3-fan-assisted evaporator

Ultimate insulation

The unit is filled with a thick layer of high-density polyurethane foam and acrylic inner doors which effectively locks in the temperature inside, minimizes cold air loss, and ensures safe preservation of blood for an extended period of time even in the event of unexpected power outages.



Acrylic inner door design

Electrically heated glass doors

Fog or condensation often occurs when opening and closing the door. However, this can be easily prevented with the electrically heated glass doors, which quickly evaporate any moisture.



Thermal printer

Fan-assisted evaporator

Highly efficient finned evaporator with high airflow fans

Heated glass

Prevent fogging and condensation

LED illumination

Smart lighting on and off for convenient access

Sliding drawers

Stainless Steel perforated mesh sliding drawers

Quick release filter

Magnetic cover, easy cleaning and washing filter

Universal casters

Wheels with brake for easy movement and stable fixation



Controller

Printer

Built-in thermo printer to record and print the real-time temperatures.

Inner door design

Providing better insulations

Access ports

Dia.25mm ports for additional monitoring device

Sealing gaskets

Long-lasting magnetic sealing gasket locks in cold air

Built-in locks

Ensures the security of your preservations

Chart recorder

Optional temperature monitoring device

Temperature recording

The unit comes with a thermal printer as standard, which prints real-time temperatures at 5-minute intervals, enabling real-time monitoring of the temperature inside the unit. The chart recorder is an optional accessory that can serve as an additional temperature monitoring device.



Stainless steel perforated sliding drawers

High quality materials

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



Quick release filter

Quick release filter

The condenser filter screen mask is designed with a magnetic suction, making it more convenient to maintain and clean the filter screen.



Optional Chart recorder



Blood Bank Refrigerator

Blood storage @ $4^{\circ}\text{C} \pm 1^{\circ}\text{C}$



MBC-4V368

Super air cooling

A powerful air-cooling system equipped with three silent fans and a unique air distribution channel efficiently distributes the cool air to everywhere in the cabinet.



2-fan-assisted evaporator

Ultimate insulation

The unit is filled with a thick layer of high-density polyurethane foam and acrylic inner doors which effectively locks in the temperature inside, minimizes cold air loss, and ensures safe preservation of blood for an extended period of time even in the event of unexpected power outages.



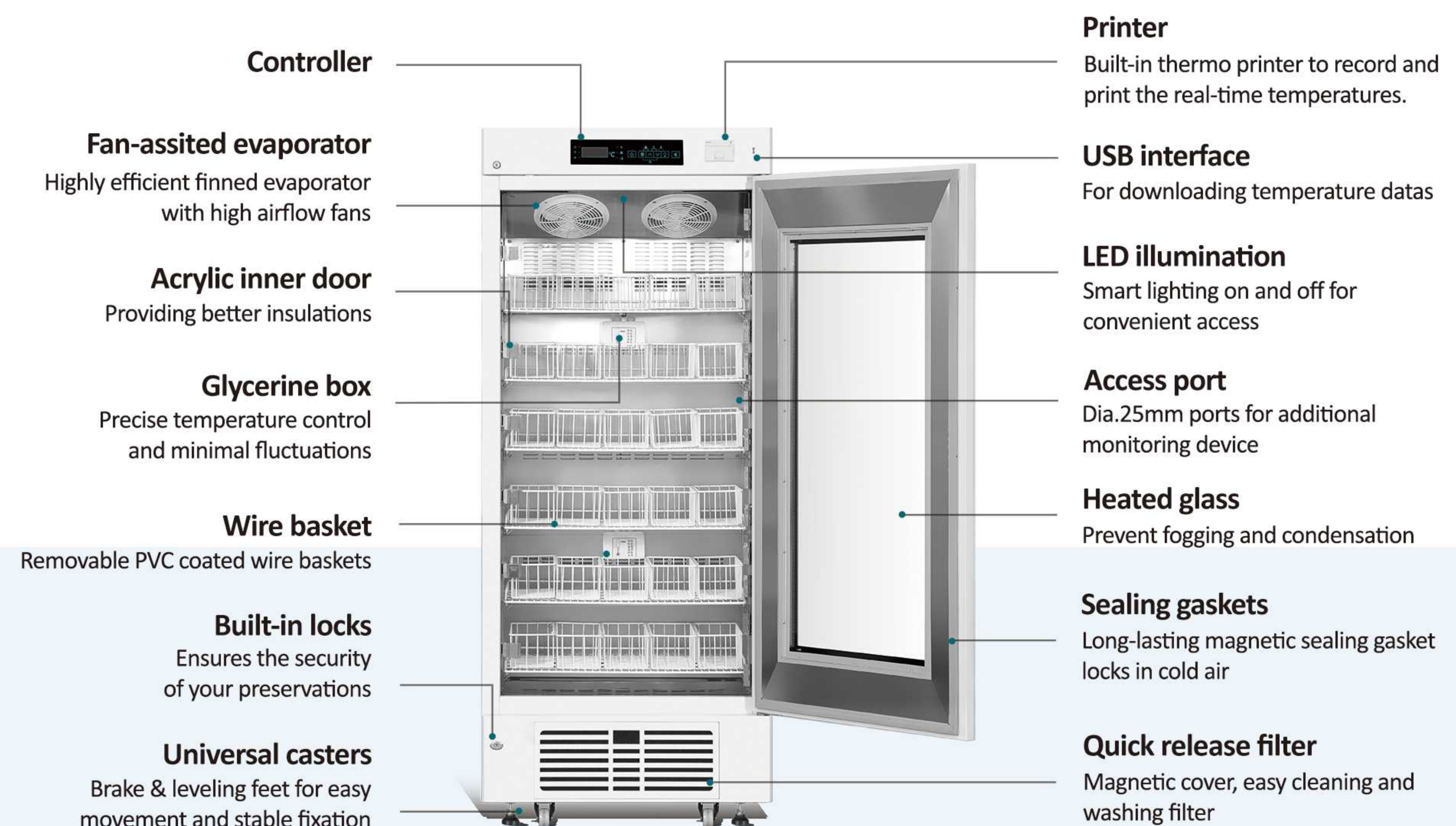
Acrylic inner door design

Electrically heated glass doors

Fog or condensation often occurs when opening and closing the door. However, this can be easily prevented with the electrically heated glass doors, which quickly evaporate any moisture.



Thermal printer & USB port



Temperature recording

The unit comes with a thermal printer as standard, which prints real-time temperatures at 5-minute intervals. And An internal USB data logger for recording and exporting temperature & alarm data through a built-in USB interface.



PVC coated wire baskets

High quality materials

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



Glycerine box

Quick release filter

The condenser filter screen mask is designed with a magnetic suction, making it more convenient to maintain and clean the filter screen.



Quick release filter



Blood Bank Refrigerator

Blood storage @ $4^{\circ}\text{C} \pm 1^{\circ}\text{C}$



MBC-4V658



MBC-4V208



MBC-4V108

Super air cooling

A powerful air-cooling system equipped with three silent fans and a unique air distribution channel efficiently distributes the cool air to everywhere in the cabinet.



3-fan-assisted evaporator

Ultimate insulation

The unit is filled with a thick layer of high-density polyurethane foam and acrylic inner doors which effectively locks in the temperature inside, minimizes cold air loss, and ensures safe preservation of blood for an extended period of time even in the event of unexpected power outages.



Acrylic inner door design

Electrically heated glass doors

Fog or condensation often occurs when opening and closing the door. However, this can be easily prevented with the electrically heated glass doors, which quickly evaporate any moisture.



Thermal printer

Temperature recording

The unit comes with a thermal printer as standard, which prints real-time temperatures at 5-minute intervals, enabling real-time monitoring of the temperature inside the unit.



Access port

Glycerine box inside

Glycerine boxes are used to simulate the actual temperature of the blood. The temperature sensor detects the temperature of the glycerin, so that the controller drives the cooling system to ensure optimal temperature stability of the chamber.



PVC coated wire baskets

High quality materials

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



Glycerine box



Blood Bank Refrigerator

Specifications



	Model	MBC-4V108	MBC-4V208	MBC-4V368	MBC-4V658	MBC-4V1008
Specifications	Shelf/drawer QTY	Shelves/ 2 Baskets/6	Shelves/4 Baskets/12	Shelves/6 Baskets/30	Shelves/12 Baskets/36	SUS 304 Sliding Drawers/12
	Cooling system	Forced air	Forced air	Forced air	Forced air	Forced air
	Defrost	Auto	Auto	Auto	Auto	Auto
Cooling system	Refrigerant	R134a	R134a	R134a	R290	R290
	Noise(db)	48	48	49	50	50
	Ambient temperature (°C)	10~32°C	10~32°C	10~32°C	10~32°C	10~32°C
Power	Temperature range (°C)	4±1°C	4±1°C	4±1°C	4±1°C	4±1°C
	Compressor QTY	1	1	1	1	1
	Sensor	NTC	NTC	NTC	NTC	NTC
Materials	Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LED digital display	LED digital display	LED digital display	LED digital display	LED digital display
	Voltage(V)	187~242	187~242	187~242	187~242	187~242
Measurement	Frequency(Hz)	50Hz	50Hz	50Hz	50Hz	50Hz
	Power Consumption(kWh/24h)	1.23	1.31	2.31	2.12	2.25
	Power (W)	168W	194W	355W	391W	415W
Alarms	External material	Coated steel	Coated steel	Coated steel	Coated steel	Coated steel
	Internal material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
	Shelf/basket material	PVC coated wire	PVC coated wire	PVC coated wire	PVC coated wire	Stainless Steel perforated mesh
Accessories	Insulation	CFC-free PURF	CFC-free PURF	CFC-free PURF	CFC-free PURF	CFC-free PURF
	Capacity (L/cu.ft)	108/3.81	208/7.34	368/12.98	658/23.23	1008/35.59
	Blood bag(400ml) Qty	78	156	360	432	684
	Blood bag(300ml) Qty	96	192	420	540	864
	Blood bag(200ml) Qty	120	240	540	684	1080
	NT./GT.(kg)	74/95	96/120	128/160	202/257	265/335
	Exterior size(W*D*H)(mm)	522*635*1050	522*635*1550	785*565*1920	1220*635*1885	1220*865*1885
	Interior size(W*D*H)(mm)	432*462*478	432*462*978	685*429*1380	1100*454*1325	1100*684*1325
	Package size(W*D*H)(mm)	720*610*1200	720*620*1700	870*660*2100	1320*740*2120	1330*980*2130
	Shipping CBM	0.53	0.76	1.21	2.1	2.78
	20GP/40GP/40HQ	27/57/144	24/48/48	21/43/43	12/25/25	8/16/16
	High/low temperature	Y	Y	Y	Y	Y
	Power failure	Y	Y	Y	Y	Y
	Controller failure	Y	Y	Y	Y	Y
	Sensor error	Y	Y	Y	Y	Y
	Condenser fault	N/A	N/A	Y	N/A	N/A
	Ambient temperature	N/A	N/A	N/A	N/A	N/A
	Door ajar	Y	Y	Y	Y	Y
	Power failure alarm (For controller)	72 hours	72 hours	72 hours	72 hours	72 hours
	Backup Battery failure alarm	Y	Y	Y	Y	Y
	Castor	Y	Y	Y	Y	Y
	leveling feet	N/A	N/A	Y	N/A	N/A
	Access port Qty/diameter	1/25mm	1/25mm	1/25mm	1/25mm	1/25mm
	USB Interface	Optional	Optional	Y	Optional	Optional
	Illumination	LED lamp	LED lamp	LED lamp	LED lamp	LED lamp
	Thermal printers	Y	Y	Y	Y	Y
	Remote alarm port	Optional (Free)	Optional (Free)	Optional (Free)	Optional (Free)	Optional (Free)
	Door type/Qty	Foamed glass/1	Foamed glass/1	Foamed glass/1	Foamed glass/2	Foamed glass/2
	Heated glass with auto-rebound	Y	Y	Y	Y	Y
	Inner door/Qty	Acrylic/2	Acrylic/4	Acrylic/6	Acrylic/6	Acrylic/6
	Chart recorder	Optional	Optional	Optional	Optional	Optional
	Data logger	Optional	Optional	Optional	Optional	Optional



Platelet Incubator

Life-saving platelet products are critical to patient care. The Incubators and Agitators combine innovations in performance, reliability and efficiency to offer optimized platelet storage and support blood bank compliance.

22±2°C MEDICAL GRADE



Plasma storage



Precise temp control



Forced-air



Alarms



Stainless steel interior

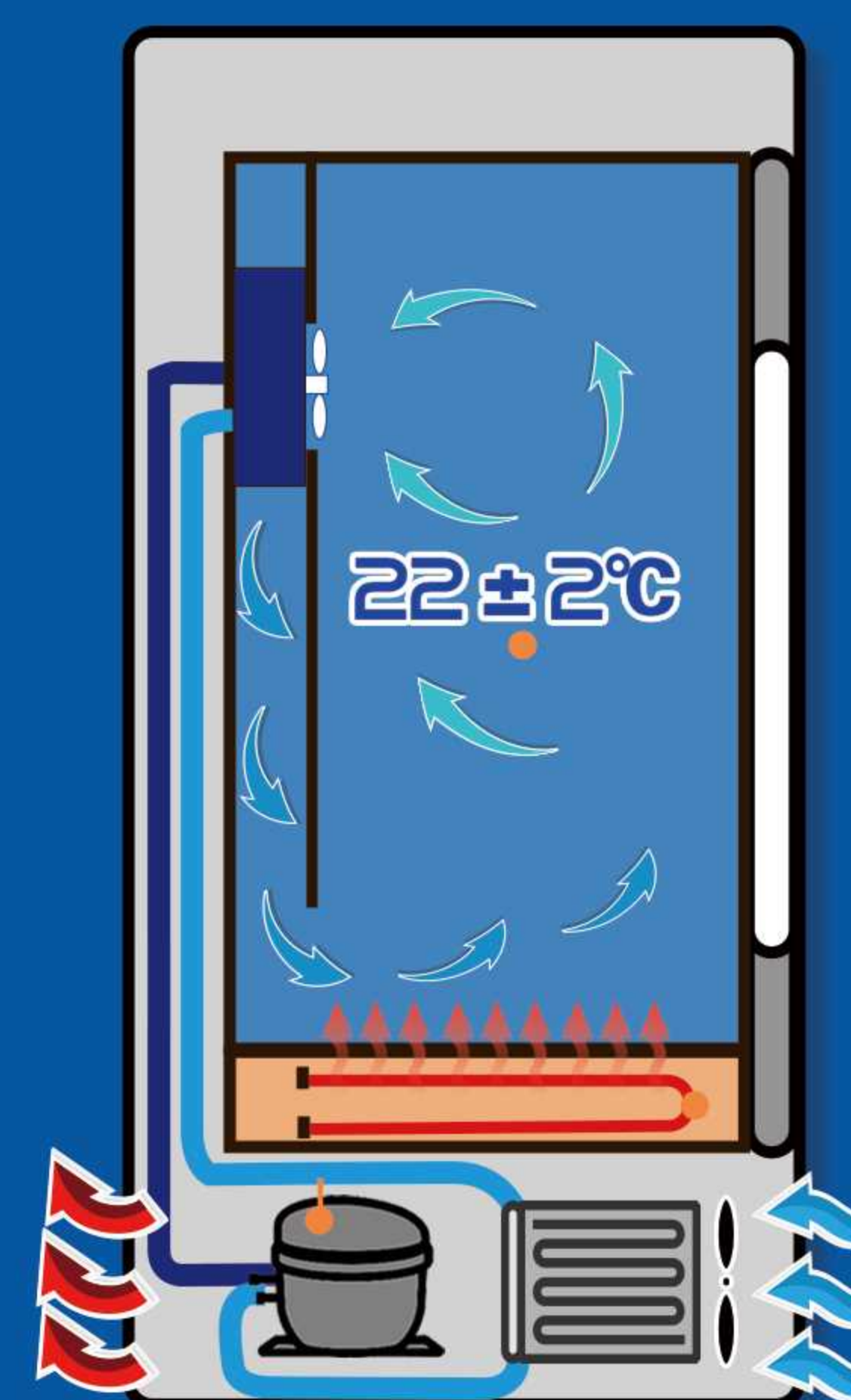


Innovative Temperature Control

Maintain a constant temperature of 22°C

Temp. Control Technology

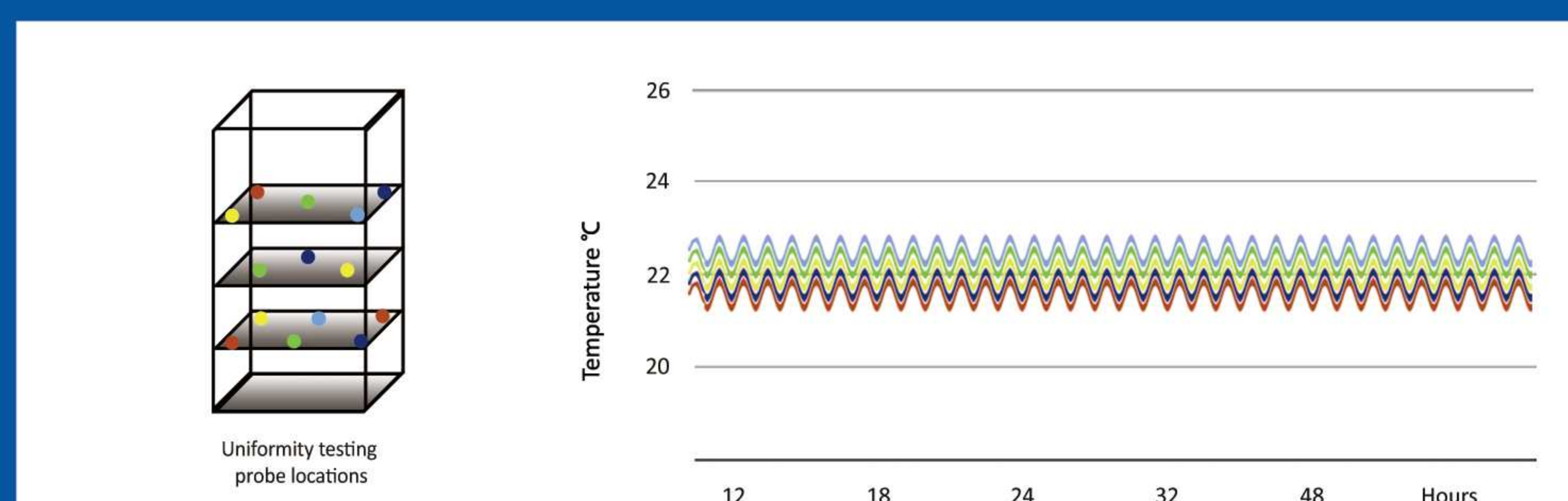
The unit features a heating device at the bottom and a refrigeration evaporator at the top. During the cooling process, the cold air sinks, while during the heating process, the hot air rises. This design ensures rapid heating or cooling, regardless of the process involved.



Air Circulation

Ultimate Uniformity

The cabinet maintain temperatures within $\pm 1^\circ\text{C}$ throughout the entire compartment, ensuring confidence that items are stored at the correct temperature regardless of their placement in the chamber.



Optimized Fluctuation

Maintain superior temperature stability @ $22\pm 2^\circ\text{C}$, avoiding rapid and significant changes in temperature. This ensures that the stored platelets are consistently stored in their optimal environment.

Fast Recovery

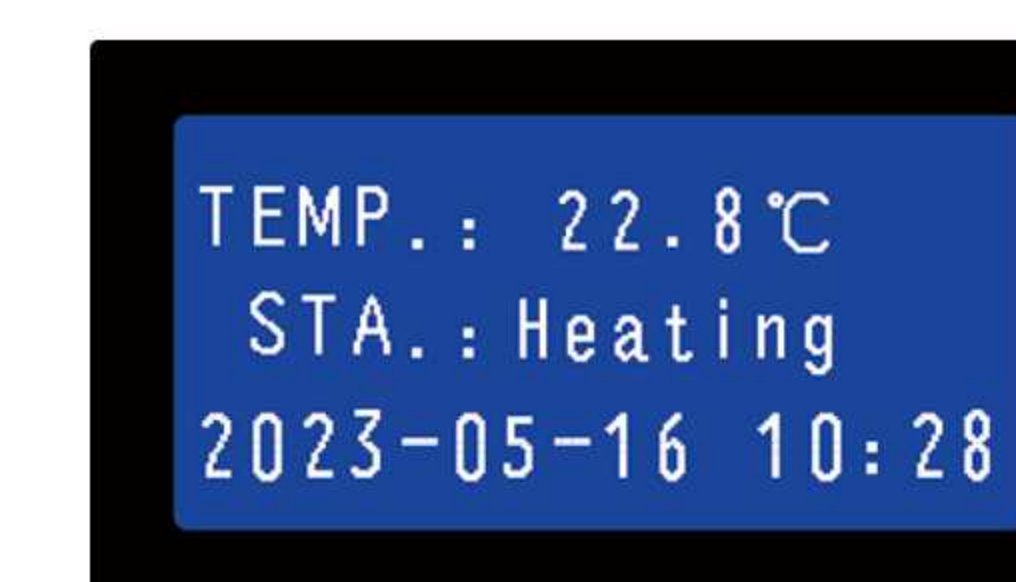
Faster temperature recovery even after prolonged door openings. The forced-air circulation system maintains consistent temperatures, ensuring that contents are stored at the right temperature even when the unit is opened multiple times per hour.

Precision Controller

- A digital microprocessor temperature controller with LCD display and alarm back up power.
- Accurately controlling the cooling or heating process to maintain a constant temperature of 22°C .
- Temperature setting range: $20^\circ\text{C} \sim 24^\circ\text{C}$.
- The precision of display and control is 0.1°C .
- Alarms: High/low temperature, power failure, sensor error, door ajar, backup battery for 72 hours.



C309 controller



Heating status



Cooling status



Platelet Incubator

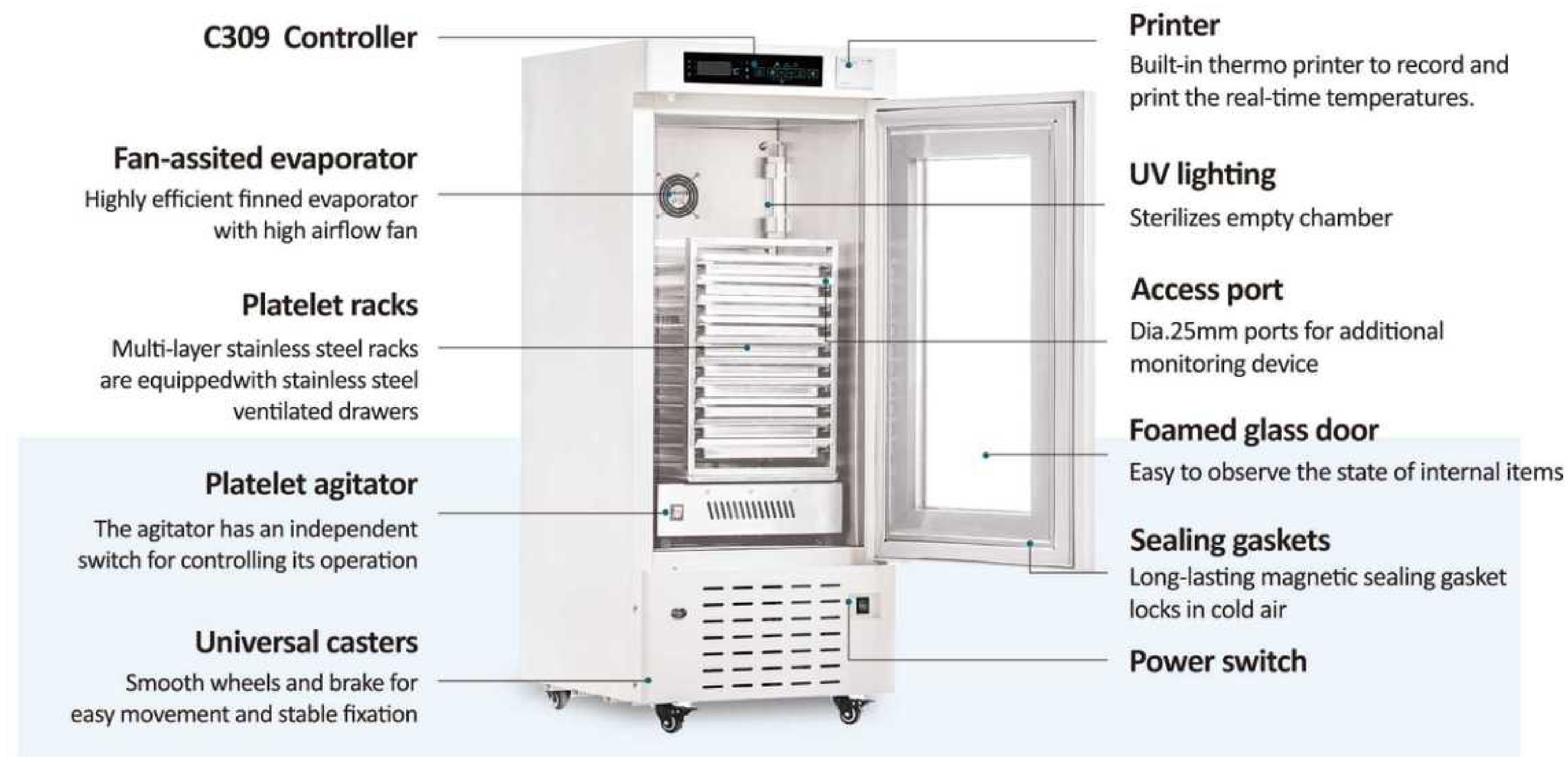
Platelet storage @ 22°C ± 2°C



MDC-5



MDC-10



MDC-10

Ultimate insulation

The cabinet is insulated with a thick layer of high-density PU foam, effectively sealing and maintaining the internal temperature. The door, constructed with the same insulation material, is equipped with double-layer vacuum glass coated with LOW-E film that ensures secure platelet preservation while providing enhanced safety measures.



Insulated foamed glass door

Electrically heated glass door

Fog or condensation often occurs when opening and closing the door. However, this can be easily prevented with the electrically heated glass door, which quickly evaporate any moisture.



Complete SS interior

High quality materials

The units feature a high-quality coated cold-rolled steel exterior and stainless steel interior, offering antibacterial, anti-corrosive, and easy-to-clean properties. The agitator and racks are also constructed with stainless steel, ensuring reliability and hygiene.



System composition

The system consists of an agitator, stainless steel racks, and stainless steel drawers. The stainless steel racks are securely attached to the agitator platform and move in sync with the agitation motion. This design helps maintain platelets in a suspended state, preventing clumping or aggregation.

Ultra-long lifespan motors

Imported coaxial motors offer numerous advantages such as low heat generation, low power consumption, minimal noise levels, and a high reliability.

Gentle glide rails

Imported stainless steel ball bearing sliders have a small gap, low noise, and can continuously operate with a maximum load of 50 kg.



Platelet Incubator

Specifications



	Model	MDC-5	MDC-7	MDC-10	MDC-15
	Drawer QTY	5	7	10	15
Specifications	Cooling system	No Frost	No Frost	No Frost	No Frost
	Defrost	Auto	Auto	Auto	Auto
	Refrigerant	R134a	R134a	R134a	R134a
	Cooling system	Air Cooling	Air Cooling	Air Cooling	Air Cooling
	Noise(db)	53	53	53	53
	Ambient temperature (°C)	10~32°C	10~32°C	10~32°C	10~32°C
	Temperature range (°C)	22°C ±2°C	22°C ±2°C	22°C ±2°C	22°C ±2°C
Cooling system	Compressor QTY	1	1	1	1
	Sensor	NTC	NTC	NTC	NTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LCD display	LCD display	LCD display	LCD display
Power	Voltage(V)	187~242	187~242	187~242	187~242
	Frequency(Hz)	50Hz	50Hz	50Hz	50Hz
	Power Consumption(kWh/24h)	2.7	2.7	4.4	4.4
Materials	Power (W)	197W	197W	280W	280W
	(Current(A)	1.3	1.3	1.5	1.5
	External material	Coated steel	Coated steel	Coated steel	Coated steel
Measurement	Internal material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
	Insulation	CFC-free PURF	CFC-free PURF	CFC-free PURF	CFC-free PURF
	Storage Capacity (450ml blood bags)	10	14	20	30
	NT./GT.(kg)	65/87	68/90	85/109	92/115
	Exterior size(W*D*H)(mm)	522*600*1056	522*600*1056	522*600*1305	522*600*1305
	Interior size(W*D*H)(mm)	427*360*467	427*360*467	432*462*728	432*462*728
	Package size(W*D*H)(mm)	590*710*1200	590*710*1200	590*710*1450	590*710*1450
Alarms	Shipping CBM	0.5	0.5	0.61	0.61
	20GP/40GP/40HQ	24/48/96	24/48/96	27/60/60	27/60/60
	High/low temperature	Y	Y	Y	Y
	Power failure	Y	Y	Y	Y
	Controller failure	Y	Y	Y	Y
	Sensor error	Y	Y	Y	Y
	Door ajar	Y	Y	Y	Y
Accessories	Power failure alarm (For controller)	72 hours	72 hours	72 hours	72 hours
	Castor	Y	Y	Y	Y
	leveling feet	N/A	N/A	N/A	N/A
	Access port	Optional	Optional	Optional	Optional
	USB Interface	N/A	N/A	N/A	N/A
	Illumination	UV lamp	UV lamp	UV lamp	UV lamp
	Thermal printers	Y	Y	Y	Y
	Remote alarm port	N/A	N/A	N/A	N/A
	Door type/Qty	Foamed glass/1	Foamed glass/1	Foamed glass/1	Foamed glass/1
	Data logger	Optional	Optional	Optional	Optional



Model	MDC-5	MDC-7	MDC-10	MDC-15
Rack layer	5	7	10	15
Rack material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Drawer QTY	5	7	10	15
Drawer material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Platelet bag(450ml) Qty	10	14	20	30