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COLD STORAGE SOLUTIONS

By Antech Scientific



Company Profile

ANTECH Group is committed to offering high quality laboratory instruments and medical products while matching to the unique needs of customer. Our dedication is to provide quality instruments with lifetime care.

Antech Group sets its production facilities in 5 cities. The product lines include:

Cold storage – Cryogenic freezer, ULT freezer, deep freezer, pharmacy refrigerator, blood bank refrigerator, vaccine refrigerator and cold room

Cryogenic storage – liquid nitrogen freezer, liquid nitrogen container and Dewar vessel

Clean air product – biological safety cabinet, laminar flow cabinet (clean bench), air shower, sample booth, fan filter unit and clean room

Scientific instrument – fermenter, bio-reactor, freeze dryer, glassware washer, centrifuge, incubator and water purification system

Medical equipment & consumable - washer disinfector and plasma sterilizer

In accordance to our unique business philosophy, we always remind ourselves to avoid any short-sighted activities and to focus on long-term success and growth.

We Antech team treat our customers as long-term partners & life-time friends. We are very clear that any of our success comes and will come from satisfaction of our partners and customers. "Quality instruments, lifetime care" is commitment to our partners, as well as to ourselves.

Quality Instruments, Lifetime Care



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-150°C Cryo Freezer



ANTECH

-150 °C Cryo Freezer



> Features

- Innovative single compressor refrigeration system, more stable, more efficient, lower power consumption & noise level;
- World famous SECOP compressor and German EBM fan;
- Microprocessor controller, LED digital display.



> Ergonomic Design

- SUS304 stainless steel interior, easy to clean, rust-proof;
- Power-on delay protection, shutdown interval protection, over-temperature alarm function;
- Safety door lock design to prevent unauthorized access;
- Fluorine-free environmental friendly mixed refrigerant.

> Specification

	Model	MDF-150C118
Technical Data	Cabinet Type	Chest
	Ambient temperature (°C)	10~25
	Cooling Type	Direct Cooling
	Cooling System	Single Compressor Auto-cascade System
	Defrost Mode	Manual
	Refrigerant	CFC-Free
	Door	Single Solid Door
Performance	Noise (dB)	55
	Temperature Range (°C)	-126~ -150
	Cooling Performance (°C)	-150
Control	Temperature Control	Microprocessor
	Display	LED
Material	Interior	SUS304 stainless steel
	Exterior	Powder Coated Steel
Electrical Data	Voltage/Frequency	220~240V 50/60Hz 110V 60Hz
	Power (W)	2300
	Electrical Current (A)	13.50
Dimensions	Capacity (L)	118
	Net/Gross Weight (kg)	110/118
	Internal Dimension (W/D/H, mm)	500×400×560
	External Dimension(W/D/H, mm)	1270×780×965
Functions	High/low Temperature Alarm	Y
	Power Failure Alarm	Y
	Sensor Error Alarm	Y
Accessories	Caster	6
	Test Hole	Standard
Others	Certificate	CE, ISO9001

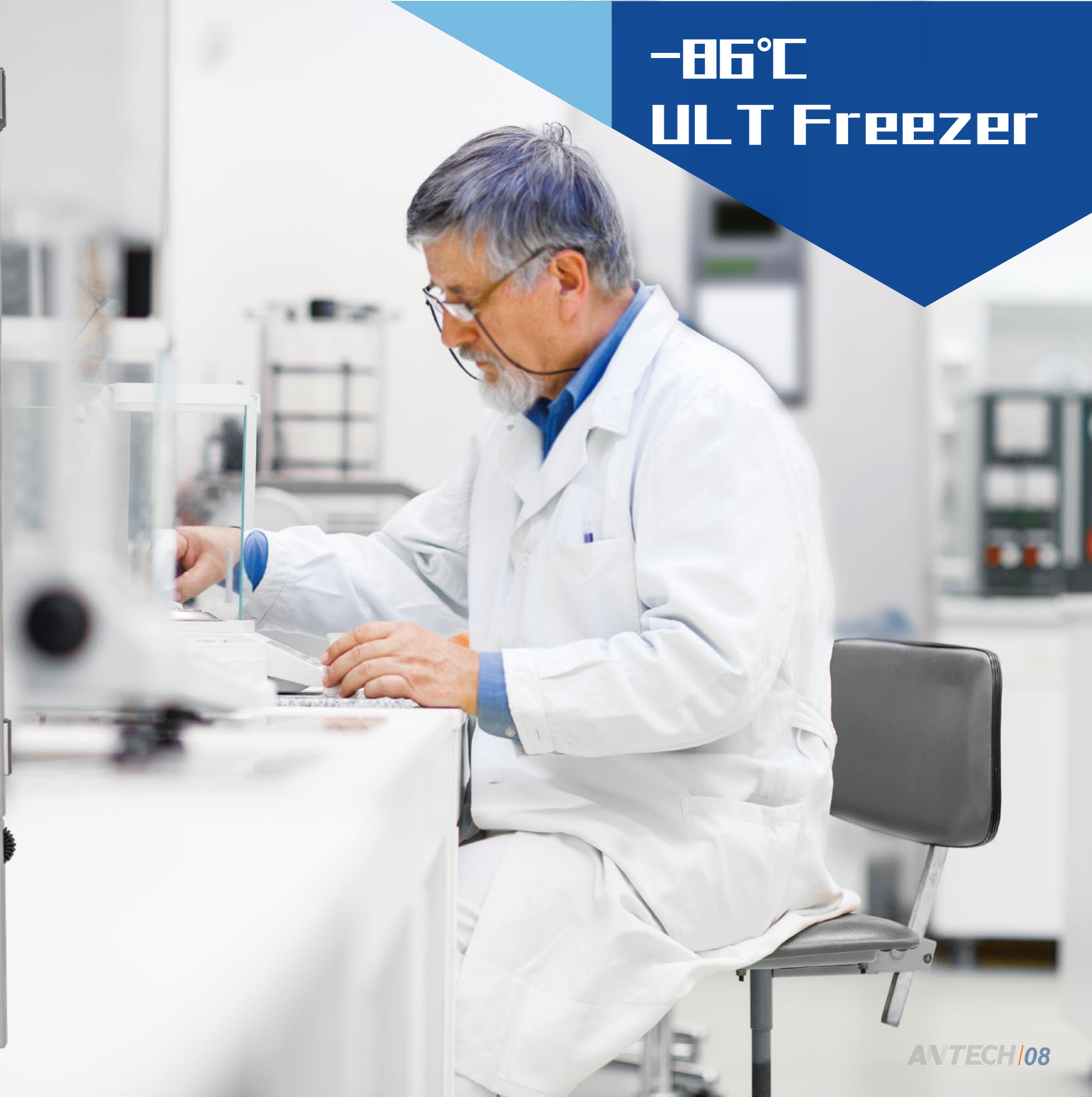
The -150 °C Cryo freezer provides a safe, convenient and economical alternative long term storage solution for a variety of biological specimens.

Applications can be found in institutions including blood banks, hospitals, epidemic prevention services, research institutes and research laboratories.

Antech Cryogenic freezer adopts high-efficiency cooling system to realize super low power consumption, fast cooling and low noise level.



-86°C
ULT Freezer



-86 °C ULT Freezer

EcoTouch Series ULT freezer



Stable Refrigeration system and Reliable performance, provide extra safety for samples
 Double hydrocarbon cascade cooling system ensures stable cooling performance;
 Inner temperature -86 °C

Intelligent Large Touch Screen for easy operation
 7-inch LCD touch screen, sensitive touch, user-friendly operation;
 highly visible display, intelligent controls and simplified programming,
 easy to set up, program, check, and monitor parameters and conditions.
 display all necessary data and temperature curves. Password lock
 provides authorized access to the freezer.

A green freezer with HC refrigerant, more energy saving
 Non greenhouse gas is used, more environmental friendly.
 Hydrocarbon refrigeration, super low power consumption.

Multiple Interfaces, available for temperature remote monitority
 Standard USB port, capable of storing 10 years data;
 Standard remote dry contact port, optional RS485/232, available for remote
 temperature monitority and central monitority

Optional co2 backup system and LN2 backup system can be supplied to guarantee extra safety for samples.

> A SMART Freezer

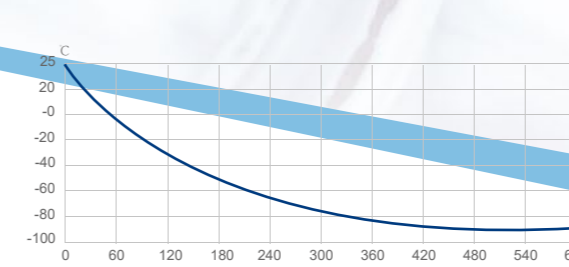
- 7" touch screen, easy observation & convenient operation
- Historical temperature curve and alarm records on screen
- Self-diagnostic, automatic check & alarm for key components
- Standard USB port, download data conveniently



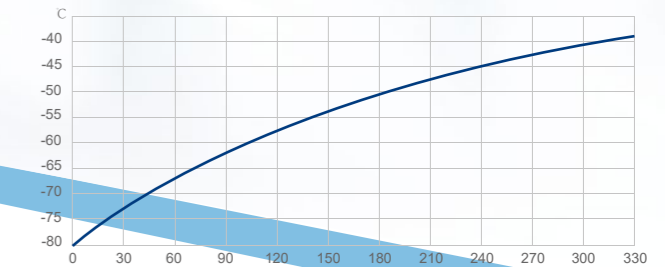
> A GREEN Freezer

- Non greenhouse gas is used, an environmental friendly freezer.
- Hydrocarbon two compressor cascade cooling system for super low power consumption.

> Temperature Performance



Power-on cooling experiment



Power-off temperature recovery experiment

> Application

The -86 °C ULT freezer is specially designed for a stable ultra low temperature storage condition, to store germs, erythrocytes, leucocytes, viruses and many other biological materials. Installations can be found in research institutes, pharmacy industry, clinical labs, blood banks and laboratories in electronic & chemical plants.



> A USER-FRIENDLY Freezer

- SUS304 interior with round corner for easy cleaning & rust free
- Document pocket to put paper, create a stylish lab
- Maximum sample storage capacity with an optimum footprint
- Special noise reduction design, a real quiet lab partner
- Optional electric lock for safety and convenient administration

7" touch screen including microprocessor control and monitoring system is installed in eye level, all controls and displays are easy to operate and read.

Exterior cold-rolled steel cabinet with a powder coat paint finish for a uniform exterior that anti-corrosion and anti-rust.

Interior #304 Stainless steel with round corner for durable use and easy cleaning.

Vacuum Insulation panel (VIP) in foaming insulation improves temperature control, increases storage capacity and samples storage efficiency.

2 stainless steel inner doors with ergonomic latch, double seals and foaming insulation reducing cold air leakage and ensure quick temperature recovery after door open.

#304 Stainless steel shelves with adjustable height are easy for various samples storage.

Pressure release port permits easy access after door closing.

Outer door with double gaskets, better for insulation

4 casters with brake are easy for moving

Easy-to-remove and washable filter provides protection from dust on the condenser, increasing refrigeration performance.



▲ Foamed inner door with latch



▲ SS304 inner door latch



▲ SS304 interior, figure marked strip and sensor



▲ Protection against Wall



▲ Washable filter



▲ Heavy-duty caster with lock



▲ Testing port



▲ 7-day circular chart recorder is Optional

> 2ml vials Storage

Model	Capacity(L)	2ml Vial	2" box *	Rack Type	Rack Qty	Total Rack Qty
MDF-86U340T	338	19200	192	4x4	12	12
MDF-86U458T	408	28800	288	5x4 4x4	8 8	16
MDF-86U588T	588	40000	400	5x5	16	16
MDF-86U728T	728	50400	504	5x4 6x4	18 6	24
MDF-86U838T	838	60000	600	5x5	24	24

* Notes: calculated based on 100-well box.

> Specification

Model		MDF-86U340T	MDF-86U458T	MDF-86U588T	MDF-86U728T	MDF-86U838T
Technical Data	Type	Upright	Upright	Upright	Upright	Upright
	Capacity (L/cu ft)	338/11.93	408/14.41	588/20.76	728/25.70	838/29.59
	Inner doors	2 pcs, SUS304 forming door	2 pcs, SUS304 forming door	2 pcs, SUS304 forming door	2 pcs, SUS304 forming door	2 pcs, SUS304 forming door
	Shelves	3 pcs, SUS304	3 pcs, SUS304	3 pcs, SUS304	3 pcs, SUS304	3, made in SUS304
	Inner chamber material	SUS304	SUS304	SUS304	SUS304	SUS304
	Cooling type	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Refrigerant	Hydrocarbon, CFC Free, Non greenhouse	Hydrocarbon, CFC Free, Non greenhouse	Hydrocarbon, CFC Free, Non greenhouse gas	Hydrocarbon, CFC Free, Non greenhouse gas	Hydrocarbon, CFC Free, Non greenhouse gas
	Noise level (dB)	50	50	51	52	53
Temperature	Ambient temperature (°C)	10~32°C	10~32°C	10~32°C	10~32°C	10~32°C
	Temperature range (°C)	-40~-86°C	-40~-86°C	-40~-86°C	-40~-86°C	-40~-86°C
Cooling & Controller	Cooling System	Two compressors cascade system	Two compressors cascade system	Two compressors cascade system	Two compressors cascade system	Two compressors cascade system
	Compressor Brand	SECOP	SECOP	SECOP	SECOP	SECOP
	Sensor	PT100	PT100	PT100	PT100	PT100
	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display & Control	7" Touch Screen	7" Touch Screen	7" Touch Screen	7" Touch Screen	7" Touch Screen
Electronic parameter	Voltage/Frequency	220~240V 50/60Hz 110V 60Hz	220~240V 50/60Hz 110V 60Hz	220~240V 50/60Hz 110V 60Hz	220~240V 50/60Hz 110V 60Hz	220~240V 50/60Hz 110V 60Hz
	Power (W)	870	845	815	935	890
	Power Consumption (kWh/24h)	6.75	11.6	12	13.28	13.86
Vials load	2ml Vials (pcs)	19200	28800	40000	50000	60000
Size & Weight	Internal (W*D*H) mm	488×607×1140	606×575×1180	606×738×1310	963×558×1350	894×718×1310
	External (W*D*H) mm	880×980×1940	900×940×1940	880×1080×2000	1260×890×2010	1190×1045×2010
	Packing (W*D*H) mm	937×1075×2135	950×960×2110	970×1140×2190	1320×975×2185	1280×1120×2210
	Net/Gross weight (kg)	190/220	215/245	249/275	320/350	275/305
Alarm System	High/low temperature	√	√	√	√	√
	Power off failure	√	√	√	√	√
	Abnormal voltage	√	√	√	√	√
	Sensor error	√	√	√	√	√
	Filter screen check	√	√	√	√	√
	Controller failure	√	√	√	√	√
	Low battery	√	√	√	√	√
	Condenser malfunction	√	√	√	√	√
	High ambient temperature	√	√	√	√	√
Door ajar	√	√	√	√	√	
Accessories	Caster	4	4	4	4	4
	Test hole/Diameter	2/25mm	1/25mm	1/25mm	1/25mm	1/25mm
	Remote alarm contact	√	√	√	√	√
	USB Port	Y	Y	Y	Y	Y
	RS232/485 port	Optional	Optional	Optional	Optional	Optional
	Temperature recorder	Optional	Optional	Optional	Optional	Optional
	Freezer racks	Optional	Optional	Optional	Optional	Optional
	CO2 backup system	Optional	Optional	Optional	Optional	Optional
LN2 backup system	Optional	Optional	Optional	Optional	Optional	

DualGuard Series ULT freezer

> A SMART Freezer

- 7" touch screen, easy observation & convenient operation
- Checking history temperature curve and alarm record on screen
- Self-diagnostic, automatic check & alarm for key components
- Standard USB port, record and download data conveniently

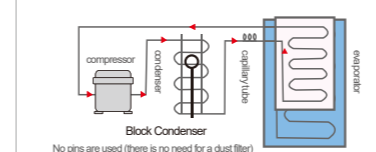
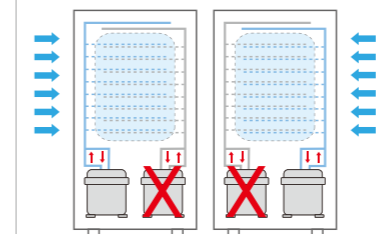


> Dual Cooling System

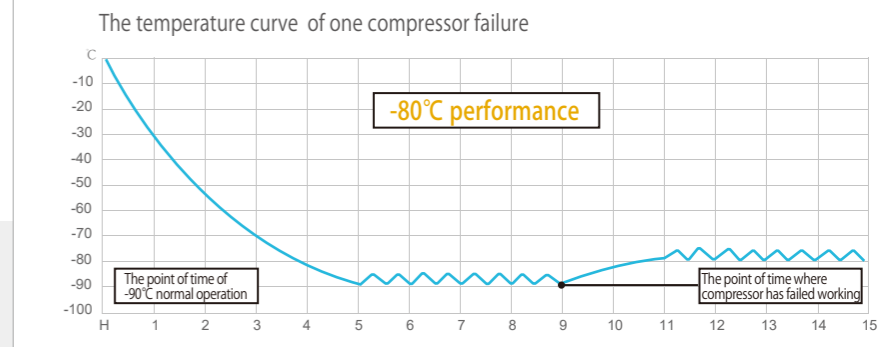
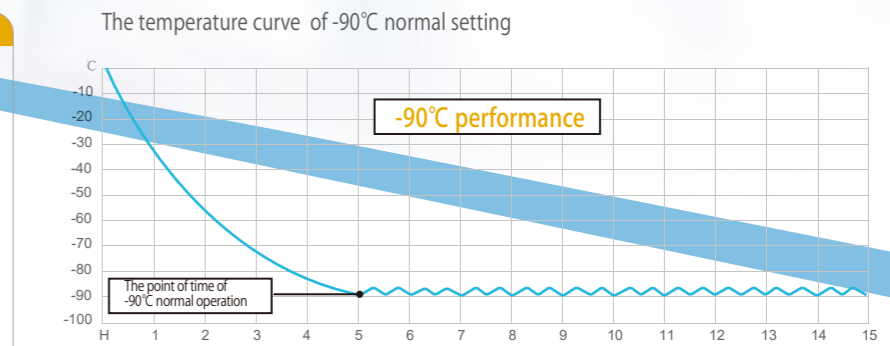
- Two independent refrigeration systems in one ULT freezer, when one system failed, the other one can maintain the temperature at -70 °C until the failed system fixed
- Exceptionally uniform and reliable temperature
- User-friendly design and low running costs.

NEW DUAL COMPRESSOR FREEZING SYSTEM

Independent refrigeration system sustain freezing temperature at least -70 °C in the event of a compressor failure.



- Dual Compressor System**
- Simplified structure provides high efficiency, lowered noise and no failures.
 - A freezer is enough for ultra cold storage at -90°C



(MDF-86U458D)



DualGuard ULT freezers maintain a reliable and uniform -86 °C ultra low temperature environment. When one cooling system suffer an unexpeced failure,the other cooling system still keeps cabinet temperature below -70 °C it is more secure to store valuable and irreplaceable samples with upmost confidence that they won't be lost in the case of compressor failure.



DualGuard Series ULT freezer

> A USER-FRIENDLY Freezer

- SUS304 interior for easy cleaning & rust free
- Document groove to put paper, create a stylish lab
- Optional electric lock for safety and convenient administration
- Maximum sample storage capacity with an optimum footprint
- Special noise reduction design, a real quiet lab partner



> Optimal Capacity

Model	Capacity(L)	2ml Vial	2" box *	Rack Type	Rack Qty	Total Rack Qty
MDF-86U458D	408	28800	288	5x4 4x4	8	16
MDF-86U588D	588	40000	400	5x5	16	16
MDF-86U728D	728	50400	504	5x4 6x4	18 6	24
MDF-86U838D	838	60000	600	5x5	24	24

* Notes: calculated based on 100-well box.

> Specification

Model	MDF-86U458D	MDF-86U588D	MDF-86U728D	MDF-86U838D
Type	Upright	Upright	Upright	Upright
Capacity (L/cu ft)	408/14.41	588/20.76	728/25.70	838/29.59
Inner doors	2 pcs, forming door, SUS304	2 pcs, forming door, SUS304	2 pcs, forming door, SUS304	2 pcs, forming door, SUS304
Shelves	3 pcs, SUS304	3 pcs, SUS304	3, made in SUS304	3, made in SUS304
Inner chamber material	SUS304	SUS304	SUS304	SUS304
Technical Data				
Cooling type	Direct cooling	Direct cooling	Direct cooling	Direct cooling
Refrigerant	Hydrocarbon, CFC Free, Non greenhouse gas	Hydrocarbon, CFC Free, Non greenhouse gas	Hydrocarbon, CFC Free, Non greenhouse gas	Hydrocarbon, CFC Free, Non greenhouse gas
Noise level (dB)	50	51	52	53
Temperature				
Ambient temperature (°C)	10~32°C	10~32°C	10~32°C	10~32°C
Temperature range (°C)	-40~-86°C	-40~-86°C	-40~-86°C	-40~-86°C
Cooling & Controller				
Cooling System	Two independent cooling system	Two independent cooling system	Two independent cooling system	Two independent cooling system
Compressor Brand	SECOP	SECOP	SECOP	SECOP
Sensor	PT100	PT100	PT100	PT100
Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Display & Control	7" Touch Screen	7" Touch Screen	7" Touch Screen	7" Touch Screen
Electronic parameter				
Voltage/Frequency	220~240V 50/60Hz 110V 60Hz	220~240V 50/60Hz 110V 60Hz	220~240V 50/60Hz 110V 60Hz	220~240V 50/60Hz 110V 60Hz
Power (W)	845	815	935	900
Power Consumption (kWh/24h)	11.6	12	13.28	13.86
Vials load				
2ml Vials (pcs)	28,800	40,000	50,400	60,000
Size & Weight				
Internal (W*D*H) mm	606×575×1180	606×738×1310	963×558×1350	894×718×1310
External (W*D*H) mm	900×940×1940	885×1100×1995	1260×890×2010	1190×1045×2010
Packing (W*D*H) mm	955×960×2110	970×1140×2190	1320×975×2185	1280×1120×2210
Net/Gross weight (kg)	215/245	249/275	320/350	275/305
Alarm System				
High/low temperature	√	√	√	√
Power off failure	√	√	√	√
Abnormal voltage	√	√	√	√
Sensor error	√	√	√	√
Filter screen check	√	√	√	√
Controller failure	√	√	√	√
Low battery	√	√	√	√
Condenser malfunction	√	√	√	√
High ambient temperature	√	√	√	√
Door ajar	√	√	√	√
Accessories				
Caster	4	4	4	4
Test hole/Diameter	1/25mm	1/25mm	1/25mm	1/25mm
Remote alarm contact	√	√	√	√
USB Port	Y	Y	Y	Y
RS232/485	Optional	Optional	Optional	Optional
Temperature recorder	Optional	Optional	Optional	Optional
Freezer racks	Optional	Optional	Optional	Optional
CO2 backup system	Optional	Optional	Optional	Optional
LN2 backup system	Optional	Optional	Optional	Optional

Classic Series ULT freezer

> Performance

- Temperature reaches -86 °C, adjustable -40 °C ~ -86 °C ,
- Microprocessor controller with LED display increment 0.1
- Wide operating voltage range from 185V to 260 V

> Reliability

- Single compressor and auto-cascade cooling system
- World famous compressor (SECOP) and blower (EBM)
- Low noise and low power consumption

> Safety

Audible and visual alarm:

- High/Low temperature alarm
- Sensor error alarm
- Power failure alarm
- Remote alarm contact

> Ergonomic Design

- Safety lock to prevent unauthorized entry
- Universal lockable caster for ease moving
- Unique CFC-free mixed refrigerant

Upright type



MDF-86U58

MDF-86U158

Chest type



MDF-86C258

> Specification

Model		MDF-86U58	MDF-86U158	MDF-86C118	MDF-86C258	MDF-86C458
Technical Data	Cabinet Type	Upright	Upright	Chest	Chest	Chest
	Capacity (L)	58	158	118	258	458
	Climate Class	N	N	N	N	N
	Cooling Type	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling
	Cooling System	Single Compressor Auto-cascade System	Single Compressor Auto-cascade System	Single Compressor Auto-cascade System	Single Compressor Auto-cascade System	Single Compressor Auto-cascade System
	Defrost Mode	Manual	Manual	Manual	Manual	Manual
	Refrigerant	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free
	Door	Single Solid Door	Single Solid Door	Single Solid Door	Single Solid Door	Single Solid Door
	Noise (dB)	50	50	50	50	50
	Performance	Temperature Range (°C)	-40 ~ -86	-40 ~ -86	-40 ~ -86	-40 ~ -86
Cooling Performance (°C)		-86	-86	-86	-86	-86
Control	Temperature Control	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LED	LED	LED	LED	LED
Material	Interior	SUS304	SUS304	SUS304	SUS304	SUS304
	Exterior	Powder Coated Steel	Powder Coated Steel	Powder Coated Steel	Powder Coated Steel	Powder Coated Steel
	Shelf	SUS304	SUS304	N/A	N/A	N/A
	Insulation	PU Forming	PU Forming	PU Forming	PU Forming	PU Forming
Electrical Data	Voltage/Frequency	220~240V 50/60Hz 110V 60Hz	220~240V 50/60Hz 110V 60Hz	220~240V 50/60Hz 110V 60Hz	220~240V 50/60Hz 110V 60Hz	220~240V 50/60Hz 110V 60Hz
	Power (W)	400	450	450	500	550
Dimensions	Net/Gross Weight (kg)	75/95	130/160	90/135	220/240	240/270
	Internal Dimension (W/D/H, mm)	364x405x409	460x455x800	700x470x360	780x500x660	1330x500x600
	External Dimension (W/D/H, mm)	540x620x1115	700x700x1580	900x750x920	1510x885x1095	2110x885x1095
	Packing Dimension (W/D/H, mm)	610x700x1240	780x800x1710	1330x850x1140	1570x945x1230	2170x945x1230
	Container Load (20'/40'/40'H)	27/57/104	21/45/45	16/36/36	7/15/30	5/11/22
Functions	High/Low Temperature Alarm	Y	Y	Y	Y	Y
	Remote Alarm Contact	Y	Y	Y	Y	Y
	Power Failure Alarm	Y	Y	Y	Y	Y
	Sensor Error Alarm	Y	Y	Y	Y	Y
Accessories	Door Lock	Y	Y	Y	Y	Y
	Caster	4	4	6	6	8
	Shelf/Chamber	1/2	2/3	N/A	N/A	N/A
	Inner Door	1	3	1	1	1
	Remote Alarm Contact	Y	Y	Y	Y	Y
	Test Hole	Y	Y	Y	Y	Y
	Data logger	Optional	Optional	Optional	Optional	Optional
	CO2 Backup System	Optional	Optional	Optional	Optional	Optional
	LN2 Backup System	Optional	Optional	Optional	Optional	Optional
Others	Certificate	CE, ISO9001	CE, ISO9001	CE, ISO9001	CE, ISO9001	CE, ISO9001

laboratory consumables

> Freezer Racks

Our freezer racks fit various sizes of freezers and they are compatible with freezer boxes provided by other manufacturers.

These freezer racks improve freezer space utilization and satisfy storage requirements of biobanks.

> Side-access freezer rack features

- Frame and interior grids are made of 304 stainless steel for durability and better appearance.
- No sharp edges to avoid risk of injury.
- Steel plate thickness:Combination of 0.5 and 1.0 mm.
- Side-access design makes it convenient and economic.
- Suitable for common low temperature freezers.
- Perfectly suitable for standard sized freezer boxes.
- The front side is printed with Antech's stenciled seal.
- Customized racks are available.



> Sliding-drawer freezer rack features

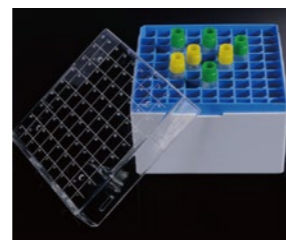
- Made of 304 stainless steel
- Steel plate thickness:Combination of 0.5 and 1.0 mm
- Sliding-drawer design for convenient operations

Low temperature rated plastic handles are standard on draw racks for easy and safety operation.

Labeling slots are standard on draws. The outward pouch design protects the slot from potential damage caused by low temperature.

The front side is printed with Antech's stenciled seal.

Customized racks are available.



> Specification

Model No	Rack Model No	Description	Rack Quantity	2 " Box Quantity	Cryo vials Quantity(2ml)
MDF-86U340T	RFE3044	2 inch stainless steel side-access rack 4*4	12	192	19200
MDF-86U340T	RDE3044	2 inch stainless steel sliding drawer rack 4*4	12	192	19200
MDF-86U458T	RFE3054	2 inch stainless steel side-access rack 5*4	8	288	28800
	RFE3044	2 inch stainless steel side-access rack 4*4	8		
MDF-86U458T	RDE3054	2 inch stainless steel sliding drawer rack 5*4	8	288	28800
	RDE3044	2 inch stainless steel sliding drawer rack 4*4	8		
MDF-86U588T	RFE3055	2 inch stainless steel side-access rack 5*5	16	400	40000
MDF-86U588T	RDE3055	2 inch stainless steel sliding drawer rack 5*5	16	400	40000
MDF-86U728T	RFE3054	2 inch stainless steel side-access rack 5*4	18	504	50400
	RFE3064	2 inch stainless steel side-access rack 6*4	6		
MDF-86U728T	RDE3054	2 inch stainless steel sliding drawer rack 5*4	18	504	50400
	RDE3064	2 inch stainless steel sliding drawer rack 6*4	6		
MDF-86U838T	RFE3055	2 inch stainless steel side-access rack 5*5	24	600	60000
MDF-86U838T	RDE3055	2 inch stainless steel sliding drawer rack 5*5	24	600	60000
MDF-86U458D	RFE3054	2 inch stainless steel side-access rack 5*4	8	288	28800
	RFE3044	2 inch stainless steel side-access rack 4*4	8		
MDF-86U458D	RDE3054	2 inch stainless steel sliding drawer rack 5*4	8	288	28800
	RDE3044	2 inch stainless steel sliding drawer rack 4*4	8		
MDF-86U588D	RFE3055	2 inch stainless steel side-access rack 5*5	16	400	40000
MDF-86U588D	RDE3055	2 inch stainless steel sliding drawer rack 5*5	16	400	40000
MDF-86U728D	RFE3054	2 inch stainless steel side-access rack 5*4	18	504	50400
	RFE3064	2 inch stainless steel side-access rack 6*4	6		
MDF-86U728D	RDE3054	2 inch stainless steel sliding drawer rack 5*4	18	504	50400
	RDE3064	2 inch stainless steel sliding drawer rack 6*4	6		
MDF-86U838D	RFE3055	2 inch stainless steel side-access rack 5*5	24	600	60000
MDF-86U838D	RDE3055	2 inch stainless steel sliding drawer rack 5*5	24	600	60000

**-40°C
Biomedical
Freezer**



-40°C Biomedical Freezer

Model: **MDF-40U450**

> Overview

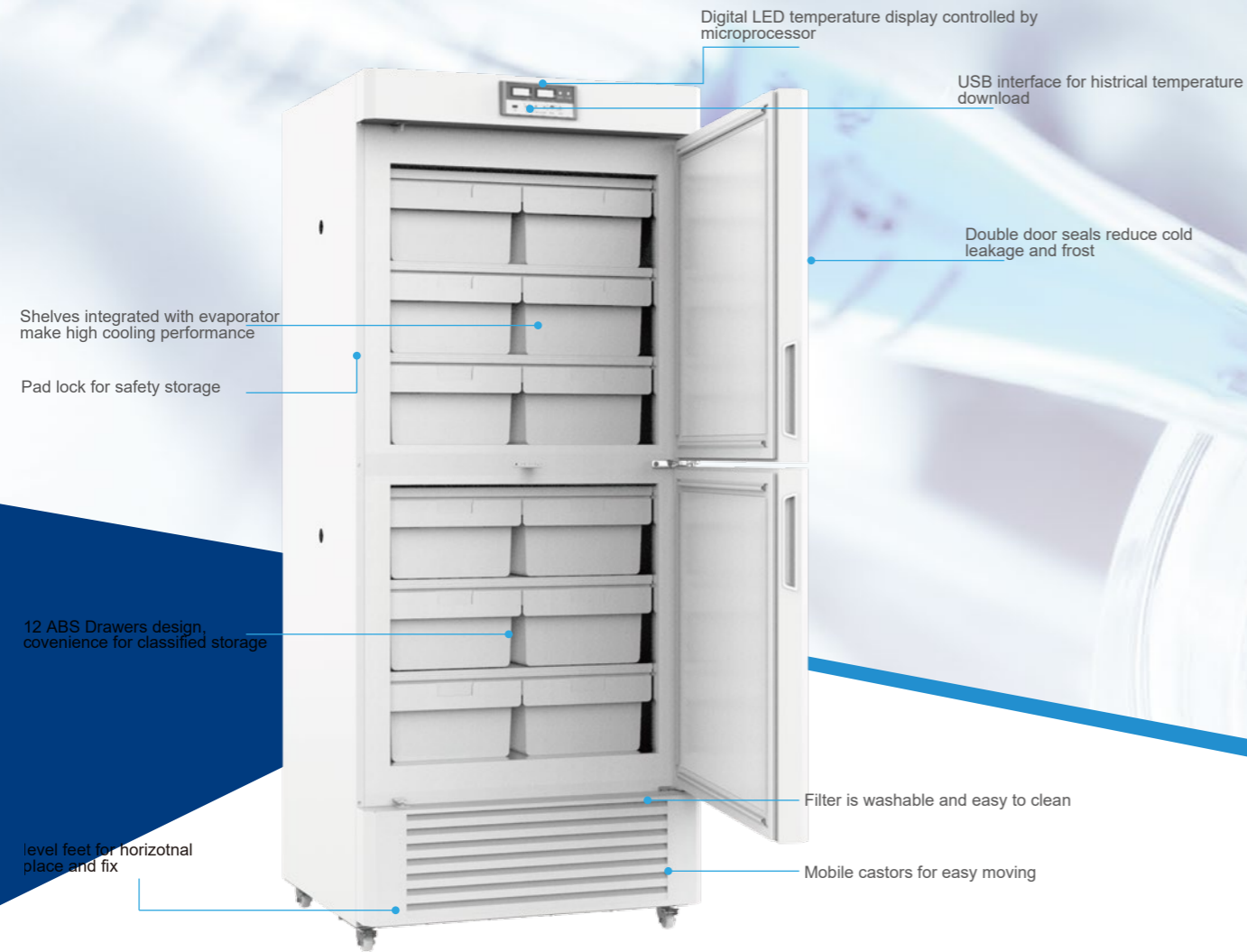
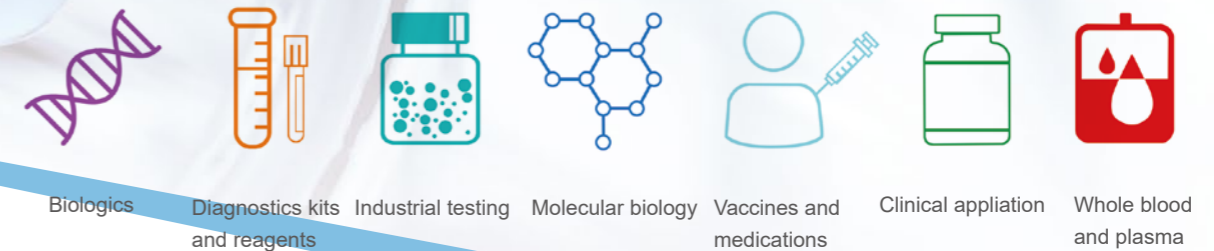
Refrigeration System

Reliable compressor and fan, ensure fast cooling, energy-saving and long time running
 The evaporator is intergrated with shelves and distribute in 6 compartments, ensures uniform temperature
 Two reliable compressors control upper and lower compartment seperately to ensure better cooling performance
 Environment friendly refrigerant CFC-free and HFCF-free

Cabinet Construction

Powder coated steel exterior, Aluminum plate interior with round corner design easy to clean-up
 Superior engineered frame for maximum rigidity
 Self-closing door with magnetic closure
 High thickness Non-CFC foamed insulation, energy saving
 Doorlock prevents unauthorized access to the freezer
 Low noise design creates a comfortable and quiet working environment
 Independent compartments with ABS drawers are convenient to classify and store different samples

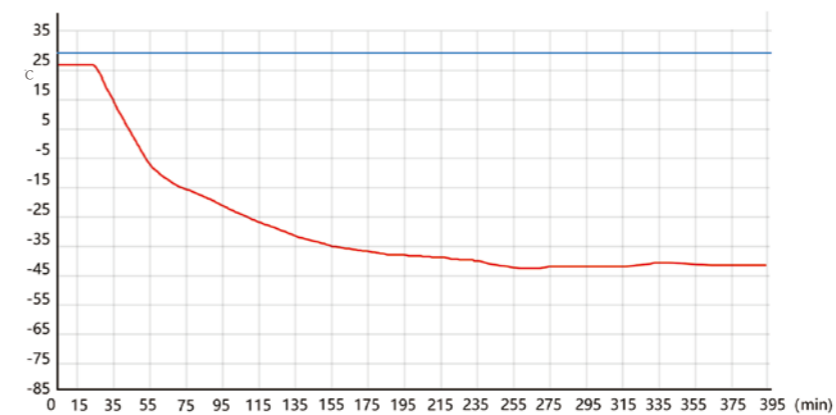
> Scope of Application



> Features

- High-precision digital microprocessor temperature control system with digital
- LED temperature display 0.1°C accuracy.
- Temperature setting range is -20°C ~-40°C
- The digital display show freezer work condition and alarm code, easy to know freezer status
- Audibale and visible alarm system for safe storage:
 High temperature alarm, Low temperature alarm, Sensor failure alarm, Door ajar alarm, Power failure alarm, Low battery alarm, Hot condensor alarm;
- 3 sensors available for cooling, real time display and amabinet temperature display
- Build-in USB interface enable users to download the historical temperature data
- Optional for the remote alarm contact

> Mappings



> Specification

Model		MDF-40U90	MDF-40U270	MDF-40U450	MDF-40U525
Technical Data	Cabinet Type	Upright	Upright	Upright	Upright
	Capacity (L)	90	270	450	525
	Temperature Range (°C)	-20~ -40	-20~ -40	-20~ -40	-20~ -40
	Cooling Performance(°C)	-40	-40	-40	-40
	Temperature ambient(°C)	10~32	10~32	10~32	10~32
	Temperature Control	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LED digital display	LED digital display	2 LED digital displays	2 LED digital displays
	Cooling Type	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling
	Defrost Mode	Manual	Manual	Manual	Manual
	Refrigerant	CFC-Free	CFC-Free	CFC-Free	CFC-Free
	Noise (dB)	40	40	40	40
Functions	High/low Temperature Alarm	Y	Y	Y	Y
	Power Failure Alarm	N	N	Y	Y
	Sensor Error Alarm	Y	Y	Y	Y
	Low Battery Alarm	N	N	Y	Y
	Door Ajar Alarm	Y	Y	Y	Y
Electrical Data	Power (W)	370	575	840	345
	Power consumption(KWh/24h)	1.69	2.86	5	6.7
	Rated current (A)	1.68	2.7	2.7	3.4
	Voltage/Frequency(V/Hz)	220~240V 50/60Hz 110V 60Hz	220~240V 50/60Hz 110V 60Hz	220~240V 50/60Hz 110V 60Hz	220~240V 50/60Hz
Accessories	Door	1 foaming door	1 foaming door	2 foaming door	2 foaming door
	Door Lock	Y	Y	Y	Y
	Caster	2	2	4	4
	Foot	2	2	N/A	2
	Shelf/Drawer	2/3	7/7	4/12	4/18
	Test Hole	Y	Y	Y	Y
	Remote Alarm Contact	N	N	Y	Y
	USB	N	N	Y	N
Dimensions	Net/Gross Weight (kg)	54/59	94/102	143/156	160/180
	Internal Dimension (W/D/H, mm)	500×485×532	500×460×123	(650×570×627) ×2	(651×631.5×635)×2
	External Dimension(W/D/H, mm)	700×669×854	700×640×1792	810×735×1960	900×818.5×1828
	Packing Dimension(W/D/H, mm)	745×712×927	760×740×1910	895×850×2025	997×912×1982
	Container Load (20'/40'/40'H)	42/90/90	21/45/45	12/26/26	12/24/24

-40 °C Chest Freezer



> Features

- Fit with high efficiency compressor to achieve reliable cooling performance; can reach to -45 °C the lowest.
- Microprocessor control with digital display, temperature accuracy 0.1°C
- High-density and ultra-thick insulation, high efficiency and energy saving
- CFC-free refrigerant, environment friendly;
- Wide voltage design, available from 192~242V

> Safety

- Multiple audible and visual alarms including high/low temperature alarm, sensor error alarm;
- Multiple protections for the freezer: password protection on the display board prevents unauthorized access;
- Power-on delay protection and frequent start protection extend the service life of the compressor;
- Safety door lock avoids unauthorized access to the samples;

> Ergonomic Design

- Standard access port for external probes;
- Fit with castors for easy moving
- Baskets come as standard for convenient storage of samples;

Model	MDF-40C100	MDF-40C200	MDF-40C300	MDF-40C400	MDF-40C500
Technical Data					
Cabinet Type	Chest	Chest	Chest	Chest	Chest
Capacity (L)	100	190	285	370	470
Climate Class	ST	ST	ST	ST	ST
Cooling Type	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling
Defrost Mode	Manual	Manual	Manual	Manual	Manual
Refrigerant	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free
Door	Single	Single	Single	Single	Single
Inner Door	N/A	N/A	N/A	N/A	N/A
Noise (dB)	40	40	40	40	40
Performance					
Temperature Range (°C)	-10~-40	-10~-40	-10~-40	-10~-40	-10~-40
Cooling Performance(°C)	-40	-40	-40	-40	-40
Control					
Temperature Control	Electronic controller	Electronic controller	Electronic controller	Electronic controller	Electronic controller
Display	LED	LED	LED	LED	LED
Electrical Data					
Voltage/Frequency(V/Hz)	220-240V 50/60Hz 110V 60Hz	220-240V 50/60Hz 110V 60Hz	220-240V 50/60Hz 110V 60Hz	220-240V 50/60Hz 110V 60Hz	220-240V 50/60Hz 110V 60Hz
Power (W)	120	150	160	200	200
Dimensions					
Net/Gross Weight (kg)	32/40	65/78	75/88	85/98	110/125
Internal Dimension (W/D/H, mm)	520×345×615	760×485×600	1080×485×600	1340×485×600	1710×485×625
External Dimension(W/D/H, mm)	700×600×850	940×765×850	1270×765×850	1530×765×850	1900×775×890
Packing Dimension(W/D/H, mm)	745×580×890	990×775×890	1320×775×890	1580×775×890	1950×785×930
Container Load (20'/40'/40'H)	62/128/192	34/72/108	24/54/81	20/44/66	20/44/66
Functions					
High/Low Temperature Alarm	Y	Y	Y	Y	Y
Sensor Error Alarm	Y	Y	Y	Y	Y
Accessories					
Door Lock	N/A	Y	Y	Y	Y
Foot	4	4	4	4	4
Basket	1	2	2	2	2
Test Hole	Optional	Optional	Optional	Optional	Optional
Others					
Certificate	CE, ISO9001	CE, ISO9001	CE, ISO9001	CE, ISO9001	CE, ISO9001

-25 °C Biomedical Freezer

> Reliability & Key Features

- Main power switch: convenient operation
- Microprocessor controller: digital display
- Low power consumption
- Environment friendly refrigerant: CFC-Free and HCFC-Free.
- World-class brand compressor
- Powder coated galvanized steel interior

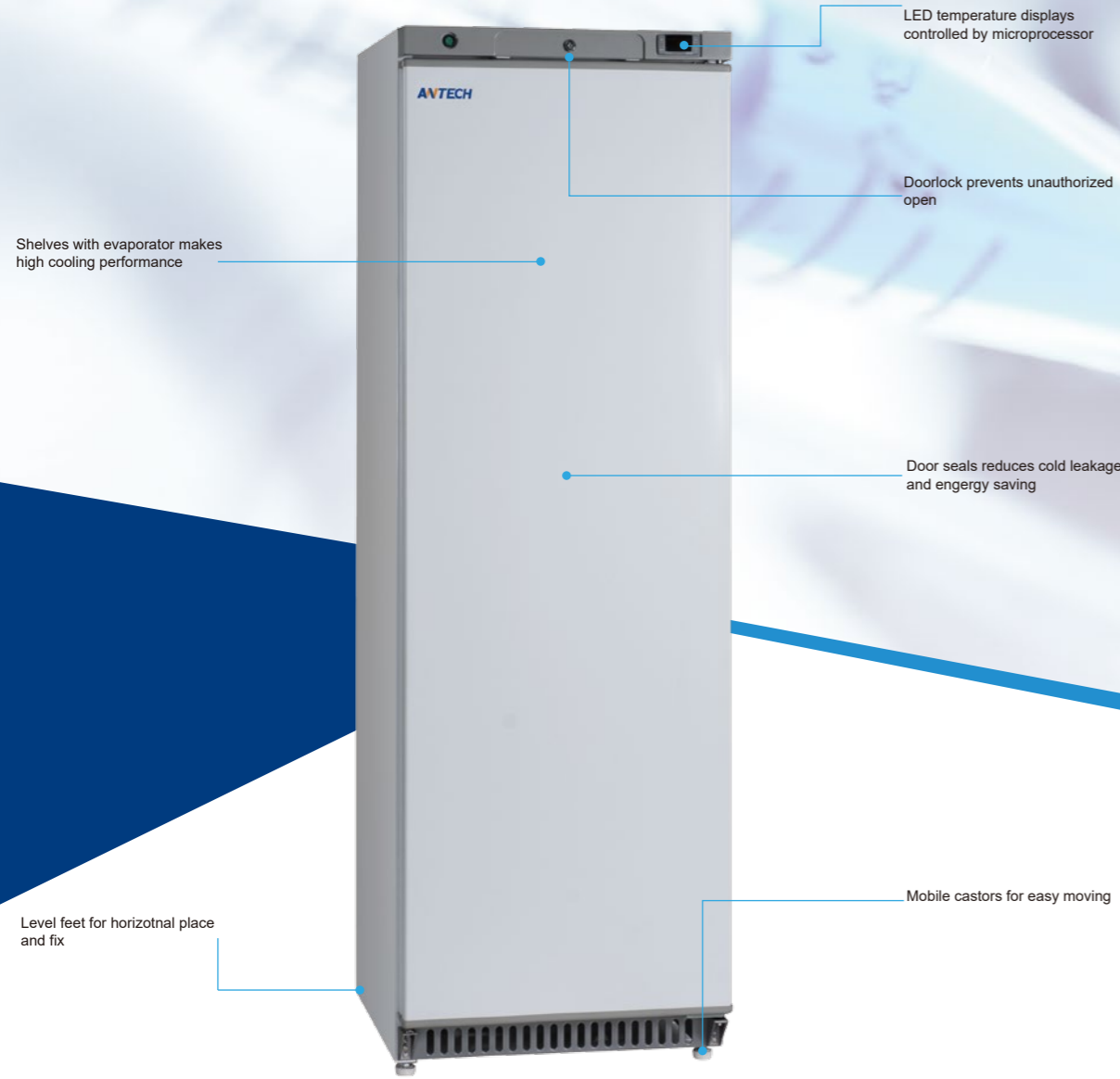
> Safety

- Multiple malfunction alarm: high/low temperature alarm, sensor error alarm, door ajar alarm
- Safety lock prevents unauthorized access
- Two types of alarm indications: audible buzzing and visible flashing light

MDF-25U150/400/600 Interior



MDF-25U150



The -25 °C deep freezer offers a stable low temperature storage condition. Integrated design of cold shelf and evaporator provides additional refrigeration efficiency. This product is designed to store vaccine, reagent and many other biological materials, widely applied in research institutions and clinical sites in life science, electronic testing and medical fields.



> Specification



Model		MDF-25U150	MDF-25U278	MDF-25U400	MDF-25U600
Technical Data	Cabinet Type	Upright	Upright	Upright	Upright
	Capacity (L)	135	278	350	550
	Temperature Range (°C)	-10~ -25	-10~ -25	-10~ -25	-10~ -25
	Cooling Performance(°C)	-25	-25	-25	-25
	Temperature ambient(°C)	16~32	10~32	10~32	10~32
	Temperature Control	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LED digital display	LED digital display	LED digital display	2 LED digital displays
	Cooling Type	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling
	Defrost Mode	Manual	Manual	Manual	Manual
	Refrigerant	CFC-Free	CFC-Free	CFC-Free	CFC-Free
Noise (dB)	40	40	40	40	
Functions	High/Low Temperature Alarm	Y	Y	Y	Y
	Power Failure Alarm	Y	Y	Y	Y
	Sensor Error Alarm	Y	Y	Y	Y
	Low Battery Alarm	Y	N/A	Y	Y
	Door Ajar Alarm	Y	Y	Y	Y
	Ambient Temperature High Alarm	Y	N/A	Y	Y
Electrical Data	Power (W)	160	170	398	280
	Voltage/Frequency(V/Hz)	220~240V 50/60Hz	220~240V 50/60Hz	220~240V 50/60Hz	220~240V 50/60Hz
Accessories	Door	1 foaming door	1 foaming door	1 foaming door	1 foaming door
	Door Lock	N	Y	N	N
	Caster	4	4	4	4
	Foot	2	2	2	2
	Shelf/Drawer	2/1basket	6/7	6/-	6/-
	Test Hole	Y	Y	Y	Y
	Remote Alarm Contact	Optional	Optional	Optional	Optional
	USB	N	N	N	N
Dimensions	Net/Gross Weight (kg)	46/55	105/115	85/98	101/112
	Internal Dimension (W/D/H, mm)	490×480×630	480×415×1460	480×450×1625	645×530×1645
	External Dimension(W/D/H, mm)	598×623×838	651×574×1656	600×645×1875	775×750×1900
	Packing Dimension(W/D/H, mm)	650×690×870	710×650×1810	665×715×1970	780×840×2008
	Container Load (20'/40'/40'H)	54/108/162	27/54/54	24/51/51	12/26/26

-25°C Chest Freezer

> Specification



> Features

- Fit with high efficiency compressor to achieve reliable cooling performance; can reach to -45°C the lowest.
- Microprocessor control with digital display, temperature accuracy 0.1°C
- High-density and ultra-thick insulation, high efficiency and energy saving
- CFC-free refrigerant, environment friendly;
- Wide voltage design, available from 192~242V

> Safety

- Multiple audible and visual alarms including high/low temperature alarm, sensor error alarm;
- Multiple protections for the freezer: password protection on the display board prevents unauthorized access;
- Power-on delay protection and frequent start protection extend the service life of the compressor;
- Safety door lock avoids unauthorized access to the samples;

> Ergonomic Design

- Standard access port for external probes;
- Fit with castors for easy moving
- Baskets come as standard for convenient storage of samples;

Model	MDF-25C100	MDF-25C200	MDF-25C300	MDF-25C400	MDF-25C500	
Technical Data	Cabinet Type	Chest	Chest	Chest	Chest	Chest
	Capacity (L)	100	190	285	370	470
	Climate Class	ST	ST	ST	ST	ST
	Cooling Type	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling
	Defrost Mode	Manual	Manual	Manual	Manual	Manual
	Refrigerant	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free
	Door	Single	Single	Single	Single	Single
	Noise (dB)	40	40	40	40	40
Performance	Temperature Range (°C)	0~-25	0~-25	0~-25	0~-25	0~-25
	Cooling Performance(°C)	-25	-25	-25	-25	-25
Control	Temperature Control	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LED	LED	LED	LED	LED
Electrical Data	Voltage/Frequency(V/Hz)	220~240V 50/60Hz	220~240V 50/60Hz	220~240V 50/60Hz	220~240V 50/60Hz	220~240V 50/60Hz
	Power (W)	100	180	200	200	200
Dimensions	Net/Gross Weight (kg)	32/40	65/78	75/88	85/98	85/98
	Internal Dimension (W/D/H, mm)	520×345×615	760×485×600	1080×485×600	1340×485×600	1340×485×600
	External Dimension(W/D/H, mm)	700×600×850	940×765×850	1270×765×850	1530×765×850	1530×765×850
	Packing Dimension(W/D/H, mm)	745×580×890	990×775×890	1320×775×890	1580×775×890	1580×775×890
	Container Load (20'/40'/40'H)	62/128/192	34/72/108	24/54/81	20/44/66	20/44/66
Functions	High/low Temperature Alarm	Y	Y	Y	Y	Y
	Sensor Error Alarm	Y	Y	Y	Y	Y
	Door Ajar Alarm	N/A	N/A	N/A	N/A	N/A
	Remote Alarm Contact	N/A	N/A	N/A	N/A	N/A
	Power Failure Alarm	N/A	N/A	N/A	N/A	N/A
Accessories	Door Lock	N/A	Y	Y	Y	Y
	Caster	N/A	N/A	N/A	N/A	N/A
	Foot	Y	Y	Y	Y	Y
	Shelf/Drawer	N/A	N/A	N/A	N/A	N/A
	Basket	1	2	2	2	2
	Test Hole	Standard	Standard	Standard	Standard	Standard
	Data Logger	Optional	Optional	Optional	Optional	Optional
Others	Certificate	CE, ISO9001	CE, ISO9001	CE, ISO9001	CE, ISO9001	CE, ISO9001

Combined Refrigerator and Freezer

Thick insulation

Made from environmental friendly material.
Ensures low energy consumption.

Automatic defrosting

Easy-to-maintain interior

Anti-corrosion and easy cleaning

Adjustable shelves

Door lock

prevent unauthorized access

Solid protection

Made from rust-proof, cold steel
with white powder coating

Microprocessor control and digital display
ensures inside temperature at 2-8°C and makes
temperature resolution 0.1°C

Forced-air cooling

Glass door
double-layer glass with electrical
heater decrease condensation

Foaming door
double layer seals,
reduce cold leakage

ABS Drawers design,
convenience for classified storage

Castors with brake,
easy moving and lock

> Features

● Intelligent Control System

High-precision microprocessor temperature control system with digital LED temperature display 0.1°C accuracy.

Temperature: Refrigerator: 2°C ~ 8°C, Freezer: -10°C ~ -40°C/ -10°C ~ -25°C

The digital display can show the freezer work condition and alarm code, it is easy to know the freezer status

3 Channel sensors for cooling, display and ambient temperature

● Security Alarm System

Audible and visible alarm system for safe storage

High temperature alarm, Low temperature alarm, Sensor failure alarm,

Door ajar alarm, Power failure alarm,

Low battery alarm, High ambient alarm, USB failure alarm

Optional for the remote alarm contact



> Overview

● Refrigeration System

Refrigerator compartment is forced-air cooling, freezer compartment is direct cooling

Two compressors control the refrigeration chamber and freezer chamber separately

Reliable compressor and fan, ensure fast cooling, energy-saving and long time running

Environment friendly refrigerant CFC-free and HCFC-free

● Cabinet Construction

Powder coated steel exterior

50mm thickness Non-CFC foamed insulation in refrigerator compartment and 100mm thickness in freezer compartment

Doorlock prevents unauthorized open

Low noise design creates a comfortable working environment

Superior engineered frame for maximum rigidity

Refrigerator compartment has adjustable shelves and one drawer, freezer compartment has fixed shelves integrated with evaporator and ABS drawers

> Specification

Model	MRF-288A		MRF-350A		MRF-450A		MRF-288		MRF-350		MRF-450		
Technical Data	Chamber	Refrigerator	Freezer	Refrigerator	Freezer	Refrigerator	Freezer	Refrigerator	Freezer	Refrigerator	Freezer	Refrigerator	Freezer
	Capacity (L)	188	100	183	185	315	204	188	100	183	185	315	204
		Total: 288		Total: 368		Total: 519		Total: 288		Total: 368		Total: 519	
	Cabinet Type	Upright		Upright		Upright		Upright		Upright		Upright	
	Climate	N		N		N		N		N		N	
	Door Type	Double-layer Glass Door	Solid Door	Double-layer Glass Door	Solid Door	Double-layer Glass Door	Solid Door	Double-layer Glass Door	Solid Door	Double-layer Glass Door	Solid Door	Double-layer Glass Door	Solid Door
	Cooling Type	Forced Air Cooling	Direct Cooling	Forced Air Cooling	Direct Cooling	Forced Air Cooling	Direct Cooling	Forced Air Cooling	Direct Cooling	Forced Air Cooling	Direct Cooling	Forced Air Cooling	Direct Cooling
	Defrost Mode	Auto	Manual	Auto	Manual	Auto	Manual	Auto	Manual	Auto	Manual	Auto	Manual
	Refrigerant	CFC-free		CFC-free		CFC-free		CFC-free		CFC-free		CFC-free	
	Noise(dB)	42		42		42		42		42		42	
Performance	Temperature Range (°C)	2~8	-10 ~ -40	2~8	-10 ~ -40	2~8	-10 ~ -40	2~8	-10 ~ -25	2~8	-10 ~ -25	2~8	-10 ~ -25
Control	Controller	Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor	
	Display	LED Digital		LED Digital		LED Digital		LED Digital		LED Digital		LED Digital	
Electrical Data	Power Supply(V/Hz)	220~240V 50/60Hz 110V 60Hz		220~240V 50/60Hz		220~240V 50/60Hz 110V 60Hz		220~240V 50/60Hz 110V 60Hz		220~240V 50/60Hz		220~240V 50/60Hz 110V 60Hz	
	Power(W)	600		300		600		600		300		600	
	Electric(A)	2.23		2.45		2.23		2.23		2.37		2.23	
Dimensions	Internal Dimensions(W×D×H,mm)	600*510*710	500*460*505	580*626*625	466*636*625	750*610*740	650*560*565	600*510*710	500*460*505	580*626*625	466*636*625	750*610*740	650*560*565
	External Dimensions(W×D×H,mm)	745×650×1845		730×830×1880		910×740×1972		700×640×1828		720×830×1870		910×740×1972	
	Packing Dimensions(W×D×H,mm)	828×746×1925		775×920×1990		990×855×2062		828×746×1925		775×920×1990		990×855×2062	
	Net/Gross Weight (kg)	146/160		137/166		186/205		146/160		137/166		186/205	
	Container Load (20'/40'/40'H)	18/36/36		18/36/36		12/24/24		18/36/36		12/24/24		12/24/24	
Functions	Remote Alarm	High/Low Temperature , Remote Alarm , Power Failure Alarm , Sensor Error Alarm , Low Battery Alarm , High Ambient Temperature Alarm , USB Failure Alarm						High/Low Temperature , Remote Alarm , Power Failure Alarm , Sensor Error Alarm , Low Battery Alarm , High Ambient Temperature Alarm , USB Failure Alarm					
Accessories	Door Lock	1	1	1	1	1	1	1	1	1	1	1	1
	Caster	4		4		4		4		4		4	
	Test Hole	Y		Y		Y		Y		Y		Y	
	Shelf/Drawer	3/1	2/3	3/-	2/6	3/1	2/6	3/1	2/3	3/-	2/6	3/1	2/6
	USB Interface	Y		Y		Y		Y		Y		Y	

Pharmacy Refrigerator SPIRIT

Pharmacy Refrigerator SPIRIT

Door lock
Prevent unauthorized access

LED Light
Easy to observe the storage samples

Easy-to-maintain interior
Anti-corrosion and easy cleaning

Adjustable shelves
Height adjustable shelves to store different drugs

Thick insulation
Made from environmental friendly material.
Ensures low energy consumption.

Level feet
Horizontal place and fix

Microprocessor controller digital display
Ensures inside temperature at 2-8 °C and temperature resolution 0.1 °C

USB Interface
For historical temperature download

Forced-air cooling
For good temperature uniformity

Glass door
Double-layer glass with Electrical heater decrease condensation

Basket
Increase storage efficiency

Castors
Easy moving and lock

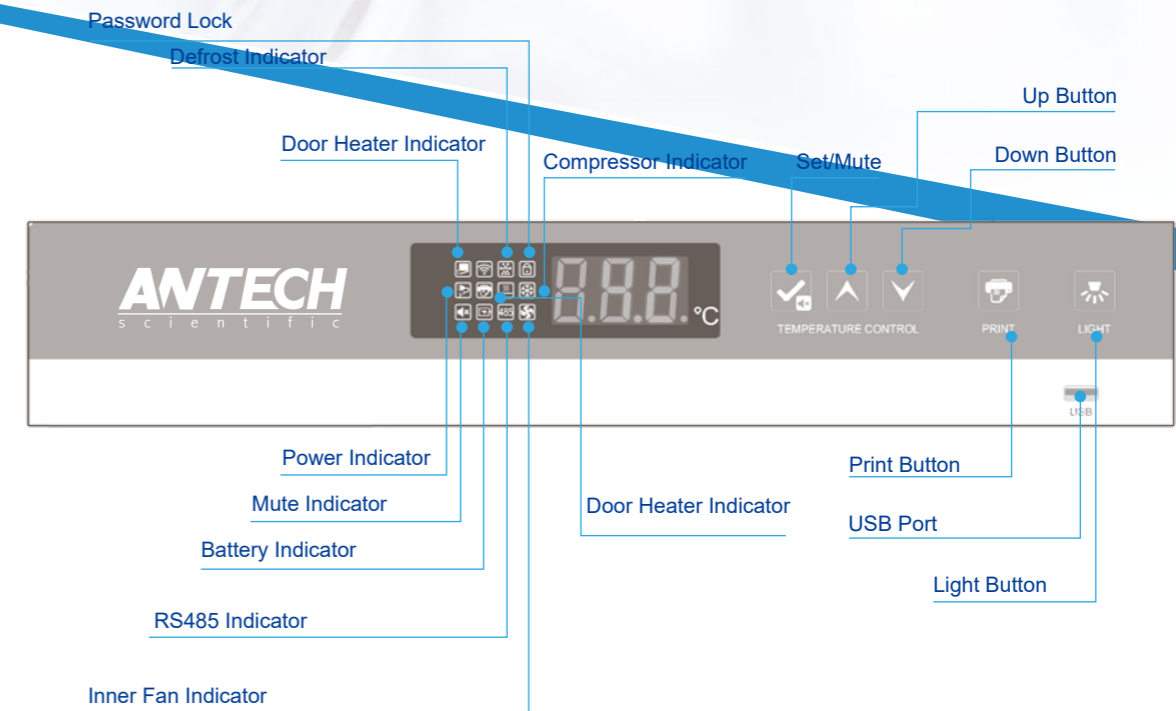
> Refrigeration System

- Forced-air cooling refrigerant system reduces the inside temperature fluctuation and maintains a constant temperature
- Auto-defrost function: automatically remove the ice on evaporator surface
- Reliable compressor and fan, ensure fast cooling, energy-saving and long time running
- Environment friendly refrigerant CFC-free and HFC-free

> Ergonomic Design

- Double layer glass door is easy to observe the storage inside
- Electrical heated glass door avoid condensation
- Door lock avoids the unauthorized access
- Shelves height is adjustable
- Interior LED light for easy observation
- Caster and level feet are easy for moving and lock
- Epoxy coated exterior: anti-bacteria and easy cleaning
- Low noise design creates a comfortable working environment
- RS485 contact enables centralized management

Digital Display & Control Panel



> Features

- Intelligent Control System**
 High-precision microprocessor temperature control system with digital LED temperature display 0.1 °C accuracy.
 Temperature: 2 °C ~ 8 °C
 The digital display indicates the refrigerator work condition and alarm code, easy to know the refrigerator status
 Dual Channel sensors for cooling control and temperature display
 Password protection on microprocessor controller to avoid unauthorized setting
- Security System**
 Audible and visible alarm system for safe storage
 High/Low temperature alarm, Sensor error alarm, Door ajar alarm, Power failure alarm, Low battery alarm
 High Ambient Temperature Alarm, USB Failure Alarm, Remote Alarm
 Standard with remote alarm contact
- Temperature Recording System**
 Build-in USB interface enable users to download the historical temperature data

2°C~8°C Under-bench Refrigerator



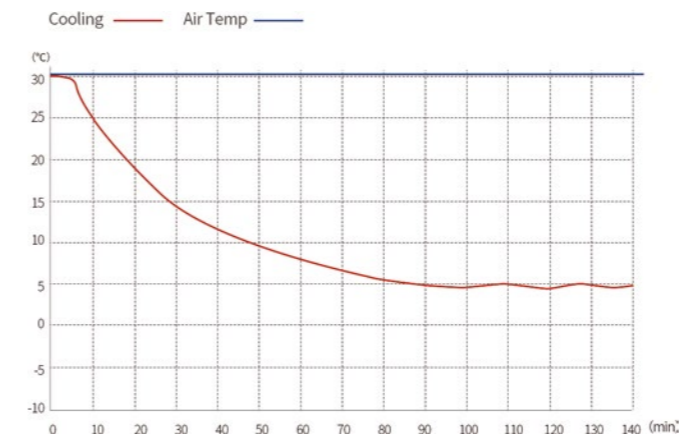
> Humanized Operation Design

Electrical heated glass door with key lock
Multiple alarms: high and low temperature alarm, sensor failure alarm, power failure alarm, door open alarm, remote alarm.
Durable exterior and interior construction, easy to clean;
Standard castors for easy moving
Standard USB port, remote alarm contact and RS485 interface for monitor system.

> Scope of Application

Suitable for storage of biological products, vaccines, drugs, reagents, etc. Application can be found in pharmacies, pharmaceutical factories, hospitals, centers for disease prevention & control, clinics, etc.

> Performance Data/Cooling Curve



> Reliability

High accuracy temperature controller with high sensitivity sensors, keep the temperature within 2~8°C, Display accuracy at 0.1°C.

> Features

Fit with famous brand compressor and condenser, better cool performance;
HCFC-FREE refrigerant ensure environmental protection & safety.
Air cooling, auto-defrost, temperature uniformity within 2°C.

> Specification



Model	MPR-60	MPR-130	MPR-368	MPR-406	MPR-525	MPR-1015
Technical Data	Cabinet Type	Under bench	Under bench	Upright	Upright	Upright
	Capacity (L)	55	135	315	395	525
	Temperature Range (°C)	2-8	2-8	2-8	2-8	2-8
	Temperature Resolution(°C)	0.1	0.1	0.1	0.1	0.1
	Temperature ambient(°C)	10-32	16-32	16-32	16-32	16-32
	Temperature Control	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LED digital display	LED digital display	LED digital display	LED digital display	LED digital display
	Cooling Type	Forced-air Cooling	Forced-air Cooling	Forced-air Cooling	Forced-air Cooling	Forced-air Cooling
	Defrost Mode	Automatic	Automatic	Automatic	Automatic	Automatic
	Refrigerant	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free
Functions	Noise (dB)	40	40	42	42	43
	High/low Temperature Alarm	Y	Y	Y	Y	Y
	Power Failure Alarm	Y	Y	Y	Y	Y
	Sensor Error Alarm	Y	Y	Y	Y	Y
	Low Battery Alarm	Y	Y	Y	Y	Y
	Door Ajar Alarm	Y	Y	Y	Y	Y
	Ambient Temperature High Alarm	Y	Y	Y	Y	Y
	USB Failure Alarm	Y	Y	Y	Y	Y
Electrical Data	Remote Alarm Contact	Y	Y	Y	Y	Y
	Power (W)	121	147	285	290	548
	Power consumption(KWh/24h)	1.54	1.5	2.05	2.5	3.81
	Rated current (A)	0.53	0.54	1.35	1.8	2.49
Accessories	Voltage/Frequency(V/Hz)	220-240V 50/60Hz 110V 60Hz	220-240V 50/60Hz 110V 60Hz	220-240V 50/60Hz 110V 60Hz	220-240V 50/60Hz 110V 60Hz	220-240V 50/60Hz 110V 60Hz
	Door	Single Glass Door	Single Glass Door	Single Glass Door	Single Glass Door	Single Glass Door
	Door Lock	Y	Y	Y	Y	Y
	Caster	2	4	4	4	4
	Level Foot	2	2	2	2	2
	Shelf	2	2	4 Shelves +1 Basket	6 Shelves +1 Basket	6 Shelves +1 Basket
	Remote Alarm Contact	Y	Y	Y	Y	Y
	Test Hole	Y	Y	Y	Y	Y
Dimensions	USB	Y	Y	Y	Y	Y
	Net/Gross Weight (kg)	35/38	41/44	87/99	95/108	148/174
	Internal Dimension (W/D/H, mm)	444×440×404	554×450×588	580×533×1122	580×533×1352	610×685×1264
	External Dimension(W/D/H, mm)	540×560×632	650×625×810	650×673×1762	650×673×1992	720×810×1961
	Packing Dimension(W/D/H, mm)	580×600×685	690×665×855	734×749×1800	734×749×2030	744×862×2055
Container Load (20'/40'/40'H)	81/174/174	54/120/120	21/45/45	21/45/45	14/30/30	
						10/21/21

Pharmacy Refrigerator CLASSIC

Environmentally friendly insulation material ensures low energy consumption.

Microprocessor control and digital display ensure inside temperature at 2-8 °C and temperature resolution at 0.1 °C

Easy-to-maintain interior
Anti-corrosion and easy cleaning

Solid protection
Made from rust-proof, cold steel with white powder coating

Adjustable shelves
Adjustable shelf height to fill different drugs

Door lock
prevent unauthorized access

Automatic defrosting



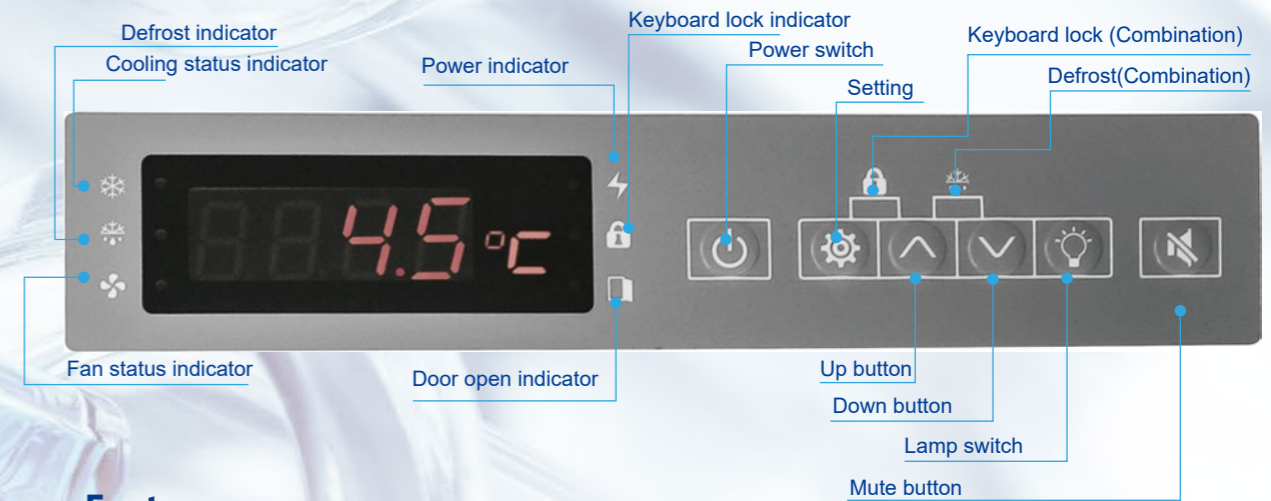
Forced-air cooling
All models are equipped with fans to distribute the cooling air inside uniformly to ensure better temperature uniformity

Glass door
with double-layer glass and magnetic seal prevent chamber air leakage.

Electrical heater (optional)
decrease condensation on glass door

Castors with brake, easy moving and lock

Digital Display & Control Panel



> Feature

- Accurate temperature control to maintain inner temperature at 2~8 °C and increment at 0.1 °C
- High-tech integrated sensors to display and control temperature
- Auto-defrost to remove moisture on cooling surface
- Removable outdoor double seal design for better temperature maintain and energy saving

> Reliability

- Microprocessor controlled forced-air cooling system
- Digital temperature display with 0.1°C resolution
- Double-layer glass door equipped with electrical heater(optional) to avoid condensation

> Ergonomic design

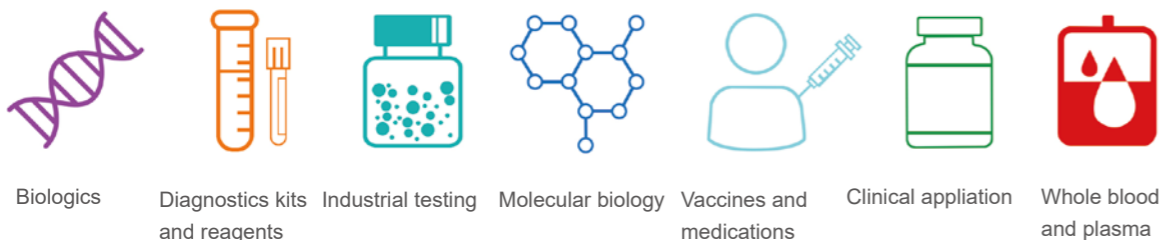
- Epoxy coated exterior: anti-bacteria and easy cleaning
- Adjustable shelves
- Caster with brake for easy moving and lock
- Interior LED light for easy observation
- Environment friendly refrigerants: CFC-free and HCFC-free

> Safety

- Password protection prevent unauthorized temperature setting
- Lock to prevent unauthorized access
- Two alarm styles: buzzer and flash
- Start delay protection



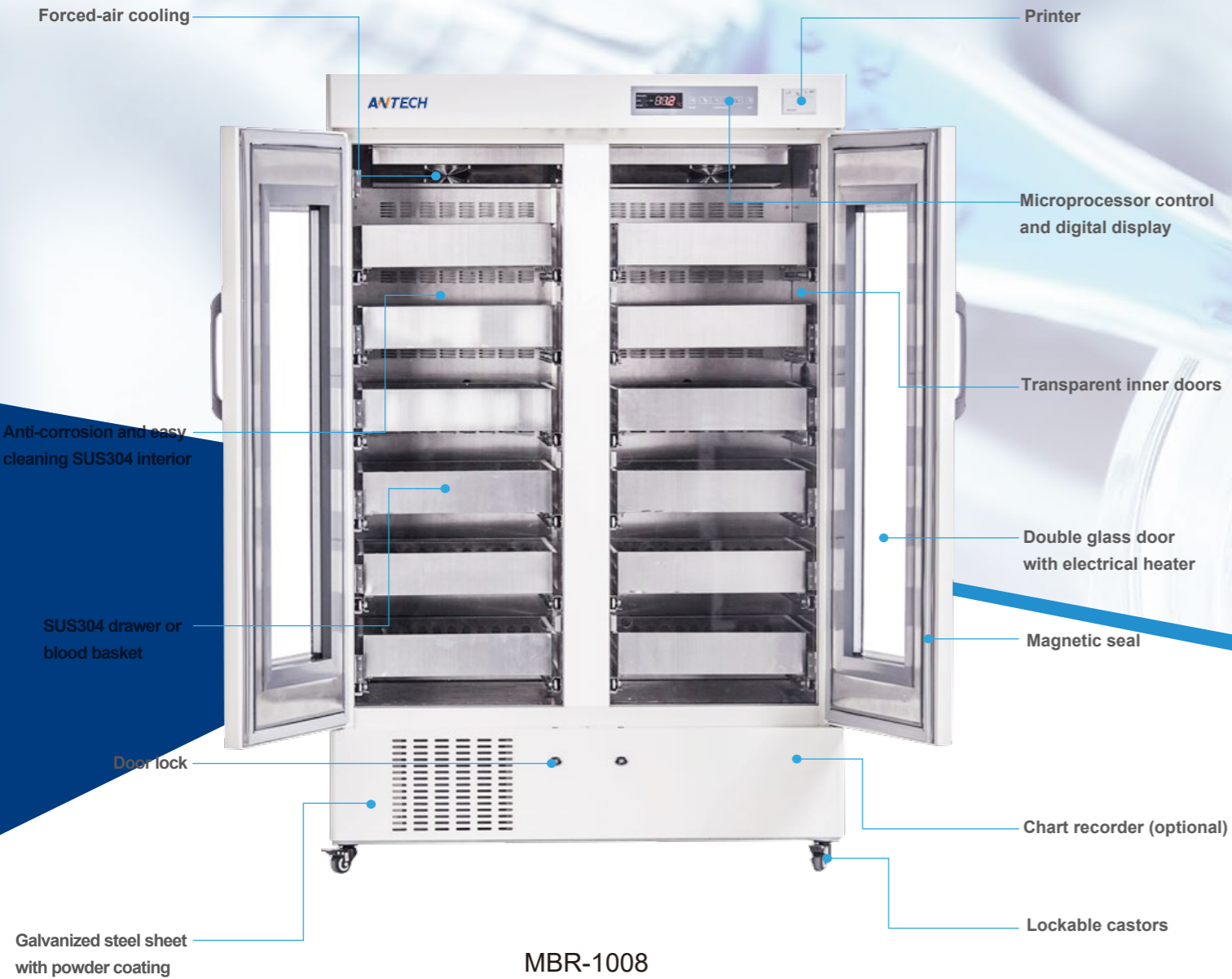
> Scope of Application



> Specification

Model		MPR-68	MPR-260	MPR-360	MPR-426	MPR-656	MPR-1006	MPR-1500
Technical Data	Cabinet Type	Under bench	Upright	Upright	Upright	Upright	Upright	Upright
	Capacity (L)	68	260	360	426	656	1006	1500
	Climate Class(°C)	10-32	10-32	10-32	10-32	10-32	10-32	10-32
	Cooling Type	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling
	Defrost Mode	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
	Refrigerant	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free
	Door	Single Glass Door	Single Glass Door	Single Glass Door	Single Glass Door	Side-by-side Glass Door	Side-by-side Glass Door	Side-by-side Glass Door
	Electrical Heater	Low-E	Optional	Low-E	Optional	Standard	Standard	Standard
Performance	Noise (dB)	40	42	43	43	42	43	43
	Temperature Range (°C)	2~8	2~8	2~8	2~8	2~8	2~8	2~8
Control	Uniformity(°C)	±3°C	±3°C	±3°C	±3°C	±3°C	±3°C	±3°C
	Temperature Control	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Electrical Data	Display	LED	LED	LED	LED	LED	LED	LED
	Voltage/Frequency(V/Hz)	220~240V 50/60Hz	220~240V 50/60Hz	220~240V 50/60Hz	220~240V 50/60Hz	220~240V 50/60Hz	220~240V 50/60Hz	220~240V 50/60Hz
Dimensions	Power (W)	87	254	136	175	443	472	472
	Net/Gross Weight (kg)	22/24	63/65	92/100	120/132	158/188	207/237	207/237
	Internal Dimension (W/D/H, mm)	400×415×447	500×420×1090	550×435×1420	685×429×1380	1100×454×1325	1100×684×1325	1100×684×1325
	External Dimension(W/D/H, mm)	480×450×535	580×560×1785	640×552×1880	780×580×1920	1220×642×1885	1220×872×1885	1220×872×1885
	Packing Dimension(W/D/H, mm)	555×505×610	710×665×1900	704×617×2000	880×680×2020	1290×695×1940	1290×925×1940	1290×925×1940
Functions	Container Load (20'/40'/40'H)	132/264/352	24/51/51	27/57/57	21/44/44	13/27/27	10/21/21	10/21/21
	High/Low Temperature Alarm	Y	Y	Y	Y	Y	Y	Y
	Remote Alarm	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Power Failure Alarm	Y	Y	Y	Y	Y	Y	Y
	Sensor Error Alarm	Y	Y	Y	Y	Y	Y	Y
	Low Battery Alarm	Y	Y	Y	Y	Y	Y	Y
Accessories	Door Ajar Alarm	Y	Y	Y	Y	Y	Y	Y
	Door Lock	Y	Y	Y	Y	Y	Y	Y
	Caster	N/A	4	4	4	4	4	4
	Foot	Y	Y	Y	Y	Y	Y	Y
	Shelf/Basket	2/-	4/-	5/-	5/-	10/-	10/-	10/-
	Test Hole	1/25mm	Optional	1/25mm	1/25mm	1/25mm	1/25mm	Optional
Others	Data Logger	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Certificate	CE, ISO9001	CE, ISO9001	CE, ISO9001	CE, ISO9001	CE, ISO9001	CE, ISO9001	CE, ISO9001

Blood Bank Refrigerator



> Digital Display & Control Panel



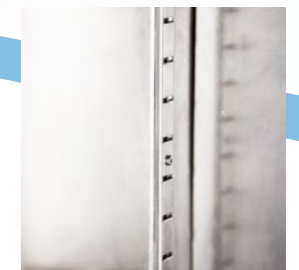
▲ Blood basket



▲ High efficiency fan



▲ Double seals



▲ Adjustable strip

The blood bank refrigerator is specially designed to store whole blood and blood derivatives. It could be used to store pharmaceuticals and biological material in hospitals and laboratories too.



> Features

- Microprocessor control and digital display ensures the inside temperature at $4\pm 1\text{ }^{\circ}\text{C}$ with $0.1\text{ }^{\circ}\text{C}$ resolution
- Multiple sensors placing inside the liquid-loaded monitor bottles, simulating blood bag, constantly monitor the temperature inside.
- Multi air-flow plenum system ensures excellent temperature uniformity
- Auto-defrost

> Ergonomic Design

- Stainless steel interior anti-rust, anti-corrosion
- Epoxy coated exterior anti-bacteria, easy cleaning
- Shelf adjustable
- Lockable caster for easy moving and stop
- Interior LED light
- Self-close door
- Stop structure design prevents door close if opened over 90°C
- Environment friendly refrigerant: CFC-Free and HCFC-Free.

> Reliability

- Transparent Inner doors minimize the air leakage during door open
- Foaming insulation door with double-layer glass and magnetic seals decrease air leakage
- Large air circulation fan enables rapid temperature recovery after door open
- Electrical heater prevents condensation on glass door

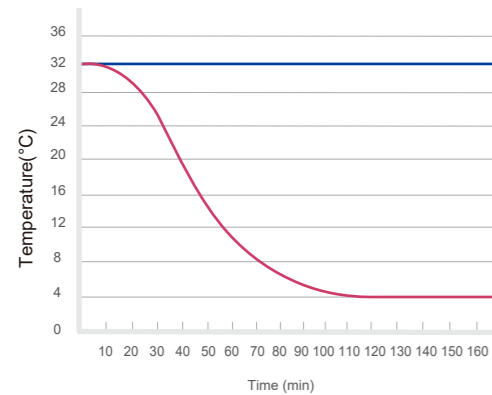
> Safety

- Password protection prevents unauthorized setting
- Safety lock prevents unauthorized access
- Alarm styles: buzzing and light flashing
- Power failure protection
- Start delay function protects the equipment from overload when power resume

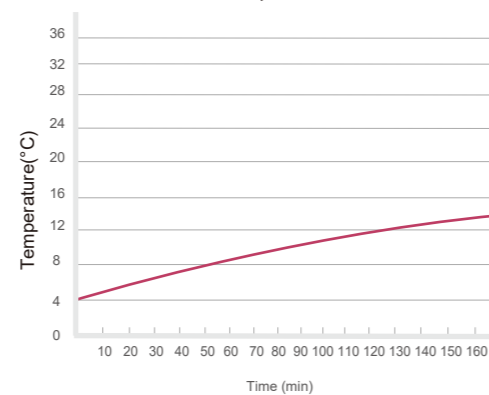
> Specification

	Model	MBR-108	MBR-208	MBR-658	MBR-1008
Technical Data	Cabinet Type	Upright	Upright	Upright	Upright
	Capacity (L)	108	208	658	1008
	Ambinet temperature ($^{\circ}\text{C}$)	10-32	10-32	10-32	10-32
	Cooling Type	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling
	Defrost Mode	Auto	Auto	Auto	Auto
	Refrigerant	CFC-Free	CFC-Free	CFC-Free	CFC-Free
	Door	Single Glass Door	Single Glass Door	Side-by-side Glass Door	Side-by-side Glass Door
	Electrical Heater	Y	Y	Y	Y
	Noise (dB)	40	42	42	42
Performance	Temperature Range ($^{\circ}\text{C}$)	4 ± 1	4 ± 1	4 ± 1	4 ± 1
Control	Temperature Control	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LED	LED	LED	LED
Material	Interior	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
	Exterior	Power Coated Steel	Power Coated Steel	Power Coated Steel	Power Coated Steel
Electrical Data	Power Supply(V/Hz)	220-240V 50/60Hz 110V 60Hz	220-240V 50/60Hz 110V 60Hz	220-240V 50/60Hz 110V 60Hz	220-240V 50/60Hz 110V 60Hz
	Power (W)	160	200	433	513
Dimensions	Blood Storage Capacity (450ml Blood Bags)	60	130	360	576
	Net/Gross Weight (kg)	50/55	67/75	165/195	256/286
	Internal Dimension (W/D/H, mm)	432x462x478	432x462x978	1100x455x1325	1100x710x1325
	External Dimension(W/D/H, mm)	522x600x1050	522x600x1550	1220x648x1885	1220x878x1885
	Packing Dimension(W/D/H, mm)	572x685x1070	572x685x1570	1300x730x2080	1300x960x2080
	Container Load (20'/40'/40'H)	66/136/136	33/68/68	12/27/27	10/21/21
Functions	High/low Temperature Alarm	Y	Y	Y	Y
	Power Failure Alarm	Y	Y	Y	Y
	High/low Voltage Alarm	Y	Y	Y	Y
	Sensor Error Alarm	Y	Y	Y	Y
	Low Battery Alarm	Y	Y	Y	Y
	Door Ajar Alarm	Y	Y	Y	Y
	Door Lock	Y	Y	Y	Y
Accessories	Caster	4	4	4	4
	Test Hole	Y	Y	Y	Y
	Shelf/Basket	2/6	4/12	12/36	12 SS Drawers
	Chart Recorder	N/A	N/A	Optional	Optional
	Data Logger	Optional	Optional	Optional	Optional
Others	Certificate	CE, ISO9001	CE, ISO9001	CE, ISO9001	CE, ISO9001

MBR-208 Pull down test at 32°C ambient



MBR-208 Pull-up test at 32°C ambient



Blood Platelet Incubator



The blood platelet incubator is widely used to store blood platelet(20-24 °C), biological reagent(2-40 °C) and chemical products (2-40 °C). The applications could be found in Hospital, blood bank, research institute, laboratory and universities.



> Intelligent Performance

- Microprocessor control with increment at 1 °C
- Intelligent control refrigerating and heating according to ambient and inner temperature

> Refrigeration System

- High efficient refrigeration system, fast cooling speed and uniformity temperature inside
- Finned evaporator for more effective cooling and speedy temperature recovery
- Double transparent insulation glass door

> Specification

	Model	MBA-5	MBA-10
Technical Data	Cabinet type	Upright	Upright
	Climate Class	ST	ST
	Cooling Type	Forced Air Cooling	Forced Air Cooling
	Refrigerant	CFC-Free	CFC-Free
	Door	Single	Single
	Noise (dB)	49	49
Performance	Temperature Range (°C)	20-24	20-24
Control	Temperature Control	Microprocessor	Microprocessor
	Display	LED	LED
Material	Interior	Stainless Steel	Stainless Steel
	Exterior	Powder Coated Steel	Powder Coated Steel
	Door	Glass	Glass
Electrical Data	Power Supply(V/Hz)	220-240V 50/60Hz	220-240V 50/60Hz
	Power (W)	197	280
Dimensions	Chamber	5	10
	Blood Storage Capacity (450ml blood bags)	10	20
	Net/Gross Weight (kg)	60/65	80/86
	Internal Dimension (W/D/H, mm)	427×360×467	432×462×728
	External Dimension (W/D/H, mm)	522×600×1050	522×600×1300
	Packing Dimension (W/D/H, mm)	572×685×1070	572×685×1320
	Container Load (20'/40'40'H)	66/136/136	33/68/136
Functions	High/Low Temperature Alarm	Y	Y
	Power Failure Alarm	Y	Y
	High/Low Voltage Alarm	Y	Y
	Sensor Error Alarm	Y	Y
	Low Battery Alarm	Y	Y
	Door Ajar Alarm	Y	Y
Accessories	Door Lock	Y	Y
	Caster	4	4
	Test Hole	Optional	Optional
	Light	UV Light	UV Light
Others	Certificate	CE, ISO9001	CE, ISO9001

> Safety

- High/low temperature alarm, sensor error alarm, door ajar alarm and power failure alarm
- World famous oscillation slide rail, durable and quite

> Ergonomic design

- Disinfection with UV, freely disinfection time set. UV light off while door open
- Large digital display
- Temperature printer optional
- Power on/off switch equipped

Mobile Blood Refrigerator



> Application

- The mobile blood refrigerator is mainly used for cold storage and transport of blood, serum, plasma, vaccines, biological reagent, special medicine.
- It also applies for the transportation of epidemic prevention station, the health care center, disease control center, animal husbandry bureau and the forces.

Model	Outer Size (W×D×H)mm	Inner Size (W×D×H)mm	Voltage (V/Hz)	Power (W)	Temperatur (°C)	Climate type	Capacity (L)	N.W (kg)
MBR-30M	615×360×461.5	360×250×350	AC 220/50, DC12V/24V	80	22±1/4±1/-25±1	ST/SN/N	30	22
MBR-80M	937×577×570.5	550×380×380	AC 220/50, DC12V/24V	100	22±1/4±1/-25±1	ST/SN/N	80	47

> Unique Cabinet

- The outer box uses advanced ABS craft and special handling for the surface.
- The appearance is imitation marble with high bright ,no burrs and flash.
- The box wall is with high strength hardness, light weight, resistance to impact,and the material is prevent flammable, safe and reliable, easy to clean, corrosion resistance, etc.

> Temperature Control

- Adopt intelligent fan control forces the air cycle refrigeration and ensures the temperature recover rapidly and stability.Air blowing evaporator ensures the small uniformity and fluctuation of the inner box temperature, with special design of the circulation air cooling system.
- Adopt microcomputer control system and LCD ensures the accurate and stable running.
- Great electronic temperature control and display, with the precision of 0.1 °C .
- High quality of cooling and heating ensures the temperature of inner box can be adjusted between 22±1 °C/4±1 °C/-25±1 °C
- Customers can adjust the heating, cold storage, frozen model by setting the temperature controller according to the requirements.
- Temperature monitoring module, remote alarm module (Optional).
- High quality temperature control system without affected by the environment to meet the function, structure, performance design of blood, reagent, medicine and samples.

> Safety System

- High/low temperature alarm, controller error alarm, power failure alarm.
- Alarm types : audible buzzer and visible flashing.
- Safe operating mode when the temperature control is failure of point test.
- Optional monitoring module and dedicated software for remote monitoring and SMS alarm.
- Keyboard lockable, password protection to prevent unauthorized setting.
- The internal fuse prevents the impact and damage to the product in large current.

> Features

- Inner plastic basket can segregate the storage goods and the evaporator in order to prevent frostbite storage goods.
- Plastic lock design locks cooling air effectively with artistic design.
- Large screen digital display for easy observation.
- Applies in vehicle, indoor and outdoor etc.
- Overall rotational molding embedded clasp hands, easy to carry and lift.

> Universal Design

- Wide voltage available: suitable for AC 187V~242V normally, DC 12V/24V optionally.

Cold Bench



> Features

- Accurate temperature control table temperature is 2°C to 8°C and increment at 0.1°C
- Microprocessor controller, digital LED display
- Forced Air-cooling circulation system enables the temperature distribution extremely uniform
- Dual refrigerant system guarantees perfect temperature performance. If one compressor is failure, the other one still ensures the temperature stable.
- Auto-defrost to remove moisture on cooling surface

> Reliability

- World-famous SECOP compressor, reliable performance and low noise
- Operating table is SUS304 stainless steel, easy for cold conduction and ensures uniform temperature and easy to clean.
- Castors design with break is easy to move and stop
- Environment friendly refrigerant, CFC free and HCFC-Free

> Safety

- Visible and audible alarm for high/low temperature, sensor error
- Protection on 2°C, when temperature below 2°C, compressors stop working
- Electrical protection for over current.

> Specification

Model		ATCB-70	ATCB-130
Technical Data	Climate Class	N	N
	Cooling Type	Forced Air Cooling	Forced Air Cooling
	Cooling Area (m ²)	0.7	1.3
	Defrost Mode	Auto	Auto
	Refrigerant	CFC-Free	CFC-Free
	Noise (dB)	55	55
Performance	Temperature Range (°C)	2~8	2~8
	Pull Down Time (AT: 25°C)	30 min	30min
Control	Temperature Control	Microprocessor	Microprocessor
	Display	LED	LED
Electrical Data	Voltage/Frequency	220~240V 50/60Hz	220~240V 50/60Hz
	Power (W)	1200	1500
	Electrical Current (A)	6.40	6.80
Dimensions	Capacity (L)	106	290
	Net/Gross Weight (kg)	142/184	194/254
	External Dimension(W/D/H, mm)	1200×750×860	1900×850×860
	Packing Dimension(W/D/H, mm)	1290×842×1014	1990×942×1040
Function	High/Low Temperature Alarm	Y	Y
	Sensor Error Alarm	Y	Y
Accessories	Caster	4	6
Others	Certificate	CE, ISO9001	CE, ISO9001

Cold bench is used to processing medicines, vaccines and blood products in a low temperature environment.



▲ Controller

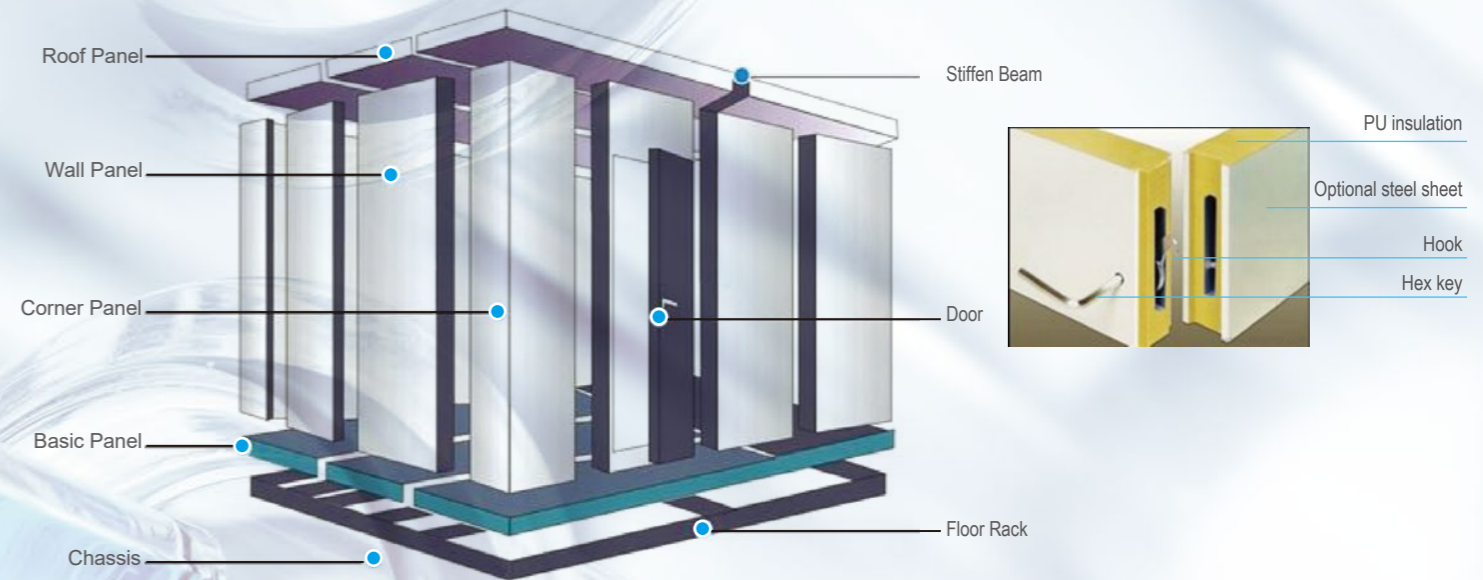


▲ Casters



▲ Stainless panel

Walk-In Cold/Freezer Room



> Ergonomic Design

- World-famous hermetic compressor and refrigerant parts with excellence compatibility ensure a high freeze performance and durable lifetime.
- High quality insulation panel is composed of powder coated galvanized steel 100mm thickness PU insulation (density is 42Kg/m³), the insulation foaming layer constructor reduces the cooling bridge, low heat conduction which is better than 17W/m²K. The came-lock design is easy for installation.
- Foaming door with excellent seals prevent cooling air leakage. Door frame heater avoids frost, easy to open the door.
- Custains design reduces hot air entering cold/freezer room when door open
- Pressure balance window balances internal and external pressure
- Shelf design optimizes the storage space and maximum storage volume (optional)
- Water-pack design enables the holdover time when power failure
- Safe-protection on power delay, over heat, high/low voltage ensures cold room in good condition
- Low noise level create a comfortable workshop
- Environment friendly, CFC-free and HCFC-free refrigerant and insulation.
- LED light is to be controlled outside the room, waterproof, low heat dissipation and low energy consumption
- Anti-skid floor ensures safety walk in cold/freezer room

The walk-in cold/freezer room is a customized product meeting the demands in the medical service, scientific research, agriculture, biological and chemical industries etc. It is for storage of vaccines, pharmaceuticals, blood plasma and chemical reagents etc.

Antech Walk-In Cold/Freezer Room is designed as per the WHO/PQS standard, ensures the high performance and reliable storage of specimens.



> Features

Microprocessor controller with high precision temperature sensors automatic constant temperature at 2°C~8°C or -15°C~-25°C, with resolution at 0.1°C.

Digital LED display ensures storage in high ambient temperature (Optional LCD touch screen)

Forced air cooling refrigerant system enables uniform temperature

Dual system design: two refrigerant units automatically work in turns, one refrigerant units is failure, the other refrigerant still guarantees the inner temperature.

Monoblock refrigerant unit is for easy installation (below 40m³)

Auto-defrost is for easy maintenance

Alarm system such as high/low temperature ensures safety storage.

> Safety

- Safety door lock enables open the door inside in occasion of door locked outside.
- High/low temperature alarm, optional power failure alarm and remote alarm enable users handle the abnormal condition in time
- Historic temperature data down-load through USB interface and temperature curves displayed from LCD screen
- Temperature recorder or data logger records the temperature data.