



Your Haier Biomedical Partner

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Apr.2025

# Biomedical Freezer Solutions

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# -60°C Biomedical Freezer

A versatile low-temperature freezer installed in hospitals, blood stations, diseases control & prevention centers, research institutions, bioscience laboratories and medical laboratories. It is suitable for storing a wide variety of biological products including viruses, bacteria, red blood cells, white blood cells, skin, bone and semen as well as ocean-going supplies and electronic devices. It can also provide a low-temperature environment for testing of special materials.

The secondary application is for the storage of fishery products such as tuna, Australian lobster, salmon, South American shrimps, Argentina red shrimp, top-quality beef, kanpachi, octopus, yellowtail, bonito fish, grouper, and fugu rubripes. This is a requirement for fishery products for human consumption and hence these freezers are popular among professional oceanic fisherman, seafood distributors, speciality seafood stores and sushi restaurants and commercial food manufacturers.



DW-60W258



German Made Energy Efficient Compressor



Digital Temperature Control display



Dual-seal Design



Efficient and Reliable Fan



Quickly freeze sea food products to retain their original taste, structure and freshness.



Low noise output, noise cancelling technology yields a smoother operation and a sound level of less than 43dB(A).



Multiple alarm system includes temperature alarm, and sensor error alarm.



HC refrigerant system is optimized to improve refrigeration efficiency by 30%, and save energy by about 50%.

Single compressor auto cascade refrigeration system provides high efficient cooling power. 100m Insulation ensure optimal thermal protection and energy efficiency.



Dual seal design retains cold and reduces condensation.



304 stainless steel is suitable for both laboratory and is certified food safe for commercial kitchen environments.

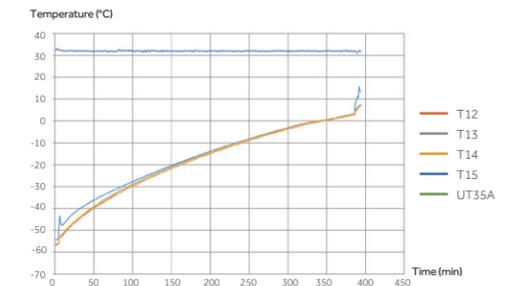
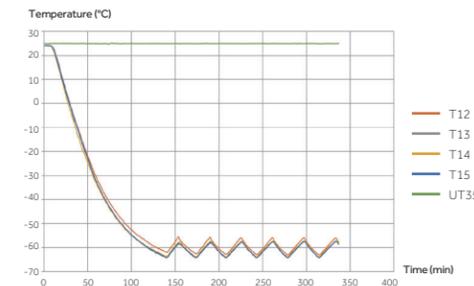


Key lock product protection and lockable casters for ease of moving and safe installation.



An easy to use, waterproof digital controller

## Temperature Curve



## Specifications

Model		DW-60W138	DW-60W258	DW-60W388	
Technical Data	Cabinet Type	Chest	Chest	Chest	
	Climate Class	N	N	N	
	Cooling Type	Direct Cooling	Direct Cooling	Direct Cooling	
	Refrigerant	HC	HC	HC	
	Sound Level (dB(A))	43	43	43	
Performance	Cooling Performance (°C)	-60	-60	-60	
	Temperature Range (°C)	-30~-60	-30~-60	-30~-60	
Control	Controller	Microprocessor	Microprocessor	Microprocessor	
	Display	LED	LED	LED	
Electrical Data	Power Supply (V/Hz)	220-240/50	220-240/50	220-240/50	
	Power (W)	620	620	700	
	Electrical Current (A)	3.1	3.1	5.3	
Dimensions	Capacity (L/Cu.Ft)	138/4.9	258/9.1	388/13.7	
	Net/Gross Weight (approx)	kg	62/75	88/108	105/130
		lbs	137/165	194/238	232/287
	Interior Dimensions (W*D*H)	mm	580*445*620	1000*445*620	1450*445*620
		in	22.8*17.5*24.4	39.4*17.5*24.4	57.1*17.5*24.4
	Exterior Dimensions (W*D*H)	mm	790*770*950	1210*770*950	1655*770*950
in		31.1*30.3*37.4	47.6*30.3*37.4	65.2*30.3*37.4	
Packing Dimensions (W*D*H)	mm	815*800*990	1255*800*990	1695*800*990	
	in	32.1*31.5*39	49.4*31.5*39	66.7*31.5*39	
Alarms	Container Load (20'/40'/40'H)	28/56/56	22/46/46	14/28/28	
	High/Low Temperature	Y	Y	Y	
	Sensor Error	Y	Y	Y	
Accessories	Caster	Y	Y	Y	
	Porthole	Y	Y	Y	
Others	Certificate	CE, MDR	CE, MDR	CE, MDR	

## -40°C Biomedical Freezer (Chest)

This product is designed to store vaccines, blood plasma and many other biological materials. Suitable for scientific research institutes, blood stations, hospitals, centers for disease control and prevention, and material science, electronics and chemical laboratories.



DW-40W138J/255J/380J

### Product Features



#### Temperature Control

- Microcomputer control, digital temperature display, display precision is 0.1°C. Adjustable temperature set point -20°C--40°C
- User settable temperature alarms



#### Safety System

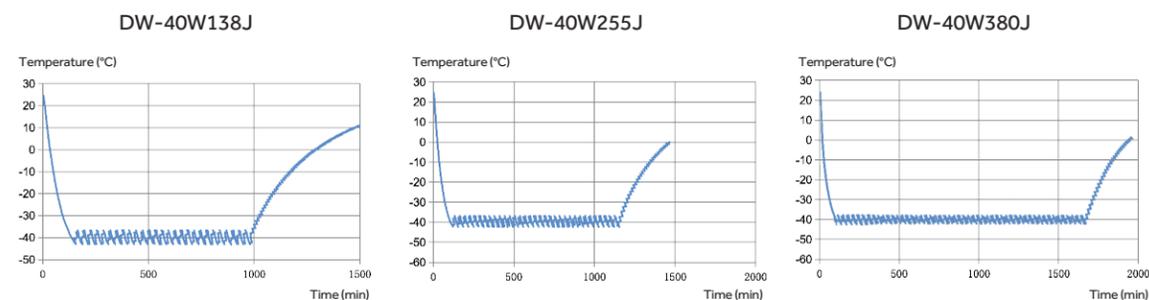
- Multiple alarms: high/low temperature alarm/sensor error alarm/power failure alarm. Optional high ambient warning and remote alarm contacts
- Battery backed-up alarm will alert for more than 24 hours in case of power failure
- Equipped with overcurrent protector for safety



#### Refrigeration System

- Durable, market-leading brand compressors and EBM condensing fan ensure a high refrigeration efficiency and maximizes temperature performance
- High density insulation layer delivers superior insulation performance
- Evaporator and condenser design delivers excellent refrigeration efficiencies
- Non-toxic, environmentally-friendly hydrocarbon refrigerants

### Temperature Curve



### Specifications



Model		DW-40W138J	DW-40W255J	DW-40W380J	
Technical Data	Cabinet Type	Chest	Chest	Chest	
	Climate Class	SN N	SN N	SN N	
	Cooling Type	Direct Cooling	Direct Cooling	Direct Cooling	
	Defrost Mode	Manual	Manual	Manual	
	Refrigerant	HC	HC	HC	
	Sound Level (dB(A))	42	42	42	
Performance	Cooling Performance (°C)	-40	-40	-40	
	Temperature Range (°C)	-20~-40	-20~-40	-20~-40	
Control	Controller	Microprocessor	Microprocessor	Microprocessor	
	Display	LCD	LCD	LCD	
	Power Supply (V/Hz)	220-240/50	220-230/50	220-230/50	
Electrical Data	Power (W)	260	370	450	
	Capacity (L/Cu.Ft)	138/4.9	255/9.0	380/13.4	
Dimensions	Net/Gross Weight (approx)	kg	52/65	76/96	90/115
		lbs	114.6/143.3	167.5/211.6	198.4/253.5
	Interior Dimension (W×D×H)	mm	580*445*620	1000*445*620	1450*445*620
		in	22.8*17.5*24.4	39.4*17.5*24.4	57.1*17.5*24.4
	Exterior Dimension (W×D×H)	mm	790*770*950	1210*770*950	1655*770*950
		in	31.1*30.3*37.4	47.6*30.3*37.4	65.2*30.3*37.4
	Packing Dimension (W×D×H)	mm	840*810*1000	1260*810*1000	1710*815*990
		in	33.1*31.9*39.4	49.6*31.9*39.4	67.3*32.1*39.0
Container Load (20'/40'/40'H)		28/56/56	16/36/54	12/28/28	
Alarms	High/Low Temperature	Y	Y	Y	
	Remote Alarm	Optional	Optional	Optional	
	Power Failure	Y	Y	Y	
	Sensor Error	Y	Y	Y	
	Low Battery	N	N	N	
	High Ambient Temperature	Optional	Optional	Optional	
	Dirty Condenser	N	N	N	
	Door Ajar	N	N	N	
	Casters	Y(4)	Y(4)	Y(4)	
	Leveling Feet	N	N	N	
Porthole	Y, 1*Left Side, (25mm)Diameter	Y, 1*Left Side, (25mm)Diameter	Y, 1*Left Side, (25mm)Diameter		
Accessories	Inner Doors	N	N	N	
	Drawers	N	N	N	
	Shelves	N	N	N	
	Storage Basket	1	2	6	
	USB Interface	Optional	Optional	Optional	
	RS485	Optional	Optional	Optional	
	NFC	N	N	N	
	Temperature Recorder	N	N	N	
Others	Certificate	CE, MDR	CE, MDR	CE, MDR	

## -40°C Biomedical Freezer (Upright)

Suitable for the storage of plasma, biological material, reagents and other essential items. Used within hospitals, disease prevention, academia and commercial laboratories.



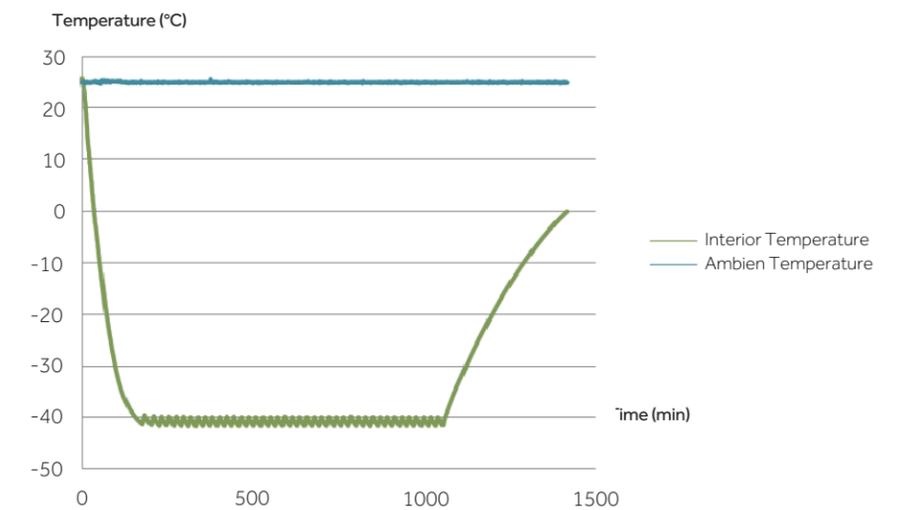
DW-40L298J

### Scope of Application

- 
**HC Energy-saving**  
 High efficiency hydrocarbon compressor and refrigeration technology for a lower energy consumption
- 
**Superior Uniformity**  
 With the optimized system design, the temperature uniformity of the characteristic point is  $\pm 3^{\circ}\text{C}$ , and the uniformity of the whole temperature zone is controlled within  $\pm 5^{\circ}\text{C}$
- 
**Environmental Protection**  
 Hydrocarbon refrigerant, LBA foam polyurethane insulation layer
- 
**Adjustable Shelves**  
 Built-in evaporator and adjustable shelves provides large available interior space. Users can store items of different sizes as needed

### Temperature Curve

DW-40L298J Typical Performance Characteristics at 25°C Ambient



# -40°C Biomedical Freezer (Upright)

## Specifications



Model		DW-40L92		DW-40L262		DW-40L298J		DW-40L298JA		DW-40L568J		
Technical Data	Cabinet Type	Upright		Upright		Upright		Upright		Upright		
	Climate Class	SN N		SN N		SN N		SN N		SN N		
	Cooling Type	Direct Cooling		Direct Cooling		Direct Cooling		Direct Cooling		Direct Cooling		
	Defrost Mode	Manual		Manual		Manual		Manual		Manual		
	Refrigerant	HC		HC	CFC-Free	HC		HC		HC		
	Sound Level (dB(A))	29		41	44	40	42	45		45		
Performance	Cooling Performance (°C)	-40		-40		-40		-40		-40		
	Temperature Range (°C)	-20~-40		-20~-40		-20~-40		-20~-40		-20~-40		
Control	Controller	Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor		
	Display	LCD		LCD		LED		LED		LCD		
Electrical Data	Power Supply (V/Hz)	220~240/50/60		220~240/50/60	115/60	220~240/50	208~230/60	220~240/50		220~240/50		
	Power (W)	340		310	600	350	270	340		340		
Dimensions	Capacity (L/Cu.Ft)	92/3.3		262/9.3		298/10.5		568/20.1		568/20.1		
	Net/Gross Weight (approx)	kg	46/51		88/93		119/147		190/215		190/215	
		lbs	101.4/112.4		194.0/205.0		262.3/324.1		418.9/474		418.9/474	
	Interior Dimension (W×D×H)	mm	435*410*635		480*465*1430		541*443*1218		610*755*1260		610*755*1260	
		in	17.1*16.1*25.0		18.9*18.3*56.3		21.3*17.4*48.0		24*29.7*49.6		24*29.7*49.6	
	Exterior Dimension (W×D×H)	mm	640*610*810		700*705*1665		770*710*1828		848*951*1780		848*951*1780	
		in	25.2*24.0*31.9		27.6*27.8*65.6		30.3*28.0*72.0		33.4*37.4*70.1		33.4*37.4*70.1	
	Packing Dimension (W×D×H)	mm	660*700*910		775*760*1880		840*770*2000		910*1040*1930		910*1040*1930	
in		26.0*27.6*35.8		30.5*29.9*74.0		33.0*30.3*78.7		35.8*40.9*76.0		35.8*40.9*76.0		
Alarms	Container Load (20'/40'/40'H)	48/108/108		21/45/45		21/42/42		10/22/22		10/22/22		
	High/Low Temperature	Y		Y		Y		Y		Y		
	Remote Alarm	Y		Y		Y		Y		Y		
	Power Failure	Y		Y		Y		Y		Y		
	Sensor Error	Y		Y		Y		Y		Y		
	Low Battery	N		N		Y		N		N		
	High Ambient Temperature	Y		Y		Y		Y		Y		
	Dirty Condenser	N		N		N		N		N		
Accessories	Door Ajar	Y		Y		Y		Y		Y		
	Casters	Y(4)		Y(4)		Y(4)		Y(4)		Y(4)		
	Leveling Feet	Y(2)		Y(2)		Y(2)		Y(2)		Y(2)		
	Porthole	Y, 1*Left Side, (25mm)Diameter		Y, 1*Left Side, (25mm)Diameter		Y, 1*Left Side, 1*Right Side, (25mm)Diameter		Y, 2*Rear, (25mm)Diameter		Y, 2*Rear, (25mm)Diameter		
	Inner Doors	N		N		2		2		2		
	Drawers	3- Plastic Drawers		7- Plastic Drawers		6- Plastic Drawers, Optional		16/20/24-Plastic Blood Bag Drawers, Optional		16/20/24-Plastic Blood Bag Drawers, Optional		
	Shelves	N		N		3- Adjustable Wire Shelves		3- Adjustable Wire Shelves		3- Adjustable Wire Shelves		
	Shelf Dimensions (W×D)(mm)	N		N		518*373		569*665		569*665		
	Max. Load per Shelf (kg)	N		N		20		38		38		
	USB Interface	Optional		Optional		Optional		Optional		Optional		
RS485	Optional		Optional		Optional		Optional		Optional			
NFC	N		N		N		N		N			
Temperature Recorder	N		N		Optional		Optional		Optional			
Others	Certificate	CE, MDR		CE, MDR	/	CE, MDR	CE, MDR	CE, MDR		CE, MDR		

# -40°C Biomedical Freezer (Double Doors Type)

Suitable for the storage of plasma, biological material, reagents and other essential items. Used within hospitals, disease prevention, academia and commercial laboratories.



DW-40L418D/528D

### Scope of Application:



#### HC Energy-saving

High efficiency hydrocarbon compressor and refrigeration technology for a lower energy consumption



#### Superior Uniformity

With the optimized system design, the temperature uniformity of the characteristic point is  $\pm 3^{\circ}\text{C}$ , and the uniformity of the whole temperature zone is controlled within  $\pm 5^{\circ}\text{C}$



#### Environmental Protection

Hydrocarbon refrigerant, LBA foam polyurethane insulation layer

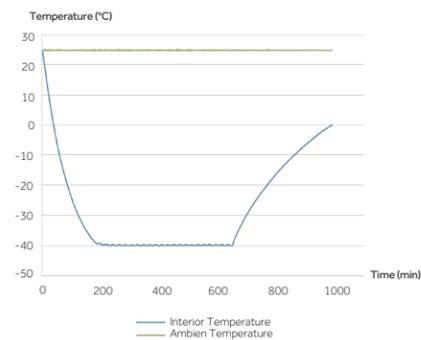


#### Adjustable Shelves

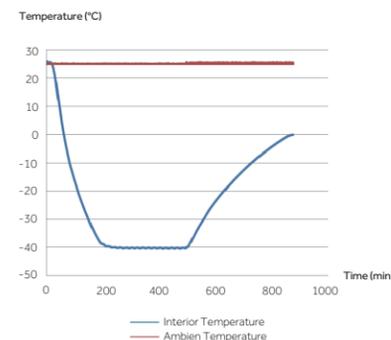
Built-in evaporator and adjustable shelves provides large available interior space. Users can store items of different sizes as needed

### Temperature Curve

DW-40L418D Typical Performance Characteristics at 25°C Ambient



DW-40L528D Typical Performance Characteristics at 25°C Ambient



### Specifications



Model		DW-40L418D	DW-40L528D	DW-40L528DA	
Technical Data	Cabinet Type	Upright (Double Door)		Upright (Double Door)	
	Climate Class	SN N		SN N	
	Cooling Type	Direct Cooling		Direct Cooling	
	Defrost Mode	Manual		Manual	
	Refrigerant	HC		HC	
	Sound Level (dB(A))	40	39	42	
Performance	Cooling Performance (°C)	-40		-40	
	Temperature Range (°C)	-20--40		-20--40	
Control	Controller	Microprocessor		Microprocessor	
	Display	LED		LED	
Electrical Data	Power Supply (V/Hz)	220-240/50	220-240/50	208-230/60	
	Power (W)	370	375	280	
Dimensions	Capacity (L/Cu.Ft)	418/14.8		531/18.8	
	Net/Gross Weight (approx)	kg	141/169	147/178	
		lbs	310.8/372.6	324.1/392.4	
	Interior Dimension (W×D×H)	mm	554*620*1230	704*620*1230	
		in	21.8*24.4*48.4	27.7*24.4*48.4	
	Exterior Dimension (W×D×H)	mm	790*845*1878	940*845*1878	
		in	31.1*33.3*73.9	37.0*33.3*73.9	
	Packing Dimension (W×D×H)	mm	860*930*2040	1005*940*2040	
		in	33.9*36.6*80.3	39.6*37.0*80.3	
	Container Load (20'/40'/40'H)		12/24/26	10/22/24	
Alarms	High/Low Temperature	Y		Y	
	Remote Alarm	Y		Y	
	Power Failure	Y		Y	
	Sensor Error	Y		Y	
	Low Battery	Y		Y	
	High Ambient Temperature	Y		Y	
	Dirty Condenser	N		N	
	Door Ajar	Y		Y	
	Casters	Y(4)		Y(4)	
	Leveling Feet	Y(2)		Y(2)	
Accessories	Porthole	Y, 1*Left Side, 1*Right Side, (25mm)Diameter		Y, 1*Left Side, 1*Right Side, (25mm)Diameter	
	Inner Doors	N		N	
	Drawers	12- Plastic Drawers, Optional		10- Plastic Drawers, Optional	
	Shelves	3- Adjustable Wire Shelves		3- Adjustable Wire Shelves	
	Shelf Dimensions (W×D)(mm)	530*528		680*537	
	Max. Load per Shelf (kg)	28		37	
	USB Interface	Optional		Optional	
	RS485	Optional		Optional	
	NFC	N		N	
	Temperature Recorder	Optional		Optional	
Others	Certificate	CE, MDR	CE, MDR	CE, MDR	

# -40°C Smart Frequency Conversion Biomedical Freezer



DW-40L818BPT

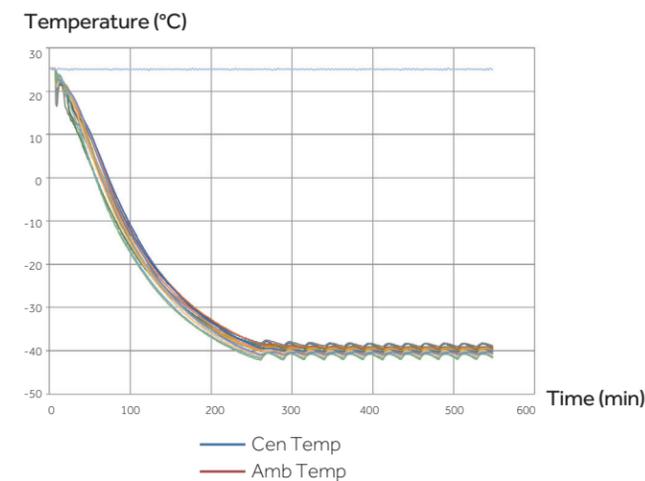
## Product Features

- High-efficiency and energy-saving compressor and system**  
 Optimized refrigeration system with a high efficiency inverter compressor to reduce energy consumption
- Green and environmentally friendly**  
 Hydrocarbon refrigerant, energy saving and environmental protection, built with Urethane foam insulation complies with European ROHS regulation
- Superior temperature uniformity in a large storage space**  
 Built-in evaporator design, and the shelf height can be adjusted according to the size of the stored articles, so as to realize the efficient use of large space in the cabinet.  
 The temperature uniformity is  $\pm 3^{\circ}\text{C}$  with the setting temperature of  $-40^{\circ}\text{C}$ .
- Low sound level**  
 Noise level less than 45dB(A), providing a more comfortable environment

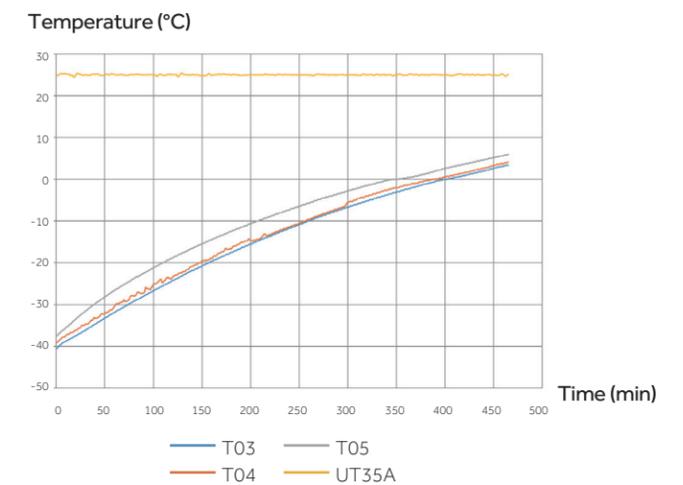
## Ergonomic Design

- 
**Microprocessor-controlled system**  
 Microprocessor control, with temperature display precision at  $0.1^{\circ}\text{C}$ . Internal temperature is adjustable from  $-20^{\circ}\text{C}$  to  $-40^{\circ}\text{C}$ .
- 
**Configuration**  
 Standard: RS485 interface  
 Optional: Temperature recorder, USB interface, 10-inch touch screen, Stainless steel shelves, Plastic blood bag drawers
- 
**Multiple alarm functions**  
 Including high/ low temperature, sensor error, power failure, low battery, high ambient, and door ajar alarms. Alarm mode is sound and flash. And the remote alarm interface is available
- 
**Safe and secure**  
 Equipped with key lock, padlock, optional electronic lock, providing multiple safeguards for sample safety
- 
**Porthole**  
 Two portholes as standard, allows for independent testing of cabinet temperature

## Temperature Curve



DW-40L818BP



## -40°C Smart Frequency Conversion Biomedical Freezer

### Application Range

Used in the blood banks, hospitals, disease control centers, research institutes, electronic, chemical and other industries, cryopreservation of plasma, biologics and other products, and cold tests for components and materials.

### Product Features

- 
**High-efficiency and Energy-saving Compressor and System**  
 Optimized refrigeration system with a high efficiency inverter compressor to reduce energy consumption.
- 
**Green and Environmental Friendly**  
 Hydrocarbon refrigerant, energy saving and environmental protection, built with urethane foam insulation complies with European ROHS regulation.
- 
**Low Sound Level**  
 Noise level less than 42dB(A), providing a more comfortable environment.
- 
**Superior Temperature Uniformity**  
 The temperature uniformity is  $\pm 3^{\circ}\text{C}$  with the setting temperature of  $-40^{\circ}\text{C}$ .
- 
**Intelligent Control**  
 10-inch high-performance touch screen, sensitive touch operation. Users can check the real-time operating status

### Ergonomic Design

- 
**Microprocessor-controlled System**  
 Microprocessor control, with temperature display precision at  $0.1^{\circ}\text{C}$ . Internal temperature is adjustable from  $-20^{\circ}\text{C}$  to  $-40^{\circ}\text{C}$ .
- 
**Multiple Alarm Functions**  
 Including high/ low temperature, sensor error, power failure, low battery, high ambient, and door ajar alarms. Alarm mode is sound and flash. And the remote alarm interface is available.
- 
**Super-large Capacity**  
 Large capacity (700 2-inch box) to accommodate the multiple storage needs.
- 
**Configuration**  
 Standard: 10-inch touch screen, RS485 interface, 2 coated steel wired shelves.  
 Optional: Temperature recorder, Printer, USB interface, NCF, IoT module, Stainless steel shelves, Plastic blood bag drawers.
- 
**Safe and Secure**  
 Equipped with key lock, padlock, optional electronic lock, providing multiple safeguards for sample safety.

## -40°C Biomedical Freezer

### Product Parts



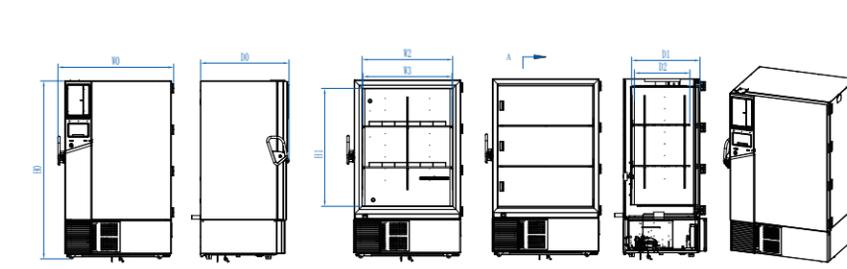
- Document holding compartment for storing size A4 paper and pens
- 10-inch touchscreen
- NFC clocking-in function (optional)
- Optional USB port allows users to download temperature data saved up to 10 years for compliance and auditing purposes
- Casters and leveling legs for ease of maneuvering and positioning

### DW-40L959BPT



- Shelf height can be adjusted according to the size of the stored articles, so as to realize the efficient use of large space in the cabinet (SUS304 stainless shelves as optional)
- Pressure equalization port for easy door opening
- Ergonomic handle design: easy access to storage space, built in lock and padlock features
- Two standard portholes allow ease of temperature testing

### Product Dimension Drawings



Remark  
 W0=Total Width  
 W1=Freezer Width  
 W2=Inner Cabinet Width  
 W3=Inner Cabinet Shelf Width  
 D0=Total Depth  
 D1=Inner Cabinet Depth  
 D2=Inner Cabinet Shelf Depth  
 H0=Total Height  
 H1=Inner Cabinet Height

Model	Code	W0	W1	W2	W3	D0	D1	D2	H0	H1
DW-40L959BPT		1296mm	1196mm	1016mm	1008mm	998mm	716mm	641mm	1980mm	1310mm

# -40°C Biomedical Freezer

## Specifications



Model		DW-40L818BPT	DW-40L818BP	DW-40L959BPT	DW-40L959BP	
Technical Data	Cabinet Type	Upright	Upright	Upright	Upright	
	Climate Class	SN N	SN N	SN N	SN N	
	Cooling Type	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling	
	Defrost Mode	Manual	Manual	Manual	Manual	
	Refrigerant	HC	HC	HC	HC	
	Sound Level (dB(A))	44	44	42	42	
Performance	Cooling Performance (°C)	-40	-40	-40	-40	
	Temperature Range (°C)	-20~-40	-20~-40	-20~-40	-20~-40	
Control	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	
	Display	Touch Screen LCD	LED	Touch Screen LCD	LED	
Electrical Data	Power Supply (V/Hz)	100~230/50/60	100~230/50/60	100~230/50/60	100~230/50/60	
	Power (W)	795	795	800	800	
Dimensions	Capacity (L/Cu.Ft)	818/28.9	818/28.9	959/33.9	959/33.9	
	Net/Gross Weight (approx)	kg	210/240	210/240	350/400	350/400
		lbs	463.0/529.1	463.0/529.1	771.6/881.8	771.6/881.8
	Interior Dimension (W×D×H)	mm	750*755*1460	750*755*1460	1016*716*1310	1016*716*1310
		in	29.5/29.7/57.5	29.5/29.7/57.5	40.0*28.2*51.6	40.0*28.2*51.6
	Exterior Dimension (W×D×H)	mm	988*951*1980	988*951*1980	1296*998*1980	1296*998*1980
		in	38.9/37.4/78.0	38.9/37.4/78.0	51.0*39.3*78.0	51.0*39.3*78.0
	Packing Dimension (W×D×H)	mm	1040*1035*2110	1040*1035*2110	1358*1098*2127	1358*1098*2127
in		40.9*40.7*83.1	40.9*40.7*83.1	53.5*43.2*83.7	53.5*43.2*83.7	
Alarms	Container Load (20'/40'/40'H)	10/22/22	10/22/22	8/16/16	8/16/16	
	High/Low Temperature	Y	Y	Y	Y	
	Remote Alarm	Y	Y	Y	Y	
	Power Failure	Y	Y	Y	Y	
	Sensor Error	Y	Y	Y	Y	
	Low Battery	Y	Y	Y	Y	
	High Ambient Temperature	Y	Y	Y	Y	
	Dirty Condenser	N	N	N	N	
Door Ajar	Y	Y	Y	Y		
Accessories	Casters	Y(4)	Y(4)	Y(4)	Y(4)	
	Leveling Feet	Y(2)	Y(2)	Y(2)	Y(2)	
	Porthole	Y, 2*Rear, (25mm)Diameter	Y, 2*Rear, (25mm)Diameter	Y, 2*Rear, (25mm)Diameter	Y, 2*Rear, (25mm)Diameter	
	Inner Doors	3	3	3	3	
	Drawers	30- Plastic Blood Bag Drawers, Optional	30- Plastic Blood Bag Drawers, Optional	21/42-Plastic Blood Bag Drawers, Optional	21/42-Plastic Blood Bag Drawers, Optional	
	Shelves	5- Adjustable Wire Shelves	5- Adjustable Wire Shelves	2- Adjustable Wire Shelves	2- Adjustable Wire Shelves	
	Shelf Dimensions (W×D)(mm)	706*665	706*665	1000*641	1000*641	
	Max. Load per Shelf (kg)	50	50	65	65	
	USB Interface	Optional	Optional	Optional	Optional	
	RS485	Y	Y	Y	Y	
	NFC	Optional	Optional	Optional	Optional	
	Temperature Recorder	Optional	Optional	Optional	Optional	
	Others	Certificate	CE, MDR	CE, UL, MDR	CE, UL, MDR	

# -30°C Biomedical Freezer (Forced Air Cooling)

## Typical Installation and Application

Large capacity, double door biomedical freezer, designed and manufactured for the low temperature storage of plasma, biological products and other items.



DW-30L1280F

## Product Parts

Microcomputer control, LED digital temperature display with inside temperature accuracy of 0.1°C

Optional: LCD Touchscreen



Supersized double outer door, 70mm insulation layer

Safe lock  
Electronic mortise lock design, with NFC clocking-in function (fingerprint optional)



Low noise

Casters and feet  
4 omnidirectional casters+2 level legs. easy to move, lock and level

Bottom strainer drawable design  
Easy to clean



Optimized system  
Ensures fast cool down, reaches -30°C within 3 hours

Standard USB port  
Capable of storing more than 15 years of data



# -30°C Biomedical Freezer (Forced Air Cooling)

## Key Features



### Intelligent Defrosting: Prolongs the Defrosting Cycle, Safeguarding the Stability of the Storage Temperature

Compared with traditional timed defrosting, the intelligent defrosting technology reduces the defrosting frequency by half, effectively draws down the temperature fluctuation caused by defrosting during the sample storage cycle by intelligently identifying the amount of frost on the evaporator.



### Dual Independent Refrigeration Systems: Superior Safety

If one system fails, the other one would reach -25°C quickly, which doubles the safety of the sample; With air cooling technology, the inside uniformity can reach  $\pm 3^{\circ}\text{C}$  ( $\pm 5^{\circ}\text{C}$  during the defrosting period).



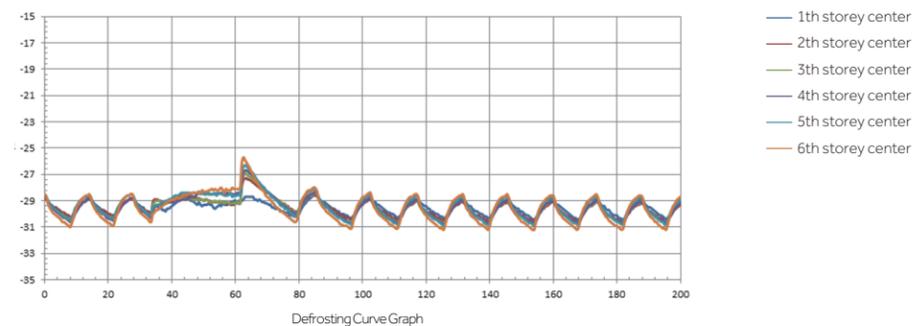
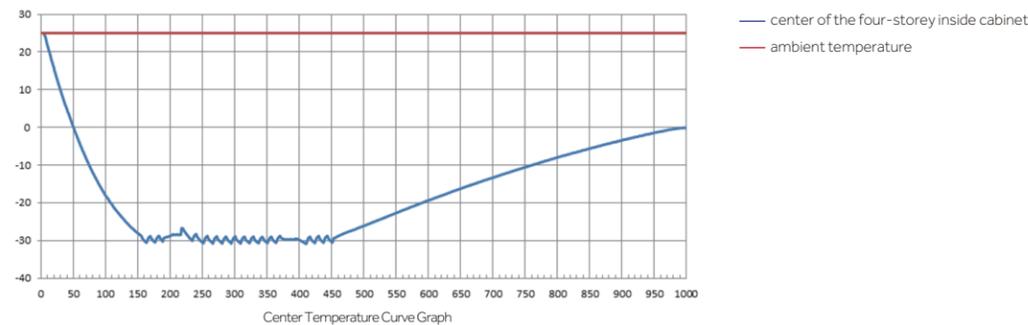
### Advanced Defrosting Technology Optimised Safety

The automatic hot gas defrosting technology eliminates the risk of electrical leakage which can occur with heated wire defrosting techniques.



### Green Hydrocarbon Refrigeration

The DW-30L1280F utilises HC refrigeration technology which is energy-efficient and has a zero impact on the ozone layer. The energy consumption of this model is 8kW/24H.



## Application Range

Applied for the storage of critical and temperature sensitive biological samples, laboratory products and medical products. Suitable for blood banks, hospitals, disease control centers, research laboratories.



DW-30L520F

## Product Features



### Forced Air and Auto Defrost Design

-30°C storage temperature with automatic defrost cycles guided by time and temperature, ensure maximum temperature stability and minimize energy consumption



### Superior Temperature Uniformity

The temperature uniformity is  $\pm 3^{\circ}\text{C}$  with the setting temperature of -30°C



### High-efficiency and Energy-saving Compressor and System

High-efficiency hydrocarbon compressor, optimized refrigeration system and low power consumption



### Green and Environmentally Friendly

Hydrocarbon refrigerant, energy saving and environmental protection, built with LBA foam insulation, the GWP is close to 0



### Microprocessor-controlled System

Microprocessor control, with temperature display precision at 0.1°C. Internal temperature is adjustable from -10°C to -30°C



### Configuration

- Standard: 4 layer adjustable shelves
- Optional: 10-inch touch screen, USB interface, NFC, chart recorder, stainless steel shelf, blood basket



### Safe and Secure

Designed with key lock, padlock, optional electronic lock, providing multiple safeguards for sample safety



### Multiple Alarm Functions

Including high/low temperature alarm, sensor error alarm, power failure alarm, low battery alarm, door ajar alarm, high ambient temperature alarm, condenser dirty alarm. Alarm mode is sound and flash



### Low Noise Design

Noise-reduction features and structure noise reduction design

# -30°C Biomedical Freezer (Forced Air Cooling)

### Exceptional cooling

Air-forced cooling combined with automatic defrost technology for high-performance cooling

### Access port

Designed with two standard access ports on the left and right sides of the freezer, convenient for users to conduct independent testing

### Exceptional cooling

4 adjustable shelves, (optional: stainless steel shelf, plastic blood bag drawers)

### Safe and secure

Designed with key lock, padlock, optional electronic lock, providing multiple safeguards for samole safety

### Microprocessor temperature control, LED display panel (optional: 10-inch touch screen)

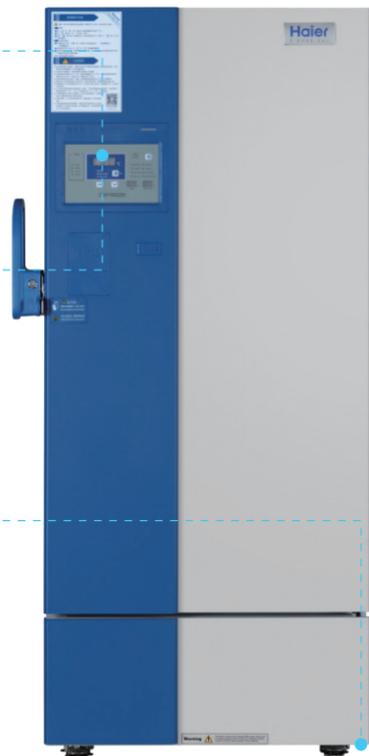
LED displays cabinet temperature with 0.1°C resolution, ambient temperature, and input voltage

### Optional: LCD Touchscreen



### Feet and casters

4 back-and-forth casters and w adjustable feet for easy moving and leveling



## Specifications



Model		DW-30L520F		DW-30L1280F		
Technical Data	Cabinet Type	Upright		Upright (Double Door)		
	Climate Class	SN N		N		
	Cooling Type	Forced Air Cooling		Forced Air Cooling		
	Defrost Mode	Automatic Defrost		Automatic Defrost		
	Refrigerant	HC		HC		
	Sound Level (dB(A))	44	45	46		
Performance	Cooling Performance (°C)	-30		-30		
	Temperature Range (°C)	-10~-30		-10~-30		
Control	Controller	Microprocessor		Microprocessor		
	Display	LED		LED		
Electrical Data	Power Supply (V/Hz)	220-240/50	208-230/60	220-240/50		
	Power (W)	650	495	900		
Dimensions	Capacity (L/Cu.Ft)	520/18.4		1280/45.2		
	Net/Gross Weight (approx)	kg	210/252		420/480	
		lbs	463.0/555.6		925/1057	
	Interior Dimension (W×D×H)	mm	610*755*1006		1320*752*1260	
		in	24/29.7/39.6		52/29.6/49.6	
	Exterior Dimension (W×D×H)	mm	848*1011*1780		1520*1065*1996	
		in	33.4/39.8/70.1		59.8/41.9/78.6	
	Packing Dimension (W×D×H)	mm	900*1060*1920		1580*1100*2100	
		in	35.4*41.7*75.6		62.2*43.3*82.7	
	Container Load (20'/40'/40'H)	10/22/22		6/14/14		
Alarms	High/Low Temperature	Y		Y		
	Remote Alarm	Y		Y		
	Power Failure	Y		Y		
	Sensor Error	Y		Y		
	Low Battery	Y		Y		
	High Ambient Temperature	Y		Y		
	Dirty Condenser	Y		Y		
	Door Ajar	Y		Y		
	Casters	Y(4)		Y(4)		
	Leveling Feet	Y(2)		Y(2)		
Accessories	Porthole	Y, 1*Left Side, 1*Right Side, (25mm)Diameter		Y, 1*Left Side, 1*Right Side, (25mm)Diameter		
	Inner Doors	N		N		
	Drawers	16/20-Plastic Blood Bagd Rawers, Optional		48- Plastic Blood Bag Drawers, Optional		
	Shelves	4- Adjustable Wire Shelves		12- Adjustable Stainless Steel Shelves		
	Shelf Dimensions (W×D)(mm)	580*670		569*673		
	Max. Load per Shelf (kg)	39		40		
	USB Interface	Optional		Y		
	RS485	Y		Y		
	NFC	Optional		Y		
	Temperature Recorder	Optional		N		
Others	Certificate	CE, MDR	/	CE, MDR		

# -30°C Smart Frequency Conversion Biomedical Freezer

## Typical Installation and Application

Suitable for sample storage within blood banks, hospitals, disease control centres, research institutes, electronic, chemical and other industries, cryopreservation of plasma, biologics and other products, also suitable for cold tests for components and materials.



DW-30L818BPT

### Key Features

- 
**Energy-efficient Variable Frequency Inverter Technology**  
 Optimized refrigeration system with a high-efficiency inverter compressor to reduce energy consumption.
- 
**Large Capacity Storage with Excellent Temperature Uniformity**  
 The unit offers a large storage space with adjustable shelves, the built-evaporator ensures quick temperature pull down times and excellent temperature uniformity of  $\pm 3^{\circ}\text{C}$ .
- 
**Low Noise**  
 Sound reduction design lowers the sound level to 37dB(A) at 220V/50Hz.
- 
**Environment Friendly**  
 1) HC refrigeration system contains zero chlorine and fluorine, which is better for the environment.  
 2) Urethane foam insulation complies with European ROHS regulation.

## Product Advantages

**DW-30L818BPT**

- Ergonomic Design:** document holding compartment for storing size A4 paper and pens.
- Optional USB port** allows users to download temperature data saved up to 10 years for compliance and auditing purposes.
- Double door seals** for better insulation performance.
- Microprocessor temperature control:** LED displays cabinet temperature with 0.1°C resolution, ambient temperature, and input voltage.
- Pressure equalization port** for easy door opening.
- Ergonomic handle design:** easy access to storage space, built in lock and padlock features.
- Inner door design** reduces loss of cold air to improve energy efficiency and stable temperature.
- Casters and leveling legs** for ease of maneuvering and positioning.
- Optional stainless steel shelves** or coated steel are adjustable.
- Power coating galvanized interior** with large round corner design, corrosion resistance and easy to clean.
- Plastic blood bag drawer (optional):** 25 blood bags (450ml/bag) can be loaded for one drawer, totally 750 blood bags for 30 drawers. (Note: The dimension of one blood bag is 125\*26\*190mm).

## -30°C Smart Frequency Conversion Biomedical Freezer

## -30°C Biomedical Freezer (Direct Cooling)

### Microprocessor Control System

- Microprocessor-based temperature control.
- Large LED displays cabinet temperature with 0.1 °C resolution with adjustable temperature setting from -10 °C to -30 °C.
- Cabinet temperature, ambient temperature and voltage are shown on the panel.
- Alarm conditions include high and low temperature, sensor error, power failure, low battery, door ajar and high ambient.
- Alarm modes are audible and flashing lights. Remote alarm terminals are available.
- Battery supports display and alarm system for forty-eight hours after power outage.
- Optional features are IoT module, USB port, temperature recorder and NFC swipe card functions.

### Insulation

- 70 mm thick insulation.
- Inner doors for better thermal efficiency.

### Porthole

Two standard portholes allow ease of temperature testing.

### Security Lock

Lock is standard. Magnetic lock is optional for added protection and security

### Temperature Recorder

Optional temperature recorder for temperature recording and compliance.



### Typical Installation and Application

For use in blood banks, hospitals, research institutions, electronics, chemical and other industries, for the preservation of plasma and biological products and cryogenic test of components and materials.

### Key Features



#### Energy Efficient Hydrocarbon (HC) Refrigeration System

Optimized refrigeration system, utilising high-efficiency HC compressor significantly reduces energy consumption.



#### Greener By Design

HC refrigerants are natural non-toxic and more environmentally friendly than HFC refrigerants. This alongside the HC compressor technology and LBA foamed polyurethane insulation layer, make this unit greener and in-line with European ROHS directives and environmental protection guidelines.



#### Large Capacity, Superior Uniformity

Built-in evaporator for faster cooling speed and uniform temperature throughout the cabinet, ±3°C. Large internal space with adjustable shelves for flexible configuration.



#### Low Noise

Optimized system and cabinet design ensures low noise emissions, less than 44dB(A).

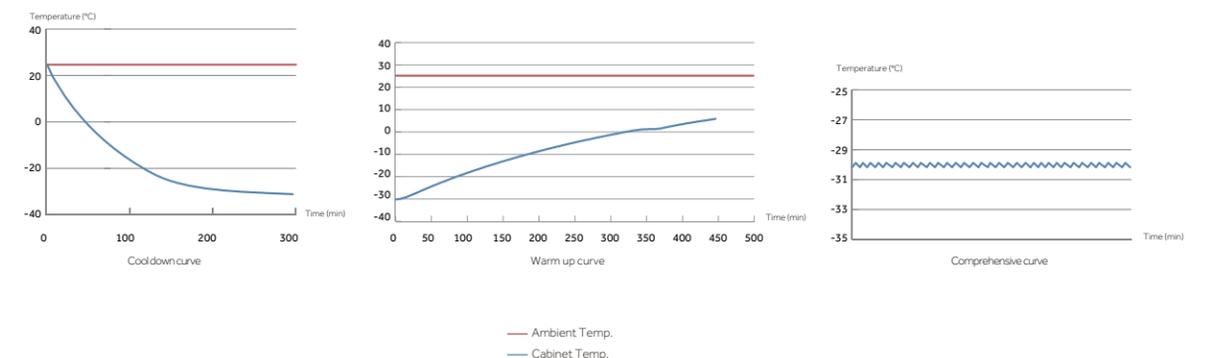
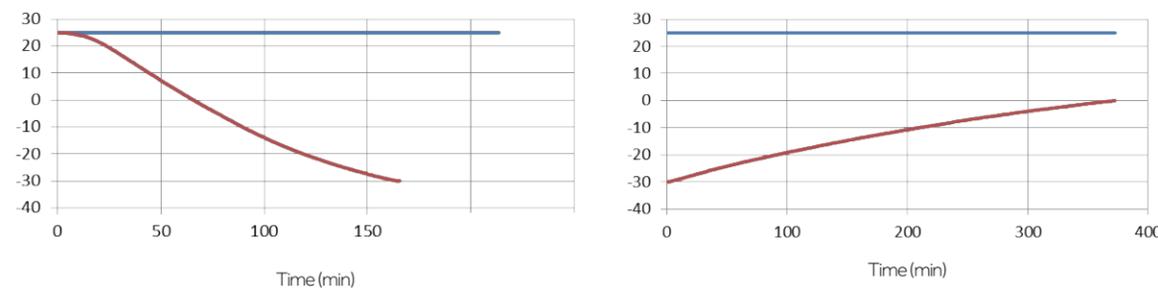


DW-30L818

### Typical Performance Characteristics at 25°C ambient

### Typical Performance Characteristics at 25°C ambient

— Ambient Temp.  
— Center Temp.



# -30°C Biomedical Freezer (Direct Cooling)

## Product Advantages

**Ergonomic Handle Design:** easy access to storage space, built in lock and padlock features.

**Easy to clean and Corrosion Resistant**  
Electric zinc plate powder sprayed internal liner and large round corner design and coated steel plate exterior design ensure reliable corrosion prevention which is easy to clean.



**DW-30L818**

4 multi-directional casters and 2 lockable feet make it easy to move, level and lock in place.

Microcomputer electronic thermostat, LCD digital display of inside temperature, with 0.1°C display accuracy.

**Double Seal Design** Provides better insulation and saves energy.

Inner doors prevent rapid loss of cold air, saving energy and reducing temperature fluctuations.

**Flexible Internal Storage**  
Equipped with 5 plastic coated steel wire shelves with optional stainless steel shelves, which are adjustable to meet the different requirements of users.

Plastic blood bag drawer (optional): 25 blood bags (450ml/bag) can be loaded for one drawer, a totally 750 blood bags for 30 drawers.  
(Note: The dimension of one blood bag is 125\*26\*190mm)

## Specifications



Model	DW-30L818	DW-30L818BPT	DW-30L818BP		
<b>Technical Data</b>	Cabinet Type	Upright	Upright	Upright	
	Climate Class	SN N	SN N	SN N	
	Cooling Type	Direct Cooling	Direct Cooling	Direct Cooling	
	Defrost Mode	Manual	Manual	Manual	
	Refrigerant	HC	HC	HC	
	Sound Level (dB(A))	44	37	37	
<b>Performance</b>	Cooling Performance (°C)	-30	-30	-30	
	Temperature Range (°C)	-10--30	-10--30	-10--30	
<b>Control</b>	Controller	Microprocessor	Microprocessor	Microprocessor	
	Display	LCD	LCD	LED	
<b>Electrical Data</b>	Power Supply (V/Hz)	220-240/50	100-230/50/60	100-230/50/60	
	Power (W)	380	680	680	
	Capacity (L/Cu.Ft)	818/28.9	818/28.9	818/28.9	
<b>Dimensions</b>	Net/Gross Weight (approx)	kg	225/260	251/287	251/287
		lbs	496.0/573.2	553.4/632.7	553.4/632.7
	Interior Dimension (W×D×H)	mm	750*755*1460	750*755*1460	750*755*1460
		in	29.5/29.7/57.5	29.5/29.7/57.5	29.5/29.7/57.5
	Exterior Dimension (W×D×H)	mm	988*951*1980	988*951*1980	988*951*1980
		in	38.9/37.4/78.0	38.9/37.4/78.0	38.9/37.4/78.0
Packing Dimension (W×D×H)	mm	1040*1035*2110	1040*1035*2110	1040*1035*2110	
	in	40.9*40.7*83.1	40.9*40.7*83.1	40.9*40.7*83.1	
	Container Load (20'/40'/40'H)	10/22/22	10/22/22	10/22/22	
<b>Alarms</b>	High/Low Temperature	Y	Y	Y	
	Remote Alarm	Y	Y	Y	
	Power Failure	Y	Y	Y	
	Sensor Error	Y	Y	Y	
	Low Battery	N	Y	Y	
	High Ambient Temperature	Y	Y	Y	
	Dirty Condenser	N	N	N	
	Door Ajar	Y	Y	Y	
	Casters	Y(4)	Y(4)	Y(4)	
	Leveling Feet	Y(2)	Y(2)	Y(2)	
Porthole	Y, 2*Rear, (25mm)Diameter	Y, 2*Rear, (25mm)Diameter	Y, 2*Rear, (25mm)Diameter		
Inner Doors	3	3	3		
<b>Accessories</b>	Drawers	30- Plastic Blood Bag Drawers, Optional	30- Plastic Blood Bag Drawers, Optional	30- Plastic Blood Bag Drawers, Optional	
	Shelves	5- Adjustable Wire Shelves	5- Adjustable Wire Shelves	5- Adjustable Wire Shelves	
	Shelf Dimensions (W×D)(mm)	706*665	706*665	706*665	
	Max. Load per Shelf (kg)	47	50	50	
	USB Interface	Optional	Optional	Optional	
	RS485	Optional	Y	Y	
	NFC	N	Optional	Optional	
	Temperature Recorder	Optional	Optional	Optional	
<b>Others</b>	Certificate	CE, MDR	CE, UL, ENERGY STAR, MDR	CE, UL, ENERGY STAR, MDR	

BP suffix - Variable frequency inverter compressor

# -30°C Biomedical Freezer (Direct Cooling)

## Typical Installation and Application

Suitable for blood banks, hospitals, disease control centers, research institutes, electronic, chemical and other industries. Used for the cryopreservation of plasma, biologics and other products, and cold tests for components and materials.

### Key Features



**Adjustable storage shelf height**

Built-in evaporator design, and the shelf height can be adjusted according to the size of the stored articles, so as to ensure the efficiency and use of the large space in the cabinet



**Multiple alarm functions**

High/Low temperature/door ajar/power failure/sensor error/high ambient temperature alarm and also equipped with remote alarm interface, alarm mode is sound and flash



**High-efficiency and energy-saving compressor and system**

High-efficiency hydrocarbon compressor, optimized refrigeration system and low power consumption



**Green and environmental friendly**

Hydrocarbon refrigerant, energy saving and environmental protection, built with LBA foam insulation, complies with European RoHS Directive



**Superior temperature uniformity**

### Ergonomic Design



**Multiple alarms**

Alarm functions include high, low temperature, sensor error, power failure, high ambient, and door ajar  
Alarm mode is sound and flash



**Microprocessor-controlled system**

Microprocessor control, with temperature display precision at 0.1°C. Internal temperature is adjustable from -10°C to -30°C



**Configuration**

Standard: 3 coated steel wired shelves, remote alarm interface  
Optional: stainless steel partition board, drawer, temperature recorder, RS485 or USB (one out of two)



**Access ports**

Two access ports as standard, allows for independent testing of cabinet temperature



**Low noise design**

Noise-reduction features and structure noise reduction design



**Safe and secure**

Equipped with key lock, padlock providing multiple safeguards for sample safety



DW-30L298J

Microprocessor temperature control, LCD temperature display, with display accuracy being 0.1°C

**Porthole**

Equipped with two standard portholes on the left and right sides of the freezer, convenient for users to conduct independent testing

**Feet and Casters**

4 back-and-forth casters and 2 adjustable feet for easy moving and leveling



**Adjustable Shelves**

The adjustable shelves ensure the maximum usage efficiency of the internal space, and users can store items of different sizes as needed

**Improved Handle Design**

Lockable handle with unique key prevents other Haier freezer owner's access to your precious samples, also comes with space for a padlock for that extra security

## -30°C Biomedical Freezer (Direct Cooling)



### Specifications

Model		DW-30L298J	
Technical Data	Cabinet Type	Upright	
	Climate Class	SN N	
	Cooling Type	Direct Cooling	
	Defrost Mode	Manual	
	Refrigerant	HC	
	Sound Level (dB(A))	41	
Performance	Cooling Performance (°C)	-30	
	Temperature Range (°C)	-10~-30	
Control	Controller	Microprocessor	
	Display	LCD	
	Power Supply (V/Hz)	220-240/50	
Electrical Data	Power (W)	330	
	Capacity (L/Cu.Ft)	298/10.5	
Dimensions	Net/Gross Weight (approx)	kg	125/140
		lbs	275.6/308.6
	Interior Dimension (W×D×H)	mm	541*443*1218
		in	21.3*17.4*48.0
	Exterior Dimension (W×D×H)	mm	770*710*1828
		in	30.3*28.0*72.0
	Packing Dimension (W×D×H)	mm	840*770*2000
in		33.1*30.3*78.7	
Container Load (20'/40'/40'H)	21/42/42		
Alarms	High/Low Temperature	Y	
	Remote Alarm	Y	
	Power Failure	Y	
	Sensor Error	Y	
	Low Battery	N	
	High Ambient Temperature	Y	
	Dirty Condenser	N	
	Door Ajar	Y	
Accessories	Casters	Y(4)	
	Leveling Feet	Y(2)	
	Porthole	Y, 1*Left Side, 1*Right Side, (25mm)Diameter	
	Inner Doors	N	
	Drawers	6- Plastic Drawers, Optional	
	Shelves	3- Adjustable Wire Shelves	
	Shelf Dimensions (W×D)(mm)	518*373	
	Max. Load per Shelf (kg)	20	
	USB Interface	Optional	
	RS485	Optional	
	NFC	N	
Others	Temperature Recorder	Optional	
	Certificate	CE, MDR	

### Typical Installation and Application

Suitable for blood banks, hospitals, disease control centers, research institutes, electronic, chemical and other industries. Used for the cryopreservation of plasma, biologics and other products



DW-30L528D

### Key Features



#### High-efficiency and energy-saving compressor and system

High-efficiency hydrocarbon compressor, optimized refrigeration system and low power consumption



#### Adjustable storage shelf height

Built-in evaporator design, and the shelf height can be adjusted according to the size of the stored articles, so as to realize the efficient use of large space in the cabinet



#### Green and environmental friendly

Hydrocarbon refrigerant, energy saving and environmental protection, built with LBA foam insulation, complies with European RoHS Directive



#### Multiple alarm functions

High/Low temperature/door ajar/power failure/sensor error/high ambient temperature alarm and also equipped with remote alarm interface, alarm mode is sound and flash



#### Superior temperature uniformity

The temperature uniformity is  $\pm 3^{\circ}\text{C}$  with the setting temperature of  $-30^{\circ}\text{C}$

# -30°C Biomedical Freezer (Direct Cooling)

## Ergonomic Design

**Microprocessor-controlled system**  
 Microprocessor control, with temperature display precision at 0.1°C. Internal temperature is adjustable from -10°C to -30°C. Alarm functions include high, low temperature, sensor error, power failure, high ambient, and door ajar. Alarm mode is sound and flash

**Low noise design**  
 Noise-reduction features and structure noise reduction design

**Safe and secure**  
 Equipped with key lock, padlock providing multiple safeguards for sample safety

**Configuration**  
 Standard: 3 coated steel wired shelves, remote alarm interface  
 Optional: stainless steel shelves, plastic blood bag drawer, plastic drawer, temperature recorder, RS485 or USB (one out of two)

**Porthole**  
 Two portholes as standard, allows for independent testing of cabinet temperature



DW-30L528D

## Specifications



Model		DW-30L528D		
Technical Data	Cabinet Type	Upright (Double Door)		
	Climate Class	SN N		
	Cooling Type	Direct Cooling		
	Defrost Mode	Manual		
	Refrigerant	HC		
Performance	Sound Level (dB(A))	39	43	
	Cooling Performance (°C)	-30		
	Temperature Range (°C)	-10~-30		
Control	Controller	Microprocessor		
	Display	LCD		
Electrical Data	Power Supply (V/Hz)	220-240/50	115/60	
	Power (W)	460	420	
	Capacity (L/Cu.Ft)	531/18.8		
Dimensions	Net/Gross Weight (approx)	kg	180/205	
		lbs	396.8/451.9	
	Interior Dimension (W×D×H)	mm	704*620*1230	
		in	27.7*24.4*48.4	
	Exterior Dimension (W×D×H)	mm	940*845*1878	
		in	37.0*33.3*73.9	
	Packing Dimension (W×D×H)	mm	1005*940*2040	
in		39.6*37.0*80.3		
Alarms	Container Load (20'/40'/40'H)	10/22/24		
	High/Low Temperature	Y		
	Remote Alarm	Y		
	Power Failure	Y		
	Sensor Error	Y		
	Low Battery	N		
	High Ambient Temperature	Y		
	Dirty Condenser	N		
	Door Ajar	Y		
	Accessories	Casters	Y(4)	
Leveling Feet		Y(2)		
Porthole		Y, 1*Left Side, 1*Right Side, (25mm)Diameter		
Inner Doors		N		
Drawers		10- Plastic Drawers, Optional		
Shelves		3- Adjustable Wire Shelves		
Shelf Dimensions (W×D)(mm)		680*537		
Max. Load per Shelf (kg)		37		
USB Interface		Optional		
RS485		Optional		
Others	NFC	N		
	Temperature Recorder	Optional		
	Certificate	CE, MDR	UL	

## -30°C Biomedical Freezer

### Application Range

Used in the blood banks, hospitals, disease control centers, research institutes, electronic, chemical and other industries, cryopreservation of plasma, biologics and other products, and cold tests for components and materials.

### Product Advantages



#### Superior Temperature Uniformity

The temperature uniformity is  $\pm 3^{\circ}\text{C}$  with the setting temperature of  $-30^{\circ}\text{C}$



#### Green and Environmental Friendly

Hydrocarbon refrigerant, energy saving and environmental protection, built with LBA foam insulation, complies with European RoHS requirements



#### Microprocessor Controller

Microprocessor control, with temperature display precision at  $0.1^{\circ}\text{C}$ . Internal temperature is adjustable from  $-10^{\circ}\text{C}$  to  $-30^{\circ}\text{C}$  with  $1^{\circ}\text{C}$  control accuracy



#### High-efficiency and Energy-saving Compressor and System

High-efficiency hydrocarbon compressor, optimized refrigeration system and low power consumption



#### Multiple Alarm Functions

High/Low temperature/door ajar/power failure/sensor error/high ambient temperature alarm and also equipped with remote alarm interface, alarm mode is sound and flash



#### Compact Footprint

Combine a small footprint with large storage capacity to provide flexible, reliable and convenient sample storage



DW-30L698

### Ergonomic Design



#### New Generation Appearance

A redesigned control panel features a revamped layout and updated icons, significantly improving user experience



#### Low Noise Design

Noise-reduction features and structure noise reduction design



#### Safe and Secure

Upgraded handle design for one-handed use, with a lockable feature for added security. Can also be paired with a padlock for multi-user convenience



#### Porthole

Two portholes as standard, allows for independent testing of cabinet temperature



#### Adjustable Storage Shelf Height

Built-in evaporator design, and the shelf height can be adjusted according to the size of the stored articles, so as to ensure the efficient use of large space in the cabinet



#### Configuration

Standard: 5 coated steel wired shelves, remote alarm interface, USB (115V60Hz)  
Optional: stainless steel shelves, plastic blood bag drawers, temperature recorder, RS485, USB (220V50Hz)

# -30°C Biomedical Freezer

## Product Parts



DW-30L698

## Product Dimensions

Remark  
 W0=Total Width  
 W1=Freezer Width  
 W2=Inner Cabinet Width  
 W3=Inner Cabinet Shelf Width  
 D0=Total Depth  
 D1=Inner Cabinet Width  
 D2=Inner Cabinet Shelf Width  
 H0=Total Height  
 H1=Inner Cabinet Height

CODE MODEL	W0	W1	W2	W3	D0	D1	D2	D3	H0	H1
DW-30L698	874mm	780mm	640mm	604mm	930mm	755mm	722mm	691mm	1984mm	1458mm

## Specifications



Model		DW-30L698		
Technical Data	Cabinet Type	Upright		
	Climate Class	SNN		
	Cooling Type	Direct Cooling		
	Defrost Mode	Manual		
	Refrigerant	HC		
	Sound Level (dB(A))	41	43	
Performance	Cooling Performance (°C)	-30		
	Temperature Range (°C)	-10--30		
Control	Controller	Microprocessor		
	Display	LED		
Electrical Data	Power Supply (V/Hz)	220~240/50	115/60	
	Power (W)	400	500	
Dimensions	Capacity (L/Cu.Ft)	698/24.7		
	Net/Gross Weight (approx)	kg	180/225	
		lbs	396.8/496	
	Interior Dimension (W×D×H)	mm	640*755*1458	
		in	25.2*29.7*57.4	
	Exterior Dimension (W×D×H)	mm	874*930*1984	
		in	34.4*36.6*78.1	
	Packing Dimension (W×D×H)	mm	950*1060*2110	
		in	37.4*41.7*83.0	
	Container Load (20'/40'/40'H)	10/22/22		
Alarms	High/Low Temperature	Y		
	Remote Alarm	Y		
	Power Failure	Y		
	Sensor Error	Y		
	Low Battery	Y		
	High Ambient Temperature	Y		
	Dirty Condenser	N		
	Door Ajar	Y		
	Casters	Y(4)		
	Leveling Feet	Y(2)		
	Porthole	Y, 2*Rear, (25mm)Diameter		
	Inner Doors	3		
	Drawers	24- Plastic Blood Bag Drawers, Optional		
Accessories	Shelves	5- Adjustable Wire Shelves		
	Shelf Dimensions (W×D)(mm)	610*655		
	Max. Load per Shelf (kg)	40		
	USB Interface	Optional	Y	
	RS485	Optional		
Others	NFC	N		
	Temperature Recorder	Optional		
	Certificate	CE, MDR	UL, ENERGY STAR	

# -25°C Biomedical Freezer

The Haier Biomedical -25°C biomedical freezer maximize storage space. Integrated cold shelf and evaporator design provides maximum refrigeration efficiency.



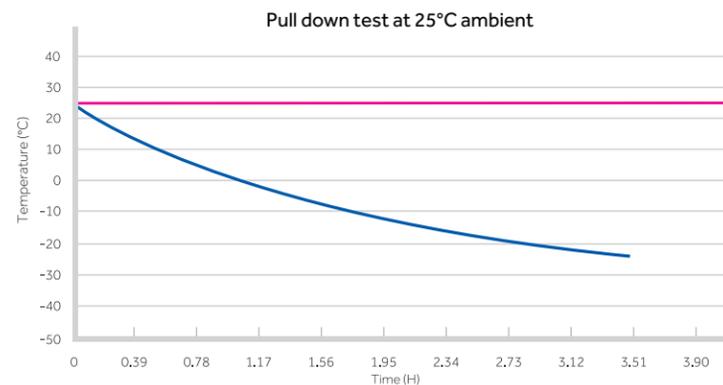
DW-25L92/262

### Key Features

- Chemically stable, HC commercially available and environmentally safe refrigerant
- High-density foam insulation for rigidity and stable storage temperature
- Microprocessor control, digital display, adjustable temperature range: -10°C~-25°C
- LCD digital display for clear observation
- Wide voltage tolerance design with applicable voltage range of 187~242 V/AC

### Safety

- Multiple malfunction alarms including high low temperature, sensor error
- Two types of alarm indications: audible buzzing and visible flashing light
- Door lock for storage safety
- Storage drawer



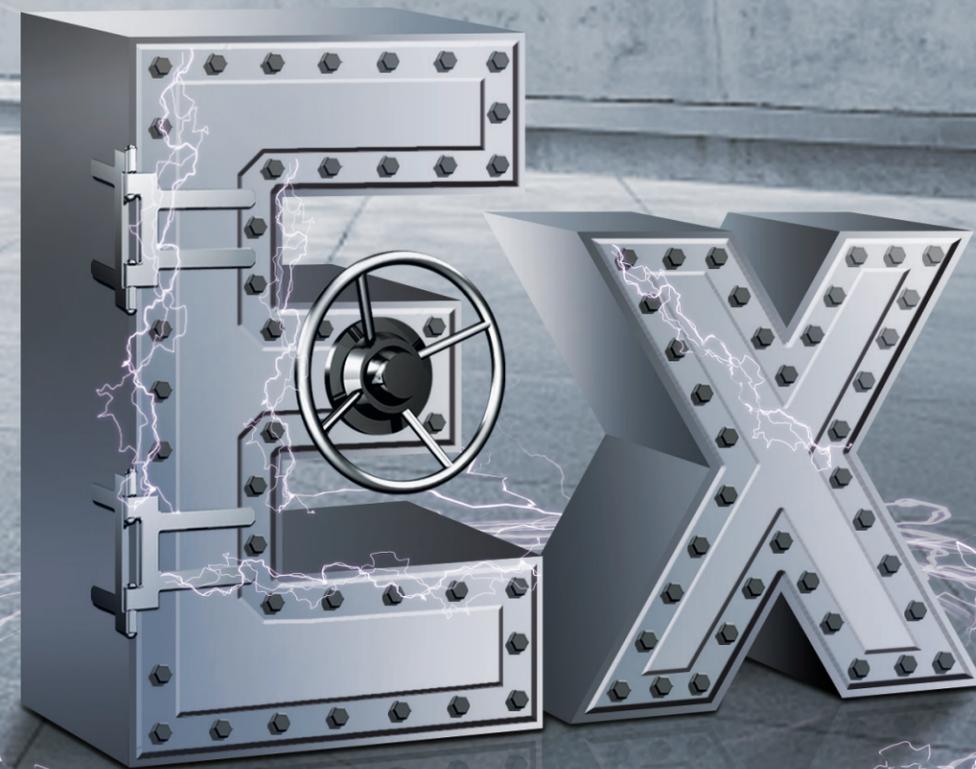
### Specifications



Model		DW-25L92		DW-25L262	
Technical Data	Cabinet Type	Upright		Upright	
	Climate Class	SN N		SN N	
	Cooling Type	Direct Cooling		Direct Cooling	
	Defrost Mode	Manual		Manual	
	Refrigerant	HC		HC	
	Sound Level (dB(A))	27	28	34	
Performance	Cooling Performance (°C)	-25		-25	
	Temperature Range (°C)	-10~-25		-10~-25	
Control	Controller	Microprocessor		Microprocessor	
	Display	LCD		LCD	
	Power Supply (V/Hz)	220~240/50	115/60	220~240/50	115/60
Electrical Data	Power (W)	255	125	270	135
	Capacity (L/Cu.Ft)	92/3.2		262/9.3	
Dimensions	Net/Gross Weight (approx)	kg	46/51	88/93	
		lbs	101.4/112.4	194.0/205.0	
	Interior Dimension (W×D×H)	mm	435*410*635	480*465*1430	
		in	17.1*16.1*25.0	18.9*18.3*56.3	
	Exterior Dimension (W×D×H)	mm	640*610*810	700*705*1665	700*705*1730
		in	25.2*24.0*31.9	27.6*27.8*65.6	27.6*27.8*68.1
	Packing Dimension (W×D×H)	mm	660*700*910	775*760*1880	
		in	26.0*27.6*35.8	30.5*29.9*74.0	
Container Load (20'/40'/40'H)		48/102/102	21/45/45		
Alarms	High/Low Temperature	Y		Y	
	Remote Alarm	Y		Y	
	Power Failure	Y		Y	
	Sensor Error	Y		Y	
	Low Battery	N		N	
	High Ambient Temperature	Y		Y	
	Dirty Condenser	N		N	
	Door Ajar	Y		Y	
	Casters	Y(4)		Y(4)	
Accessories	Leveling Feet	Y(2)		Y(2)	N
	Porthole	Y, 1*Left Side, (25mm)Diameter		Y, 1*Left Side, (25mm)Diameter	
	Inner Doors	N		N	
	Drawers	3- Plastic Drawers		7- Plastic Drawers	
	Shelves	N		N	
	Shelf Dimensions (W×D)(mm)	N		N	
	Max. Load per Shelf (kg)	N		N	
	USB Interface	Optional		Optional	
	RS485	Optional		Optional	
	NFC	N		N	
	Temperature Recorder	N		N	
	Others	Certificate	CE, MDR	UL	CE, MDR



Spark Free  
Refrigerator/Freezer



# Spark Free Refrigerator

## Typical Installation

Spark free refrigerators are installed typically in many different laboratories and research facilities to store chemical or experimental reagents that are flammable, explosive, evaporative or corrosive.



## Product Advantages

### ATEX II C-T6 E.U. Explosion Proof Certification

Explosion proof features include antistatic liner, gasket, explosion proof fan motor, over current and voltage protection. ATEX II C-T6 explosion proof certification for Haier's Laboratory refrigerator ensures safety in your work place.

### 3~16°C Setting Temperature Range

Smart temperature control system limits the temperature variance within  $\pm 3^{\circ}\text{C}$ . Adjustable set point for the range of  $3^{\circ}\text{C} \sim 16^{\circ}\text{C}$ , factory default set temperature is  $5^{\circ}\text{C}$ , controlling the temperature inside the chamber is  $2 \sim 8^{\circ}\text{C}$ .

### One-touch Search for Historic Data

The highest and lowest historic temperature data is saved and can be checked with one keystroke.

### High Efficiency HC Cooling Technology

The hydrocarbon refrigeration system operates at a much higher efficiency and reduces the energy consumption by about 50 percent.

## Ergonomic Design

### High Strength Glass Shelves

Tempered glass shelves hold 40 kg of products per shelf.

### Low Noise

Noise cancelling technology reduces the sound level to less than 40 dB(A) for a much-improved environment.



### Dual Lock Design with Multiple Alarm Systems

A mortise lock is standard on the door. Standard alarms include high and low temperature, door ajar, and sensor errors.



Cabinet Structure



Glass Shelve



ATEX Certification Label



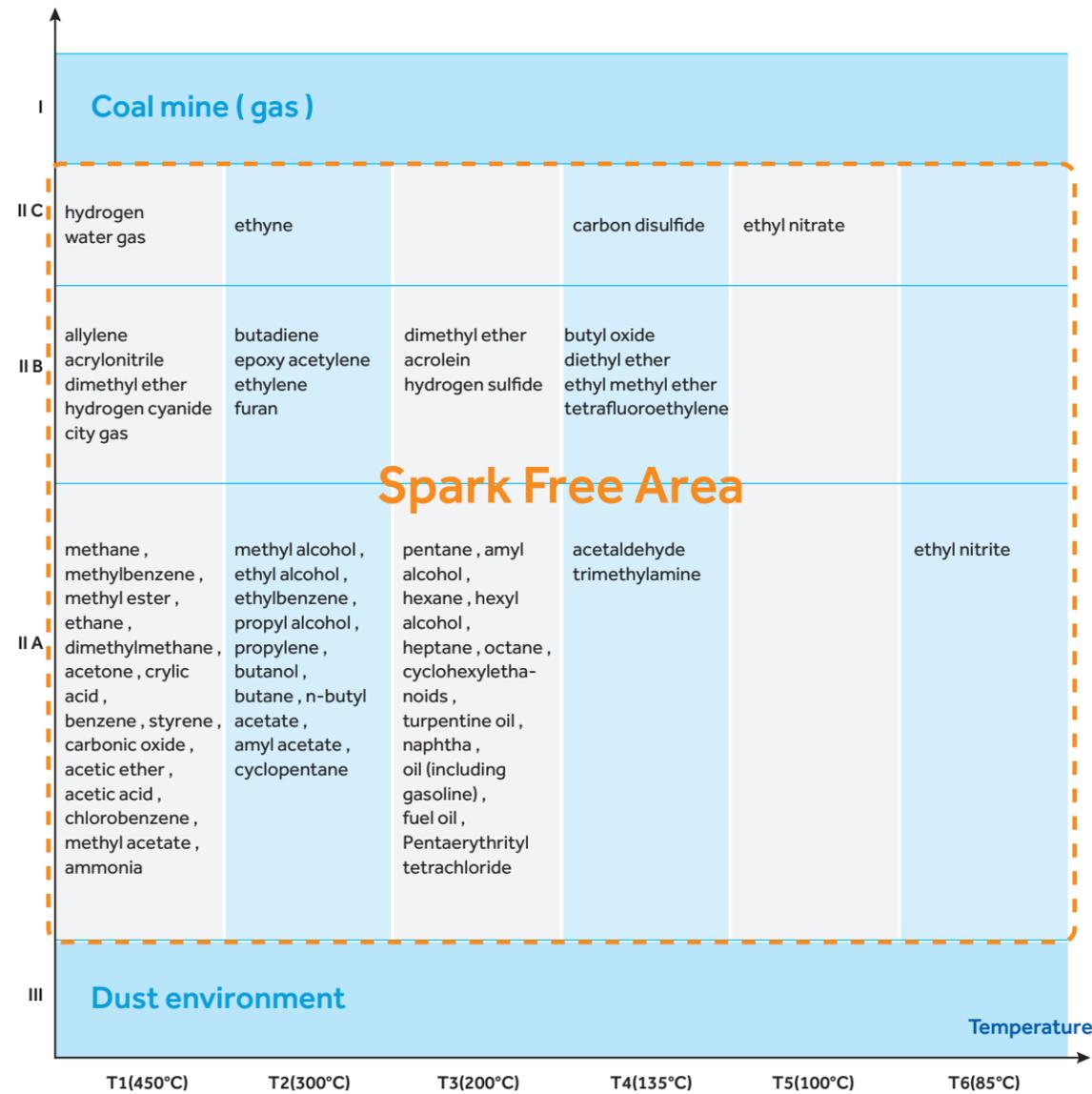
Explosion Proof Cabinet/Fan

# Spark Free Refrigerator

## Application Range

Haier spark free refrigerators are ATEX certified in the application range II 3G Ex ic nA II T6, which means the appliances can be found in the whole II zone environment (including II A and II B, II C), a typical environment within many biochemistry laboratories.

### Explosive-proof Rating



**Warning: Do not store open containers of volatile substances in this refrigerator.**

## Specifications



Model	HLR-118SF	HLR-310SF	HLR-310FL(115V)	HLR-310FL(220V)
<b>Technical Data</b>				
Type	Under-Counter	Upright	Upright	Upright
Climate Class	N	N	N	N
Cooling Type	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling
Defrost Mode	Auto	Auto	Auto	Auto
Refrigerant	R600a	R600a	R600a	R600a
Sound Level (dB(A))	40	40	40	40
<b>Performance</b>				
Temperature Range (°C)	3~16°C Adjustable	3~16°C Adjustable	3~16°C Adjustable	3~16°C Adjustable
Ambient Temperature (°C)	16-32	16-32	16-32	16-32
<b>Control</b>				
Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Display	LED	LED	LED	LED
<b>Electrical Data</b>				
Power Supply (V/Hz)	220-240/50	220-240/50	115/60	220-240/50
Power (W)	55	210	210	210
Electrical Current (A)	1.2	1.26	1.26	1.26
Power Consumption (kWh/24h)	0.56	1.05	1.05	1.05
<b>Dimensions</b>				
Capacity (L/Cu.Ft)	118/4.2	310/10.9	310/10.9	310/10.9
Net/Gross Weight (approx)	kg	44/49	72/83	72/83
	lbs	97/108	158.7/183	158.7/183
Interior Dimensions (W*D*H)	mm	515*415*630	560*500*1290	560*500*1290
	in	20.3*16.3*24.8	22.0*19.7*50.8	22.0*19.7*50.8
Exterior Dimensions (W*D*H)	mm	597*635*810	605*598*1840	605*598*1840
	in	23.5*25*31.9	23.8*23.6*73.6	23.8*23.6*73.6
Packing Dimensions (W*D*H)	mm	700*710*930	680*690*1940	680*690*1940
	in	26.8*27.2*35.8	26*26.4*79.5	26*26.4*79.5
Container Load (20'/40'/40'H)		48/96/96	24/51/51	24/51/51
<b>Alarms</b>				
High/Low Temperature	Y	Y	Y	Y
Sensor Error	Y	Y	Y	Y
Door Ajar	Y	Y	Y	Y
<b>Accessories</b>				
Caster	2	4	4	4
Foot	2	2	2	2
Shelves/Baskets	2/1	4/0	4/0	4/0
Water Tray	1	1	1	1
Padlock Adapter Kit/Quantity	/	1	1	1
Built-in Key Door Lock/Quantity	1	1	1	1
<b>Other</b>				
Certification	CE, ATEX	CE, ATEX	UL, Energy Star	CE, ATEX

# Combined Refrigerator and Freezer with Spark-free Interior

## Application Range

Used for storage of volatile, unstable, low boiling point (flammable and explosive) compounds/dangerous other items that require a low temperature in pharmaceutical factories and laboratories etc.

## Product Advantages

### High Performance

Refrigerator: Forced-air cooling system with cycle defrost, temperature uniformity  $\pm 3^{\circ}\text{C}$   
 Freezer: Cold wall cooling system, manual defrost, temperature uniformity  $\pm 5^{\circ}\text{C}$   
 Optional USB interface, RS485 & printer, easy to get temperature record

### Microprocessor Controller with Digital Display

Refrigerator temperature 2-8 $^{\circ}\text{C}$  with resolution of 0.1 $^{\circ}\text{C}$   
 Freezer temperature -30--10 $^{\circ}\text{C}$  with resolution of 1 $^{\circ}\text{C}$   
 Multiple alarm functions with remote alarm contact to ensure safe monitoring

### Multipurpose and Space Efficient

One cabinet with two independent chambers, both are self-contained and independently controlled with individual doors

### Stainless Steel Interior

The interior of refrigerator and freezer are both made of stainless steel, which is easy to clean and corrosion-proof

### Environment Friendly

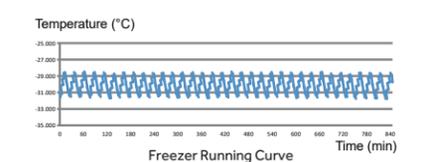
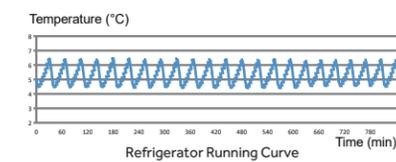
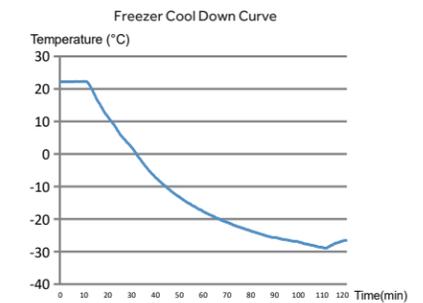
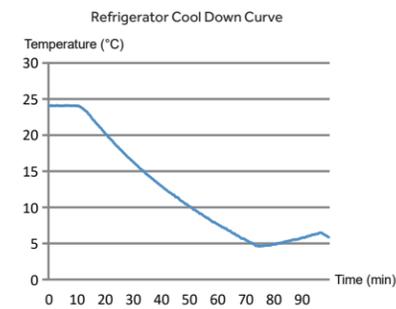
Hydrocarbon refrigerant (R600a for refrigerator/R290 for freezer) and CFC-free polyurethane insulation for reduced global warming potential

### ATEX Certified

### Low Energy Consumption: 1.5 kWh/24h



## 25 $^{\circ}\text{C}$ Ambient Temperature Curve



# Combined Refrigerator and Freezer with Spark-free Interior



## Specifications

Model		HLRF-319SF	
Technical Data	Cabinet Type	Upright	
	Climate Class	N, 16-32°C	
	Cooling Type	Refrigerator: Forced Air Cooling/Freezer: Direct Cooling	
	Defrost Mode	Refrigerator: Auto/Freezer: Manual	
	Refrigerant	Refrigerator: R600a/Freezer: R290	
	Sound Level (dB(A))	43	
Performance	Temperature Range (°C)	Refrigerator: 3-16/Freezer: -10--30	
Control	Controller	Microprocessor	
	Display	LED	
Electrical Data	Power Supply (V/Hz)	220-240-/50	
	Power (W)	230	
	Electrical Current (A)	1.5	
	Power Consumption (kWh/day)	1.5	
Dimensions	Capacity (L/Cu.Ft)	Refrigerator: 219/7.7; Freezer: 100/3.5	
	Net/Gross Weight (approx)	kg	130/140
		lbs	319.7/352.7
	Interior Dimensions (W*D*H)	mm	Refrigerator: 605*510*720/Freezer: 515*465*440
		in	Refrigerator: 23.8*20*28.3/Freezer: 20.2*18.3*17.3
	Exterior Dimensions (W*D*H)	mm	735*660*1810
		in	28.9*26.0*71.3
	Packing Dimensions (W*D*H)	mm	775*720*1930
in		30.5*28.3*76	
Container Load (20'/40'/40'H)		21/43/43	
Alarms	High/Low Temperature	Y	
	Sensor Error	Y	
	Power Failure	Y	
	Door Ajar	Y	
	Low Battery	Y	
	Remote Alarm	Y	
Accessories	Caster	Y/4	
	Foot	Y/2	
	Porthole	N	
	Shelves	Refrigerator: 3; Freezer: 2	
	Stylus Printer	Optional (printer or RS485, either-or)	
	RS485	Optional (printer or RS485, either-or)	
Other	USB Interface	Optional	
	Certification	CE, ATEX	

# -30°C Spark Free Freezer

## Typical Installation

It can be used for safe storage of potentially flammable items and other temperature sensitive samples at low temperatures. Applications found within life science, medical, electronics and chemical industries.



DW-30L298SF

## Product Advantages

- 
**Explosion Proof Interior**  
 SF series freezers feature standard interior design. FL series freezers feature antistatic interior design. All metal parts are grounded reliably and interior design is explosion proof. Certificates include China anti-explosion proof and EU explosion proof ATEX II C-T6
- 
**Superior Temperature Uniformity**  
 The temperature uniformity is  $\pm 3^{\circ}\text{C}$  with the setting temperature of  $-30^{\circ}\text{C}$
- 
**Low Noise Design**  
 Noise-reduction features and structure noise reduction design
- 
**High-efficiency and Energy-saving Compressor and System**  
 High-efficiency hydrocarbon compressor, optimized refrigeration system and low power consumption
- 
**Green and Environmental Friendly**  
 Hydrocarbon refrigerant, energy saving and environmental protection, built with LBA foam insulation, complies with European RoHS Directive
- 
**Multiple Alarm Functions**  
 High, Low temperature, door ajar, power failure, sensor error, high ambient temperature alarm and also equipped with remote alarm interface, alarm mode is sound and flash



DW-30L298SF

DW-30L298FL

Laboratory Deep Freezer with explosion-proof interior  
 Interior Temp. Range :  $-10 \sim -30^{\circ}\text{C}$  (DW-30L298FL/SF)  
 Internal   
 Certification No.-CML 18ATEX4058X  
 Serial No.-In the Barcode  
 Qingdao Haier Biomedical Co., Ltd. 

**Anti-static operating instruction**  
 1. Clean plastic parts with a damp cloth only.  
 2. Do not use a dry cloth to clean plastic parts.  
 3. Danger of sparks due to electrostatic discharge.  
**WARNING** 4. Warning - potential electrostatic charging hazard - see instructions.

## Ergonomic Design

- 
**Microprocessor-controlled System**  
 Microprocessor control with LCD temperature display precision at  $0.1^{\circ}\text{C}$ . Internal temperature is adjustable from  $-10^{\circ}\text{C}$  to  $-30^{\circ}\text{C}$
- 
**Adjustable Shelves**  
 The adjustable shelves ensure the maximum usage efficiency of the internal space, and users can store items of different sizes as needed
- 
**Rich Configuration**  
 Standard: DW-30L298SF interior material is PCM with 3 plastic coated wire shelves, DW-30L298FL interior material is SUS with 3 chrome-plated wire shelves  
 Optional: stainless steel shelves, drawer, temperature recorder, RS485 or USB (one out of two)
- 
**Improved Handle Design**  
 The ergonomic chamfer design of the handle ensures smooth operation and maximum durability
- 
**Feet and Casters**  
 4 back-and-forth casters and 2 adjustable feet (out of two) for easy moving and leveling

## Application Range

Explosive Proof Rating	I	Coal mine (gas)					
	II C	hydrogen water gas	ethyne		carbon disulfide	ethyl nitrate	
	II B	Allylene acrylonitrile dimethyl ether hydrogen cyanide city gas	butadiene epoxy acetyleneethylene furan	dimethyl ether ac rolein hydrogen sulfide	butyl oxide diethyl etherethyl methyl ether tetr oethylene		
	II A	methane, methylbenzene, methyl ester, ethane, dimethylmethane, acetone, acrylic acid, benzene, styrene, carbonic oxide, acetic ether, acetic acid, chlorobenzene, methyl acetate, ammonia	methyl alcohol, ethyl alcohol, ethylbenzene, propyl alcohol, propylene, butanol, butane, n-butyl acetate, amyl acetate, cyclopentan	Pentane, amyl alcohol, hexane, hexyl alcohol, heptane, octane, cyclohexylethanoids, turpentine oil, naphtha, oil (including gasoline), fuel oil, Pentaerythrityl tetrachloride	acetalde hyde trimethylamine	ethyl nitrite	
III	Dust environment						
		T1 (450°C)	T2 (300°C)	T3 (200°C)	T4 (135°C)	T5 (100°C) T6 (85°C)	
		Temperature					

# -25°C Spark Free Freezer

55/56

## Product Advantages



### Explosion Proof Interior

The SF series is composed of a non-anti-static liner, door lining and drawers. Equipped with an overcurrent and overvoltage protection system with all components earthed to ensure static is discharged safely. Certified to ATEX IIC-T6 EU and can be used in zone 2 environments.



### Hydrocarbon Energy-saving

Adopting high-efficiency HC compressor and optimized refrigeration system, for safe and reliable cold storage of your samples.



### Environmentally Friendly

The HC system is a completely green refrigeration solution. With LBA foamed polyurethane insulation in line with European ROHS directive for environmentally friendly materials.



### Low Noise

Cabinet structure and refrigeration system noise reduction design lowers noise level to less than 27dB (A) and eliminating any harsh high-frequency noises.

## Ergonomic Design



### Microprocessor

- Microprocessor electronic temperature controller, LCD digital temperature display, display precision is 0.1°C, temperature set point -10~-25°C. Temperature uniformity is ±3°C.
- Multiple alarms including high and low temperature, sensor error, power failure, door ajar, high ambient and remote alarm.
- Alarm mode: sound and light alarm.
- It can be connected to remote alarm.



### Undercounter Biomedical Freezer

The DW-25L92 cabinet is designed with a height of 810mm, which can be easily placed under the bench to save storage space.

## Specifications



	Model	DW-25L92SF	DW-30L298SF	DW-30L298FL	
Technical Data	Cabinet Type	Upright	Upright	Upright	
	Climate Class	SN N	SNN	SN N	
	Cooling Type	Direct Cooling	Direct Cooling	Direct Cooling	
	Defrost Mode	Manual	Manual	Manual	
	Refrigerant	HC	HC	HC	
	Sound Level (dB(A))	27	41	41	
Performance	Cooling Performance (°C)	-25	-30	-30	
	Temperature Range (°C)	-10~-25	-10~-30	-10~-30	
Control	Controller	Microprocessor	Microprocessor	Microprocessor	
	Display	LED	LCD	LCD	
	Power Supply (V/Hz)	220-240/50	220-240/50	220-240/50	
Electrical Data	Power (W)	150	330	330	
	Capacity (L/Cu.Ft)	92/3.2	298/10.5	298/10.5	
Dimensions	Net/Gross Weight (approx)	kg	46/51	115/130	115/130
		lbs	101.4/112.4	253.5/286.6	253.5/286.6
	Interior Dimension (W×D×H)	mm	435*410*635	541*443*1218	541*443*1218
		in	17.1*16.1*25.0	21.3*17.4*48.0	21.3*17.4*48.0
	Exterior Dimension (W×D×H)	mm	597*635*810	770*710*1828	770*710*1828
		in	23.5*25*31.9	30.3*28.0*72.0	30.3*28.0*72.0
	Packing Dimension (W×D×H)	mm	680*690*940	840*770*2000	840*770*2000
		in	26.8*27.1*37.0	33.1*30.3*78.7	33.1*30.3*78.7
Alarms	Container Load (20'/40'/40'H)	48/102/102	21/42/42	21/42/42	
	High/Low Temperature	Y	Y	Y	
	Remote Alarm	Y	Y	Y	
	Power Failure	N	Y	Y	
	Sensor Error	Y	Y	Y	
	Low Battery	N	N	N	
	High Ambient Temperature	N	Y	Y	
	Dirty Condenser	N	N	N	
	Door Ajar	Y	Y	Y	
	Casters	Y(4)	Y(4)	Y(4)	
Accessories	Leveling Feet	Y(2)	Y(2)	Y(2)	
	Porthole	N	N	N	
	Inner Doors	N	N	N	
	Drawers	3- Plastic Drawers	6- Plastic Drawers, Optional	6- Permanent Anti-Static Plastic Drawers, Optional	
	Shelves	N	3- Adjustable Wire Shelves	3- Adjustable Wire Shelves	
	Shelf Dimensions (W×D)(mm)	N	518*373	518*373	
	Max. Load per Shelf (kg)	N	20	20	
	USB Interface	N	Optional	Optional	
	RS485	N	Optional	Optional	
	NFC	N	N	N	
Others	Temperature Recorder	N	N	N	
	Certificate	ATEX Explosion Proof Certificate,CE	ATEX Explosion Proof Certificate,CE	ATEX Explosion Proof Certificate,CE	