

# Covid-19 Vaccine Storage & transportation Solutions



**Exclusive authorized distributor for  
Patagonia Product Line.**

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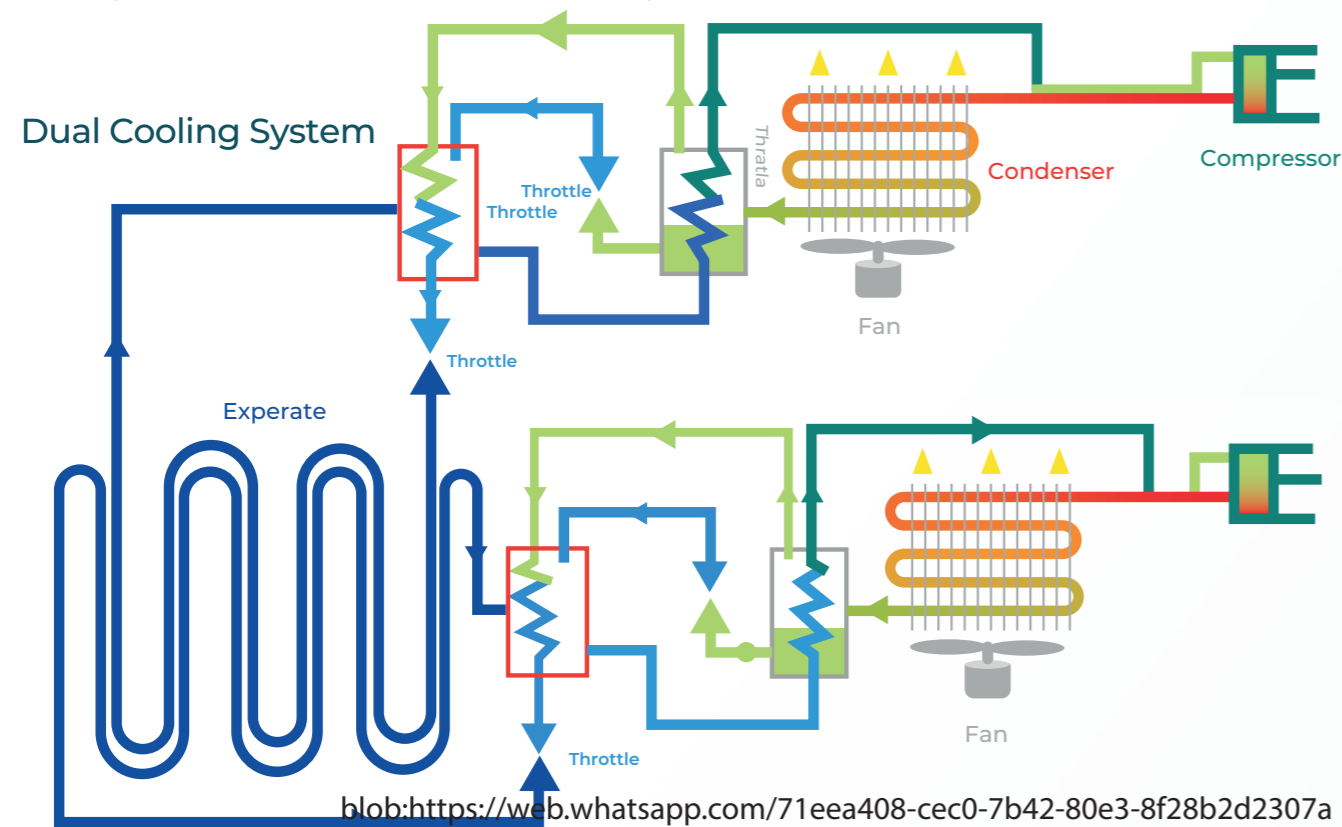


Covid-19 Vaccine Storage Solutions

## PATAGONIA SERIES -86°C Dual Cooling System

The Dual Cooling System (Dual System) Ultra-low Freezer avoids conventional cascade refrigeration technology by using two completely independent refrigeration systems each capable of maintaining ultra-low temperatures. If one of the compressors partially or completely fails, the other can continue to maintain freezer temperature at -86°C. Each refrigeration circuit includes a closed-loop cold-wall evaporator configured in parallel to the other.

Dual Cooling System (Dual System) Ultra-low Freezer are also designed to maximize storage samples capacity. 3 upright models with different capacities can meet most of customers' requirements.



### SAFETY

- Malfunction alarms including high and low temperature, power failure, sensor error, clean-filter, extremely high ambient temperature, abnormal voltage, thermostat failure, low battery, clean-condenser, 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 is standard on upright models.
- Alarm for remote contacts.



### FIELD PROVEN RELIABILITY

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



### INSTALLATION AND APPLICATION

- Wide range operating voltage system from 110V to 242V to allow units to work properly in areas with poor voltage conditions.
- Suitable for 10°C to 32°C ambient temperature.



### ENERGY SAVING

- Unique door seal design to minimize loss of cold temperature during a door opening.
- High performance VIP insulation panels to reduce cabinet heat gain and to improve temperature stability.



### KEY DESIGN FEATURES

- Microprocessor controlled system designed to operate unit within temperature range of -40°C to -86°C.
- Adjustable high and low temperature alarms.
- Automatic clean-filter alarm and sensor error alert.
- Adjustable storage shelf height.
- Optional temperature recorder, storage racks and storage box.
- Double security with two independent cooling system, if one system fails, the other can maintain inner temperature at -70°C.



Covid-19 Vaccine Storage Solutions

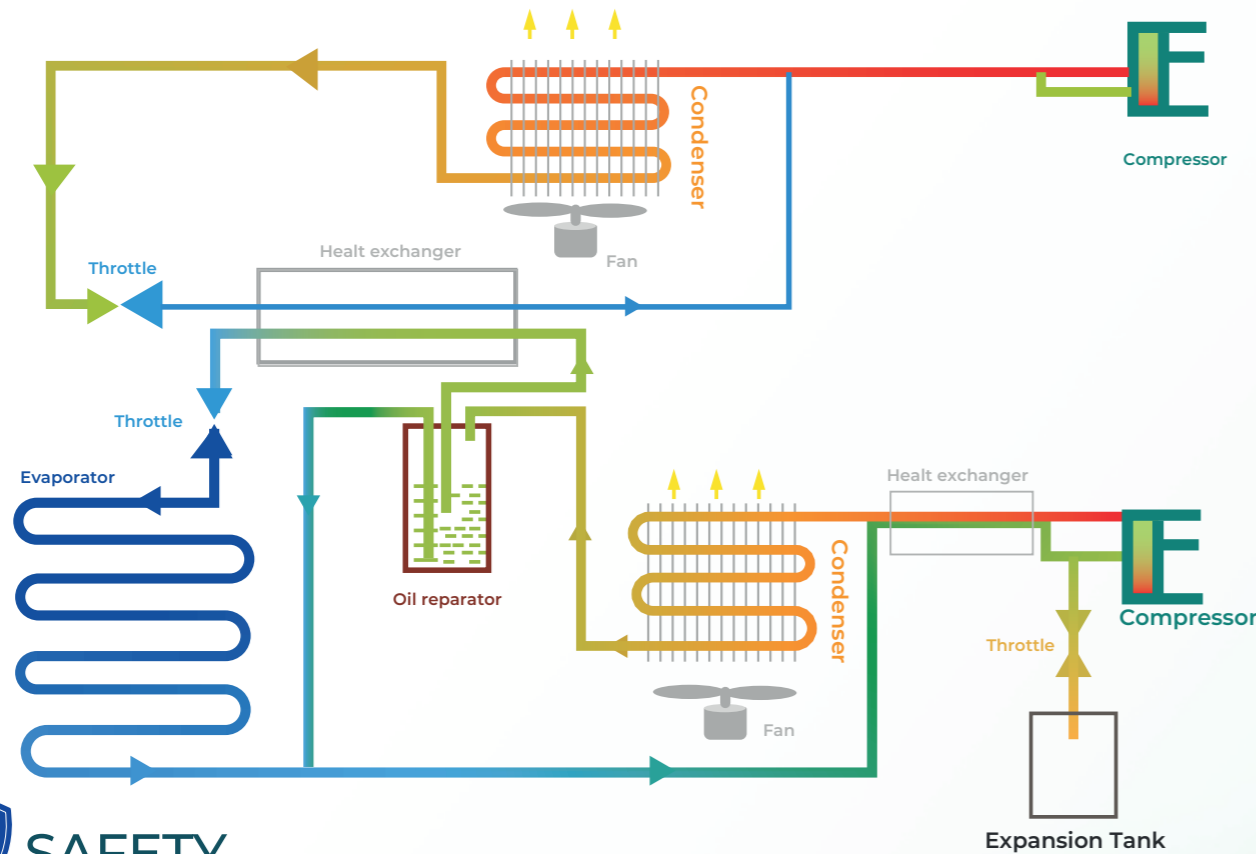
# PATAGONIA SERIES

## -86°C Cascade Cooling System

Cascade systems are simply two separate compressor-driven refrigeration cycles in a cascade arrangement that achieves ultra-low temperatures by removing heat from the freezer in two stages. The first cycle removes heat from the freezer cabinet with its evaporator and rejects that heat in the second cycle with its condenser. Since there is a significant temperature difference between the condenser of the first cycle and the evaporator of the second cycle, ultra-low temperatures can be achieved.

Cascade Cooling Systems Ultra-Low Freezer are designed to maximize storage samples capacity. 4 upright models with different capacities can meet most of customers' requirements.

### Cascade Cooling Systems



### SAFETY

- Malfunction alarms including high and low temperature, power failure, sensor error, clean-filter, extremely high ambient temperature, abnormal voltage, thermostat failure, low battery, clean-condenser, 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 is standard on upright models.
- Alarm for remote contacts.



### FILED PROVEN RELIABILITY

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



### INSTALLATION AND APPLICATION

- Wide range operating voltage system from 110V to 242V designed to allow units to work properly in areas with poor voltage conditions.
- Suitable for 10°C to 32°C ambient temperature.



### ENERGY SAVING

- Unique door seal design to minimize loss of cold temperature during 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. Environmentally friendly.



### KEY DESIGN FEATURES

- Microprocessor controlled system designed to operate unit within temperature range of -40°C to -86°C.
- Adjustable high and low temperature alarms.
- Automatic clean-filter alarm and sensor error alert.
- Adjustable storage shelf height.
- Optional temperature recorder, storage racks and storage box.

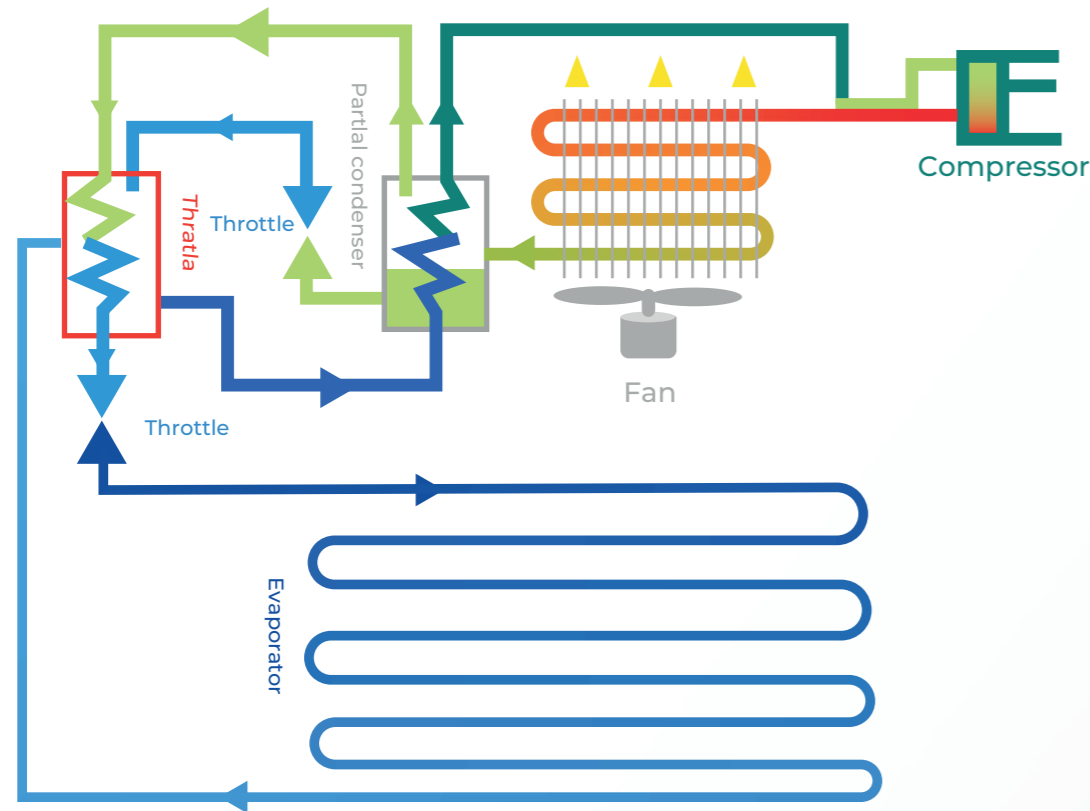


Covid-19 Vaccine Storage Solutions

# PATAGONIA SERIES

## -86°C Self-Cascade System

ULT freezers utilize cascade systems in order to provide the cooling effort. Self-cascade freezers are often used in small systems due to only requiring a single compressor, or in cryogenic systems as it reduces the need for high efficiency heat exchangers to prevent the compressors leaking heat into the cryogenic cycles. This product is designed and manufactured for long-term storage of a variety of biological products, including viruses and bacteria, red blood cells, white blood cells and skin. It also has applications in blood banks, hospitals, epidemic prevention services, research institutions, etc.



### SAFETY

- Malfunction alarms including high and low temperature, power failure, sensor error, clean-filter, extremely high ambient temperature, abnormal voltage, thermostat failure, low battery, clean-condenser, 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 is standard on upright models.
- Alarm for remote contacts.



### INSTALLATION AND APPLICATION

- Wide range operating voltage system from 110V to 242V designed to allow units to work properly in areas with poor voltage conditions.
- Suitable for 10°C to 32°C ambient temperature.



### FIELD PROVEN RELIABILITY

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



### KEY DESIGN FEATURES

- Microprocessor controlled system designed to operate unit within temperature range of -40°C to -86°C.
- adjustable high and low temperature alarms.
- Automatic clean-filter alarm and sensor error alert.
- Adjustable storage shelf height.
- Optional temperature recorder, storage racks and storage box.



### 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.



ADDRESSING GLOBAL REFRIGERATION NEEDS

# -86°C ULT Freezer

-86°C ULT Freezer

Covid-19 Vaccine Storage Solutions



**PTG-86V838D PTG-86V588D PTG-86V408DL PTG-86V838**



**PTG-86V728 PTG-86V588 PTG-86V338 PTG-86H105 MDF-86V50**

		Dual System			Cascade System		Cascade System			Horizontal	Self-cascade system
	Model	PTG-86V838D	PTG-86V588D	PTG-86V408DL	PTG-86V838		PTG-86V728	PTG-86V588	PTG-86V338	PTG-86H105	MDF-86V50
Specifications	Shelf/drawer QTY	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3		Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel/3	/	Stainless steel/1
	Cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling		Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost	Manual	Manual	Manual	Manual		Manual	Manual	Manual	Manual	Manual
	Refrigerant	Mixed-gas	Mixed-gas	Mixed-gas	HC		HC	HC	HC	Mixed-gas	Mixed-gas
Cooling system	Power Consumption (kWh/24h)	18.8	16.5	14.5	15		15.4	12	12.8	3.8	6.5
	Noise (db)	55	53	53	53		53	53	50	50	49.5
	Ambient temperature (°C)	10~32°C	10~35°C	10~32°C	10~32°C		10~32°C	10~32°C	10~32°C	10~32°C	10~32°C
	Temperature range (°C)	-40~-86°C	-40~-86°C	-40~-86°C	-40~-86°C		-40~-86°C	-40~-86°C	-40~-86°C	-40~-86°C	-40~-86°C
Power	Compressor brand/QTY	SECOP/2	SECOP/2	SECOP/2	SECOP/2		SECOP/2	SECOP/2	SECOP/2	CUBIGEL/1	SECOP/1
	Sensor	PTC	PTC	PTC	PTC		PTC	PTC	PTC	PTC	PTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor		Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LCD display	LCD display	LCD display	LCD display		LCD display	LCD display	LCD display	Digital display	Digital display
Material	Voltage/frequency (V/Hz)	110-220/ 50-60	110-220/ 50-60	110-220/ 50-60	110-220/ 50-60		110-220/ 50-60	110-220/ 50-60	110-220/ 50-60	110-220/ 50-60	110-220/ 50-60
	Power (W)	1700W	1500W	1350W	890W		935W	815W	870W	500W	500W
	Current (A)	9.8A	9.1A	8A	7A		7A	7A	6.75A	2.9A	3.1A
Size	Inside material	Stainless steel	Stainless steel	Stainless steel	Stainless steel		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless
	Outside material	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel		Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel
	Insulation	PURF	PURF	PURF	PURF		PURF	PURF	PURF	PURF	PURF
	Capacity (L/cu. ft)	838	588	408	838/29.59		728/25.70	588/20.76	338/11.93	105/3.70	50/1.76
Frozen Racks	NT/GT(kg)	336.5/416	297.5/358.5	255/307	397/430		360/401.5	307/368	250/305	63.7/68.5	86.6/115
	Exterior size(W*D*H)(mm)	1190*1045*2010	885*1100*1995	900*940*1940	1190*1045*2010		1260*890*2010	880*1080*2000	880*980*1940	685*670*930	630*705*1150
	Interior size(W*D*H)(mm)	894*718*1310	606*738*1310	606*575*1180	894*718*1310		963*558*1350	606*738*1310	488*607*1140	480*380*665	361*429*406
	Package size(W*D*H)(mm)	1270*1105*2220	970*1140*2190	955*960*2100	1270*1105*2220		1320*970*2190	975*1140*2200	940*1070*2130	750*690*1030	670*730*1300
Alarm	CBM	3.12	2.42	1.93	3.12		2.80	2.45	2.14	0.59	0.64
	20GP/40GP/40HQ Racks	8/18/18	12/24/24	12/24/24	8/18/18		8/18/18	12/24/ 24	12/24/24	24/51/51	24/51/51
	Boxes (2 Inches)	24(5X5)	16(5X5)	16(5X4,4X4)	24(5X5)		18(5x4)+6(6x4)	16(5X5)	12(4X4)	4(11X1,6X1)	2(6X2)
	Samples(2ml)	600	400	288	600		504	400	192	34	24
Optional	High/low temperature	60000	40000	28800	60000		50400	40000	19200	3400	2400
	Power failure	Y	Y	Y	Y		Y	Y	Y	Y	Y
	Abnormal voltage	Y	Y	Y	Y		Y	Y	Y	Y	Y
	Sensor error	Y	Y	Y	Y		Y	Y	Y	Y	Y
	Filter screen check	Y	Y	Y	Y		Y	Y	Y	Y	Y
	Thermostat failure	Y	Y	Y	Y		Y	Y	Y	Y	Y
	Low battery	Y	Y	Y	Y		Y	Y	Y	Y	Y
	Condenser clean	Y	Y	Y	Y		Y	Y	Y	Y	Y
	High ambient temperature	Y	Y	Y	Y		Y	Y	Y	Y	Y
	Door ajar	Y	Y	Y	Y		Y	Y	Y	Y	Y
Other	Castor	Y	Y	Y	Y		Y	Y	Y	Y	Y
	Inside door	2	2	2	2		2	2	2	Y	Y
	Test hole QTY/diameter	1/25MM	1/25MM	1/25MM	1/25MM		1/25MM	1/25MM	2/25MM	1/25MM	/
	USB port	Y	Y	Y	Y		Y	Y	Y	/	/
	Chart recorder	/	/	/	Optional		Optional	Optional	Optional	Optional	/
	Data logger	/	/	/	Optional		Optional	Optional	Optional	Optional	/
	Power failure backup system(alarm)	72h	72h	72h	72h		72h	72h	72h	/	/
	Remote alarm port	Y	Y	Y	Y		Y	Y	Y	/	/
CO2 back up system	Optional	Optional	Optional	Optional		Optional	Optional	Optional	Optional	Optional	
LN2 back up system	Optional	Optional	Optional	Optional		Optional	Optional	Optional	Optional	Optional	
ISO.CE	ISO.CE	ISO.CE	ISO.CE	ISO.CE		ISO.CE	ISO.CE	ISO.CE	ISO.CE	ISO.CE	

Patagonia Product Line

Covid-19 Vaccine Storage Solution

# PATAGONIA SERIES

## -25°C 30°C Mobile Cooler

• To store and transport blood, serum, plasma, vaccine, reagents and special medicines in medical industry. Also used as medicines pass box for epidemic prevention station, blood bank, health center, CDC, animal husbandry bureau, army and logistics service, express company, pharmaceutical factory, genetic engineering.



### USER FRIENDLY DESIGN

- The entire cooler may roll to prevent collision damage during transportation.
- Multi-level stacking.



### SECURITY GUARANTEE

- Audible and visible functional alarm system.
- Remote control.
- Constant alarm after power off.
- lockable Keyboard.



### FEATURES

- Multiple voltage settings used as AC110/220V or DC12V/24V.
- Power supply of cigarette lighter.
- Fully mobile structure.
- Combined with forced air cooling system and direct cooling system.
- Multi-function: 3 ranges of inner temperature:
  - 2 °C - 8 °C used as pharmacy refrigerator
  - -10°C ~ - 25 °C used as deep freezer
  - 22 ± 2°C used as incubator





ADDRESSING GLOBAL REFRIGERATION NEEDS

# -25°C 30°C Mobile Cooler

Patagonia Product Line

Mobile Cooler

See our additional catalogs for further details



PTG-25H30LC



PTG-25H80LC



PTG-4V700LC

MODEL	PTG-25H30LC	PTG-25H80LC	PTG-4V700LC	
Specifications	Shelves/basket	Basket around Evaporator	Basket around Evaporator	Blood Baskets
	Cooling method	Forced Air Cooling	Forced Air Cooling	Forced -air Cooling
	Defrost	Manual	Manual	No Frost
	Refrigerant	R134a	R134a	R134a
	Power consumption(kWh/24h)	1.2	1.6	1.6
	Noise(db)	45	46	50
	Ambient temperature(°C)	10~32°C	10~32°C	10~32°C
	Temperature range(°C)	-25/4/22	-25/4/22	4°C/22°C
Cooling system	Compressor brand/QTY	China Brand/1	China Brand/1	China Brand/1
	Sensor	NTC	NTC	NTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor
	Display	Digital display	Digital display	Digital display
Power	Voltage/frequency(V/Hz)	220/50Hz, DC12V/24V	220/50Hz, DC12V/24V	220/50Hz, DC12V/24V
	Power(W)	80W	100W	160W
	Current(A)	DC 6.5A	DC8A	DC12V/14A, DC24V/7A, AC220V/1.5A
Material	Inside material	PE	PE	PE
	Outside material	PE	PE	PE
	Insulation	PURF	PURF	PURF
Size	Capacity(L/cu.ft)	30/1.059	80/2.825	700/24.72
	NT/GT.(kg)	23.5/26.5	50/51	182/209
	Exterior size(W*D*H)(mm)	610 * 360 * 460	930 * 580 * 570	1070 * 1120 * 1080
	Interior size(W*D*H)(mm)	364 * 253 * 352.5	547 * 378 * 369.5	939 * 973 * 863
	Package size(W*D*H)(mm)	680 * 445 * 535	990 * 650 * 640	1140 * 1190 * 1150
	CBM	0.16	0.41	1.56
	20GP/40GP/40HQ	160/340/425	54/108/144	16/40/40
Alarm	High/low temperature	Y	Y	Y
	Power failure	Y	Y	Y
	Sensor error	Y	Y	Y
	Thermostat failure	Y	Y	Y
Optional	Foot	/	/	PE Foot
	Temperature recorder	/	/	Optional
	Power failure backup system(alarm)	8h	8h	8h
	Remote alarm port	Optional	Optional	
Other	Certification	"ISO9001, 13485, 14001,CE"	ISO9001, 13485, 14001,CE"	"ISO9001, 13485, 14001,CE"

## PATAGONIA SERIES

### -40°C Medical Freezer

This product is designed to store vaccines, blood plasma, and many other biological materials. Installations can be found in researching institutions and clinical sites in life science, electronic testing and medical markets.



### KEY FEATURES

- Microprocessor control, adjustable temperature range: - 20 °C to - 40 °C.
- LEO 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.
- Height-adjustable shelf trays allow you to adjust the inside of the chambers according to the size of the samples. By changing the height of the shelf trays, the unit can accommodate various sizes of samples including stored in your conventional model.
- Door latch with provision for a padlock for extra protection of samples.
- Equipped with separate doors that suppress the leakage of cold air during opening and closing of the doors, and manual defrosting that helps avoid temperature impact on the samples.
- 2 independent doors, 2 Compressors, 2 Test Holes, 2 Displays.
- Standard with thermal printer to record 1 year 's data.



### 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
- LEO digital display for clear observation.
- Single temperature control system with double door construction.
- Flexible and easy storage by height-adjustable shelf trays.
- Maintains the quality of the samples during preservation.
- 2 completely independent chambers with their own temperature displays.



### 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.
- To securely preserve /manage the valuable samples, in addition to a standard-feature door lock, a hole in the latch allows a padlock to be attached.
- Security functions that help protect valuable samples with a temperature control capability that inhibits the change in temperature inside the chamber and an alarm /security function that prevents errors, the unit maintains the quality of the preserved samples.
- Temperature recorder (optional)
- Front-mounted display /control panel located at convenient height for easy access.
- Insulated door with gasket for sample protection and uniformity.
- 2 USB port interface.





# PATAGONIA SERIES

## -40°C Medical Freezer

	Model	PTG-40V50	PTG-40V268E	PTG-40V278W	PTG-40V328E	PTG-40V528	PTG-40V936	PTG-40H105	PTG-40H485	
Specifications	Shelf/drawer	Shelves	Shelves/10	Drawer /7		Shelves	Shelves/ Drawers	Shelves	/	
	Cooling method	Direct Cooling	Direct Cooling	Direct Cooling		Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling	
	Defrost	Manual	Manual	Manual		Manual	Manual	Manual	Manual	
	Refrigerant	HFC	R290	R290		R290	R290	R404A	R290	
	Power consumption (kWh/24h)	3.5	4	3		4	6.7	14.5	1.65	
	Noise ( db)	50	48	50		48	55	50	50	
	Ambient temperature (°C)	10 ~32°C	10 ~ 32°C	10 ~ 32°C		10 ~ 32°C	10 ~ 32°C	10 ~ 32°C	10 ~ 32°C	
Temperature range (°C)	-10°C ~-40°C	-30°C ~ -40°C	-30°C ~ -40°C		-30°C ~ -40°C	-20°C ~ -40°C	-25°C ~ -40°C	-10°C ~ -40 °C	-20°C ~ -40 °C	
Cooling system	Compressor brand/ QTY	SECOP/1	CUBIGEL/1	CUBIGEL /1		CUBIGEL/1	CUBIGEL/2	SECOP/2	CUBIGEL/1	
	Condensar	Finned	Wire tube	Inside foaming		Wire tube	Copper tube	Copper tube & finned	Wire tube	
	Sensor	NTC	NTC	NTC		NTC	NTC	PTC	NTC	
	Temperature controller	<b>Microprocessor</b>	<b>Microprocessor</b>	<b>Microprocessor</b>		<b>Microprocessor</b>	<b>Microprocessor</b>	<b>Microprocessor</b>	<b>Microprocessor</b>	
Power	Display	Digital display	Digital display	Digital display		Digital display	Digital display	Digital display	Digital display	
	Voltage/frequency (V/Hz)	110-220/50-60Hz	110-220/50-60Hz	110-220/50-60Hz		110-220/50-60Hz	110-220/50-60Hz	110-220/50-60Hz	110-220/50-60Hz	
	Power ( W)	250W	300W	185W		300W	340W	1000W	160W	
Material	Current ( A)	2.5A	1.6A	1.6A		1.6A	3.4A	5.8A	1.15A	
	Inside material	Stainless steel	Color sprayed steel	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	Color sprayed steel	Color sprayed steel	
Size	Insulation	PURF	PURF	PURF		PURF	PURF	PURF	PURF	
	Capacity (L/cu.ft)	50/1,76	268/9,46	278/9,81		328/11,58	528/18,64	936/33,05	105/3,70	
	NT/GT. (kg)	75/95	98,5 /118	79/104,5		110,3 /132	151 /184	372/416	52/64,5	
	Exterior size(W*D*H)(mm)	540*620*1145	690*680*1635	670*640*1695		685*670*1900	910*845*1875	1320*980*2100	685*645*930	1670*810*930
	Interior size(W*D*H)(mm)	361*429*406	508*455*1137	480*415*1460		508*455*1393	(651*631,5*635 )*2	1000*700*1335	480*380*665	1455*525*665
	Package size(W*D*H)(mm)	670*730*1300	760*760*1750	725*665*1850		750*760*2030	930*970*2000	1360*1135*2170	750*700*1040	1775*880*1060
	CBM	0,64	1,01	0,89		1,16	1,8	3,35	0,55	
Alarm	20GP/40GP/40HQ	24/51 /51	21/45/45	24/54/54		21/48 /48	12/ 24/24	8/16/16	24/51/51	
	High/low temperature	Y	Y	Y		Y	Y	Y	Y	
	Power failure	/	/	/		Y	Y	Y	Y	
	Sensor error	Y	Y	Y		Y	Y	Y	Y	
	Filler screen check	/	/	/		/	/	Y	/	
	Temperature controller failure	Y	Y	Y		Y	Y	Y	Y	
	Low battery	/	/	/		/	/	Y	/	
	Condenser clean	/	/	/		/	/	Y	/	
High ambient temperature	/	/	/		/	/	Y	/		
Optional	Door ajar	/	Y	Y		Y	/	Y	/	
	Foot	/	/	/		/	Y	/	/	
	Castor	Y	Y	Y		Y	Y	Y	Y	
	Inside door	Y	Y	7 Drawer		Y	9 Drawer x 2	Y	/	
	Test hole.QTY/diameter	Optional	Optional	/		Optional	2/25MM	1/18MM	1/25MM	
	USB port	/	/	/		/	/	Y	/	
	Power failure backup system(alarm)	/	8h	8h		8h	8h	72h	/	
Remote alarm port	/	Y	Y		Y	Y	Y	/		
Other	Certification	1S09001, 13485, 14001, CE	1S09001, 13485, 14001, CE	1S09001, 13485, 14001, CE		1S09001, 13485, 14001, CE	1S09001, 13485, 14001, CE	1S09001, 13485, 14001, CE	1S09001, 13485, 14001, CE	





ADDRESSING GLOBAL REFRIGERATION NEEDS

## -25°C Deep Freezer

# PATAGONIA SERIES

## -25°C Deep Freezer



### KEY FEATURES

- Independent inner door to avoid more cooling leaking out, and provide more stable inside temperature performance.
- Upright side door with build-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.



### 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: -100C ~ -250C.
- LEO digital display for clear observation.

+2~8°C Pharmacy Refrigerator



### NEW RELEASE

- MDF-25V368RF/M D F-40V368RF Temperature range: Refrigerator Room: 2°C ~ 8°C.
- Freezer Room: -100C ~ -250C/-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.





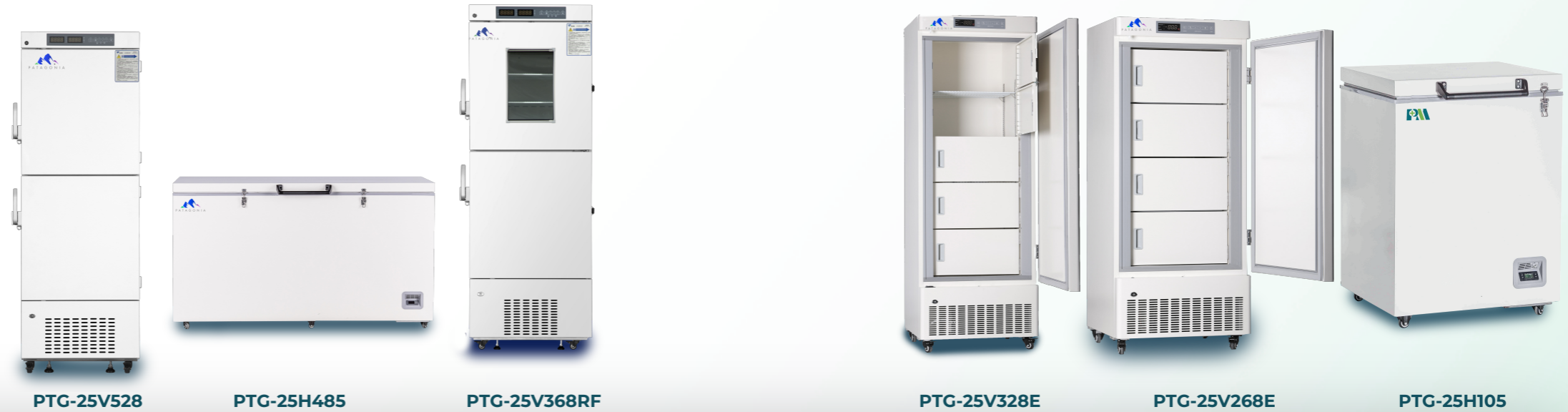
ADDRESSING GLOBAL REFRIGERATION NEEDS

# -25°C Deep Freezer

Covid-19 Vaccine Storage Solutions

See our additional catalogo for further details

-25° Deep Freezer



	Model	PTG-25V528	PTG-25H485	PTG-25V368RF	PTG-25V328E	PTG-25V268E	PTG-25H105
Specifications	Shelf (drawer )	Shelves/drawers	/	Shelves and draws	Shelves	Shelves	/
	Cooling method	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost	Manual	Manual	Manual	Manual	Manual	Manual
	Refrigerant	R290		R600a & R290	R290	R290	HC-R290
	Power consumption(kWh/24h)		3.45	3.03	3	3	1.59
	Noise(db)			50	46	46	46
	Ambient temperatur (°C)	10~32°C	10~32°C	10~32°C	10 ~ 32°C	10~32°C	10~32°C
Cooling system	Temperature range (°C)	-20°~-40°C	-10~-25°C	F:-10°C-25°C R:2°C-8°C	-1.0 ~ -25C	--10~-25°C	-10~-25°C
	Compressor brand/QTY	CUBIGEL/2		China brand 2	CUBIGELN/1	CUBIGELN/1	DONPER/1
	Sensor	NTC	NTC	NTC	NTC	NTC	NTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Power	Display	Digital display	Digital display	Dual Independent Digital Display	Digital display	Digital display	Digital display
	Voltage/frequency(V/Hz)	110-220/50- 60	110-220/50- 60	110-220/50- 60	110-220/50- 60	110-220/50- 60	
	Power(W)	340W	295W	300W	180W	180W	
Material	Current(A)	3.4A	2.45A	2.37A	1.4A	1.4A	
	Inside material	Color sprayed steel	Color sprayed steel	SPCC sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel
	Outside material	Color sprayed steel	Color sprayed steel	SPCC sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel
Size	Insulation	PURF	PURF	PURF	PURF	PURF	PURF
	Capacity(L/cu.ft)	528/18.64	485	R:183 F:185	328/11.58	268/9.46	105/3.70
	NT./GT.(kg)	151/184	124/138	137/166	104/1 25	93.5/113.5	41.8/54
	Exterior size(W*D*H)(mm)	910*845*1875	1655*755*915	730 * 830 * 1880	690 * 680 * 1 900	690 * 680 * 1635	615 * 570 * 880
	Interior size(W*D*H)(mm)	(651 * 631.5 * 635) * 2	1455*525*665	"R:580 * 626 * 625(mm) F:466 * 636 * 625(mm)"	508 * 455 * 1 393	508 * 455 * 1137	480 * 3 80 * 665
	Package size(W*D*H)(mm)	930*970*2000	1710*885*1020	775 * 920 * 1990	750 * 760 * 2030	760 * 760 * 1750	675 * 625 * 1000
	CBM	1.80		1.42	1.16	1.01	0.42
Alarm	20GP/40GP/40HQ	12/24/24	12/26/26	14/39/39	21/48 /48	21/45/45	27/57/57
	High/low temperature	Y	Y	Y	Y	Y	Y
	Power off	Y	Y	Y	Y	Y	Y
	Sensor malfunction	/	Y	Y	Y	Y	Y
	Ambient temperature(°C)	/	/	Y	/	/	/
	Abnormal voltage	/	/	/	/	/	/
	Temperature controller malfunction	Y	/	Y	Y	Y	Y
Accessories	Door ajar	Y	/	Y	Y	Y	/
	Caster	/	Y	Y	Y	Y	Y
	Test hole	2/25MM		2/25MM	Optional	Optional	1/25MM
	USB port	/	/	Y	/	/	/
	Data logger	/	/	Optional	/	/	/
Other	Remote alarm	Y	/	Y	Optional	Y	/
	Certification	"ISO9001, 13485, 14001,CE"	ISO9001, 14001, 13485	"ISO9001, 13485, 14001,CE"	ISO9001, 13485, 14001,CE	ISO9001,13485 ,14001,CE	"ISO9001, 13485, 14001,CE"



ADDRESSING GLOBAL REFRIGERATION NEEDS

## +2~8°C Pharmacy Refrigerator

Patagonia Product Line

Covid-19 Vaccine Storage Solutions

+2~8°C Pharmacy Refrigerator

See our additional catalogo for further details

## PATAGONIA SERIES

### 2°C~8°C Pharmacy Refrigerator



### PURPOSE

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



### RELIABILITY & KEY FEATURES

- Microprocessor controlled forced-air cooling with electrical heat compensation system.
- Digital temperature display for upper and lower sections in chamber with 0,10C resolution.
- Consistent cabinet temperature 20C ± 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.



### 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





ADDRESSING GLOBAL REFRIGERATION NEEDS

# +2~8°C Pharmacy Refrigerator

Patagonia Product Line

Covid-19 Vaccine Storage Solutions

+2~8°C Pharmacy Refrigerator

See our additional catalog for further details



PTG-5V1006

PTG-5V656

PTG-5V416

PTG-5V415

PTG-5V316

PTG-5V315

MPC-5V236

PTG-5V100

PTG-5V60G

Model	PTG-5V1006	PTG-5V656	PTG-5V416	PTG-5V415	PTG-5V316	PTG-5V315	PTG-5V236	PTG-5V100	PTG-5V60G
Shelf/drawer	Shelves/10	Shelves/10	Shelves/5	Shelves*6/Basket*1	Shelves/5	Shelves*6/Basket*1	Shelves/4	Shelves/3	Shelves/2
Cooling method	Forced Air Cooling System	Forced Air Cooling System	Forced Air Cooling System	Forced Air Cooling System	Forced Air Cooling System	Forced Air Cooling System	Forced Air Cooling System	Forced Air Cooling System	Forced Air Cooling System
Defrost	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto
Refrigerant	R600a	R600a	R600a	R134a	R600a	R600a	R600a	R600a	R600a
Power consumption(kWh/24h)	6.23	5.75	2.37	3.97	2.8	2.8	46	50	0.84
Noise(db)	53	52	50	50	50	50	46	50	50
Ambient temperature(°C)	10~32°C	10~32°C	10~32°C	10~32°C	10~32°C	10~32°C	10~32°C	10~32°C	10~32°C
Temperature range(°C)	2~8°C	2~8°C	2~8°C	2~8°C	2~8°C	2~8°C	2~8°C	2~8°C	2~8°C
Compressor brand/QTY	China Brand/1	China Brand/1	China Brand/1	China Brand/1	China Brand/1	China Brand/1	China Brand/1	China Brand/1	China Brand/1
Sensor Type	NTC	NTC	NTC	NTC	NTC	NTC	NTC	NTC	NTC
Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Display	Digital display	Digital display	Digital display	Digital display	Digital display	Digital display	Digital display	Digital display	Digital display
Voltage/frequency (V/Hz)	110-220/50- 60	110-220/50- 60	110-220/50- 60	110-220/50- 60	110-220/50- 60	110-220/50- 60	110-220/50- 60	110-220/50- 60	110-220/50- 60
Power (W)	425W	385W	190W	280W	240W	216W	170W	80W	72W
Current (A)	2.4A	2.3A	1.3A	1.7A	1.2A	1.46A	1.09A	0.8A	0.59AA
Inside material	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	HIPS	Color sprayed steel
Outside material	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel
Insulation	PURF	PURF	PURF	PURF	PURF	PURF	PURF	PURF	PURF
Capacity (L/cu.ft)	1006/35.52	656/23.16	416/14.69	416/14.69	316/11.15	316/11.15	236/8.33	100	60/2.11
NT/GT. (kg)	195/225.3	164/188.6	126.2/148	120/133	97.3/108	92.5/100	67/81	35/38	34/37.5
Exterior size(W*D*H)(mm)	1240 * 820 * 1900	1240 * 630 * 1895	800*552*1940	800*552*1940	660*555*1915	660*555*1915	580*560*1760	505*510*875	495*450*710
Interior size(W*D*H)(mm)	1100 * 684 * 1325	1100 * 454 * 1325	685*429*1380	685*429*1380	540*425*1380	540*425*1380	500*420*1090	385*356*737	410*315*560
Package size(W*D*H)(mm)	1335 * 945 * 2000	1335 * 710 * 2000	890*655*2100	890*655*2100	710*640*1970	710*640*1970	730*675*1910	580*580*940	558*510*760
CBM	2.52	1.90	1.22	1.22	0.90	0.90	0.94	0.32	0.22
20GP/40GP/40HQ	8/18/18	12/27/27	18/39/39	18/39/39	27/54/54	27/54/54	24/51/51	40/80/80	44/92/92
High/low temperature	Y	Y	Y	Y	Y	Y	Y	Y	Y
Power failure	Y	Y	Y	Y	Y	Y	Y	Y	Y
Thermostat failure	Y	Y	Y	Y	Y	Y	Y	Y	Y
Backup battery failure alarm	Y	/	/	/	/	/	/	/	/
Condenser fault alarm	/	/	/	/	/	/	/	/	/
Ambient Temperatures	/	/	/	/	/	/	/	/	/
Voltage abnormality alarm	/	/	/	/	/	/	/	/	/
Door ajar	Y	Y	Y	Y	Y	Y	Y	Y	Y
Foot	/	/	Y	Y	Y	Y	Y	Y	Y
Castor	Y	Y	Y	Y	Y	Y	Y	/	/
Outer door/Type	2/Heating glass door with automatic rebound	2/Heating glass door with automatic rebound	1/Glass /Low-E	1/Heating glass door with automatic rebound	1/Glass /Low-E	1/Heating glass door with automatic rebound	1/Glass door /Low-E	1/Glass door	1/Glass/Low-E
Door Lock	2	2	1	1	1	1	1	1	1
Test hole QTY/diameter	1/25mm	1/25mm	1/25mm	1/25mm	1/25mm	1/25mm	Optional	/	1/25mm
Lamp	LED	LED	LED	LED	LED	LED	LED	LED	LED
USB port	/	/	/	/	/	/	/	/	/
Temperature recorder	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Power failure backup system(alarm)	8h	8h	8h	48h	8h	48h	8h	/	8h
Remote alarm port	Y	Y	Y	Y	Y	Y	Y	/	Y
RS232/485 port	/	/	/	Y	/	/	/	/	/
Certification	"ISO9001/13485/14001;CE"	"ISO9001/13485/14001;CE"	"ISO9001/13485/14001;CE"	"ISO9001/13485/14001;CE"	ISO9001/13485/14001;CE"	"ISO9001/13485/14001;CE"	"ISO9001/13485/14001;CE"	"ISO9001/13485/14001;CE"	"ISO9001/13485/14001;CE"