ANTECH

BIOMEDICAL REFRIGERATION SOLUTIONS



TABLE OF CONTENTS

≥ 2~8°C	Pharmacy Refrigerator	5-15
→ 4°C	Blood Bank Refrigerator	16-18
2~8°C & -40°C	Combined Refrigerator and Freezer	19-22
• -25°C	Laboratory Freezer	23-28
-40°C	Laboratory Freezer	29-33
-86°C	Ultra-low Temperature Freezer	34-45
CO ₂	Back-up System	46
LN ₂	Back-up System	47
• -150°C	Cryogenic Freezer	48-49
• Accessories	Inventory Racks & Boxes	50-52
-86°C	Portable ULT Freezer	53-54



EXPLANATION OF ICONS



Low CO2 emissions

Optimized refrigeration system for lower power consumption and reduced CO2 emissions



Password protection

Protected engineer mode, avoids unauthorized change of key parameters



Natural refrigerant

Natural gas is used to reduce GHG (greenhouse gas) emissions and protect climate.



Door ajar alarm

Alarm activated if door open up for a certain time.



CFC /HCFC free

Environment friendly refrigerant, harmless to ozonosphere.



High/low temperature alarm

Sound / flash alarm to remind user when chamber temperature is out of desired range



Force air cooling

for excellent temperature uniformity & fast cool-down after door opennings



Power failure alarm

Sound alarm after power failure, avoid potential loss caused by temperature rise



Direct cooling

Optimized direct cooling system with high efficiency



Reversible doors

Left or right side open reversible door for flexibable installations



USB port

Temperature data storage & USB port for download



Stackable design

The refrigerator or freezer is stackable (using ANTECH stacking kits) to save space



Safety door lock

Preventing unauthorized access



CE certification

CE certified model, safety guaranteed

CryoMonitor 2000TF

Temperature Monitoring System

The CryoMonitor 2000TF provides both on-site and cloud based remote temperature monitoring for pharmacy refrigerator, bio-medical freezer, ultra-low temperature freezer, incubator, liquid nitrogen container, etc.

CryoMonitor 2000TF records temperature data for traceability. It alarms users with sound & light when temperature is out of normal range, to avoid irreparable loss of precious samples or products.

Furthermore, taking advantages of optional cloud service, data is transferred to and stored on cloud server, which can be visited from a PC, pad or smart phone anywhere & anytime.



Features

- Both on-site & cloud based remote monitoring
- -200 ~ +200°C wide temperature range
- · Quick installation kit for easy installation
- Data storage & USB port for download
- · Remote alarm contact

- RS485 port
- Wi-Fi connection & BioExpress cloud platform
- 3-year cloud service free of charge
- Worldwide data access & alarm
- Backup battery for monitoring during power failure or movement

Connection (Optional)

- Wi-Fi connection to transfer data to cloud server.
- Global access on a PC, tablet or smartphone.

















Interface

- 1. Wi-Fi connection status 2. USB connection status 3. Date & time 4. Sound alarm
- 5. Power connection status 6. Unit of temperature 7. Temperature display

Specification

MODEL	CryoMonitor 2000TF
Temperature monitoring	-200 [~] +200°C
Temperature sensor	PT-100
On-site alarm	Sound & light
Dimension (Width x Height x Thickness)	138 x 91 x 42mm
Net weight	330g
Power supply	100~240V, 50/60Hz, AC
Backup battery	Built-in lithium battery, replaceable
Data storage	•
USB port for data download	•
Romote alarm contact	•
RS485 port	•
Internet connection	Wi-Fi
Cloud service	3-year could service free of charge
Cloud alarm	Email, SMS

2~8°C Pharmacy Refrigerator

The professional PharmaSafe series medical refrigerator, specifically developed to be used by laboratories, hospitals, and pharmacies, ensure optimal storage conditions for temperature sensitive medical products and biological material, meeting the highest requirement for accurate controlled cold storage. Available with a wide range of capacities and applications, from 60 liters for minor needs to 1400 liters for pharmaceutical warehouses. Both glass door and solid door (forming door) are available. Space saving sliding door refrigerators are available for large capacity models. PharmaSafe refrigerators are compliant with main international requirements, including CE, UL, etc.

TC-100 Controller



Microprocessor electronic controller for PharmaSafe series medical refrigerators, fitted with dual LED screen to display inner chamber temperature and key working conditions. Advanced dual sensor control system for accurate temperature

PERFORMANCE

- Forced air cooling for excellent temperature uniformity
- · Variable (cycle) defrost
- Intelligent microprocessor controller with LED digital display resolution 0.1 Door ajar
- Magnetically sealed door with rapid cool-down mode after door opening
- · Dual sensor design: Independent control sensor and display sensor

ALARMS

- High temperature
- Low temperature
- Power failure
- Sensor error
- Low battery

ERGONOMIC DESIGN

- Door-activated and exterior switch-activated interior LED lighting
- Self-close door for convenient operation
- Left/right side open revisable door (capacity less than 600 liters) to suit various space
- Ultra-quite design reduces noise level

SAFETY

- Build-in data storage and USB port for download
- Quick check of max/min temperature in 24 hours
- Password protection avoids key parameters unauthorized change
- Safety door lock, preventing unauthorized access
- · Access port for additional temperature probe
- · Remote alarm contacts

- Natural refrigerant compliant with EPA and SNAP non-ozone depleting mandates
- CFC-Free polyurethane foaming insulation
- High efficiency cooling system for lower energy consumption and carbon emission



► Safety door lock
Preventing unauthorized access



USB port
 Temperature data storage and download





► Forced air cooling

Excellent temperature uniformity

and fast recovery after door open



► Adjustable shelves

Convenient storage of different size products



► Dual sensor system

Product sensor in aluminum block
to simulate real product temperature;

Control sensor in air for accurate control.



► Access port
For easy access of additional temperature probe



Remote alarm contact
Sending signal to a remote alarm system

2-8°C/ Desktop/ MPR-68

ANTECH's 60 liter desktop medical refrigerator is ideal for small medical practices, pharmacies, and labs. It is a great choice when you need small medical fridge for specialized medicines, vaccines or lab materials. It is perfectly suited for additional storage where space is a consideration. The MPR-68 is designed for the most rigorous life science, research, healthcare, clinical, and commercial applications.

This unit uses environmentally friendly, natural refrigerants that are fully compliant with new EPA/SNAP/UL regulations.









MPR-68 glass door

NATURAL REFRIGERANT



FORCE AIR COOLING



USB PORT



REVERSIBLE DOORS



STACKABLE DESIGN



LARM

MODEL	MPR-68
Door type	1 glass door as standard, solid door optional
Temperature range (°C)	2~8
Capacity (L)	65
External dimensions W×D×H (mm)	510×560×670
Shelves (pcs)	2
Power supply	220V/50Hz; 220V/60Hz; 120V/60Hz
Data storage & USB port	•

2-8°C/ Under-counter/ MPR-136

ANTECH's glass door 136 liter undercounter medical refrigerator MPR-136 is ideal for small medical practices, pharmacies, and labs. Its height is designed to match laboratory table and optimized usage of limited space. Despite a small capacity refrigerator, the functions are complete for medical and laboratory applications, including data storage and USB port for download, high/low temperature alarm, door open alarm, power failure alarm, remote alarm contact, etc. Therefore, MPR-136 meets the most rigorous requirements of healthcare and scientific research.

This unit uses environmentally friendly, natural refrigerants that are fully compliant with new EPA/SNAP/UL regulations.

MPR-136S is a solid door (forming door) refrigerator with same functions and features.





ANTECH PharmaSafe series under counter and benchtop units are stackable using ANTECH stacking kit. You can order with various combinations with flexibility for your specific demand









DOORS





NATURAL REFRIGERANT

FORCE AIR COOLING

USB PORT REVERSIBLE

STACKABLE DESIGN

DOOR A JAR A LARM

MODEL	MPR-136
Door type	1 glass door as standard, solid door optional
Temperature range (°C)	2~8
Capacity (L)	136
Externmal dimensions W×D×H (mm)	600×65 <mark>0×820</mark>
Shelves (pcs)	3
Power supply	220V/50Hz; 220V/60Hz; 120V/60Hz
Data storage & USB port	•

2-8°C/ MPR-260/360/525

PharmaSafe series upright glass door medical refrigerators are used to store medicines, vaccines or lab materials in pharmacies, hospitals, clinics and labs. Forced air cooling enables excellent temperature uniformity. The dual-pane, insulated LOW-E glass door provides superior thermal performance and lower condensation. Product temperature sensor is put into aluminum block to simulate product temperature. Access port is available for additional temperature probe.

Temperature data storage and USB port are supplied as standard. A pdf format file including temperature curve and temperature data can be downloaded. A quick check of maximum and minimum temperature record in previous 24 hours is also available, making the job much easier for operators.





Solid door (forming door) models are available for these medical refrigerators.

These units use environmentally friendly, natural refrigerants that are fully compliant with new EPA/SNAP/UL regulations.















COOLING



USB PORT



REVERSIBLE **DOORS**



► MPR-525

POWER FAILURE ALARM



LARM

MODEL	MPR-260	MPR-360	MPR-525
Door type	1 glass	s door as standard, solid door opti	onal
Temperature range (°C)	2~8	2~8	2~8
Capacity (L)	270	375	520
External dimensions W×D×H (mm)	600×560×1540	600×650×1805	775×700×1905
Shelves (pcs)	5	6	5
Power supply	220V/50Hz	220V/50Hz	220V/50Hz
	220V/60Hz	220V/60Hz	220V/60Hz
	120V/60Hz	120V/60Hz	120V/60Hz
Data storage & USB port	•	•	•

2-8°C/ MPR-656/1006/1410

PharmaSafe series large capacity medical refrigerators are used to store medicines, vaccines or lab materials with large volume. The capacity is up to 1410 liters. Forced air cooling for high-temperature stability and quick temperature recovery after door open. The dual-pane, insulated glass door provides superior thermal performance and lower energy consumption.

Temperature data storage and USB port are supplied as standard. A quick check of maximum and minimum temperature record in previous 24 hours is also available.

Solid door (forming door) models are available for light sensitive materials.

These units use environmentally friendly, natural refrigerants that are fully compliant with new EPA/SNAP/UL regulations.









► MPR-1006



► MPR-656





FORCE AIR COOLING



USB PORT



REVERSIBLE DOORS



POWER FAILURE ALARM



DOOR AJAR A LARM

MODEL	MPR-656	MPR-1006	MPR-1410	
Door type	1 glass door as standard, solid door optional	ndard, solid door optional 2 glass door as standard, so		
Temperature range (°C)	2~8	2~8	2~8	
Capacity (L)	638	1140	1410	
External dimensions W×D×H (mm)	780×827×1945	1300×827×1945	1580×827×1945	
Shelves (pcs)	5	5	5	
Power supply	220V/50Hz	220V/50Hz	220V/50Hz	
	220V/60Hz	220V/60Hz	220V/60Hz	
	120V/60Hz	120V/60Hz	120V/60Hz	
Data storage & USB port	Yes	Yes	Yes	

2~8°C

PharmaSafe series











				p					_			-		-		
	Model	MPR-6	88		MPR-	136		MPR-2	260		MPR-3	360		MPR-	525	
	Туре	Deskto	р		Under-d	counter		Upright			Upright			Upright		
	Temperature range (°C)	2~8			2~8			2~8		2~8			2~8			
	Climate type	N			N	N		N		N			N			
	Capacity (L)	65			136	136		270	270		375			520		
	Internal W×D×H (mm)	410×420	0×420		500×51	0×570		500×45	0×1290		500×51	0×1550		645×5	10×1640	
Main specifications	External W×D×H (mm)	510×56	0×670		600×65	0×820		600×56	60×1540		600×65	50×1805		775×70	00×1905	5
	Weight (KGs)	34			53			71			83			121		
	Insulation (mm)	50			50			50			50			60		
	Cooling type	Forced air		Forced	air		Forced	air		Forced	air		Forced	air		
	Defrost	Auto de	efrost		Auto de	efrost		Auto de	frost		Auto de	efrost		Auto d	efrost	
	Refrigerant	R600a			R600a			R600a(220/60:	R290)	R600a(220/60	R290)	R600a	(220/60):R290)
	Controller	TC-100			TC-100			TC-100			TC-100			TC-100		
Control system	Display	LED dig	jital		LED dig	ital		LED dig	ital		LED dig	gital		LED di	gital	
,	Display accuracy	0.1			0.1			0.1			0.1			0.1		
	Power supply (V/Hz)	220/50	220/60	120/60	220/50	220/60	120/60	220/50	220/60	120/60	220/50	220/60	120/60	220/50	220/60	120/60
Power	Rated power (W)	118	118	100	135	135	105	175	210	180	237	230	210	210	210	210
	Rated Current (A)	1.0	1.0	1.2	1.0	1.0	1.2	1.3	1.5	1.8	1.6	1.6	2.2	1.5	1.5	2.2
	High/low temp check	•			•			•			•			•		
Data memory	USB port	•			•	•		•		•		•				
	Cloud monitoring (Wi-Fi)	O Cryol	Monitor :	2000TF	O Cryo	Monitor 2000TF O C		O Cryol	O CryoMonitor 2000TF		OCryoMonitor 2000TF		O CryoMonitor 2000TF		2000TF	
	Visible/audible alarm	•		•			•			•			•			
	High/low temp alarm	•		•			•	•		•		•				
	Remote alarm contact	•		•		•		•		•						
Alarm	Sensor failure	•			•		•		•		•					
functions	Door open	•			•		•		•		•					
	Low battery	•			•		•		•		•					
	Power failure	•			•		•		•		•					
	Door lock with key	•			•	•		•		•			•			
	Inner LED light	•			•			•			•			•		
	Adjustbale foot	•			•			-			-			-		
Other	Caster	-			-			•			•			•		
feature	Test access port	Ф20mr	m x 1		Φ20mr	n x 1		Φ20mr	m x 1		Φ20mi	m x 1		Φ20m	m x 1	
	Shelves adjustable	1			2			5			5			5		
	Shelf at buttom	1			1			1			1			1		
	Door QTY	1			1			1			1			1		
	Exterior	Pre-coa	ited ste	el	Pre-coa	ted stee	el	Pre-coa	ted stee	el	Pre-coa	ated stee	el	Pre-co	ated ste	el
Material	Interior	Pre-coa	ited alui	minum	Pre-coa	ted alur	ninum	Pre-coated aluminum		Pre-coated aluminum		Pre-coated aluminum				
Material	Door	2-layer option	glass c	door, door	2-layer option	glass d	oor, door	2-layer option	glass d	oor, door	2-layer glass door, optional solid door		2-layer glass door, optional solid door		door, door	
	Insulation	Polyure			Polyure				optional solid door Polyurethane		Polyurethane		Polyurethane			
	Gross weight (KGs)	42			60			82			101.5			138.5		
Shipping	Packing W×D×H (mm)	570×62	0×720		650×70	0×860		660×62	0×1650		660×700×1900		830×7	50×200	0	
	Volume (m³)	0.25			0.39			0.68			0.88			1.25		

2~8°C

PharmaSafe series







	Model	MPR-656			MPR-1006			MPR-1410		
					Upright			Upright		
	Type	Upright			2~8			2~8		
	Temperature range (°C)	2~8								
	Climate type	N			N			N		
	Capacity (L)	638			1140	100		1410	100	
Main	Internal W×D×H (mm)	660×690×14			1180×690×14			1460×690×14		
Main specifications	External W×D×H (mm)	780×827×19	45		1300×827×19	945		1580×827×19	145	
	Weight (KGs)	144			223			238		
	Insulation (mm)	60			60			60		
	Cooling type	Forced air			Forced air			Forced air		
	Defrost	Auto defrost			Auto defrost	t		Auto defrost		
	Refrigerant	R290			R290			R290		
Control	TC-100			TC-100			TC-100			
system	Display	splay LED digital						LED digital		
	Display accuracy	0.1			0.1			0.1	ı	
	Power supply (V/Hz)	220/50	220/60	120/60	220/50	220/60	120/60	220/50	220/60	120/60
Power	Rated power (W)	260	260	250	400	400	420	400	400	420
	Rated Current (A)	1.5	1.5	2.6	2.35	2.35	4.8	2.35	2.35	4.8
	High/low temp check	•			•			•		
Data memory	USB port	•			•			•		
····,	Cloud monitoring (Wi-Fi)	O CryoMor	nitor 2000TF		o CryoMon	itor 2000TF		o CryoMon	itor 2000TF	
	Visible/audible alarm	•			•			•		
	High/low temp alarm	•			•			•		
	Remote alarm contact	•			•			•		
Alarm	Sensor failure	•			•			•		
functions	Door open	•			•			•		
	Low battery	•			•			•		
	Power failure	•			•			•		
	Door lock with key	•			•			•		
	Inner LED light	•			•			•		
	Adjustbale foot	-			-			-		
Other feature	Caster	•			•			•		
Toutai o	Test access port	Ф20mm x1			Ф20mm x1			Ф20mm x1		
	Adjustable shelves QTY	5			5			5		
	Door QTY	1			2			2		
	Exterior	Coated stee			Coated stee	<u> </u>		Coated steel		
	Interior	Coated stee			Coated stee	<u> </u>		Coated steel		
Material	Door			nal solid door	3-laver glass	door, option	nal solid door	3-layer glass	door, option	al solid door
	Insulation	Polyurethan		55114 4001	Polyurethan			Polyurethane		
		201			258			278		
Shipping	Gross weight (KGs)	840×870×21	50		1340×870×2	150		1640×870×21	150	
ppi3	Packing W×D×H (mm)		JU							
	Volume (m³)	1.57			2.51			3.07		

PharmaStore series pharmacy refrigerators

Antech PharmaStore series pharmacy refrigerators are designed to store drugs, vaccine and reagents in drug stores, clinics, hospitals and laboratories.

Advanced forced air cooling & dual sensor control systems are adopted for excellent temperature uniformity and accurate temperature control.

PharmaStore series are equipped with complete professional functions to guarantee safety of products, such as high/low temperature alarm, door ajar alarm, sensor error alarm, power failure alarm, remote alarm contact, etc.

PharmaStore series refrigerators are compliant with main international requirements, including CE, UL, etc.

This units uses environmentally friendly, natural refrigerant fully compliant with new EPA/SNAP/UL regulations.

TC-110 Controller

Microprocessor electronic controller for PharmaStore series pharmacy refrigerators, advanced dual sensor control system for accurate temperature control.









NATURAL



CFC /HCFC FREE



HIGH/LOW TEMPERATURE ALARM



POWER FAILURE ALARM



DOOR AJAR A



SAFETY DOOR



FORCE AIR



CE CERTIFICATION

PERFORMANCE

- Forced air cooling for excellent temperature uniformity
- Variable (cycle) defrost
- Microprocessor controller with LED digital display
- Dual sensor design: Independent control sensor and display sensor

SAFETY

- High/low temperature alarm, door ajar alarm, sensor error alarm, power failure alarm with backup battery
- Safety door lock, preventing unauthorized access
- · Access port for additional temperature probe
- Remote alarm contact

ERGONOMIC DESIGN

- Interior LED lighting for convenient operation
- Ultra-quite design reduces noise level
- Adjustable feet for leveling

- Natural refrigerant compliant with EPA and SNAP non-ozone depleting mandates
- High efficiency cooling system for lower energy consumption and carbon emission





Safety door lock
Preventing unauthorized access



► Forced air cooling

Excellent temperature uniformity and fast recovery after door open



Dual sensor system
Product sensor in Emery sand bottle
to simulate real product temperature;
Control sensor in air for accurate
temperature control.



► Access port

For easy access of additional temperature probe



► Remote alarm contact



► Backup battery

For alarm in case of power failure

Specification

M	odel	MPR	≀-60	MPR-	120	MPR-	-280	MPR-	362	MPR	-440	
	Temperature Range (°C)	2~	-8	2~	-8	2~	~8	2~8		2~	~8	
	Climate Class	N	l	N	N		N		N		١	
	Capacity (L)	60)	12	120		280		362		10	
Main Specifications	Cooling Type	Force	d-Air	Forced-Air		Forced-Air		Forced-Air		Forced-Air		
	Defrost	Au	to	Au	to	Αι	ito	Aut	to	Au	ito	
	Refrigerant	R60)Oa	R6C)Oa	R60)0a	R60	0a	R60)0a	
	Noise (dB)	45	5	45	5	4	5	45	5	4	5	
	Controller	TC-	110	TC-	110	TC-	-110	TC-	110	TC-	-110	
Control	Display	LED d	ligital	LED d	igital	LED o	digital	LED d	igital	LED o	digital	
System	Display Accuracy	0.1	°C	0.1	°C	0.1	C	0.1	C	0.1	C	
	Sensor			1	Disp	olay senso	r & contro	l sensor		1		
	Power Supply (V/Hz)	220 50/60	120/60	220 50/60	120/60	220 50/60	120/60	220 50/60	120/60	220 50/60	120/60	
Power	Power (W)	70	85	111	97	174	165	184	175	194	185	
	Rated Current (A)	0.6	1.0	0.7	1.2	1.1	2.0	1.2	2.0	1.3	2.0	
	Inner (W*D*H, mm)	394*376*418		477*424*632		473*550*1160		473*550	D*1460	473*550*1760		
	External (W*D*H, mm)	480*53	5*585	597*54	0*885	595*710*1345		595*710*1645		595*710*1945		
Dimensions	Packing (W*D*H, mm)	520*56	5*620	635*58	5*955	640*76	0*1370	640*760*1670		640*760*1970		
	Net Weight (KG)	29	9	44	4	6	7	80		92		
	Gross Weight (KG)	32	2	48	3	75		90		102		
	Visible/audible Alarm	•		•		•		•		•		
	High/Low Temperature	•	ı	•		•		•		•		
	Sensor Error	•	ı	•		•		•		•		
Alarm Functions	Door Ajar	•	ı	•	•		•		•		•	
Functions	Power Failure	•	ı	•		•		•		•		
	Low Battery	•	ı	•		•		•		•	•	
	Remote Alarm Contact	•	ı	•		•	•	•		•	•	
Monitoring	Cloud monitoring (Wi-Fi)	O CryoMonito	or 2000TF	O CryoMonito	or 2000TF	CryoMonite	or 2000TF	O CryoMonito	r 2000TF	CryoMonit	or 2000TF	
	Exterior	Painted	d steel	Painted	d steel	Painte	d steel	Paintec	l steel	Painte	d steel	
	Interior	Polysty	yrene	Polysty	yrene	Polyst	yrene	Polysty	/rene	Polyst	yrene	
	Insulation	Polyure	ethane	Polyure	ethane	Polyure	ethane	Polyure	thane	Polyure	ethane	
Materials	Door	Glass d	oor x 1	Glass d	oor x 1	Glass c	loor x 1	Glass d	oor x 1	Glass c	loor x 1	
	Inner light	LE	D	LE	D	LE	ED.	LE	D	LE	ED.	
	Shelf	Coated St	teel Wire	Coated S	teel Wire	Coated S	teel Wire	Coated St	eel Wire	Coated S	teel Wire	
	Shelf Qty	1 large &	1 small	3 large &	k 1 small	5 large 8	& 1 small	7 large &	1 small	9 large 8	& 1 small	
	Door Lock	•	ı	•			•	•			•	
	Test Access Port	•	ı	•		•	•	•		•	•	
Others	Adjustable Feet	•	ı	•		•	•	•		•	•	
	Backup battery	•	ı	•		•	•	•			•	

4°C Blood Bank Refrigerator

ANTECH BloodSafe series blood bank refrigerators are designed to meet highest requirements for the secure storage of blood and blood components. It provides excellent temperature performance, low noise and decreased energy consumption. High quality SECOP compressor and natural hydrocarbon refrigerant are used for optimized temperature performance and energy efficiency.

TC-100 Controller



Microprocessor electronic controller for BloodSafe series blood bank refrigerators, fitted with dual LED screen to display inner chamber temperature and key working conditions. Advanced dual sensor control system for accurate temperature control.

PERFORMANCE

- Forced air cooling for excellent temperature uniformity
- Variable (cycle) defrost
- Intelligent microprocessor controller with LED digital display resolution 0.1
- Magnetically sealed door with rapid cool-down mode after door opening
- Dual sensor design: Independent control sensor and display sensor

ALARMS

- High temperature
- Low temperature
- Door ajar
- Power failure
- Sensor error
- Low battery

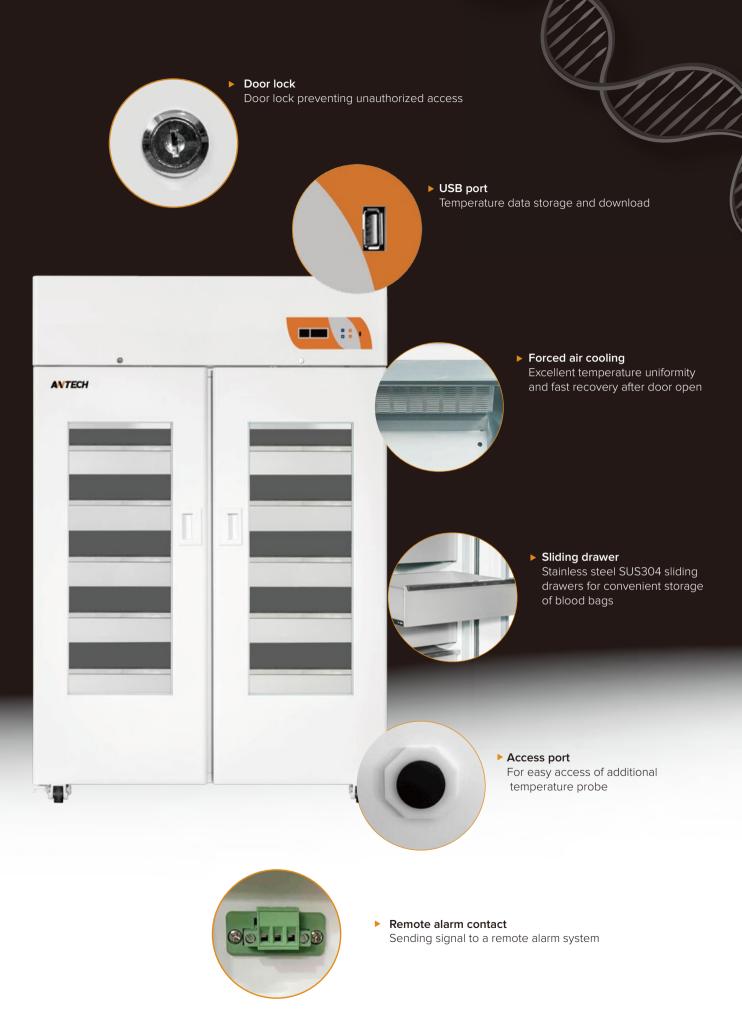
ERGONOMIC DESIGN

- SUS304 interior for easy cleaning
- SUS304 sliding drawers for convenient use
- Door-activated and exterior switch-activated interior LED lighting
- Self-close door for convenient operation
- Ultra-quite design reduces noise level
- 3-layer glass door preventing frost

SAFETY

- Build-in data storage and USB port for download
- Quick check of high/low temperature in 24 hours
- Password protection avoids key parameters unauthorized change
- Safety door lock, preventing unauthorized access
- Access port for additional temperature probe
- Remote alarm contacts

- Natural refrigerant compliant with EPA and SNAP non-ozone depleting mandates
- No impact on ozone depletion, and very low Global Warming Potential (GWP)
- High efficiency cooling system for lower energy consumption and carbon emission





BloodSafe series







	Model	MBR-658			MBR-1008			MBR-1408			
	Туре	Upright			Upright			Upright			
	Temperature range (°C)	4			4			4			
	Climate type	N			N			N			
	Capacity (L)	638			1140			1410			
	Blood bag storage qty(450ml)	390			624			780			
Main	Internal W×D×H (mm)	660×690×14	100		1180×690×14	100		1460×690×1	400		
specifications	External W×D×H (mm)	780×827×19	45		1300×827×19	945		1580×827×19	945		
	Weight (KGs)	174			277			298			
	Insulation (mm)	60			60			60			
	Cooling type	Forced air			Forced air			Forced air			
	Defrost	Auto defrost	t		Auto defrost	i		Auto defrost			
	Refrigerant	R290			R290			R290			
Control	Controller	TC-100			TC-100			TC-100			
system	Display	LED digital			LED digital			LED digital			
	Display accuracy	0.1			0.1			0.1			
	Power supply(V/Hz)	220/50	220/60	120/60	220/50	220/60	120/60	220/50	220/60	120/60	
Power	Rated power (W)	260	260	250	400	400	420	400	400	420	
	Rated Current (A)	1.5	1.5	2.6	2.4	2.4	4.8	2.4	2.4	4.8	
	High/low temp check	•			•		I.	•			
Data memory	USB port	•			•			•			
	Cloud monitoring (Wi-Fi)	O CryoMor	nitor 2000TF		O CryoMon	itor 2000TF		O CryoMon	itor 2000TF		
,	Chart recorder	0			0			0			
	Visible/audible alarm	•			•	•					
	High/low temp alarm	•			•			•			
Alarm functions	Remote alarm contact	•			•			•			
Turictions	Sensor failure	•			•			•			
	Door open	•			•			•			
	Low battery	•			•			•			
	Power failure	•			•			•			
	Door lock with key	•			•			•			
	Inner LED light	•			•			•			
	Adjustbale foot	•			•			•			
Other feature	Caster	•			•			•			
- Cataro	Test access port	Ф20mm x 1			Ф20mm x 1			Ф20mm x1			
	Sliding drawers QTY	6			12			12			
	Door Qty	1			2			2			
	Exterior	Coated stee	el .		Coated stee	·		Coated steel			
	Interior	SUS304			SUS304			SUS304			
Material	Door	3-layer glass	5		3-layer glass	5		3-layer glass	;		
	Insulation	Polyurethan			Polyurethan				Polyurethane		
	Gross weight (KGs)	203			312			338			
Shipping	Packing W×D×H (mm)	840×870×21	150		1340×870×2	150		1640×870×2	150		
	Volume (m3)	1.57			2.51			3.07			

2~8°C & -25°C Combined Refrigerator and Freezer

Antech medical-class combined refrigerator & freezer provides a compact storage solution for temperature sensitive medical products and biological material at refrigerator temperature (2°8°C) or freezing temperature (-10°-25°C).







LOW CO2



NATURAL REFRIGERANT



CFC /HCFC FREE



HIGH/LOW TEMPERATURE ALARM



SAFETY DOOR LOCK

PERFORMANCE

- Independent cooling system for refrigerator and freezer. If one part fails, the other part still works normally
- High-precision microprocessor temperature control system with 0.1°C display accuracy

ALARMS

- High temperature
- Low temperature
- Open door
- Power failure
- Sensor error
- Low battery

ERGONOMIC DESIGN

- Glass window for refrigerator part for convenient observation
- Adjustable shelves for refrigerator part, freezer part
- Self-close door for convenient operation
- Ultra-quite design reduces noise level

SAFETY

- Safety door lock, preventing unauthorized access
- Access port for additional temperature probe
- Remote alarm contacts

- Natural refrigerant compliant with EPA and SNAP non-ozone depleting mandates
- High efficiency cooling system for lower energy consumption and carbon emission
- CFC-Free polyurethane foaming insulation

2~8°C & -25°C

Combined Refrigerator and Freezer

	Model	MRF-300								
	Туре	Upright								
	Temperature setting range (°C)	Ref: 2 [~] 8; freezer: -25 ~-10								
	Climate type	N								
	Capacity (L)	Ref: 170; freezer: 100								
	Net weight (kg)	78								
Main	Internal W×D×H (mm)	Ref: 500×460×730; freezer:	500×460×445							
specifications	External W×D×H (mm)	600×606×1776								
	Cooling type	Ref: forced-air; freezer: direct								
	Defrost	Ref: auto; freezer: manual								
	Refrigerant	R600a(220/60:R290)								
	Number of Compressor	2								
	Controller	Microprocessor x 2								
Control & display system	Display	LED Digital								
	Temperature display accuracy	0.1								
	Power supply (V/Hz)	220/50	220/60	120/60						
Power	Rated power (W)	230	270	280						
	Rated current (A)	1.8	2.1	3.5						
_	Visible/audible alarm	•								
	High/low temperature	•								
	Power failure	•								
Alarm functions	Sensor failure	•								
	Door open	•								
	Low battery	•								
	Remote alarm contact	•								
	Door type	Ref: glass door; freezer: form	ning door							
	Shelves	Ref: 3 adjustable shelves ; fr	eezer: 2 adjustable shelves							
Accessories	Safety door lock	•								
	Test access port	Ф2mm x 2								
	Casters	4 (2 with brake)								
Monitoring	Cloud monitoring (Wi-Fi)	CryoMonitor 2000TF, option	nal							
	Exterior	Coated steel								
Material	Interior	Coated steel								
	Insulation	Polyurethane								
	Gross weight (KGs)	100								
Shipping	Packing W×D×H (mm)	660x660x1840								
	Volume (m³)	0.8								

2~8°C & -40°C Combined Refrigerator and Freezer

Antech medical-class combined refrigerator & freezer provides a compact storage solution for temperature sensitive medical products and biological material at refrigerator temperature (2°8°C) or freezing temperature (-20°-40°C).











NATURAL REFRIGERANT



CFC /HCFC FREE



HIGH/LOW TEMPERATURE ALARM



USB PORT



SAFETY DOOR LOCK

PERFORMANCE

- Independent cooling system for refrigerator and freezer. If one part fails, the other part still works normally
- High-precision microprocessor temperature control system with 0.1 C display accuracy
- Digital display show freezer working condition and alarm code
- 3-Channel sensor for control, display and ambient temperature

ERGONOMIC DESIGN

- Glass window for refrigerator part for convenient observation
- Adjustable shelves for refrigerator part, drawers for freezer part
- Self-close door for convenient operation
- Ultra-quite design reduces noise level

ALARMS

- High temperature
- Low temperature
- Hot condenser
- Open door
- Power failure
- Sensor error
- Low battery

SAFETY

- Build-in data storage and USB port for download
- Safety door lock, preventing unauthorized access
- Access port for additional temperature probe
- Remote alarm contacts

- Natural refrigerant compliant with EPA and SNAP non-ozone depleting mandates
- · High efficiency cooling system for lower energy consumption and carbon emission
- CFC-Free polyurethane foaming insulation

2~8°C & -40°C

Combined Refrigerator and Freezer





	Model		MRF-288A			MRF-450A		
	Туре	Upright			Upright			
	Temperature setting range (°C)	Ref: 2^8; freezer: -10	~-40		Ref. 2 [~] 8; freezer: -10 ~ -40			
	Climate type	N			N			
	Capacity (L)	Ref: 188; freezer: 100			Ref: 315; freezer: 204			
	Net weight (kg)	143			186			
Main specifications	Internal W×D×H (mm)	Ref: 600×510×710; fre	eezer: 500×460×505		Ref. 750×610×740; free	zer: 650×560×565		
specifications	External W×D×H (mm)	700×640×1845			910×740×1972			
	Cooling type	Ref: forced-air; freeze	er: direct		Ref. forced-air; freezer:	direct		
	Defrost	Ref: auto; freezer: ma	nual		Ref. auto; freezer: manu	ıal		
	Refrigerant	Hydrocarbon gas			Hydrocarbon gas			
	Number of Compressor	2			2			
	Controller	Microprocessor			Microprocessor			
Control &	Display	LED Digital			LED Digital			
display system	Temperature display accuracy	O.1			0.1			
	Power supply (V/Hz)	220/50	220/60	120/60	220/50	220/60	120/60	
Power	Rated power (W)	330	320	375	398	425	365	
	Rated Current (A)	2.5	3.0	5.5	3.6	3.6	6.5	
	USB port	•			•		I.	
Data	Cloud monitoring (Wi-Fi)	O CryoMonitor 200	OOTF		O CryoMonitor 2000	TF		
	RS485 port	•			•			
	Visible/audible alarm	•			•			
	High/Low temperature	•			•			
	Hot condensor	•			•			
	Power failure	•			•			
Alarm	Sensor failure	•			•			
functions	High ambient temperature	•			•			
	Door open	•			•			
	Low battery	•			•			
	Remote alarm contact	•			•			
	Door type	Ref: forming door wit	h glass window; freeze	er: solid forming door	Ref. forming door with glass window; freezer: solid forming door			
	Shelves & drawers	Ref: 3 shelves +1 dra	wer; freezer: 3 drawers	5	Ref. 3 shelves +1 drawe	er; freezer: 6 drawers		
Accessories	Safety door lock	•			•			
	Test access port	Ф25mm x 2			Ф25mm x 2			
	Casters	4 (2 with brake)			4 (2 with brake)			
	Exterior	Coated steel			Coated steel			
Material	Interior	SUS304			SUS304			
	Insulation	Polyurethane			Polyurethane			
	Gross weight (KGs)	165			215			
Shipping	Packing W×D×H (mm)	830×756×2004			1030×890×2158			
	Volume (m³)	1.25			1.98			

-25°C Laboratory Freezer

The professional LabSafe series lab freezer, specifically developed to be used by laboratories, hospitals, and pharmacies, ensure optimal storage conditions for temperature sensitive medical products and biological material, meeting the highest requirement for accurate controlled cold storage. High density solid door (forming door) is used for excellent insulation. LabSafe freezers are compliant with main international requirements, including CE, UL, etc.

TC-200 Controller



Microprocessor electronic controller for LabSafe series laboratory freezers, fitted with dual LED screen to display inner chamber temperature and key working conditions. Advanced dual sensor control system for accurate temperature control.

PERFORMANCE

- Intelligent microprocessor controller TC-200
- Dual sensor system: display sensor in aluminum block to simulate real product temperature. Control sensor in air for accurate control.
- Optimized direct cooling system & manual defrost
- Rapid temperature recovery after door opening

ERGONOMIC DESIGN

- Self-close door for convenient operation
- · Left/right side open revisable door to suit various space
- Ultra-quite design reduces noise level
- LED light for convenient operation

ALARMS

- High temperature
- Low temperature
- Door ajar
- Power failure
- Sensor error
- Low battery

SAFETY

- Build-in data storage and USB port for download
- Quick check of max/min temperature in 24 hours
- Password protection avoids key parameters unauthorized change
- Safety door lock, preventing unauthorized access
- Access port for additional temperature probe
- Remote alarm contacts

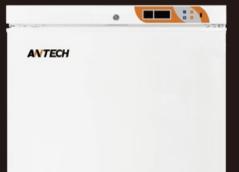
- Natural refrigerant compliant with EPA and SNAP non-ozone depleting mandates
- CFC-Free polyurethane foaming insulation
- High efficiency cooling system for lower energy consumption and carbon emission



► Safety door lock
Preventing unauthorized access



USB port Temperature data storage and download





► Adjustable shelves Convenient storage of different size products



Product sensor in aluminum block to simulate real product temperature;
Control sensor in air for accurate control.



Access port
 For easy access of additional temperature probe



Remote alarm contactSending signal to a remote alarm system

-25°C/ Desktop/ MDF-25U60

ANTECH desktop lab freezer MDF-25U60 is ideal for small medical practices, pharmacies, and labs. It is a great choice when you need a small lab freezer for specialized medicines, vaccines or lab materials. It is perfectly suited for additional storage where space is a consideration. The MDF-25U60 is designed for the most rigorous life science, research, healthcare and clinical applications.

This unit uses environmentally friendly, natural refrigerants that are fully compliant with new EPA/SNAP/UL regulations.



With Stacking Kits





FREE

AVTECH



•









USB PORT

POWER FAILURE ALARM

DOOR AJAR A LARM

REVERSIBLE DOORS

STACKABLE DESIGN

MODEL	
Temperature range (°C)	-10∼-25
Capacity (L)	65
External dimensions W×D×H (mm)	510×560×670
Shelves (pcs)	2
Data storage & USB port	•
Power supply	220V/50Hz; 220V/60Hz; 120V/60Hz

-25°C/Under-counter/ MDF-25U150

ANTECH undercounter lab freezer MDF-25U150 is ideal for small medical practices, pharmacies, and labs. Its height is designed to match laboratory table and optimized usage of limited space. Despite a compact freezer, the functions are complete for medical and laboratory applications, including data storage and USB port for download, high/low temperature alarm, door open alarm, power failure alarm, remote alarm contact, LED light etc. Therefore, MDF-25U150 meets the most rigorous requirements of healthcare and scientific research.

This unit uses environmentally friendly, natural refrigerants that are fully compliant with new EPA/SNAP/UL regulations.

MDF-25U150 is a stackable freezer (using Antech stacking kits) to install in a limited space. You can order with various combinations with flexibility for your specific demand.









NATURAL REFRIGERANT



USB PORT



HIGH/LOW TEMPERATURE ALARM



DOOR AJAR A LARM



REVERSIBLE DOORS



STACKABLE DESIGN

MODEL	MDF-25U150	
Temperature range (°C)	-10∼-25	
Capacity (L)	120	
External dimensions W×D×H (mm)	600×560×820	
Shelves (pcs)	3	
Data storage & USB port	•	
Power supply	220V/50Hz; 220V/60Hz; 120V/60Hz	

LabSafe Series -25°/MDF-25U270/400/600

LabSafe series upright lab freezers are used to store medicines, vaccines or lab materials in pharmacies, hospitals, clinics and labs. Product temperature sensor is put into aluminum block to simulate real product temperature. Access port is available for additional temperature probe.

These units use environmentally friendly, natural refrigerants that are fully compliant with new EPA/SNAP/UL regulations.

Temperature data storage and USB port are supplied as standard. A pdf format file including temperature curve and temperature data can be downloaded. A quick check of maximum and minimum temperature record in previous 24 hours is available, making the job much easier for operators. LED light for convenient operation.





► MDF-25U600



NATURAL REFRIGERANT



USB PORT



HIGH/LOW TEMPERATURE ALARM



POWER FAILURE ALARM



DOOR AJAR A LARM



REVERSIBLE DOORS

MODEL	MDF-25U270	MDF-25U400	MDF-25U600
Temperature range (°C)	-10∼-25	-10∼-25	-10∼-25
Capacity (L)	280	380	550
External dimensions W×D×H (mm)	600×560×1540	600×650×1805	775×750×1905
Shelves (pcs)	5	6	6
Data storage & USB port	•	•	•
Power supply	220V/50Hz	220V/50Hz	220V/50Hz
	220V/60Hz	220V/60Hz	220V/60Hz
	120V/60Hz	120V/60Hz	120V/60Hz

-25°C LabSafe series









		**********				-										
	Model	MDF-2	5U60		MDF-2	5U150		MDF-2	5U270		MDF-2	5U400		MDF-25	U600	
	Туре	Desktop)		Under-c	ounter		Upright	Upright		Upright		Upright			
	Temperature range (°C)	-10~-2	5		-10~-2	5		-10~-2	5		-10~-2	25		-10~-25		
	Climate type	N			N			N		N		N				
	Capacity (L)	65			120			280		380		550				
	Internal W×D×H (mm)	410×450)×420		500×45	0×570		500×45	0×1290		500×51	10×1550		645×530	0×1645	
Main specifications	External W×D×H (mm)	510×560)×670		600×56	600×560×820 6			0×1540		600×65	50×1805		775×750	×1905	
3pecineution.	Weight (KGs)	31			41			61			74			95		
	Insulation (mm)	50			50			50			50			60		
	Cooling type	Direct c	ooling		Direct co	Direct cooling Dir		Direct c	ooling		Direct o	cooling		Direct co	ooling	
	Defrost	Manual			Manual			Manual			Manual			Manual		
	Refrigerant	R600a			R600a(2	220/60:F	R290)	R600a			R290			R290		
	Controller	TC-200			TC-200			TC-200			TC-200)		TC-200		
Control system	Display	LED dig	ital		LED digi	ital		LED dig	ital		LED dig	gital		LED digi	tal	
	Display accuracy	0.1			0.1			0.1			0.1			0.1		
	Power supply (V/Hz)	220/50	220/60	120/60	220/50	220/60	120/60	220/50	220/60	120/60	220/50	220/60	120/60	220/50	220/60	120/60
Power	Rated power (W)	95	95	115	120	140	170	220	220	200	220	220	230	250	250	230
	Rated Current (A)	0.7	0.7	0.9	1.1	1.3	1.7	1.7	1.7	1.8	1.7	1.7	2.0	1.7	1.7	2
	High/low temp check	eck •			•		•		•		•					
Data memory	USB port	•		•		•		•		•						
	Cloud monitoring (Wi-Fi)						0 C	ryoMonit	or 2000	TF						
	Visible/audible alarm	•		•		•			•			•				
	High/low temp	•			•		•		•		•					
	Sensor failure	•			•		•		•		•					
Alarm functions	Door open	•			•		•		•		•					
	Low battery	•		•		•			•			•				
	Power failure	•	•		•		•		•		•					
	Remote alarm contact	•			•		•		•		•					
	Door lock with key	•			•			•			•			•		
	Inner LED light	•			•			•			•			•		
	Adjustbale foot	•			•			•			N/A			N/A		
Other	Caster	N/A			N/A		N/A		•		•					
feature	Test access port	Φ20mn	1 x 1		Ф 20mm x 1		Ф20mm x 1		Ф20mm x 1		Ф20mm x 1					
	Shelves adjustable	1			2		5		5			5				
	Shelf at buttom	1			1		1		1		1					
	Door QTY	1			1		1		1		1					
	Exterior	Pre-coa	ted steel		Pre-coat	ted stee	l	Pre-coated Steel		Pre-coated steel		Pre-coated steel				
Material	Interior	Pre-coated aluminum		Pre-coated aluminum		Pre-coated aluminum		Pre-coated aluminum		Pre-coated aluminum						
	Door	Solid do	or		Solid do	or		Solid door		Solid door		Solid door				
	Insulation	Polyuret	hane		Polyuret	hane		Polyurethane		Polyurethane		Polyurethane				
	Gross weight (KGs)	39.5			50.5			73.5		92		112.5				
Shipping	Packing W×D×H (mm)	570×62	0×760		660×62	0×910		660×62	0×1630		660×70	00×1900		830×750	0×2000	
	Volume (m³)	0.27			0.37		0.67		0.88		1.25					

-40°C Laboratory Freezer

TC-200 Controller



Microprocessor electronic controller TC-200, fitted with dual LED screen to display inner chamber real time temperature and key working status including controller lock status, cooling status, power supply indicator, etc.. It is installed at the eye level, convenient for reading all data and operating on controller.







NATURAL REFRIGERANT



FREE



USB PORT



POWER FAILURE



COOLING



SAFETY DOOR LOCK

PERFORMANCE

- Optimized cooling system & high efficiency hydrocarbon refrigerant.
- · SECOP brand compressor & EBM brand blower.
- High density polyurethane forming for insulation.
- Forming inner doors with door seal for better insulation and less
 front.

ALARMS

- High temperature
- Low temperature
- Door open
- Power failure
- Sensor error

ERGONOMIC DESIGN

- Adjustable stainless steel shelves to load different size products
- Ultra-quite design reduces noise level

SAFETY

- Build-in data storage and USB port for download
- Password protection avoids key parameters unauthorized change
- Safety lockable door, preventing unauthorized access
- Access port for additional temperature probe
- Remote alarm contacts
- Optional online monitoring system

- Natural refrigerant compliant with EPA and SNAP non-ozone depleting mandates
- · CFC-Free polyurethane foaming insulation
- High efficiency cooling system for lower energy consumption and less carbon emission



USB port

Temperature data storage and download



▶ Lockable door handle

For easy operation and prevent unauthorized access





Adjustable shelves

Convenient storage of different size products made in stainless steel



Pressure release port

Manual pressure release port for easy re-opening of outer door in a shorter time





Access port

One access ports at side and back of freezer, for easy access of additional temperature probe



Remote alarm contact

Sending signal to a remote alarm system

-40°C

LabSafe series









	Model	MDF-40U280	MDF-40U360	MDF-40U620	MDF-40U700
	Туре	Upright	Upright	Upright	Upright
	Temperature range (°C)	-20~-40	-20~-40	-20~-40	-20~-40
	Cooling type	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost	Manual	Manual	Manual	Manual
Main	Climate type	N	N	N	N
specifications	Capacity (L)	283	361	620	707
•	Internal W*D*H (mm)	460×470×1310	460x600x1310	740×640×1310	740x730x1310
	External W*D*H (mm)	715×725×1910	715×855×1910	995×895×1910	995×985×1910
	Weight (KGs)	115	140	181	205
	Refrigerant	R290	R290	R290	R290
	Number of compressor	1	1	1	1
	Controller	TC-200	TC-200	TC-200	TC-200
Control system	Display	LED digital	LED digital	LED digital	LED digital
•	Display accuracy	0.1	0.1	0.1	0.1
Data memory	High/low temp check	•	•	•	•
	USB port	•	•	•	•
	Power supply (V/Hz)	220/50; 220/60; 120/60	220/50; 220/60; 120/60	220/50; 220/60; 120/60	220/50; 220/60; 120/60
Power	Rated power (W)	350	400	550	550
	Visible/audible alarm	•	•	•	•
	High/low temp	•	•	•	•
	Sensor failure	•	•	•	•
	Door open	•	•	•	•
Alarm	Low battery	•	•	•	•
	Power failure	•	•	•	•
	Remote alarm contact	•	•	•	•
	External door	1	1	1	1
	Inner door	4	4	4	4
	Safety door lock	Yes	Yes	Yes	Yes
Accessories	Adjustbale shelf	3	3	3	3
	Test access port	Ф20mm x 2	Ф20mm x 2	Ф20mm x 2	Ф20mm x 2
	Caster	4	4	4	4
	Exterior	Pre-coated steel	Pre-coated Steel	Pre-coated steel	Pre-coated steel
	Interior	Pre-coated steel	Pre-coated steel	Pre-coated steel	Pre-coated steel
	Outer door	Forming door	Forming door	Forming door	Forming door
	Inner door	Forming door	Forming door	Forming door	Forming door
	Cabinet insulation thickness (mm)	90	90	90	90
Material	Outer door insulation thickness (mm)	80	80	80	80
	Insulation	Polyurethane	Polyurethane	Polyurethane	Polyurethane
	Compressor brand	SECOP	SECOP	SECOP	SECOP
	Blower brand	EBM	EBM	EBM	EBM
	Gross weight (KGs)	138	172	220	265
Shipping	Packing WxDxH (mm)	735×760×2120	735×890×2120	1015×930×2120	1015×1020×2120
ompping	· · · · · · · · · · · · · · · · · · ·				l

-40°C Laboratory Freezer

Antech -40°C deep freezer is designed to store temperature sensitive medical products and biological materials at accurate controlled temperature. Available with 3 capacities: 90 liter under-counter freezer, 270 liter single-door freezer and 450 liter two-door freezer. It is an ideal product to store plasma, reagent and other biomedical products which require to be stored at -20~-40°C temperature.









NATURAL REFRIGERANT



CFC /HCFC FREE









USB PORT



SAFETY DOOR

PERFORMANCE

- High-precision microprocessor temperature control system with 0.1 $\!\!\!\!\!\!^{\rm C}$ display accuracy
- Digital display show freezer working condition and alarm code
- 3-Channel sensor for control, display and ambient temperature

ALARMS

- High temperature
- Low temperature
- Hot condenser
- Open door
- Power failure
- Sensor error
- Low battery

ERGONOMIC DESIGN

- ABS drawers for convenient storage
- Self-close door for easy operation
- Ultra-quite design reduces noise level

SAFETY

- Build-in data storage and USB port for download
- Safety door lock, preventing unauthorized access
- Access port for additional temperature probe
- RS485 port and remote alarm contacts

- Natural refrigerant compliant with EPA and SNAP non-ozone depleting mandates
- High efficiency cooling system for lower energy consumption and carbon emission
- CFC-Free polyurethane foaming insulation

-40°C

Laboratory Freezer

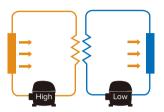


	Model	MDF-40U	90		MDF-40U	270		MDF-40U4	150		
	Туре	Under-coun	iter		Upright			Upright			
	Temperature range (°C)	-20~-40			-20~-40			-20~-40			
	Cooling type	Direct coolii	ng		Direct cooling			Direct cooling			
	Defrost	Manual			Manual			Manual			
	Climate type	N			N			N			
	Capacity (L)	90			270			450			
Main specifications	Internal W*D*H (mm)	500*485*53	32		500*460*12	35		650*570*62	.7x2		
	External W*D*H (mm)	700*669*86	64		700*640*179	92		810*735*196	0		
	Weight (KGs)	54			90			144			
	Refrigerant	R290			R290			R290			
	Number of compressor	1			1			2			
Control	Controller	Microproces	ssor		Microproces	ssor		Microproces	ssor		
system	Display	LED digital			LED digital			LED digital			
	Display accuracy	1			1			0.1			
	Power supply (V/Hz)	220/50	220/60	120/60	220/50	220/60	120/60	220/50	220/60	120/60	
Power	Rated power (W)	131	170	172	255	210	179	346	375	305	
	Rated Current (A)	1.3	1.8	4.2	2.8	2.2	4.2	4.5	3.7	5.3	
	USB port	•	•			•			•		
	Cloud monitoring (Wi-Fi)	O CryoMo	O CryoMonitor 2000TF			O CryoMonitor 2000TF			O CryoMonitor 2000TF		
Data	RS485 port	•			•			•			
	Visible/audible alarm	•			•			•			
	High/low temp	•			•			•			
A1	Sensor failure	•			•			•			
Alarm functions	Door open	•			•			•			
	Low battery	•			•			•			
	Power failure	•			•			•			
	Remote alarm contact	•			•			•			
	Door lock with key	•			•			•			
	Adjustbale foot	2			2			N/A			
Other	Caster	2			2			4			
feature	Test access port	Ф25mm x 1			Φ25mm x1			Ф25mm x 2			
	Drawers	3			7			12			
	Door Qty	1			1			2			
	Exterior cabinet material	Pre-coated	steel		Pre-coated Steel			Pre-coated steel			
	Interior cabinet material	Pre-coated	aluminum		Pre-coated aluminum			Pre-coated aluminum			
Material	Door type	Solid door			Solid door			Solid door			
	Insulation material	Polyurethan	ie		Polyurethane			Polyurethane			
	Gross weight (KGs)	67			103			172			
Shipping	Packing W*D*H (mm)	765*735*93	15		757*717*186	5		+	35		
					1.0			895*820*2135 1.57			

-86°C Ultra-low Temperature Freezer

ANTECH offers advanced BioSafe ULT freezers with optimized cooling system and ergonomic design. Both upright freezers and chest freezers are available, from 88 liter compact freezer to 838 liter large volume biobanking freezer. Various of high efficiency cooling systems to meet different requirements of users. Dual compressor cooling technology (BioSafe-DUAL) are adopted on ANTECH ULT freezers, providing lowest energy consumption & highest level protection.

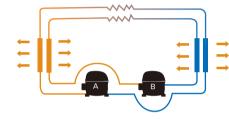
BioSafe-ECO series



2-compressor cascade system, SECOP brand;

Hydrocarbon refrigerant for lower power consumption; Capacity: 338L, 408L, 588L, 728L, 838L.

BioSafe-DUAL series

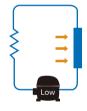


Independent dual compressor system:

inner temperature maintain -75°C when one compressor fails;

Capacity: 408L, 588L, 728L, 838L.

BioSafe-MINI series BioSafe-AIR series



Single compressor cooling system

compact construction with high efficiency, reach -86°C with 1 compressor; Capacity: 58L, 88L, 100L

Upright freezers

Capacity	58L	88L	100L	338L	408L	588L	728L	838L
BioSafe-MINI	-	MDF-86U108	-	-	-	-	-	-
BioSafe-ECO	-	-	-	MDF-86U340T	MDF-86U458T	MDF-86U588T	MDF-86U728T	MDF-86U838T
BioSafe-DUAL	-	-	-	-	MDF-86U458D	MDF-86U588D	MDF-86U728D	MDF-86U838D
BioSafe-AIR	MDF-86U50	-	MDF-86U100	-	-	=	-	-

Chest freezers

Capacity	130L	495L	746L
BioSafe-MINI	MDF-86C118	-	-
BioSafe-ECO	-	MDF-86C458	MDF-86C728

BioSafe-AIR ULT Freezer Variable speed (inverter) compressor

BioSafe-AIR series compact ULT freezers allow users to store biological products with more flexibility. MDF-86U50 is a desk-top model, while MDF-86U100 is an under-counter freezer. Both 2 models are stackable.

These freezers are equipped with advanced variable speed (inverter) compressors. Compared with traditional fixed speed compressors, they are more silent, and more energy saving.

TC-300A Controller

Microprocessor electronic controller TC-300A, fitted with dual LED screen to display inner chamber temperature and key working conditions. Advanced dual sensor control system for accurate temperature control.





INVERTER COMPRESSOR



LOW CO2 EMISSIONS



DOOR AJAR ALARM



STACKABLE DESIGN



USB PORT



POWER FAILURE ALARM



SAFETY DOOR

PERFORMANCE

- Variable speed (inverter) compressor achieving higher efficiency
- V.I.P. (vacuum insulation panel) for excellent insulation
- Honeywell Solstice® liquid blowing agent (LBA) for better insulation
- Forming inner door(s) with door seal for better insulation

ALARMS

- High temperature
- Low temperature
- High ambient temperature
- Door open
- Power failure
- Sensor error
- High condenser alarm
- Low battery

ERGONOMIC DESIGN

- Compact design for desk-top or under-counter usage
- · Silent running creating a user-friendly environment
- Stackable design to save space
- Stainless steel interior for easy cleaning
- Pressure release port to allow door open with shorter interval

SAFETY

- Build-in data storage and USB port for download
- Password protection avoids key parameters unauthorized change
- Safety door lock, preventing unauthorized access
- Test access port for additional temperature probe
- Remote alarm contacts
- Optional online monitoring system(CryoMonitor 2000TF)
- Optional CO2/LN2 backup system

- CFC-Free polyurethane foaming insulation
- Honeywell Solstice® liquid blowing agent (LBA) makes environment green
- High efficiency cooling system for lower energy consumption and less carbon emission



High class interior
 Stainless steel interior
 Stainless steel forming inner door
 Rust-free & easy cleaning



Ergonomic door handle
 Light operation, friendly to ladies
 Safety lock to prevent unauthorized access
 Mid-positioned design, handle operation not influenced by wall or table side



Stainless steel shelf
Adjustable position in the chamber
Removeable to store large size product
Stainless steel for easy cleaning



► Test access port
For easy access of additional temperature probe



 Remote alarm contact NO (normally open)
 NC (normally close)



Stable design: Upper: MDF-86U50

Lower: MDF-86U100

ANTECH



Variable speed (inverter) compressor

Higher efficiency and lower energy consumption Lower noise and pleasant to work with Better performance in temperature stability



CryoMonitor 2000TF (optional)

Cloud based temperature monitoring system Email & SMS alarms USB port for data storage and download









BioSafe-AIR





Model			MDE OSIMOO		
	Model	MDF-86U50	MDF-86U100		
	Туре	Upright, desk-top	Upright, under-counter		
	Stackable	•	•		
	Cooling technology	Single compressor, vairable speed	Single compressor, vairable speed		
	Temperature setting range (°C)	-40~-86	-40~-86		
	Climate type	N	N		
	Capacity (L)	58L	100L		
lain	2" box storage Qty (Pcs)	30	60		
pecifications	Net weight (KGs)	84	108		
	Intermal W×D×H (mm)	340x460x364	340x460x630		
	Extermal W×D×H (mm)	760x680x550	760x680x818		
	Door entrance limit (≥mm)	680	680		
	Cooling type	Direct	Direct		
	Defrost	Manual	Manual		
	Refrigerant	Mixed gas	Mixed gas		
	Number of compressor	1	1		
	Controller	TC-300A	TC-300A		
ontrol &	Display	LED	LED		
splay stem	Temperature display accuracy	O.1	0.1		
300111	Password protection	•	•		
	Power supply (V/Hz)	110V,50/60Hz; 220V,50/60Hz	110V,50/60Hz; 220V,50/60Hz		
ower	Rated power (W)	260	450		
	Rated current (A)	2.9	2.9		
	USB port	•	•		
ata memory	Cloud monitoring (Wi-Fi)	O CryoMonitor 2000TF	O CryoMonitor 2000TF		
monitoring	Visible/audible alarm	•	• •		
	High/Low temperature	•	•		
	Hot condenser	•	•		
	Power failure	•	•		
arm	Sensor failure	•	•		
nctions		-	•		
	High ambient temperature Door open	•	•		
	'				
	Remote alarm contact	•	•		
	Inner forming door	1	2		
	Adjustable foot	4	4		
	Scroll wheel	N/A	2		
	Stackable kit	0	0		
	Test access port	1	1		
cessories	Adjustable shelves	1	1		
	Safety door lock	•	•		
	Pressure equalization port	•	•		
	Freezer rack	0	0		
	Rack type (DxH)	5x3	5x3		
	Rack Qty	2	4		
	CO2/LN2 backup system	0	0		
	Exterior	Powder coated galvanized steel sheet	Powder coated galvanized steel sheet		
	Interior	Stainless steel	Stainless steel		
	Insulation	Polyurethane+LBA	Polyurethane+LBA		
aterial	Vacuum insulation panel (VIP)	•	•		
	Cabinet insulation thickness (mm)	80	80		
	Outer door thinkness (mm)	80	80		

[•] Basic equipment O Optional

TC-310 touch screen controller

TC-310 smart control system is adopted for easy observation and convenient operation.

- 7" LCD touch screen: sensitive touch, user-friendly HIM;
- Large display of chamber temperature, easy observation at distance;
- Status icon to show freezer situation at first sight: normal or abnormal;
- Password administration to prevent unauthorized change of settings;
- Show temperature curve on touch screen;
- Temperature and event data storage and USB port for download.









FREE





ALARM



COOLING



PERFORMANCE

- Optimized cooling system & high efficiency hydrocarbon refrigerant. (Biosafe-ECO system)
- SECOP brand compressor & EBM brand blower.
- VIP (vacuum insulation panel) + high density polyurethane forming for insulation.
- Forming inner doors for better insulation

ALARMS

- High/low temperature
- High ambient temperature
- Door ajar
- Power failure
- Sensor error
- Abnormal voltage
- Controller failure
- Low battery
- Condenser malfunction

ERGONOMIC DESIGN

- 7-inch touch screen for easy operation
- Forming inner doors with door seal for better insulation and less frost
- Adjustable stainless steel shelves to load different size products
- Pressure release port for easy opening of outer door
- Ultra-quite design reduces noise level
- Optional sliding drawer rack & side access rack for 2ml vials, 5ml vials or SBS boxes

SAFETY

- Build-in data storage and USB port for download
- Temperature quick check via temperature curve
- Password protection avoids key parameters unauthorized change
- Safety door lock, preventing unauthorized access
- Access port for additional temperature probe
- Remote alarm contacts
- Optional online monitoring system
- Optional CO2/LN2 backup system

ENVIRONMENT FRIENDLY

- Natural refrigerant compliant with EPA and SNAP non-ozone depleting mandates (only for Biosafe-ECO series)
- CFC-Free polyurethane foaming insulation
- High efficiency cooling system for lower energy consumption and less carbon emission



USB port

Temperature data storage and download



► Door handle with safety lock

For easy operation and prevent unauthorized access





SUS304 inner cabinet
Adjustable shelves



RS485 interface

Enables freezer to communicate with the computer





Access port

One access ports at side and back of freezer, for easy access of additional temperature probe



► Remote alarm contact

Sending signal to a remote alarm system

TC-300 touch screen controller

TC-300 smart control system is adopted for easy observation and convenient operation.

- 7" LCD touch screen: sensitive touch, user-friendly HIM;
- Large display of chamber temperature, easy observation at distance;
- Status icon to show freezer situation at first sight: normal or abnormal;
- Password administration to prevent unauthorized change of settings;
- Show temperature curve on touch screen;
- Temperature and event data storage and USB port for download.









CFC /HCFC



USB PORT



POWER FAILURE ALARM



DIRECT



SAFETY DOOR LOCK

PERFORMANCE

- Optimized cooling system & high efficiency hydrocarbon refrigerant.
- SECOP brand compressor & EBM brand blower.
- VIP (vacuum insulation panel) + high density polyurethane forming for insulation.
- Forming inner doors for better insulation

ALARMS

- High temperature
- Low temperature
- High ambient temperature
- Door ajar
- Power failure
- Sensor error

ERGONOMIC DESIGN

- 7-inch touch screen for easy operation
- Forming inner doors with door seal for better insulation and less frost
- Adjustable stainless steel shelves to load different size products
- Auto heating & manual pressure release port for easy opening of outer door
- Ultra-quite design reduces noise level
- Optional sliding drawer rack & side access rack for 2ml vials, 5ml vials or SBS boxes

SAFETY

- Build-in data storage and USB port for download
- Temperature quick check via temperature curve
- Password protection avoids key parameters unauthorized change
- Safety door lock, preventing unauthorized access
- Access port for additional temperature probe
- · Remote alarm contacts
- Optional online monitoring system
- Optional CO2/LN2 backup system

ENVIRONMENT FRIENDLY

- Natural refrigerant compliant with EPA and SNAP non-ozone depleting mandates
- CFC-Free polyurethane foaming insulation
- $\bullet\,$ High efficiency cooling system for lower energy consumption and less carbon emission

BioSafe-MINI

Under-counter ULT Freezer

ANTECH's compact under-counter ULT freezer MDF-86U108 is an ideal solution to store biological materials in a limited space. The freezer size is designed to match laboratory table height, so that it can be put under counter.

BioSafe-MINI adopts high efficiency single compressor cooling system, with reduced energy consumption and lower noise.

TC-300 touch screen smart controller is used. Despite a compact freezer, the functions are complete for medical and laboratory applications, including data storage and USB port for download, high/low temperature alarm, door open alarm, power failure alarm, remote alarm contact, etc. Therefore, MDF-86U108 meets the most rigorous requirements of healthcare and scientific research.









DOOR AJAR ALARM



CFC /HCFC FREE



USB PORT



POWER FAILURE ALARM



DIRECT COOLING



SAFETY DOOR LOCK

BioSafe-ECO series











	Model	MDF-86U340T	MDF-86U458T	MDF-86U588T	MDF-86U728T	MDF-86U838T
	Type Cooling tochnology	Upright	Upright	Upright Cascade cooling	Upright	Upright Cascade cooling
	Cooling technology	Cascade cooling	Cascade cooling -40~-86	-40~-86	Cascade cooling	-40~-86
	Temperature setting range (°C)	N	N	-40~-86 N	-40~-86	-40~-86 N
	Climate type	338	408	588	N	
	Capacity (L)				728	838
	2" box storage Qty (Pcs)	192	288	400	504	600
Main specifications	Net weight (KGs)	296 488*607*1140	292 606*575*1180	335	380	397
opeomodiono	Intermal W×D×H (mm)	-		606*738*1310	963×571×1350	894×718×1310
	Extermal W×D×H (mm)	854×1072×1907	891×992×1945.5	891×1155×1994.5	1248×975×1994.5	1179×1135×1994.5
	Cooling type	Direct	Direct	Direct	Direct	Direct
	Defrost	Manual	Manual	Manual	Manual	Manual
	Refrigerant	Hydrocarbon gas	Hydrocarbon gas	Hydrocarbon gas	Hydrocarbon gas	Hydrocarbon gas
	Number of compressor	2	2	2	2	2
	Controller	TC-310	TC-310	TC-310	TC-310	TC-310
Control &	Display	7" LCD touch screen	7" LCD touch screer			
lisplay ystem	Temperature display accuracy	0.1	0.1	0.1	0.1	0.1
, , , , , , , , , , , , , , , , , , , ,	Password protection	•	•	•	•	•
	Temperature graph	•	•	•	•	•
Power	Power supply (V/Hz)	220/50 220/60 120/60	220/50 220/60 120/60	220/50 220/60 120/60	220/50 220/60 120/60	220/50 220/60 120/6
	Rated power (W)	620	650	690	710	720
	USB port	•	•	•	•	•
Data memory	RS 485 port	•	•	•	•	•
& monitoring	Cloud monitoring (Wi-Fi)	O CryoMonitor 2000TF	O CryoMonitor 2000TF	O CryoMonitor 2000TF	O CryoMonitor 2000TF	O CryoMonitor 2000T
	Chart recorder	0	0	0	0	0
	Visible/audible alarm	•	•	•	•	•
	High/Low temp	•	•	•	•	•
	Hot condenser	•	•	•	•	•
A.L	Power failure	•	•	•	•	•
Alarm functions	Sensor failure	•	•	•	•	•
	High ambient temp	•	•	•	•	•
	Door open	•	•	•	•	•
	Power failure backup system	72h	72h	72h	72h	72h
	Remote alarm contact	•	•	•	•	•
	Inner door	2	2	2	2	2
	Casters	•	•	•	•	•
	Test access port	Φ25mm	Φ25mm	Φ25mm	Φ25mm	Φ25mm
	Adjustable shelves	3	3	3	3	3
	Safety door lock	•	•	•	•	•
Accessories	Pressure equalization port	•	•	•	•	•
	Freezer rack	0	0	0	0	0
	Rack type (LxH)	4×4	4x5&4x4	5x5	4x5&4x6	5x5
	Rack Qty	12	8+8	16	18+6	24
	CO2/LN2 backup system	0	0	0	0	0
	Exterior	Powder coated steel	Powder coated steel	Powder coated steel	Powder coated steel	Powder coated stee
	Interior	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Insulation	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Material	Vacuum insulation panel (VIP)	•	•	•	•	•
material	Cabinet insulation thickness (mm		100	100	100	100
	Outer door thinkness (mm)	105	105	105	105	105
		1100	1.00	1.00	100	100
	` ′	SECOP	SECOP	SECOR	SECOR	SECOR
	Compressor brand	SECOP	SECOP	SECOP	SECOP	SECOP
Shipping	` ′	SECOP 306 950*1090*2070	SECOP 317 960*1035*2120	SECOP 364 970*1190*2210	SECOP 400 1333*1010*2210	SECOP 430 1275*1165*2210

BioSafe-DUAL series









	Model	MDF-86U458D	MDF-86U588D	MDF-86U728D	MDF-86U838D
	Туре	Upright	Upright	Upright	Upright
	Cooling technology	Independent dual cooling	Independent dual cooling	Independent dual cooling	Independent dual cooling
	Temperature setting range (°C)	-40~-86	-40~-86	-40~-86	-40~-86
	Climate type	N N	N	N	N 80
	Capacity (L)	408	588	728	838
	2" box storage Qty (Pcs)	288	400	504	600
Main	Net weight (KGs)	236	283	316	310
specifications	Intermal W×D×H (mm)	606*575*1180	606*738*1310	963×571×1350	894*718*1310
	Extermal W×D×H (mm)	891×992×1946	891×1155×1995	1248×975×1995	1179×1135×1995
	Cooling type	Direct	Direct	Direct	Direct
	Defrost	Manual	Manual	Manual	Manual
	Refrigerant	Mixed gas	Mixed gas	Mixed gas	Mixed gas
	Number of compressor	2	2	2	2
	Controller	TC-310	TC-310	TC-310	TC-310
	Display	7" LCD touch screen			
Control & display	Temperature display accuracy	0.1	0.1		
system	Password protection	0.1	0.1	0.1	0.1
	Temperature graph	•	•	•	•
	Power supply (V/Hz)	220/50	220/50	220/50	220/50
Power	Rated power (W)	1350	1500		1700
	USB port	1550	•	1400	•
Data	RS 485 port	•	•	•	•
Data memory & monitoring	Cloud monitoring (Wi-Fi)	-			
· ·	Chart recorder	O CryoMonitor 2000TF	O CryoMonitor 2000TF	O CryoMonitor 2000TF	O CryoMonitor 2000TF
	Visible/audible alarm	•	•	•	•
	High/Low temp	•	•	•	•
	Hot condenser	•	•	•	•
	Power failure	•	•	•	•
Alarm	Sensor failure	•	•	•	•
functions	High ambient temp	•	•	•	•
	Door open	•	•	•	•
	Power failure backup system	72h			
	Remote alarm contact	7211 •	72h	72h	72h
	Inner door	2	2		
	Casters	•	•	2	2
	Test access port				
	Adjustable shelves	Φ25mm 3	Φ25mm	Φ25mm	Φ25mm
	Safety door lock	•	3	3	3
Accessories	Pressure equalization port	•	•	•	•
	Freezer rack	0	0	0	0
	Rack type (LxH)				
	Rack Qty	4x5&4x4	5x5	4x5&4x6	5x5
	CO2/LN2 backup system	8+8 O	16	18+6 O	24
	Exterior				
		Powder coated steel	Powder coated steel	Powder coated steel	Powder coated steel
	Interior Insulation	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Material	Vacuum insulation panel (VIP)	Polyurethane •	Polyurethane •	Polyurethane •	Polyurethane •
iviar⊆i lai	Cabinet insulation thickness (mm)		100		'
	Outer door thinkness (mm)			100	100
	Compressor brand	105	105	105	105
	Gross weight (KGs)	SECOP	SECOP	SECOP	SECOP
Shinning	Packing W×D×H (mm)	278	346	392	384
Shipping		963*1035*2120	970*1190*2190	1333*1010*2210	1271*1165*2190
	Volume (m³)	2.11	2.53	2.97	3.24

-86°C BioSafe-MINI







			-			4 4			• •	
	Model	MDF-86U10	08		MDF-86U5	8		MDF-86U1	58	
	Туре	Under-count	er, upright		Upright			Upright		
	Cooling technology	Single comp			Single compressor			Single compressor		
	Temperature setting range (°C)	-40~-86			-40~-86			-40~-86		
	Climate type	N			N			N		
	Capacity (L)	88			58			158		
	2" box storage Qty (Pcs)	60			36			108		
Main	Net weight (KGs)	85			75			130		
specifications	Internal W×D×H (mm)	320×450×61	0		364x405x40	9		460x455x80	0	
	External W×D×H (mm)	794×676×81			540X620X11			700x700x158		
	Door entrance limit (≥mm)	676			620			700		
	Cooling type	Direct			Direct			Direct		
	Defrost	Manual			Manual			Manual		
	Refrigerant	Mixed gas			Mixed gas			Mixed gas		
	Number of compressor	1			1			1		
	Controller	TC-300			TC-300E			TC-300E		
Control &	Display	7" LCD touch	screen		LED			Electronic		
display	Password protection	• LCD todd	. 5616611		•			•		
system	Temperature display accuracy	0.1			0.1			0.1		
	Power supply (V/Hz)	220/50	220/60	120/60	220/50	220/60	120/60	220/50	220/60	120/60
Power	Rated power (W)	410	460	520	500	500	500	500	500	500
OWCI	Rated Current (A)	2.3	2.6	6.6	3.2	3.2	6.0	3.2	3.2	6.0
	USB port	•	2.0	0.0	N/A	3.2	0.0	N/A	3.2	0.0
Data memory	Cloud monitoring (Wi-Fi)		itor 2000TE		o CryoMonitor 2000TF		o CryoMonitor 2000TF			
& monitoring	Chart recorder/ data logger	O CryoMonitor 2000TF			0			O CIYOMOIII	101 200011	
	Visible/audible alarm	•			•			•		
	High/Low temperature	•			•		•			
	Hot condensor	•			N/A			N/A		
	Power failure	•			•			•		
Alarm	Sensor failure				•			•		
functions		•			N/A					
	High ambient temperature	•			•			N/A		
	Door open	•			•			•		
	Remote alarm contact									
	Inner door	2			2			3		
	Casters	• *202			•			●		
	Test access port	Φ20mm x 2			Φ20mm x1			Φ20mm x1		
	Adjustable shelves	1			1			2		
	Safety door lock	•			• N//A			N/A		
Accessories	Pressure equalization port	Manual			N/A			N/A		
	Freezer rack	0			N/A			N/A		
	Rack type (LxH)	3x5			N/A			N/A		
	Rack Qty	4			N/A			N/A		
	CO2/LN2 backup system	0			0		0			
	Exterior	Powder coat			Powder coated steel		Powder coated steel			
	Interior	Pre-coated s			SUS			SUS		
Material	Insulation	Polyurethane	9		Polyurethane		Polyurethane			
riateriai	Vacuum insulation panel (VIP)	•			N/A			N/A		
	Cabinet insulation thickness (mm)				90			120		
	Outer door thickness (mm)	90			90			120		
	Gross weight (KGs)	105			95			160		
Shipping	Packing W×D×H (mm)	850×730×95	53		610x700x124	10		780x800x171	0	
	Volume (m³)	0.59			0.53			1.07		

Chest type







T C T	Type Cooling technology Temperature setting range (°C) Climate type	Chest Sinale co			MDF-860 Chest			MDF-860 Chest		
C C	Cooling technology Temperature setting range (°C)							Cilest		
T C	Temperature setting range (°C)		Single compressor		Cascade cooling		Cascade o	cooling		
C		-40~-86		-40~-86		-40~-86				
C		N			N			N		
	Capacity (L)	130			495			746		
2	2" box storage Qty (Pcs)	96			360			585		
	Net weight (KGs)	98			225			275		
	Internal W×D×H (mm)	630×440:	×470		1310×600×	×630		1310×740×	770	
E	External W×D×H (mm)	850×740			1930×780			1930×997		
	Door entrance limit (≥mm)	740			780			997		
	Cooling type	Direct			Direct			Direct		
<u> </u>	Defrost	Manual			Manual			Manual		
_	Refrigerant	Hydrocar	hon das		Hydrocark	ากก ตลร		Hydrocarb	on das	
_	Number of compressor	1	borr gas		2	5011 gu3		2	7011 gus	
	Controller	TC-300			TC-300			TC-300		
	Display		uch screen			uch screen		7" LCD tou	ıch screen	
display —	Password protection	•	4011 001 0011		•	acii aci ccii		•		
-,	Temperature display accuracy	0.1			0.1			0.1		
	Power supply (V/Hz)	220/50	220/60	120/60	220/50	220/60	120/60	220/50	220/60	120/60
Power ⊢	Rated power (W)	480	480	540	900	850	780	980	900	820
_	Rated Current (A)	2.8	2.8	6.7	7.0	5.0	8.8	7.2	5.8	9.0
	USB port	•	2.0	0.7	• 7.0	3.0	0.0	•	3.0	3.0
Data memory	Cloud monitoring (Wi-Fi)	CryoMonitor 2000TF		O CryoMonitor 2000TF		o CryoMonitor 2000TF				
- Indiatoning	Chart recorder/ data logger	O CIYON	10111101 200	011	0		0 Cryolvioriitor 200011			
	Visible/audible alarm	•			•					
	High/Low temperature	•			•		•			
-	Hot condensor	•			•		•			
	Power failure	•			•		•			
Jarm	Sensor failure	•					•			
unctions	High ambient temperature	•			•		•			
<u> </u>	Door open	NO			•		•			
	Remote alarm contact	•			•		•			
	Inner door	N/A						2		
-	Casters	•			2					
-					Ф 20	. 2		Φ 20mm x	. ว	
	Test access port Adjustable shelves	Φ20mm N/A	x		Φ20mm >	Χ Ζ		N/A		
_	Safety door lock	•			•			•		
\	Pressure equalization port	Manual				-				
	Freezer rack	O			Auto x1& manual x1		Auto x 1 & manual x 1			
	Rack type (LxH)				0			0 1x13		
-	Rack Qty	1x8 12			1x10			45		
	CO2/LN2 backup system	0			36 O			0		
	Exterior		aatad ataal						atad staal	
-	Interior		oated steel		Powder coated steel			Powder coated steel		
		Stainless			Stainless steel			Stainless steel		
-	Insulation	Polyureth	aile		Polyuretha	arie		Polyuretha	iiie	
	Vacuum insulation panel (VIP)				•			•		
H	Cabinet insulation thickness (mm)	90			90			90		
	Outer door thickness (mm)	90			90			90		
Chinnin	Gross weight (KGs)	116	4400		278			318		
··· -	Packing W×D×H (mm)	930×780	×1160		2010×880)×1030		2010×1095	o×1165	
	Volume (m³)	0.84			1.82			2.56		

CO₂ Back-up System

BS-1 is to ensure optimal security for critical samples stored in Ultra-Low Temperature Freezers. It controls injection of CO₂ into freezer when freezer temperature rises above the preset temperature value. It also reminds users to fill or replace their CO₂ cylinders when pressure is low.





ADVANTAGE

- Compact design, small footprint, can be placed on freezer top
- Temperature display, setting temperature adjustable by user
- $^{\bullet}$ Unique low CO2 alarm, reminding user to change CO2 cylinder in time
- USA-made ASCO brand ultra-low temperature electromagnetic valve

RELIABILITY

- Stainless steel construction, rust-free, easy cleaning
- Hose & injection tube with sponge cover for insulation
- Rechargeable battery for 48 hours working time

SAFETY

- Valve test button to check whether electromagnetic valve works normally
- High/Low temperature alarm, low battery alarm, low CO₂ alarm
- Stop injection of CO₂ when door opens, protecting user from being injured by liquid CO₂ (need to be connected with ULT freezer door switch).

CO₂ Back-up System

	Model	BS-1
	Climate Class	N
Basic	Cooling Type	Direct Cooling
	Refrigerant	Liquid CO₂
Performance	Cooling Performance (°C)	-70
Periormance	Temperature Range (°C)	-40^-70
	Controller	Thermostat
Control	Display	LED
	Temperature Increment (°C)	1
	Power Supply	AC 100°240V, 50/60Hz
Electrical	Power (W)	20
	Electrical Current (A)	0.25
	Nat/Crass Maint	11.2/13.6kg
	Net/Gross Weight	24.7/30lbs
Weight	F 1 D'	200×400×160 (mm)
& Dimension	Exterior Dimension (W*D*H)	7.8×15.7×6.3 (in)
Jimension	Packing Dimension (W*D*H)	370×530×330 (mm)
	Facking Dimension (W D H)	14.6×20.9×13 (in)
	High/Low Temperature Alarm	•
	Low Liquid CO ₂ Alarm	•
	Low Battery Alarm	•
	Sensor Failure Alarm	•
Functions	Main Power Failure Alarm	•
	Valve Open Indicator Light	•
	Main Power On Indicator Light	•
	Valve Test Button	•
Accessories	*Hose (connecting backup system & CO ₂ cylinder)	3 meter
ACCESSUITES	Injection Tube (connecting backup system & freezer)	2 meter



^{*}The specification of the joint connected to the CO_2 cylinder is G 5/8 $^{\prime\prime}$

LN₂ Back-up System

BS-II is to ensure optimal security for critical samples stored in ultra low temperature freezers. It controls injection of LN_2 into freezer when freezer temperature rises above the preset temperature value.





ADVANTAGE

- Compact design, small footprint, can be placed on freezer top
- Temperature display, setting temperature adjustable by user
- USA-made ASCO brand ultra-low temperature electromagnetic valve

RELIABILITY

- Stainless steel construction, rust-free, easy cleaning
- Hose & injection tube with sponge cover for insulation
- Rechargeable battery for 48 hours working time

SAFETY

- Valve test button to check whether electromagnetic valve works normally
- High/Low temperature alarm, low battery alarm
- Stop injection of LN2 when door opens, protecting user from being injured by liquid LN2 (need to be connected with ULT freezer door switch).

LN 2 Back-up System

	Model	BS-II
	Climate Class	N
Basic	Cooling Type	Direct Cooling
	Refrigerant	LN ₂
Performance	Cooling Performance (°C)	-99
Performance	Temperature Range (°C)	-60~-99
	Controller	Thermostat
Control	Display	LED
	Temperature Increment (°C)	1
	Power Supply	AC 100~240V, 50/60Hz
Electrical	Power (W)	20
	Electrical Current (A)	0.25
	No VC or or Maria lat	11.2/13.6kg
	Net/Gross Weight	24.7/30lbs
Weight	E I D'	200×400×160 (mm)
& Dimension	Exterior Dimension (W*D*H)	7.8×15.7×6.3 (in)
Dimension	Packing Dimension (W*D*H)	370×530×330 (mm)
	Facking Dimension (W D H)	14.6×20.9×13 (in)
	High/Low Temperature Alarm	•
	Low Liquid LN₂ Alarm	N/A
	Low Battery Alarm	•
	Sensor Failure Alarm	•
Functions	Main Power Failure Alarm	•
	Valve Open Indicator Light	•
	Main Power On Indicator Light	•
	Valve Test Button	•
Accessories	*Hose (connecting backup system & LN2 cylinder)	3 meter
Accessories	Injection Tube (connecting backup system & freezer)	2 meter





-150°C Cryogenic Freezer

The -150 °C cryo freezer provides a safe, convenient and economical alternative for long term storage for a variety of biological specimens at cryogenic temperature (below -135°C).

Compared with liquid nitrogen containers, there is no need to supply liquid nitrogen for mechanical freezers. It is easier to use and contamination risk caused by liquid nitrogen is avoided.

ANTECH adopted innovative 2-compressor cascade cooling system for its cryogenic freezers, realizing lower power consumption, faster cooling rate and lower noise level.

















LOW CO2 EMISSIONS

NATURAL REFRIGERANT

CFC /HCFC T FREE

HIGH/LOW TEMPERATURE ALARM

POWER FAILURE ALARM

COOLING

SAFETY DOOR LOCK

PERFORMANCE

- Optimized cooling system & high efficiency hydrocarbon refrigerant.
- SECOP brand compressor & EBM brand blower.
- High density polyurethane forming for insulation.

ALARMS

- High temperature
- Low temperature
- Power failure
- Sensor error

ERGONOMIC DESIGN

- Forming inner doors for better insulation and less frost
- SUS304 interior for easy cleaning
- Ultra-quite design reduces noise level
- Optional slim rack for convenient operation

SAFETY

- Safety door lock, preventing unauthorized access
- Access port for additional temperature probe
- Optional online monitoring system
- Optional CO2/LN2 backup system

ENVIRONMENT FRIENDLY

- Natural refrigerant compliant with EPA and SNAP non-ozone depleting mandates
- CFC-Free polyurethane foaming insulation
- High efficiency cooling system for lower energy consumption and less carbon emission

-150°C

Cryo Freezer





	Model	MDF-150C118			MDF-150C208
	Туре	Chest			Chest
	Cooling technology	2-compressor ca	asade system		2-compressor casade system
	Temperature setting range (°C)	-125~-150			-125~-150
	Climate type	N			N
	Capacity (L)	118			258
	2" box storage Qty (Pcs)	54			165
	Net weight (KGs)	165			280
Main specifications	Internal W×D×H (mm)	540×400×560			780x500x660
.,	External W×D×H (mm)	1275×795×990			1510x885x1095
	Door entrance limit (≥mm)	780			885
	Cooling type	Direct			Direct
	Defrost	Manual			Manual
	Number of compressor	2			2
	Controller	Microprocessor			Microprocessor
Control & display system	Display	LED			LED
display system	Temperature display accuracy	0.1			0.1
Power	Power supply (V/Hz)	220/50	220/60	120/60	220/50
Tower	Rated power (W)	1800	1800	1800	2450
	Rated current (A)	10.0	10.0	19.8	5.0
	Visible/audible alarm	•			•
Alarm	High/Low temperature	•			•
functions	Power failure	•			•
	Sensor failure	•			•
Monitoring	Cloud monitoring (Wi-Fi)	O CryoMonitor 2	2000TF		O CryoMonitor 2000TF
	Inner door	1			2
	Casters	6			6
	Test access port	Ф20mm x1			Ф 20mm x 1
Accessories	Safety door lock	•			•
Accessories	Freezer rack	0			0
	Rack model	CFC-9-2, 1×9			CFC-11-2, 1×11
	Rack Qty	6			15
	LN2 backup system	0			0
	Exterior	Pre-coated stee	I		Pre-coated steel
	Interior	SUS304			SUS304
Matarial	Insulation	Polyurethane			Polyurethane
Material	Cabinet insulation thickness (mm)	150mm			150mm
	Outer door thickness (mm)	105mm			105mm
	Compressor brand	SECOP			SECOP
	Gross weight (KGs)	208			292
Shipping	Packing W×D×H (mm)	1340×860×1140			1570×960×1230
	Volume (m³)	1.31			1.85
•	•				•

Racks for Antech Freezers

Model	Rack type (boxes each	Rack model		Racks per	2" box storage	Maximum 2ml vail capacity	
Model	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Sliding drawer	Side access	freezer	capacity		
MDF-86U108	3x5	VFD-352	VFF-352	4	60	6,000	
MDF-86U158	3x4	VFD-342	VFF-342	9	108	10,800	
MDF-86U340T	4x4	VFD-442	VFF-442	12	192	19,200	
MDF-86U458T/458D	4x5 & 4x4	VFD-452&VFD-442	VFF-452&VFF-442	8+8	288	28,800	
MDF-86U588T/588D	5x5	VFD-552	VFF-552	16	400	40,000	
MDF-86U728T/728D	4x5 & 4x6	VFD-452&VFD-462	VFF-452&VFF-462	18+6	504	50,400	
MDF-86U838T/838D	5x5	VFD-552	VFF-552	24	600	60,000	
MDF-86C118	1x8	N/A	CFC-8-2	12	96	9,600	
MDF-86C458	1x10	N/A	CFC-10-2	36	360	36,000	
MDF-86C728	1x13	N/A	CFC-13-2	45	585	58,500	
MDF-150C118	1x8	N/A	CFC-9-2	6	54	5,400	
MDF-150C208	1×11	N/A	CFC-11-2	15	165	16,500	

Vertical Racks with Spring Clip for 2" Boxes







- Spring clips for easy operation and prevent box drop.
- Dual large handles at top for easy handling.
- Label holders for easy identification.
- Constructed of high-grade corrosion resistant stainless steel.
- Precision craftsmanship & no sharp edges.

Vertical Racks for 2" Boxes		
Item#	Description / Capacity	H x W x D, mm
CFC-7-2	7 Boxes	432 x 140 x 140
CFC-8-2	8 Boxes	488 × 140 × 140
CFC-9-2	9 Boxes	544 × 140 × 140
CFC-10-2	10 Boxes	600 x 140 x 140
CFC-11-2	11 Boxes	656 x 140 x 140
CFC-12-2	12 Boxes	712 × 140 × 140
CFC-13-2	13 Boxes	768 × 140 × 140
CFC-14-2	14 Boxes	824 × 140 × 140
CFC-15-2	15 Boxes	880 x 140 x 140
CFC-16-2	16 Boxes	936 x 140 x 140

Note: including handle height 40mm.

Sliding Drawer Freezer Racks for 2" & 3" Boxes





- Handle at each drawer for easy handling.
- Label holder at each drawer for easy identification.
- Constructed of high-grade corrosion resistant stainless steel.
- Precision craftsmanship & no sharp edges.

For 2" Freezer Boxes		
Item#	Boxes per layer x Layers	L x H x W, mm
VFD-332	3 x 3 Rack/ for 9 boxes	424 x 177 x 140
VFD-342	3 x 4 Rack/ for 12 boxes	424 x 236 x 140
VFD-352	3 x 5 Rack/ for 15 boxes	424 x 295 x 140
VFD-432	4 x 3 Rack/ for 12 boxes	557 x 177 x 140
VFD-442	4 x 4 Rack/ for 16 boxes	557 x 236 x 140
VFD-452	4 x 5 Rack/ for 20 boxes	557 x 295 x 140
VFD-462	4 x 6 Rack/ for 24 boxes	557 x 354 x 140
VFD-542	5 x 4 Rack/ for 20 boxes	690 x 236 x 140
VFD-552	5 x 5 Rack/ for 25 boxes	690 x 295 x 140
VFD-652	6 x 5 Rack/ for 30 boxes	823 x 295 x 140

For 3.75" Freezer Boxes		
Item#	Boxes per layer x Layers	L x H x W, mm
VFD-323	3 x 2 Rack/ for 6 boxes	424 × 202 × 140
VFD-333	3 x 3 Rack/ for 9 boxes	424 x 303 x 140
VFD-423	4 x 2 Rack/ for 8 boxes	557 x 202 x 140
VFD-433	4 x 3 Rack/ for 12 boxes	557 x 303 x 140
VFD-443	4 x 4 Rack/ for 16 boxes	557 x 404 x 140
VFD-453	4 x 5 Rack/ for 20 boxes	557 × 505 × 140
VFD-523	5 x 2 Rack/ for 10 boxes	690 x 202 x 140
VFD-533	5 x 3 Rack/ for 15 boxes	690 x 303 x 140
		1

Side Access Freezer (Frame Type) Racks for 2" & 3" Boxes





- Large handles for easy handling.
- ▶ Label holders for easy identification.
- Constructed of high-grade corrosion resistant stainless steel.
- Precision craftsmanship & no sharp edges.

For 2" Freezer Boxes				
Item#	Boxes per layer x Layers	L×H×W, mm		
VFF-332	3 x 3 Rack/ for 9 boxes	424 x 177 x 140		
VFF-342	3 x 4 Rack/ for 12 boxes	424 x 236 x 140		
VFF-352	3 x 5 Rack/ for 15 boxes	424 x 295 x 140		
VFF-432	4 x 3 Rack/ for 12 boxes	557 x 177 x 140		
VFF-442	4 x 4 Rack/ for 16 boxes	557 x 236 x 140		
VFF-452	4 x 5 Rack/ for 20 boxes	557 x 295 x 140		
VFF-462	4 x 6 Rack/ for 24 boxes	557 x 354 x 140		
VFF-472	VFF-472 4 x 7 Rack/ for 28 boxes			
VFF-542	VFF-542 5 x 4 Rack/ for 20 boxes			
VFF-552	5 x 5 Rack/ for 25 boxes	690 x 295 x 140		
VFF-652 6 x 5 Rack/ for 30 boxes		823 x 295 x 140		

For 3.75" Freezer Boxes				
Item#	Boxes per layer x Layers	L×H×W, mm		
VFF-323	3 x 2 Rack/ for 6 boxes	424 × 202 × 140		
VFF-333	3 x 3 Rack/ for 9 boxes	424 × 303 × 140		
VFF-423	4 x 2 Rack/ for 8 boxes	557 x 202 x 140		
VFF-433	4 x 3 Rack/ for 12 boxes	557 x 303 x 140		
VFF-443	4 x 4 Rack/ for 16 boxes	557 × 404 × 140		
VFF-453 4 x 5 Rack/ for 20 boxes		557 x 505 x 140		
VFF-523	5 x 2 Rack/ for 10 boxes	690 x 202 x 140		
VFF-533	5 x 3 Rack/ for 15 boxes	690 x 303 x 140		

-86°C Portable ULT Freezer

CryoExpress ONE

Antech CryoExpress series ultra low temperature portable freezer is compact in size, light in weight, and powerful in cooling.

Taking advantages of advanced Stirling cooling technology, CryoExpress series offer wide range accurate temperature control, from ambient temperature to -86°C ultra low temperature, which can be used for transportation of biological sample, vaccine, pharmacy, etc.

The portable freezer can be powered with 12~24V DC on a moving vehicle or vessel. Since a built-in lithium battery is supplied, it even works for certain time without any external power supply, so that the positive cooling continues from vehicle to freezer at destination.



Touch screen controller



- Set temperature
- Inner cabin temperature
- Ambient temperature
- Temperature graph
- Running time
- Battery status
- Door lock status
- Settings
- Network status
- Power button

Specification

	Model	CryoExpress ONE
	Temperature range	-86°C to 8°C @ 25°C ambient
	Climate type	SN/N
Performance	Cooling system	Free-piston Stirling engine cooler
	Controller	Touch screen
	Door lock	NFC electric lock & manual lock
	Data memory	Temperature record & USB port
	Insulation	Vacuum insulation panel & polyurethane foam
	Capacity	1 Liter
Capacity	2ml vials capacity	100 pcs (81/100-place cryogenic box)
& size	External dimensions, W x D x H	270 x 311 x 450mm
	Internal dimensions, W x D x H	150 x 134 x 55mm
	Net weight	13.5kg
Power	Power supply	DC 12~30V; AC 100~240V, 50/60Hz
	Rated power	80W
	Power cord	AC adapter & power cord, DC power cord
	Backup battery (standard)	Built-in lithium battery, 1-hour working time
	Backup battery (optional)	External lithium battery, 4-hour working time



Qingdao Antech Scientific Co., Ltd.

Tel: +86 532 87890321

 ${\bf Email: in fo@antech scientific.com}$

Web: www.antechscientific.com



