

Taisite



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CONTENTS

ULT FREEZER

-86°C Cascade System----- 1

BIOMEDICAL FREEZER

-40°C Medical Freezer----- 7

-25°C Medical Freezer----- 11

BLOOD BANK REFRIGERATOR

4°C Blood Bank Refrigerator----- 14

PHARMACY REFRIGERATOR

2~8°C Pharmacy Refrigerator----- 17



-86°C Cascade System



DF-86V728



DF-86V408



DF-86V838



DF-86V588



FILED PROVEN RELIABILITY

- Unique insulated inner door design for four separate storage compartments to minimize frost buildup inside the chamber.
- Specialized control system design for a well-balanced operation of cascade refrigeration system.
- Positive filed proven reliability record.



ENERGY SAVING

- Unique door seal design for the minimum loss of cold temperature during a door opening.
- High performance VIP insulation panels to minimize cabinet heat gain and to improve temperature stability.
- HC Refrigerant with better efficiency & less energy cost, good for environment.



SAFETY

- Malfunction alarms including high and low temperature, power failure, sensor error, clean-filter, and extremely high ambient, abnormal voltage, thermostat failure, low battery, condenser clean, door ajar.
- Capable of producing two types of alarm outputs, audible buzzer and visible flashing light.
- Door open feature standard and USB port for temperature data downloading standard on upright models.
- Remote alarm contacts.



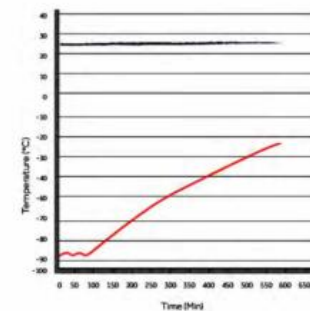
KEY DESIGN FEATURES

- Microprocessor-controlled system designed for controlled range of -40°C to -86°C for cabinet space with 1°C increment
- Settable high temperature and low temperature alarms.
- Automatic clean-filter alarm and sensor error alert.
- Adjustable storage shelf height
- Optional temperature recorder, storage racks and storage box

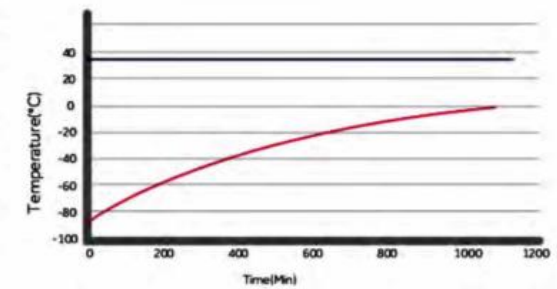


INSTALLATION AND APPLICATION

- Wide range operating voltage system from 187V to 242V designed to allow units installed in areas with poor voltage condition
- Suitable for 10°C to 32°C ambient temperature



Pull-up test at 25°C ambient
MDF-86V728

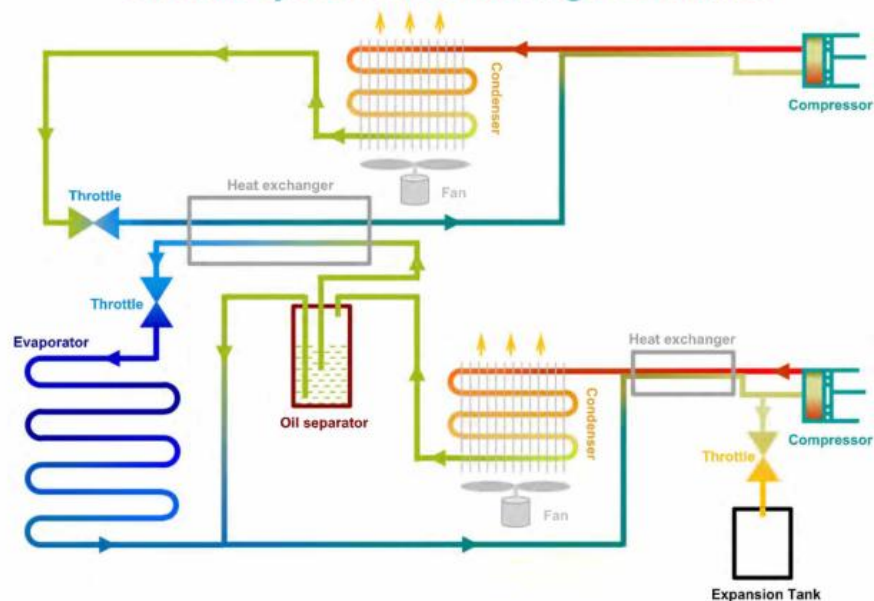


Pull-up test at 32°C ambient
MDF-86V728

-86°C

-86°C

Cascade System Heat Exchange Circulation



--7 Inches Touch Screen

& Functions



Alarm	Alarm Triggering Condition
High Temperature	Temperature reaches the warm alarm limit
Low Temperature	Temperature reaches the low alarm limit
Power Failure	Equipment loses power
Door Ajar	Door open period exceeds 5 mins
Probe Failure	1. Main cabinet temperature control sensor fails 2. Condenser sensor fails 3. Ambient sensor fails 4. Heat exchanger sensor fails 5. Heat exchanger temperature fails
Low Battery	Battery capacity runs low or battery switch is not turned on
Hot Condenser	1. Condensers filter element is clogged 2. Ambient temperature is too high
High Ambient Temperature	Ambient temperature exceeds 32°C
Other alarms	1. Thermostat failure 2. Abnorml voltage alarm

-86°C

-86°C



	Model	DF-86V338	DF-86V408	DF-86V588	DF-86V728	DF-86V838
Specifications	Shelf/drawer QTY	Stainless steel shelf/3				
	Cooling	Direct cooling				
	Defrost	Manual				
	Refrigerant	HC				
	Power Consumption(kwh/24)	12.8	11.6	12	15.4	15
	Noise(db)	50	50	53	53	53
	Ambient temp.(°C)	10~32 °C				
	Temp. range(°C)	-40~-86 °C				
Cooling system	Compressor brand/QTY	SECOP/2				
	Sensor	PTC				
	Temp. controller	Microprocessor				
	Display	LCD display				
Power	Voltage/frequency(V/Hz)	220V/50Hz				
	Power(W)	870	845	815	935	890
	Current(A)	6.75	7	7	7	7
Material	Inside material	Stainless steel				
	Outside material	Color sprayed steel				
	Insulation	PURF				
Size	Capacity(L/cu.ft)	338/11.93	408/14.40	588/20.76	728/25.70	838/29.59
	NT./GT.(Kg)	250/305	292/317	307/368	360/401.5	397/430
	Exterior size (W*D*H mm)	880*980*1940	900*940*1940	880*1080*2000	1260*890*2010	1190*1045*2010
	Interior size (W*D*H mm)	488*607*1140	606*575*1180	606*738*1310	963*558*1350	894*718*1310
	Package size (W*D*H mm)	940*1070*2130	955*960*2100	975*1140*2200	1320*970*2190	1270*1105*2220
	CBM	2.14	1.93	2.45	2.8	3.12
	20GP/40GP/40HQ	12/24/24	12/24/24	12/24/24	8/18/18	8/18/18
	Frozen Racks	12(4*4)	16(5*4,4*4)	16(5*5)	18(5*4)+6(6*4)	24(5*5)
	Boxes(2 inches)	192	288	400	504	600
	Samples(2ml)	19200	28800	40000	50400	60000
Alarm	High/low temp.	Y	Y	Y	Y	Y
	Power failure	Y	Y	Y	Y	Y
	Abnormal voltage	Y	Y	Y	Y	Y
	Sensor error	Y	Y	Y	Y	Y
	Filter screen check	Y	Y	Y	Y	Y
	Thermostat failure	Y	Y	Y	Y	Y
	Low battery	Y	Y	Y	Y	Y
	Condenser clean	Y	Y	Y	Y	Y
	High ambient temp.	Y	Y	Y	Y	Y
	Door ajar	Y	Y	Y	Y	Y
Optional	Castor	Y	Y	Y	Y	Y
	Inside door	2	2	2	2	2
	Test hole QTY/diameter	2/25mm	1/25mm	1/25mm	1/25mm	1/25mm
	USB port	Y	Y	Y	Y	Y
	Chart recorder	Optional				
	Data logger	Optional				
	Power failure backup system (alarm)	72h				
	Remote alarm port	Y	Y	Y	Y	Y
	CO2 back up system	Optional				
	LN2 back up system	Optional				
Other	Certification	ISO,CE				

-40°C

-40°C

-40°C Medical Freezer



DF-40V268E



DF-40V278W



DF-40V328E



KEY FEATURES

- Microprocessor control, adjustable temperature range: 20°C to -40°C
- LED digital display and increment at 0.1°C
- Permanently lubricated cooling fan for safety and longevity
- Independent inner door to avoid more cooling leaking out, and provide more stable inside temperature performance
- High density CFC-Free urethane foam insulation.



RELIABILITY

- Chemically stable, CFC-free, commercially available and environmentally safe refrigerant.
- Optimized refrigeration system designed to maximize cooling effect and temperature uniformity
- Microprocessor control, digital display, adjustable temperature range: -20°C~-40°C
- LED digital display for clear observation,



ELECTRIC CONTROL

- Wide voltage tolerance design with applicable voltage range of 187-242V/AC



ERGONOMIC DESIGN

- USB data logging and temperature recorder (optional).
- Build-in lock with safety and beauty
- Lockable caster design for customer to move as needed



SAFETY

- Multiple malfunction alarms to detect high and low temperature, sensor error, power off, temperature controller malfunction, door ajar.
- Two types of alarm indications: audible buzzing and visual flashing light.
- Corrosion proof cabinet interior design
- Power failure protect: the device would be attack by the high current when all devices restart simultaneously, the start-delay function would protect device from the damage



DF-40V278W

Digital temperature control and display



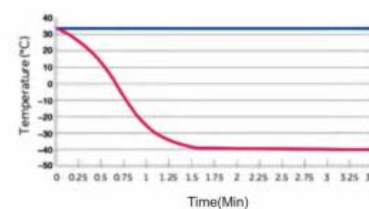
Build-in lock with safety and beauty



Build-in handle for easy opening



Inner 7 drawers



Pull-down test at 32°C ambient



-40°C Medical Chest Freezer



DF-40H485



DF-40H105



KEY FEATURES

- Chemically stable, CFC -free, commercially available and environmentally safe refrigerant.
- Microprocessor control, adjustable temperature range: -20°C to -40°C
- LED digital display and increment at 0.1°C
- Permanently lubricated cooling fan for safety and longevity .
- Wide voltage band for 187V~242V



CHARACTERISTIC FUNCTION

- Door lock design to avoid abnormal door open
- Big screen for easy observation
- Standard testing hole



SAFETY

- Multiple malfunction alarms to detect high and low temperature , sensor error, power failure, temperature controller malfunction
- Two types of alarm indications: audible buzzing and visual flashing light.



STRUCTURAL DESIGN

- Wide voltage band for 187V~242V



RELIABILITY

- HIGH DENSITY CFC-FREE URETHANE FOAM INSULATION.
- Standard with 25mm test hole
- Power failure protect: the device would be attack by the high current when all devices restart simultaneously, the start-delay function would protect device from the damage

	Model	DF-40V278W	DF-40V268E	DF-40V328E	DF-40H105	DF-40H485
Specifications	Shelf/drawer QTY	Drawer/7	Shelves	Shelves	/	/
	Cooling method	Direct cooling				
	Defrost	Manual				
	Refrigerant	R290				
	Power Consumption(kwh/24h)	3	4	4	1.65	3.45
	Noise(db)	50	48	48	50	55
	Ambient temp.(°C)	10~32°C				
	Temp. range(°C)	-30~-40°C	-30~-40°C	-30~-40°C	-10~-40°C	-20~-40°C
Cooling system	Compressor brand/QTY	CUBIGEL/1				
	Condensor	Inside foaming	Wire tube	Wire tube	Wire tube	Wire tube
	Sensor	NTC				
	Temp. controller	Microprocessor				
	Display	Digital display				
Power	Voltage/frequency(V/Hz)	220V/50Hz				
	Power(W)	185	300	300	160	295
	Current(A)	1.6	1.6	1.6	1.15	2.45
Material	Inside material	Color sprayed steel	Color sprayed steel	Color sprayed steel	Stainless steel	Stainless steel
	Outside material	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel
	Insulation	PURF				
Size	Capacity(L/cu.ft)	278/9.81	268/9.46	328/11.58	105/3.7	485/17.12
	NT/GT.(Kg)	79/104.5	98.5/118	110.3/132	52/64.5	108/135
	Exterior size (W*D*H mm)	670*640*1695	690*680*1635	685*670*1900	685*645*930	1670*810*930
	Interior size (W*D*H mm)	480*415*1460	508*455*1137	508*455*1393	480*380*665	1455*525*665
	Package size (W*D*H mm)	725*665*1850	760*760*1750	750*760*2030	750*700*1040	1775*880*1060
	CBM	0.89	1.01	1.16	0.55	1.66
	20GP/40GP/40HQ	24/54/54	21/45/45	21/48/48	24/51/51	6/13/13
	Door ajar	Y	Y	Y	Y	Y
Alarm	High/low temp.	Y	Y	Y	Y	Y
	Power failure	/	Y	Y	Y	Y
	Sensor error	Y	Y	Y	Y	Y
	Filter screen check	/	/	/	/	/
	Temp.controller failure	Y	Y	Y	Y	Y
	Low battery	/	/	/	/	/
	Condenser clean	/	/	/	/	/
	High ambient temp.	/	/	/	/	/
	Door ajar	Y	Y	Y	Y	Y
	Foot	/	/	/	/	/
Optional	Castor	/	Y	Y	Y	Y
	Inside door	7 Drawer	Y	Y	/	/
	Test hole QTY/diameter	/	Optional	Optional	1/25mm	1
	USB port	/	/	/	/	/
	Power failure backup system (alarm)	8h	8h	8h	/	/
	Remote alarm port	/	Y	Y	/	/
	Other	Certification				
		ISO9001,13485,14001,CE				

-25°C Medical Freezer



DF-25V328E



DF-25V268E



DF-25V278W



RELIABILITY

- Chemically stable, CFC-free, commercially available and environmentally safe refrigerant.
- High density CFC-Free urethane foam insulation for rigidity and stable storage temperature.
- Microprocessor control, digital display adjustable temperature range: -10°C~25°C.
- LED digital display for clear observation.



NEW RELEASE

- MDF-25V368RF/MDF-40V368RF Temperature range: Refrigerator Room: 2°C~8°C
- Freezer Room: -10°C~25°C / -20°C~40°C
- 2 Independent temperature display, 2 Independent door: heated foam glass door + foamed door
- 3 shelves in refrigerator room; 6 drawers in freezer room.



SAFETY

- Multiple malfunction alarms including high and low temperature, sensor error, power off, temperature controller malfunction, door ajar.
- Two types of alarm indications: audible buzzing and visible flashing light.
- Power failure protect: the device would be attack by the high current when all devices restart simultaneously, the start-delay function would protect device from the damage
- Controller password protect function to avoid change running parameter randomly



KEY FEATURES

- Independent inner door to avoid more cooling leaking out, and provide more stable inside temperature performance
- Upright side door with built-in handle for easy-opening; limit door hinge to prevent collision when door open
- Lockable caster design for customer to move as needed
- Wide voltage tolerance design with applicable voltage range of 187~242 V/AC.

High-end professional controller with full function

Build-in temperature probe

Independent inner door to avoid more cooling leaking out, and provide more stable inside temperature performance

Wighuniversal casters, mobile more convenient

Directional casters

Pull down test at 25°C ambient

Time(H)	Temperature(°C)
0	25
0.09	20
0.78	15
1.17	12
1.56	10
1.95	8
2.34	6
2.73	5
3.12	4
3.51	3
3.90	2

-25°C

4°C

-25°C Medical Freezer

	Model	DF-25V278W	DF-25V268E	DF-25V328E	DF-25H105	DF-25H485
Specifications	Shelf (drawer)	Shelves	Shelves	Shelves	/	/
	Cooling method	Direct cooling				
	Defrost	Manual				
	Refrigerant	R290		HC-R290		
	Power Consumption(kwh/24h)	1.5	3	3	1.59	3.45
	Noise(db)	46	46	46	46	55
	Ambient temp.(°C)	10~32°C				
Cooling system	Temp. range(°C)	-10~-25°C	-10~-25°C	-10~-25°C	-10~-25°C	-10~-25°C
	Compressor brand/QTY	DONPERN/1	CUBIGELN/1	CUBIGELN/1	DONPERN/1	CUBIGELN/1
	Sensor	NTC				
	Temp. controller	Microprocessor				
Power	Display	Digital display				
	Voltage/frequency(V/Hz)	220V/50Hz				
	Power(W)	180	180	180	174	295
Material	Current(A)	1.5	1.4	1.4	1.48	2.45
	Inside material	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Stainless steel
	Outside material	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel
Size	Insulation	PUF				
	Capacity(L/cu.ft)	278/9.81	268/9.46	328/11.58	105/3.7	485/17.12
	NT./GT.(Kg)	85/101	93.5/113.5	104/125	41.8/54	124/138
	Exterior size (W*D*H mm)	670*640*1695	690*680*1635	690*680*1900	615*570*880	1655*755*915
	Interior size (W*D*H mm)	480*415*1460	508*455*1137	508*455*1393	480*380*665	1455*525*665
	Package size (W*D*H mm)	730*670*1850	760*760*1750	750*760*2030	675*625*1000	1710*885*1020
	CBM	0.9	1.01	1.16	0.42	1.54
Alarm	20GP/40GP/40HQ	24/51/51	21/45/45	21/48/48	27/57/57	
	High/low temp.	Y	Y	Y	Y	Y
	Power off	/	Y	Y	Y	Y
	Sensor malfunction	Y	Y	Y	Y	Y
	Ambient temp.(°C)	/	/	/	/	
	Abnormal voltage	/	/	/	/	
	Temp.controller malfunction	Y	Y	Y	Y	Y
Accessories	Door ajar	Y	Y	Y	/	/
	Caster	/	Y	Y	Y	Y
	Test hole	/	Optional	Optional	1/25mm	Optional
	USB port	/	/	/	/	
	Data logger	/	/	/	/	
Other	Remote alarm	/	Y	Y	/	/
	Certification	ISO9001,CE				

4°C Blood Bank Refrigerator



BC-4V108



BC-4V208



BC-4V658



BC-4V1008



PURPOSE

- Professional refrigerator to store blood, as well as medicines and bio products
- Suitable for blood banks, hospitals, CDCs



ERGONOMIC DESIGN

- Safety lock to prevent unauthorized access.
- Storage space designed for easy sorting of a variety of blood products.
- Caster design and interior light.



RELIABILITY AND KEY FEATURES

- Microprocessor controlled forced-air cooling with electrical heat compensation system.
- Digital temperature display for upper and lower sections in chamber with 0.1°C resolution.
- Consistent cabinet temperature 2-6°C
- High-tech integrated sensors to display and control temperature.
- Auto-defrost to remove moisture on cooling surface.
- Large digital display for ease of observation.



SAFETY

- Build-in backup battery to display temperature and to operate audible and visual alarm systems for up to 72 hours without ac power.
- Equipped with a complete temperature alarm system featuring audible buzzer and visible flashing light.
- Five alarm conditions : High/low temperature, power failure, voltage abnormal, door ajar, backup battery
- Standard with laser printer
- Standard with acrylic inner small door, for less affection on other room when one door open.



4°C Blood Bank Refrigerator



Forced air cooling system keep inside temperature stable and uniform



Individual transparent inner door can be opened independently to minimize loss of cold temperature during a door opening



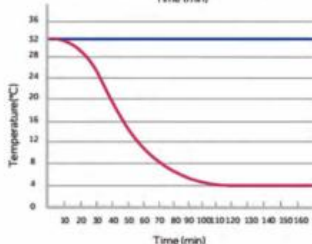
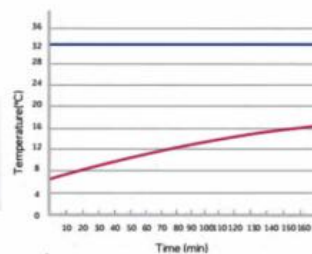
Exclusive patented temperature box design, reveal the real temperature of the blood in storage



Adjustable shelves, improve space utilization



Standard test hole



	Model	BC-4V108	BC-4V208	BC-4V658	BC-4V1008
Specification	Shelf/drawer	Shelves/2	Shelves/4	Shelves/12	Shelves/12
	Cooling	Forced-air cooling			
	Defrost	Auto			
	Refrigerant	R134a			
	Power Consumption(kwh/24h)	1.95	2.22	6.31	8.53
	Noise(db)	49.6dB(A)	51.2dB(A)	51.2dB(A)	53.6dB(A)
	Ambient temp.(℃)	10~32℃			
	Temp. range(℃)	4±1℃			
Cooling system	Compressor brand/QTY	Embraco/1		Secop/1	
	Sensor	NTC			
	Temp. controller	Microprocessor			
	Display	Digital display			
Power	Voltage/frequency(V/Hz)	220V/50Hz			
	Power(W)	160	200	364	513
	Current(A)	0.6	0.8	2.42	2.37
Material	Inside material	Stainless steel			
	Outside material	Color sprayed steel			
	Insulation	PURF			
Size	Capacity(L/cu.ft)	108/3.81	208/7.34	658/23.23	1008/35.59
	Bloodbags(450ml)	66	132	360	576
	NT./GT.(Kg)	50/55	67/75	165/195	256/286
	Exterior size (W*D*H mm)	522*600*1050	522*600*1550	1220*648*1885	122*878*1885
	Interior size (W*D*H mm)	432*462*478	432*462*978	1100*454*1325	1100*684*1325
	Package size (W*D*H mm)	572*685*1070	572*685*1570	1300*730*2080	1300*960*2080
Alarm	High/low temp.	Y	Y	Y	Y
	Power off	Y	Y	Y	Y
	Temp.controller malfunction	Y	Y	Y	Y
	Backup battery malfunction	Y	Y	Y	Y
	Ambient temp.(℃)	10~32℃			
	Backup battery alarm for power	72h			
Accessories	Caster	Y	Y	Y	Y
	Outer door/Type	1/Heating&Foam glass door		2/Heating&Foam glass door	
	Inner door	2	4	6	6
	Test hole	1/25mm			
	Thermal Printer	Y	Y	Y	Y
	Light	LED			
	Temp. recorder	Optional			
Other	Certifications	ISO9001,ISO13485,ISO14001			

2~8°C Pharmacy Refrigerator



PC-5V316

PC-5V656

PC-5V1006



ERGONOMIC DESIGN

- Optimized space utilization design with multi-level and adjustable shelf height to accommodate storage requirement of pharmaceutical products of various kinds.
- Safety lock to prevent unauthorized access
- Caster design and leveling legs
- LED Interior light.



FORCED AIR-COOLING SYSTEM

- Advanced forced cooling system to keep inside temperature stable and uniform. Finned evaporator with special cycle design of forced air cooling system to assure no-frost inside



CHARACTERISTIC FUNCTION

- Safety door lock design to avoid door ajar
- Big digital screen display for easy observation
- Optional testing hole
- Adjustable shelves
- Inner light design for a clear display



RELIABILITY AND KEY FEATURES

- High efficiency specialty compressor with known field reliability.
- Permanently lubricated cooling fan for safety and longevity.
- Forced-air cooling with optimized air distribution system designed.
- To achieve maximum temperature uniformity and stability.
- Optimized refrigeration system design for more effective cooling and Speedy recovery.
- Temperature variation within $\pm 3^\circ\text{C}$
- Adjustable temperature range $2\sim 8^\circ\text{C}$
- Microprocessor control, digital display, and temperature adjustment with an increment of 0.1°C
- Large digital display screen.



SAFETY

- Equipped with a complete temperature alarm system featuring audible buzzer and visible flashing light.
- Capable of alerting failures due to high and low temperature sensor error, door ajar, power failure and low battery.



Forced-air cooling with optimized air distribution system designed to achieve maximum temperature uniformity and stability. Bigger fans allow faster cooling



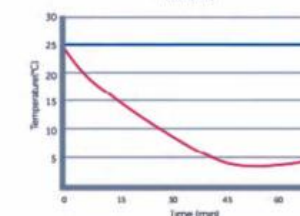
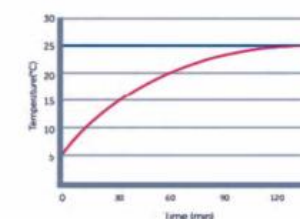
Microprocessor control, digital display, USB port temperature uniformity within 3 degree. Malfunction alarms include high/low temperature, door ajar, sensor error, power failure, low battery, remote alarm interface.



With standard glycerin box, the temperature display is more accurate

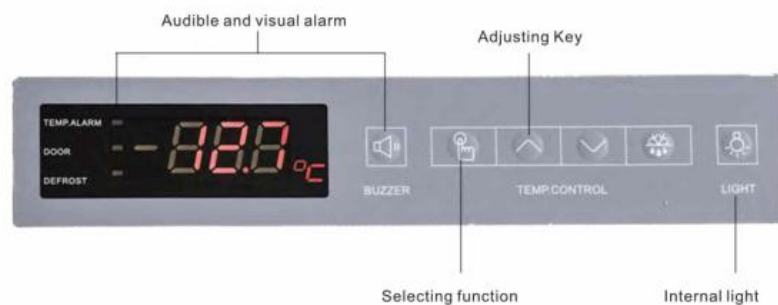


Heated double-pane glass door allows a clear display of stored products without condensation at 32 degree and 85 degree relative humidity condition.



2-8°C

2-8°C



Alarm	Alarm Triggering Condition
High Temperature	Temperature reaches the warm alarm limit
Low Temperature	Temperature reaches the low alarm limit
Power Failure	Equipment loses power
Door Ajar	Door open audible and visual alarm



	Model	PC-5V236	PC-5V316	PC-5V416	PC-5V656	PC-5V1006	PC-5V1500
Specifications	Shelf/drawer	Shelves/4	Shelves/5	Shelves/5	Shelves/10	Shelves/10	Shelves/12
	Cooling method						
	Defrost						
	Refrigerant	R134a	R600a	R600a	R600a	R600a	R134a
	Power Consumption(kwh/24h)	2.56	1.64	2.37	5.75	6.23	8
	Noise(db)	46	50	50	52	53	55
	Ambient temp.(°C)						
	Temp. range(°C)						
Controller	Sensor type						
	Temp. controller						
	Display						
Power	Voltage/frequency(V/Hz)						
	Power(W)	254	226	175	310	310	1110
	Current(A)	1.15	1.03	1.26	1.7	1.75	3.8
	Capacity(L/cu.ft)	236/8.33	316/11.15	416/14.69	656/23.16	1006/35.52	1500/52.97
Size	NT./GT.(Kg)	63/65	92.5/100	120/133	158/188	207/237	170/190
	Exterior size (W*D*H mm)	580*560*1785	640*582*1880	780*580*1920	1220*642*1885	1220*672*1885	1800*775*1965
	Interior size (W*D*H mm)	500*420*1090	540*425*1380	685*429*1380	1100*454*1325	1100*684*1325	/
	Package size (W*D*H mm)	730*675*1915	710*655*1960	880*640*2100	1335*715*2050	1330*940*1970	1910*855*2155
Alarm	High/low temp.	Y	Y	Y	Y	Y	Y
	Power failure	Y	Y	Y	Y	Y	Y
	Thermostat failure	Y	Y	Y	Y	Y	Y
	Door ajar	Y	Y	Y	Y	Y	Y
Accessories	Foot	Y	Y	Y	/	/	/
	Castor	Y	Y	Y	Y	Y	Y
	Out door/Type	1/Glass door	1/Glass /Low -E	1/Glass /Low -E	2/Heating glass door with automatic rebound	2/Heating glass door with automatic rebound	1/Glass door
	Door lock	1	1	1	2	2	3
	Test hole QTY/diameter	optional	1/25mm	1/25mm	1/25mm	1/25mm	optional
	Lamp						
	USB port				optional		/
	Temp. recorder				optional		
	Power failure backup system (alarm)				8h		
Other	Remote alarm port				optional		
	RS232/485 port				optional		
	Certifications	ISO9001/13485/14001,CE					