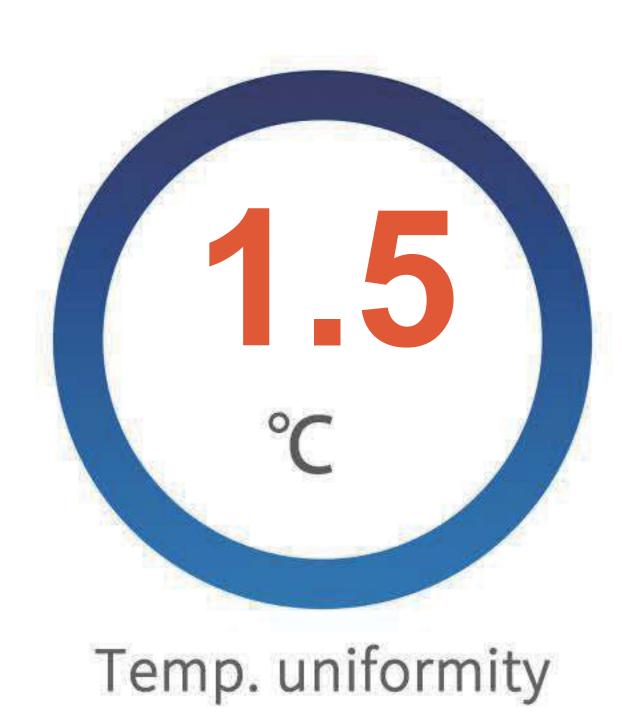


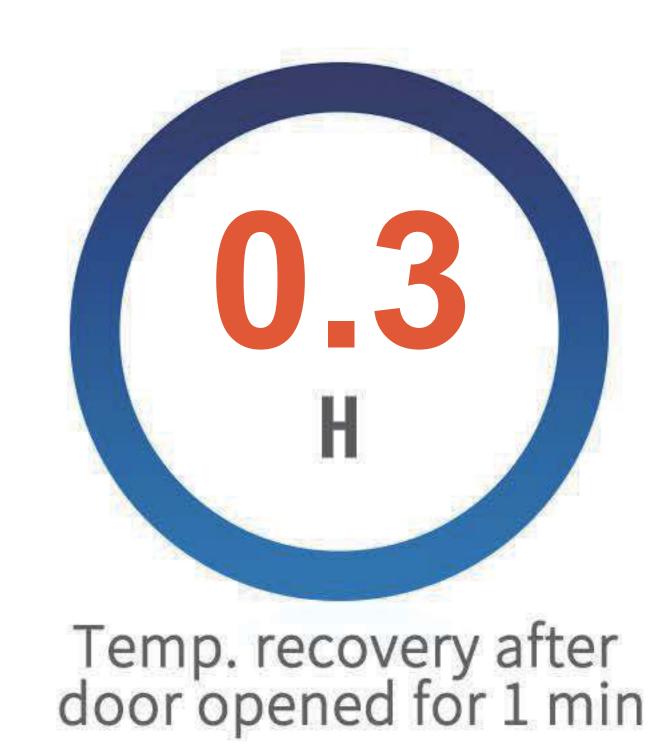
Best Seller -40°C ULT Freezer



DW-FL90 is equipped with efficient refrigeration system, accurate control system and scientific structural design, energy saving and environmental protection.







*Typical freezer data based on internal testing with freezer set point at -40°C and ambient temperature at 22°C.









Temperature control system Display temp. in 0.1°C increments



Hydrocarbon refrigerant Environment-friendly natural gas



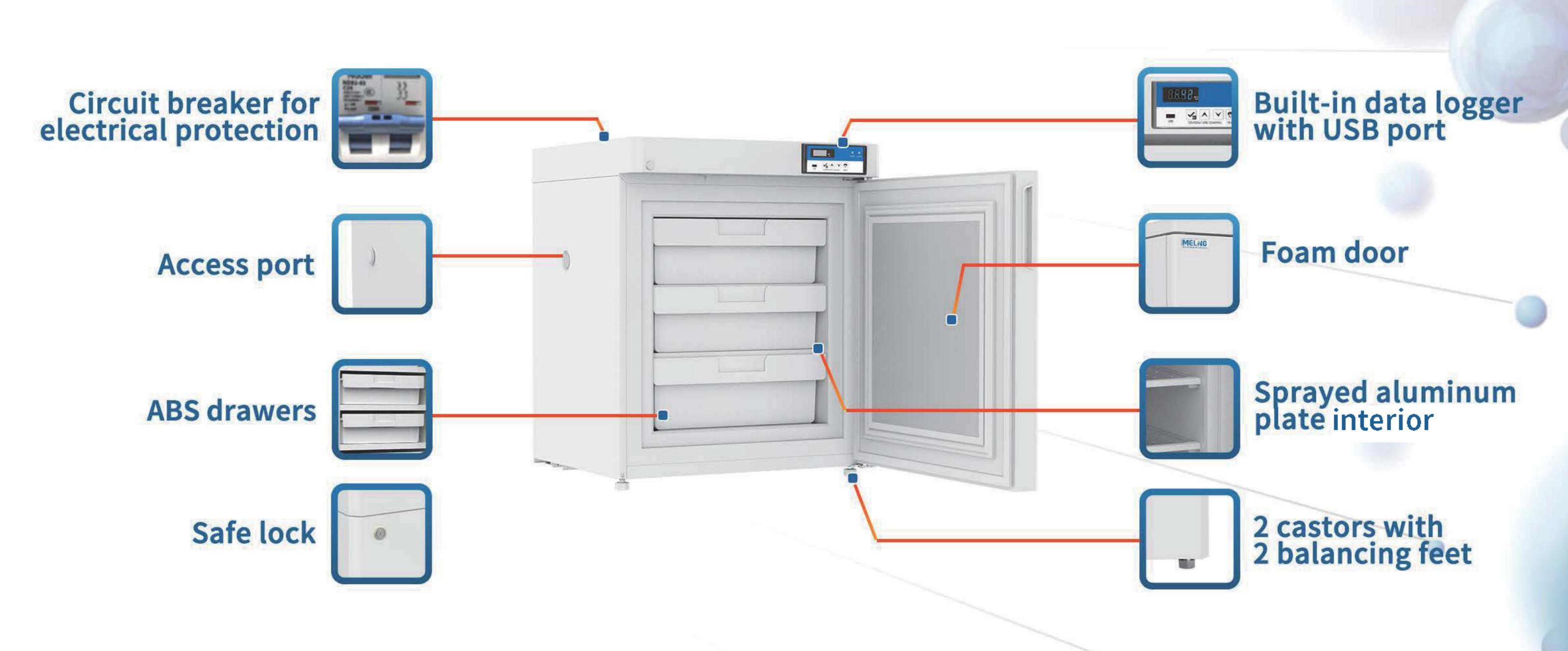


Built-in data logger Store up to 100,000 groups of temperature data



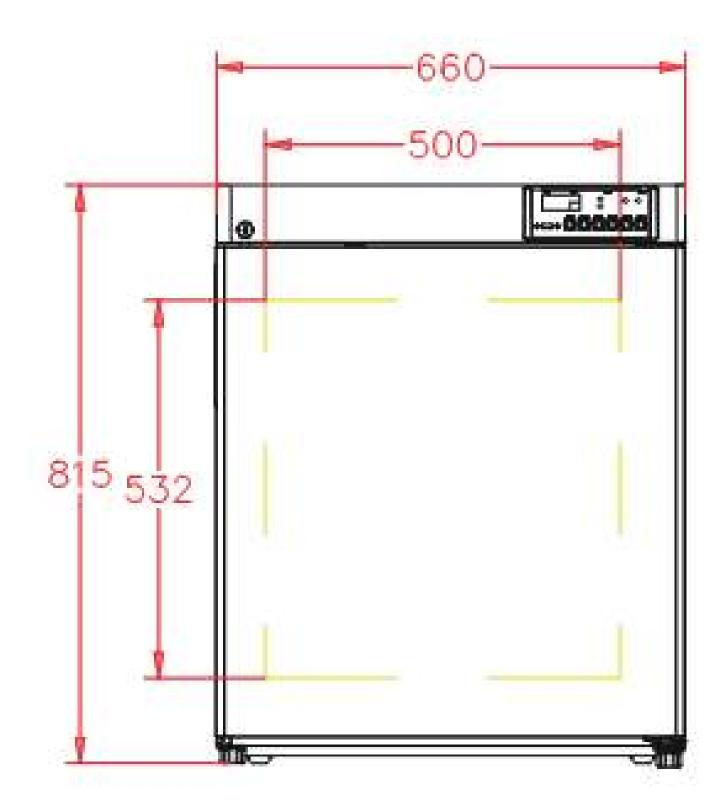
Alarms system
Multiple alarm functions

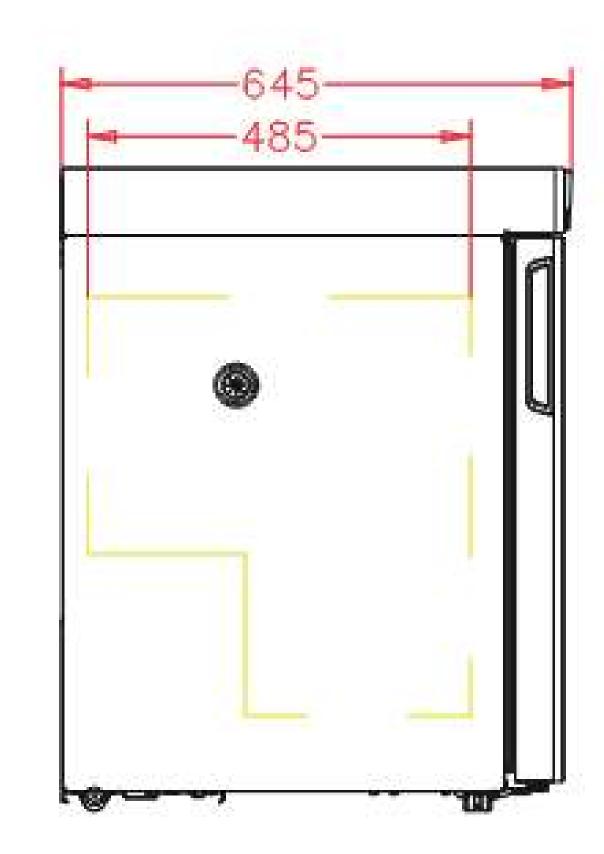
Structure

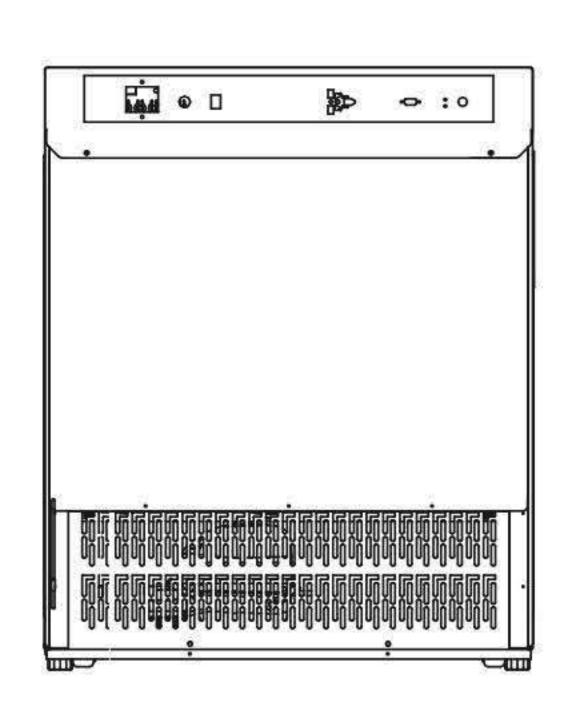


Dimensions

Specification







Compressors Cooling method Direct cooling Defrost mode Manual Refrigerants R290 Insulation thickness(mm) D:80, L/R:80, B:76 Construction External material PCM Inner material Drawer 3(ABS) Access test port 1pc. Ø 25 mm Casters 2+2 balancing feet Data logging/ Interval /Recording time Interface Backup battery Yes Alarms Temperature Electrical Dower failure, Low battery Data logger failure System Electrical Data Power supply(V/HZ) 110V/60Hz Manual Manu		
Capacity	-40°C Ultra-low Temperature Freeze	
Drawer size (L*D*H)mm/inch First drawer: 494*260*181/19.4*10.2*7.1 Second/Third drawer: 494*419*165 / 19.4*16.5*6.5 Internal size (W*D*H) mm/inch 500*485*532/19.7*19.1*20.9 External size (W*D*H) mm/inch 660*645*815/25.9*25.3*32.1 Package size (W*D*H) mm/inch 722*697*890/28.4*27.4*35.0 NW/GW (kgs) 54/67 Performance Temperature range -20~-40°C Ambient temperature 16-32°C Cooling performance Climate class N Controller Microprocessor Digital display Refrigeration Compressors 1pc Cooling method Direct cooling Defrost mode Manual Refrigerants R290 Insulation thickness(mm) D:80, L/R:80, B:76 Construction External material Drawer 3(ABS) Access test port Casters 2+2 balancing feet Data logging/ Interval /Recording time interface Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Power failure, Low battery Data logger failure Sensor Error, Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz I10V/60Hz	Model	DW-FL90
Internal size (W*D*H) mm/inch 500*485*532 /19.7*19.1*20.9 External size (W*D*H) mm/inch 660*645*815 /25.9*25.3*32.1 Package size (W*D*H) mm/inch 722*697*890 /28.4*27.4*35.0 NW/GW (kgs) 54/67 Performance	Capacity	90/3.18Cu.Ft.
External size (W*D*H) mm/inch Package size (W*D*I) mm/inch Package size (W	Drawer size (L*D*H)mm/inch	First drawer: 494*260*181 / 19.4*10.2*7.1 Second/Third drawer: 494*419*165 / 19.4*16.5*6.5
Package size (W*D*H) mm/inch NW/GW (kgs) 54/67 Performance Temperature range -20~-40°C Ambient temperature 16-32°C Cooling performance Climate class N Controller Display Digital display Refrigeration Compressors 1pc Cooling method Direct cooling Defrost mode Refrigerants Respondentuchness(mm) Dis80, L/R:80, B:76 Construction External material PCM Inner material Sprayed aluminum plate Juawer 3(ABS) Access test port Casters Data logging/ Interval /Recording time Interface Backup battery Yes Alarms Temperature Power failure, Low battery Data logger failure System Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Internal size (W*D*H) mm/inch	500*485*532 /19.7*19.1*20.9
NW/GW (kgs) 54/67 Performance Temperature range -20~-40°C Ambient temperature 16-32°C Cooling performance -40°C Climate class N Controller Microprocessor Display Digital display Refrigeration Compressors 1pc Cooling method Direct cooling Defrost mode Manual Refrigerants R290 Insulation thickness(mm) D:80, L/R:80, B:76 Construction External material PCM Inner material Sprayed aluminum plate Drawer 3(ABS) Access test port 1pc. Ø 25 mm Casters 2+2 balancing feet Data logging/ Interval /Recording time USB/Record every1ominutes / 100,000 data Interface Remote alarm contact, RS485 Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Power failure, Low battery Data logger failure System Sensor Error, Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	External size (W*D*H) mm/inch	660*645*815/25.9*25.3*32.1
Performance Temperature range -20~-40°C Ambient temperature 16-32°C Cooling performance -40°C Climate class N Controller Microprocessor Display Digital display Refrigeration Compressors 1pc Cooling method Direct cooling Defrost mode Manual Refrigerants R290 Insulation thickness(mm) D:80, L/R:80, B:76 Construction External material PCM Inner material Sprayed aluminum plate Drawer 3(ABS) Access test port 1pc. Ø 25 mm Casters 2+2 balancing feet Data logging/ Interval /Recording time USB/Record every10minutes / 100,000 data Interface Remote alarm contact, RS485 Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Electrical Data Power Supply (V/HZ) 220-240V/50Hz 110V/60Hz	Package size (W*D*H) mm/inch	722*697*890 /28.4*27.4*35.0
Temperature range -20~-40°C Ambient temperature 16-32°C Cooling performance -40°C Climate class N Controller Microprocessor Digital display Refrigeration Compressors 1pc Cooling method Direct cooling Defrost mode Manual Refrigerants R290 Insulation thickness(mm) D:80, L/R:80, B:76 Construction External material PCM Inner material Sprayed aluminum plate 3(ABS) Access test port 1pc. Ø 25 mm Casters 2+2 balancing feet Data logging/ Interval /Recording time USB/Record every10minutes / 100,000 data Interface Remote alarm contact, RS485 Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Electrical Data Power failure, Low battery Data logger failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	NW/GW (kgs)	54/67
Ambient temperature 16-32°C Cooling performance -40°C Climate class N Controller Microprocessor Display Digital display Refrigeration Compressors 1pc Cooling method Direct cooling Defrost mode Manual Refrigerants R290 Insulation thickness(mm) D:80, L/R:80, B:76 Construction External material PCM Inner material Sprayed aluminum plate Drawer 3(ABS) Access test port 1pc. Ø 25 mm Casters 2+2 balancing feet Data logging/ Interval / Recording time USB/Record every 10 minutes / 100,000 data Interface Remote alarm contact, RS485 Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Performance	
Cooling performance -40°C Climate class N Controller Microprocessor Display Digital display Refrigeration Compressors 1pc Cooling method Direct cooling Defrost mode Manual Refrigerants R290 Insulation thickness(mm) D:80, L/R:80, B:76 Construction External material PCM Inner material Sprayed aluminum plate Drawer 3(ABS) Access test port 1pc. Ø 25 mm Casters 2+2 balancing feet Data logging/ Interval / Recording time USB/Record every 10 minutes / 100,000 data Interface Remote alarm contact, RS485 Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Temperature range	-20~-40°C
Climate class Controller Microprocessor Display Refrigeration Compressors 1pc Cooling method Direct cooling Defrost mode Refrigerants Refrigerants Refrigerants Refrigerants Refrigerants Reso Insulation thickness(mm) D:80, L/R:80, B:76 Construction External material PCM Inner material Sprayed aluminum plate Drawer 3(ABS) Access test port 1pc. Ø 25 mm Casters 2+2 balancing feet Data logging/ Interval /Recording time Interface Remote alarm contact, RS485 Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Electrical System Sensor Error, Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Ambient temperature	16-32°C
Controller Display Digital display Refrigeration Compressors 1pc Cooling method Direct cooling Defrost mode Refrigerants Refrigerants Refrigerants Insulation thickness(mm) External material PCM Inner material Sprayed aluminum plate Drawer 3(ABS) Access test port 1pc. Ø 25 mm Casters Data logging/ Interval /Recording time Interface Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Data logger failure System Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Cooling performance	-40°C
Display Refrigeration Compressors Ipc Cooling method Direct cooling Defrost mode Refrigerants Refrigerants Insulation thickness(mm) External material PCM Inner material Prawer 3(ABS) Access test port Casters Data logging/ Interval /Recording time Interface Backup battery Alarms Temperature Electrical Syrayed aluminum plate USB/Record every10minutes / 100,000 data Remote alarm contact, RS485 Power failure, Low battery Data logger failure Sensor Error, Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz Interface Ipc Direct cooling Direct cooling Direct cooling Dava Que Manual Report Rappe Backup Battery Alarms Sensor Error, Data Communication Failure, Door Ajar	Climate class	N
Refrigeration Compressors Ipc Cooling method Direct cooling Defrost mode Refrigerants Refrigerants Refrigerants Refrigerants Direct cooling Defrost mode Refrigerants Refrigerants Refrigerants Refrigerants Refrigerants Direct cooling Refrigerants Responsive Manual Refrigerants Responsive Manual Responsive Ma	Controller	Microprocessor
Compressors Cooling method Direct cooling Defrost mode Manual Refrigerants R290 Insulation thickness(mm) D:80, L/R:80, B:76 Construction External material PCM Inner material Drawer 3(ABS) Access test port 1pc. Ø 25 mm Casters 2+2 balancing feet Data logging/ Interval /Recording time Interface Backup battery Yes Alarms Temperature Electrical Dower failure, Low battery Data logger failure System Electrical Data Power supply(V/HZ) 110V/60Hz Manual Manu	Display	Digital display
Cooling method Direct cooling Defrost mode Refrigerants R290 Insulation thickness(mm) External material PCM Inner material Drawer 3(ABS) Access test port Casters Data logging/ Interval /Recording time Interface Backup battery Yes Alarms Temperature Electrical Synayed aluminum plate USB/Record every10minutes / 100,000 data Remote alarm contact, RS485 Power failure, Low battery Data logger failure Sensor Error,Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz I10V/60Hz	Refrigeration	
Defrost mode Refrigerants Refrigerants Refrigerants Refrigerants Description External material PCM Inner material Drawer 3(ABS) Access test port Detail logging/ Interval / Recording time Interface Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Electrical System Electrical Data Power supply(V/HZ) 220-240V/50Hz Invalage B. 3(ABS) Remote alarm contact, RS485 Backup battery Power failure, Low battery Data logger failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz I 10V/60Hz	Compressors	1pc
Refrigerants Insulation thickness(mm) D:80, L/R:80, B:76 Construction External material PCM Inner material Sprayed aluminum plate Drawer 3(ABS) Access test port 1pc. Ø 25 mm Casters 2+2 balancing feet Data logging/ Interval /Recording time Interface Remote alarm contact, RS485 Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Electrical Power failure, Low battery Data logger failure System Electrical Data Power supply(V/HZ) 220-240V/50Hz I10V/60Hz	Cooling method	Direct cooling
Insulation thickness(mm) Construction External material PCM Inner material Prawer 3(ABS) Access test port 1pc. Ø 25 mm Casters Data logging/ Interval /Recording time Interface Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Electrical System Electrical Data Power supply(V/HZ) Power supply(V/HZ) DEMA DEMA PCM Sprayed aluminum plate Sprayed alu	Defrost mode	Manual
External material PCM Inner material Sprayed aluminum plate Drawer 3(ABS) Access test port 1pc. Ø 25 mm Casters 2+2 balancing feet Data logging/ Interval /Recording time USB/Record every10 minutes / 100,000 data Interface Remote alarm contact, RS485 Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Electrical Power failure, Low battery Data logger failure System Sensor Error, Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Refrigerants	R290
External material PCM Inner material Sprayed aluminum plate Drawer 3(ABS) Access test port 1pc. Ø 25 mm Casters 2+2 balancing feet Data logging/ Interval / Recording time USB / Record every 10 minutes / 100,000 data Interface Remote alarm contact, RS485 Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Electrical Power failure, Low battery Data logger failure System Sensor Error, Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Insulation thickness(mm)	D:80, L/R:80, B:76
Inner material Drawer 3(ABS) Access test port 1pc. Ø 25 mm Casters Data logging/ Interval /Recording time Interface Backup battery Yes Alarms Temperature Electrical System Sensor Error,Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) System System Sprayed aluminum plate 1pc. Ø 25 mm 2+2 balancing feet USB/Record every10minutes / 100,000 data USB/Record every10minutes / 100,000 data Interface Remote alarm contact, RS485 Yes Alarms Fligh/Low temperature, High ambient temperature Power failure, Low battery Data logger failure Sensor Error,Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Construction	
Drawer Access test port 1pc. Ø 25 mm Casters 2+2 balancing feet Data logging/ Interval /Recording time USB/Record every10 minutes / 100,000 data Interface Remote alarm contact, RS485 Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Electrical Power failure, Low battery Data logger failure System Sensor Error, Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	External material	PCM
Access test port Casters 2+2 balancing feet Data logging/ Interval /Recording time USB/Record every 10 minutes / 100,000 data Interface Remote alarm contact, RS485 Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Electrical Power failure, Low battery Data logger failure System Sensor Error, Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Inner material	Sprayed aluminum plate
Casters 2+2 balancing feet Data logging/ Interval /Recording time USB/Record every10 minutes / 100,000 data Interface Remote alarm contact, RS485 Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Electrical Power failure, Low battery Data logger failure System Sensor Error, Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Drawer	3(ABS)
Data logging/ Interval /Recording time Interface Remote alarm contact, RS485 Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Power failure, Low battery Data logger failure System Sensor Error, Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Access test port	1pc. Ø 25 mm
Interface Remote alarm contact, RS485 Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Electrical Power failure, Low battery Data logger failure System Sensor Error, Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Casters	2+2 balancing feet
Backup battery Yes Alarms Temperature High/Low temperature, High ambient temperature Power failure, Low battery Data logger failure System Sensor Error, Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Data logging/Interval /Recording time	USB/Record every10minutes / 100,000 data
Alarms Temperature High/Low temperature, High ambient temperature Electrical Power failure, Low battery Data logger failure System Sensor Error, Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Interface	Remote alarm contact, RS485
Temperature High/Low temperature, High ambient temperature Power failure, Low battery Data logger failure System Sensor Error, Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Backup battery	Yes
Electrical Power failure, Low battery Data logger failure System Sensor Error, Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Alarms	
System Sensor Error, Data Communication Failure, Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Temperature	High/Low temperature, High ambient temperature
Door Ajar Electrical Data Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	Electrical	
Power supply(V/HZ) 220-240V/50Hz 110V/60Hz	System	
	Electrical Data	
	Power supply(V/HZ)	220-240V/50Hz 110V/60Hz
	Rated current (A)	1.33A 4.19A



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