

Biomedical Freezer Solutions

-60°C | -40°C | -30°C | -25°C



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Qingdao Haier Biomedical Co.,Ltd.

No.280 Feng Yuan Road, High-tech Zone,
Qingdao, 266109, P.R. China
Tel: +86-0532-88935593
Website: www.haiermedical.com



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Note: If a slight difference occurs between pictures and actual products, please refer to actual products. Our company reserves the right of final interpretation of this brochure, please contact us for any further information if required.



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A versatile low-temperature freezer commonly used within 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.



Dual-seal design



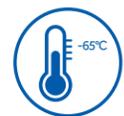
Efficient and reliable fan



German made energy efficient compressor



Digital temperature control display



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. The 100mm thick insulation conserves energy and provides optimal protection of internal cold temperature.



Creative dual seal design retains the cold temperature more effectively, and eliminates condensation on gaskets.



Interior material is certified food grade 304 stainless steel, ensuring safe contact between food and interior liner.



Interior lock design ensures product safety. Lockable casters permit ease of installation and maneuvering.



Water proof digital control delivers precise temperature for storage. Display and control system are easy to use.

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)	370	410	420	
	Electrical Current (A)	3	3	3.5	
	Power Consumption (kWh/24h)	4.5	5.5	6.5	
Construction	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	
Loading Quantities	Container Load (20'/40'/40'H)	28/56/56	22/46/46	14/28/28	
Alarms	High/Low Temp	Y	Y	Y	
	Sensor Error	Y	Y	Y	
Accessories	Caster	Y	Y	Y	
	Porthole	Y	Y	Y	
Certification	CE	Y	Y	Y	

Product appearance and specifications are subject to change without notice

The double door -40°C biomedical freezer models offer a large capacity storage space with rapid cooling. Integrated design of cold shelf and evaporator provides additional refrigeration efficiency. Designed to store vaccines, blood plasma and many other biological materials. Installations can be found in research institutions and clinical sites in the life science, pharma, biotech, medical and electronics sectors.



DW-40L508



DW-40L348



Control panel



Drawer

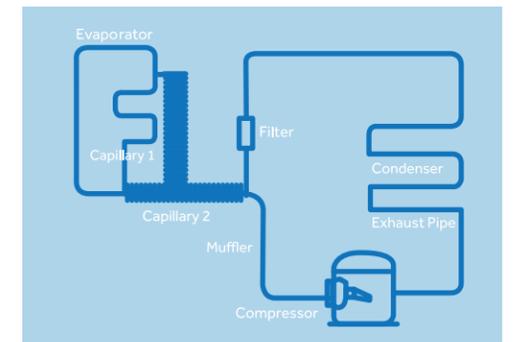


Shelf

The DW-40L348 is based on the original work horse platform of DW-40L508. The new freezer model operates with two capillary tubes and is equipped with dual gaskets to improve the temperature uniformity through the chamber. It can be installed to satisfy tougher application requirements in universities, research institutions and blood banks.

Reliability and Key Features

- Rated for -40°C at 32°C ambient
- Rapid cooling with shelf evaporator
- Improved temperature uniformity with dual capillary tube design at the range of -20°C to -40°C
- The temperature uniformity is $\pm 4^\circ\text{C}$ with the setting temperature of -40°C
- Improved door seal design with two gaskets maintains cabinet temperature more efficiently
- Reduced frost buildup
- 90mm insulation thickness for additional robustness, less power consumption and better temperature retaining ability
- Drawer design maximizes storage space. One unit can hold 360 bags of 230 ml blood bags
- Optional USB interface



Safety

- Multiple malfunction alarms include high/low temperature, power failure, sensor error, low battery, high ambient temperature
- Two types of alarms: buzzer and flashing light, remote alarm



Ergonomic Design

- LED digital display for clear observation
- Double door design with independent locks reduces air leakage to ensure temperature stability and lower power consumption
- Tracks to label drawers for product identification





Key Features

- Microprocessor control, adjustable temperature range :-20°C to -40°C
- LED digital display and increment at 0.1°C
- Permanently lubricated cooling fan for safety and longevity
- Rapid cooling with shelf evaporator
- Removable double outer door seal design, good sealing effect and energy saving

Ergonomic Design

- USB data logging and temperature recorder (optional)
- Padlock with stainless steel cylinder for safe storage
- Drawers are designed with label holders for item identification

Safety

- Multiple malfunction alarms include high/low temperature, sensor error, power failure, high ambient temperature, low battery, door ajar
- Alarm Types: buzzer, flashing light, remote alarm



Reliable Performance



USB



Malfunction Alarms



Double Outer Door Seal



Padlock



Caster and feet



Removable double outer door seal



Reliability and Key Features

- High efficiency low temperature compressor with known field reliability
- Chemically stable, CFC-free, commercially available and environmentally safe refrigerant
- Permanently lubricated cooling fan for safety and longevity, high density insulation foam for stable and long term storage temperature
- Optimized refrigeration system designed to maximize cooling effect and temperature uniformity
- Microprocessor control, digital display, adjustable temperature range: -20°C--40°C
- LCD digital display for clear observation
- Wide voltage tolerance design with applicable voltage range of 198-252 V/AC

Safety

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

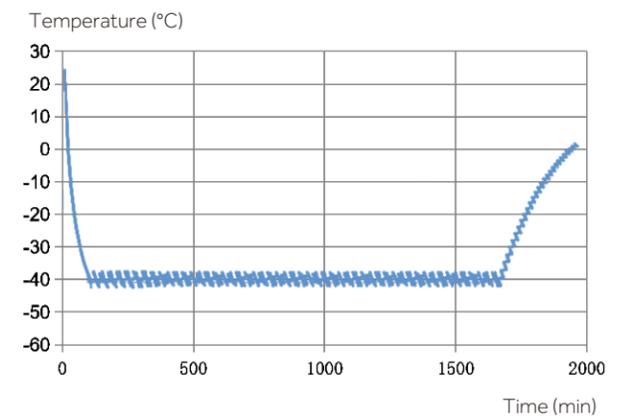
Ergonomic Design

- Door lock for storage safety
- Standard ø25mm access port for testing
- Corrosion proof cabinet interior design
- Suitable for a variety of storage baskets



Inner

Typical Performance Characteristic of DW-40W138J



Specifications



Model	DW-40L92	DW-40L262		DW-40L278		DW-40L348		DW-40L508		DW-40L568J	DW-40W138J	DW-40W255J	DW-40W380J		
Technical Data	Cabinet Type	Upright	Upright		Upright		Upright, Double Door		Upright, Double Door		Upright	Chest	Chest	Chest	
	Climate Class	SN N	SN N		SN N		SN N		SN N		SN N	SN N	SN N	SN N	
	Cooling Type	Direct cooling	Direct cooling		Direct Cooling		Direct Cooling		Direct Cooling		Direct cooling	Direct cooling	Direct cooling	Direct cooling	
	Defrost Mode	Manual	Manual		Manual		Manual		Manual		Manual	Manual	Manual	Manual	
	Refrigerant	HC	HC	CFC-Free	HC	CFC-Free	HC		HC	CFC-Free	HC	HC	HC	HC	
Performance	Sound Level (dB(A))	29	41	44	40	44	41		41	45	44	42	42	42	
	Cooling Performance (°C)	-40	-40		-40		-40		-40		-40	-40	-40	-40	
Control	Temperature Range (°C)	-20~-40	-20~-40		-20~-40		-20~-40		-20~-40		-20~-40	-20~-40	-20~-40	-20~-40	
	Controller	Microprocessor	Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor	Microprocessor	Microprocessor	Microprocessor	
Electrical Data	Display	LCD	LCD		LED		LED		LED		LCD	LCD	LCD	LCD	
	Power Supply (V/Hz)	220-240/50/60	220-240/50/60	115/60	220-240/50	220-240/50/60	220-240/50		220-240/50	208-230/60	220-240/50	220-240/50	220-240/50	220-240/50	
	Power (W)	340	310	600	275	370	280		285	510	340	260	370	450	
	Electrical Current (A)	2.2	2	7.5	2.9	5.1	2.9		2.9	5.6	2.8	2.3	3.1	2.9	
	Power Consumption(kWh/24h)	1.4	2.4	3.8	3.1	5.3	3.3		3.8	6.6	4	/	/	/	
Construction	Capacity (L/Cu.Ft)	92/3.2	262/9.3		278/9.8		348/12.3		490/17.3		568/20.1	138/3.9	255/9.0	380/13.4	
	Net/Gross Weight (approx)	kg	46/51	88/93		115/135		137/145		164/200		190/215	52/65	76/96	90/115
		lbs	101.4/112.4	194.0/205.0		253.5/297.6		302.0/320.0		361.6/440.9		418.9/474	114.6/143.3	167.5/211.6	198.4/253.5
	Interior Dimensions (W*D*H)	mm	435*410*635	480*465*1430		520*435*1230		535*610*1228		685*610*1228		610*755*1260	580*445*620	1000*445*620	1450*445*620
		in	17.1*16.1*25.0	18.9*18.3*56.3		20.5*17.1*48.4		21.1*24.0*48.3		27.0*24.0*48.3		24/29.7/49.6	22.8*17.5*24.4	39.4*17.5*24.4	57.1*17.5*24.4
	Exterior Dimensions (W*D*H)	mm	640*610*810	700*705*1665		770*710*1810		790*845*1860		940*845*1860		848*951*1780	790*770*950	1210*770*950	1655*770*950
in		25.2*24.0*31.9	27.6*27.8*65.6		30.3*28.0*71.3		31.1*33.3*73.2		37.0*33.3*73.2		33.4/37.4/70.1	31.1*30.3*37.4	47.6*30.3*37.4	65.2*30.3*37.4	
Packing Dimensions (W*D*H)	mm	660*700*900	775*760*1880		832*757*1992		852*927*2044		997*927*2044		900*1035*1910	815*800*990	1255*800*990	1695*800*990	
	in	26.0*27.6*35.4	30.5*29.9*74.0		32.8*29.8*78.4		33.5*36.5*80.5		39.3*36.5*80.5		35.4/40.7/75.2	32.1*31.5*39	49.4*31.5*39	66.7*31.5*39	
Loading Quantities	Container Load (20'/40'/40'H)	48/108/108	21/45/45		21/42/42		12/28/28		12/24/24		12/26/26	28/56/56	22/46/46	14/28/28	
Alarms	High/Low Temperature	Y	Y		Y		Y		Y		Y	Y	Y	Y	
	Remote Alarm	Y	Y		Y		Y		Y		Y	Optional	Optional	Optional	
	Power Failure	Y	Y		Y		Y		Y		Y	Y	Y	Y	
	Sensor Error	Y	Y		Y		Y		Y		Y	Y	Y	Y	
	Low Battery	/	/		Y		Y		Y		/	/	/	/	
	High Ambient Temp	Y	Y		Y		Y		Y		Y	Optional	Optional	Optional	
	Door Ajar	Y	Y		Y		/		/		Y	/	/	/	
Accessories	Caster	Y	Y		Y		Y		Y		Y	Y	Y	Y	
	Foot	Y	Y		Y		Y		Y		Y	/	/	/	
	Porthole	Y	Y		Y		Y		Y		Y	Y	Y	Y	
	Drawers/Inner Doors	3/-	7/-		6/-		12/-		10/-		- / 2	/	/	/	
	USB Interface	Optional	Optional	/	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional (USB or RS485, either-or)	Optional (USB or RS485, either-or)	Optional (USB or RS485, either-or)	
	RS485	Optional	Optional		Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional (USB or RS485, either-or)	Optional (USB or RS485, either-or)	Optional (USB or RS485, either-or)	
Certification	CE	Y	Y	/	Y	Y	Y	Y	Y	Y	CE	CE	CE		

Product appearance and specifications are subject to change without notice

Typical Installation and Application

Haier Biomedical -30°C biomedical freezer: safe and reliable dual-system, intelligent hot gas defrosting, hydrocarbon energy saving



DW-30L1280F

Key Features

Hydrocarbon energy saving: green and environmental protection
Utilizing green, eco-friendly and super low GWP HC refrigeration technology the energy consumption is as low as 8 kW/24H.

Intelligent defrosting: prolongs the defrosting cycle and safeguards the stability of the storage temperature
Intelligent defrosting reduces the number of cycles, which reduces the temperature fluctuation caused by defrosting during the sample storage cycle; it does this by intelligently identifying the amount of frost on the evaporator.

Dual independent refrigeration systems: ultimate sample security and safety
Two independent systems work together to deliver excellent temperature uniformity $\pm 3^{\circ}\text{C}$ ($\pm 5^{\circ}\text{C}$ during defrost) and provide extra sample security and peace of mind, with the knowledge that if one system fails, the other maintains the unit at -25°C .

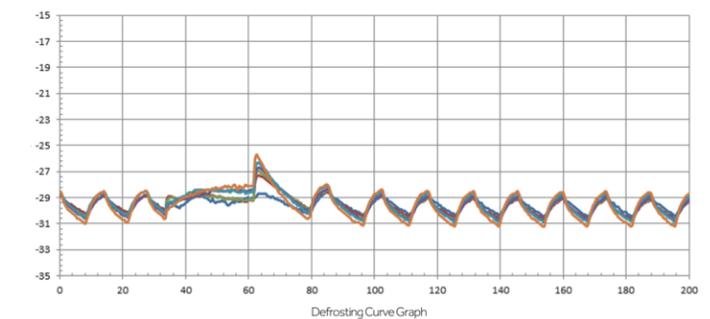
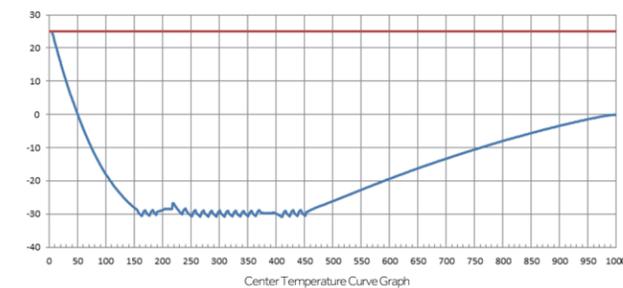
Hot gas defrosting technology: safe and efficient
Fully-automatic hot gas defrosting technology is deployed instead of an electrical heating element, this is quicker, safer and more efficient.

Low noise
Optimize system and engine room noise reduction design, noise: 45.4db (220V/50Hz test data).

Product Advantages

- Microcomputer control**
LED digital temperature display with inside temperature accuracy of 0.1 C, while at the same time displaying the voltage and ambient temperature, alarm, AB operating system and defrost level settings.
- Supersized double outer doors**
70mm insulation layer.
- Standard USB port**
Capable of storing more than 15 years of data.
- Safe lock**
Electronic mortise lock design, with NFC clocking-in function (fingerprint optional).
- Casters and feet**
4 omnidirectional casters and 2 levelling feet, easy to move, lock and level.
- Low noise**
Optimal system and engine noise reduction design, the temperature can cool down to -30°C within 3 hours.
- Heat preservation design of refrigeration unit**
Subtle temperature rise during defrosting.
- Intelligent hot gas defrosting**
Prolongs the defrosting cycle, eradicates the hidden danger of electric leakage.
- Shelves**
Equipped with 12 stainless steel shelves of 6 layers, which are adjustable to meet different requirements of users.
- Foam beam design**
Better insulation effect.
- The filter is extractable**
Easy to clean.

Optional: Blood baskets (48 units), and the capacity is 900 x 200ml blood bags.



Specifications

Model		DW-30L1280F	
Technical Data	Cabinet Type	Upright	
	Climate Class	N	
	Cooling Type	Air cooling	
	Defrost Mode	Automatic (Evaporator), Manual (Inner cabinet & Door frame)	
	Refrigerant	HC	
	Noise (dB(A))	46	
Performance	Cooling Performance (°C)	-30	
	Temp Range (°C)	-10~-30	
Control	Controller	Microprocessor	
	Display	LED	
Electrical Data	Power Supply (V/Hz)	220~240/50	
	Power (W)	900W (220V/50Hz)	
	Electrical Current (A)	4.5	
	Power Consumption (kWh/24h)	8	
Construction	Capacity (L/Cu.Ft)	1280/45.2	
	Net/Gross Weight(approx)	kg	420/480
		lbs	925/1058
	Interior Dimension(W*D*H)	mm	1320*752*1260
		in	52/29.6/49.6
	Exterior Dimension(W*D*H)	mm	1520*1065*1980
in		60/42/78	
Packing Dimension(W*D*H)	mm	1570*1080*2130	
	in	61.8/42.5/83.8	
Loading Quantities	Container Load (20'/40'/40'H)	6/14/14	
Alarms	High/Low Temperature	Y	
	Remote Alarm	Y	
	Power Failure	Y	
	Sensor Error	Y	
	Low Battery	Y	
	High Ambient Temperature	Y	
	Door Ajar	Y	
Accessories	Castor	Y	
	Foot	Y	
	Porthole	Y	
	Drawers	12	
	USB Interface	Y	
	RS485	Y	
Certification	CE	Y	

F suffix - Forced air cooling

Product appearance and specifications are subject to change without notice

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-30L818BP****Key Features****Energy saving with variable frequency inverter technology**

Optimized refrigeration system with a high efficiency inverter compressor to reduce energy consumption.

**Excellent temperature uniformity in a large storage space**

Features built-in evaporator, large storage space and adjustable shelf, providing faster temperature pulldown and a better temperature uniformity of set point $\pm 3^{\circ}\text{C}$.

**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

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.



Pressure equalization port for easy door opening.

Microprocessor temperature control: LED displays cabinet temperature with 0.1°C resolution, ambient temperature, and input voltage.

Ergonomic handle design: easy access to storage space, built in lock and padlock features.



DW-30L818BP

Casters and leveling legs for ease of maneuvering and positioning.



Powder coating galvanized interior with large round corner design, corrosion resistance and easy to clean.

Inner door design reduces loss of cold air to improve energy efficiency and stable temperature.

Adjustable shelves made with stainless steel or coated steel.

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

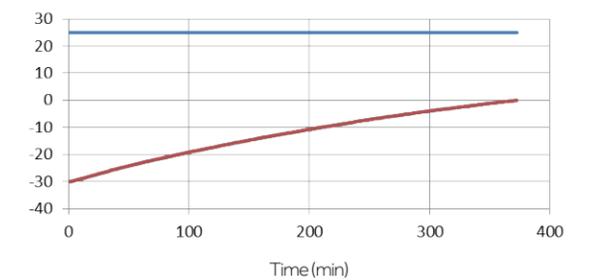
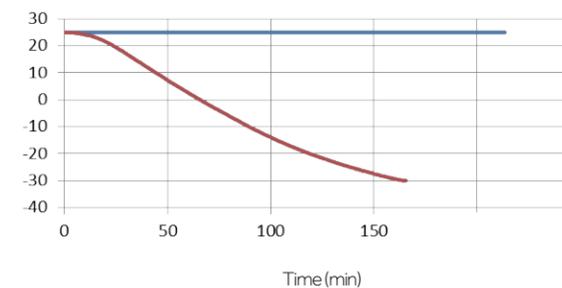
Temperature Recorder

- Optional temperature recorder for temperature recording and compliance.



Typical Performance Characteristics at 25°C ambient

— Ambient Temp.
— Center Temp.



Product Advantages

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.

Ergonomic handle design: easy access to storage space, built in lock and padlock features.

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



DW-30L818



Double seal design provides better insulation and saves energy.



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

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



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.

Specifications

	Model	DW-30L818	DW-30L818BP	
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))	44	37 (220V/50Hz)	
Performance	Cooling Performance (°C)	-30	-30	
	Temp Range (°C)	-10--30	-10--30	
Control	Controller	Microprocessor	Microprocessor	
	Display	LCD	LED	
Electrical Data	Power Supply (V/Hz)	220-240/50	100-230/50/60	
	Power (W)	380	680	
	Electrical Current (A)	2.8	7.7	
	Power Consumption (kWh/24h)	3.5	3.3	
Construction	Capacity (L/Cu.Ft)	818/28.9	818/28.9	
	Net/Gross Weight (approx)	kg	205/235	210/240
		lbs	451.9/518.1	463.0/529.1
	Interior Dimension (W*D*H)	mm	750*755*1460	750*755*1460
		in	29.5*29.7*57.5	29.5/29.7/57.5
	Exterior Dimension (W*D*H)	mm	988*951*1980	988*951*1980
in		38.9/37.4/78.0	38.9/37.4/78.0	
Packing Dimension (W*D*H)	mm	1040*1060*2150	1040*1060*2150	
	in	40.9/41.7/84.6	40.9/41.7/84.6	
Loading Quantities	Container Load (20'/40'/40'H)	10/22/22	10/22/22	
	High/Low Temperature	Y	Y	
Alarms	Remote Alarm	Y	Y	
	Power Failure	Y	Y	
	Sensor Error	Y	Y	
	Low Battery	/	Y	
	High Ambient Temperature	Y	Y	
	Door Ajar	Y	Y	
	Castor	Y	Y	
	Foot	Y	Y	
Accessories	Porthole	Y	Y	
	Inner Doors	3	3	
	Temperature Recorder	Optional	Optional	
	USB Interface	Optional	Optional	
	RS485 Port	Optional	Y	
	CE	Y	Y	
Certification	UL	/	Y	
	Energy Star	/	Y	

BP suffix - Variable frequency inverter compressor

Product appearance and specifications are subject to change without notice

This freezer is designed for storage of critical and temperature sensitive biological samples, laboratory products and medical products in institutions such as blood banks, hospitals and research laboratories.



Key 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 use
- High-performance refrigeration system: achieves excellent temperature uniformity with intelligent operation control at -30°C
- Microprocessor control with digital display: 0.1°C control increments, adjustable range of -10°C to -30°C



Door lock and padlock



Backup battery protection



USB



Malfunction Alarms

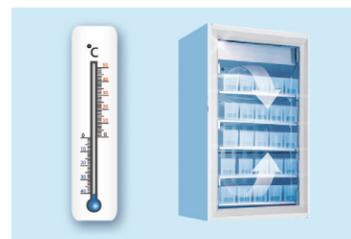
DW-30L420F



Drawer (Optional)



Microprocessor control panel



Air distribution



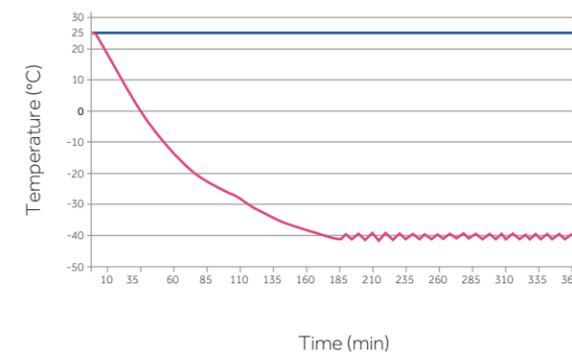
Safety

- Alarm system includes audible and visual alerts. Alarms include high and low temperature, sensor error, power failure, door ajar, low battery and high ambient temperature. Remote contacts are standard
- Backup battery provides continuous monitoring and displays the interior temperature for up to 48hrs in the event of a mains power failure
- Standard USB port on DW-30L420F allows users to download temperature data
- Lockable door with padlock for added sample security

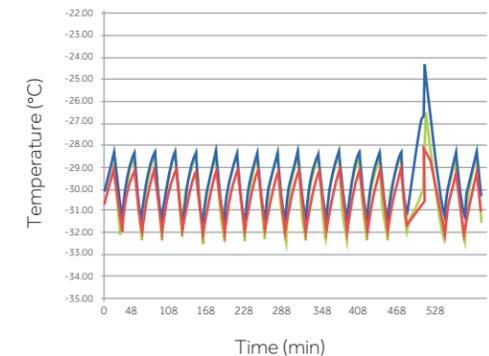
Ergonomic Design

- Self-closing door with 90° stay-open feature conserves energy and helps maintain temperature uniformity to protect your valuable samples
- Corrosion-free interior brushed stainless steel liner and exterior coated steel plate
- 5 adjustable stainless steel shelves and optional drawer
- Casters and levelling legs, easy to move and lock

Pull down test at 25°C ambient



Temperature Uniformity



*Freezer set-point -30 °C, ambient temperature 25 °C

Haier Biomedical -30°C biomedical freezer with smart control and energy-saving hydrocarbon refrigeration system for safe and reliable product storage.

**DW-30L278****DW-30L508**

Application

Biomedical and life science laboratories within blood banks, hospitals, disease control centres and research institutes as well as electronics and chemical industries. Used for cryopreservation of plasma, biological samples and other products and cold tests for components and materials.

Advantages

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

Industrial grade energy-saving compressor and optimized cooling system reduces power consumption by more than 55% compared with older models.

- **Green and environmentally friendly**

Hydrocarbon refrigerant compressor system and use of hydrocarbon refrigerants makes the refrigeration system completely green and environmental friendly. Built with isopentane foam polyurethane insulation, which complies with European RoHS Directive.

- **Superior temperature uniformity**

Evaporator-shelf design speeds up the cooling process and provides a more uniform temperature distribution. The temperature uniformity at specific points throughout the unit is $\pm 4^{\circ}\text{C}$.

- **Low sound level**

Sound-reducing design with optimized system reduces the sound level, smoother operation eliminates high-pitched noise.

Key Features



- **Microprocessor control system:**

- Microprocessor temperature controller, LCD temperature display, display accuracy at 0.1°C.
- Adjustable temperature setting from -10°C to -30°C
- Multiple alarm functions including high temperature alarm, low temperature alarm, sensor failure alarm and power failure alarm
- Sound and flash alarm
- Alarm lasts for more than 24 hours after power failure



- **Excellent temperature-retaining ability**

High efficient insulation and double-sealing design improves temperature performance, energy efficiency and system reliability



- **Lock**

Lock latch and key lock double-lock design provides an extra level of security



- **Porthole**

Porthole design is standard



- **Recorder**

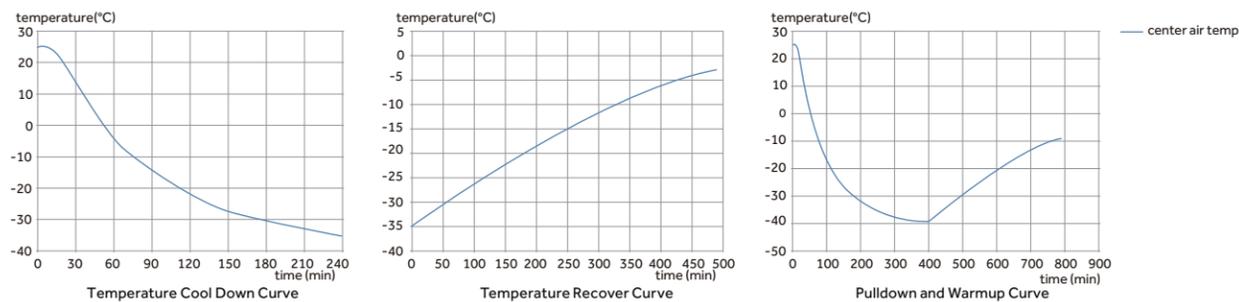
Optional chart temperature recorder available





DW-30L508

DW-30L508 | TYPICAL PERFORMANCE CHARACTERISTICS AT 25°C AMBIENT



Specifications

Model	DW-30L420F		DW-30L278	DW-30L508	
Technical Data	Cabinet Type	Upright		Upright, Double Door	
	Climate Class	SN N		SN N	
	Cooling Type	Forced air Cooling		Direct Cooling	
	Defrost Mode	Automatic (Evaporator), Manual (Inner cabinet & Door frame)		Manual	
	Refrigerant	HC		HC	
	Sound Level (dB(A))	46	40	41	43
Performance	Cooling Performance (°C)	-30		-30	
	Temperature Range (°C)	-10--30		-10--30	
Control	Controller	Microprocessor		Microprocessor	
	Display	LED		LCD	LED
Electrical Data	Power Supply (V/Hz)	220-240/50	208-230/60	220-240/50	115/60
	Power (W)	460/1000(Defrost)		330	600
	Electrical Current (A)	4.0/5.8(Defrost)		2	5.4
	Power Consumption (kWh/24h)	4.6	5.3	2.3	2.8
Construction	Capacity (L/Cu.Ft)	420/14.8		278/9.8	
	Net/Gross Weight (approx)	kg	195/225	115/135	164/200
		lbs	429.9/496.0	253.7/297.7	361.6/440.9
	Interior Dimension (W*D*H)	mm	685*610*1028	520*435*1230	685*610*1228
		in	27.0*24.0*40.5	20.5*17.1*48.4	27.0*24.0*48.3
	Exterior Dimension (W*D*H)	mm	950*920*1900	745*675*1810	915*810*1860
in		37.4*36.2*74.8	29.3*26.6*71.3	36.0*31.9*73.2	
Packing Dimension (W*D*H)	mm	980*935*2040	805*725*1970	980*905*2040	
	in	38.6*36.8*80.3	31.7*28.5*77.6	38.6*35.6*80.3	
Loading Quantities	Container Load (20'/40'/40'H)	12/24/24		21/44/44	
Alarms	High/Low Temperature	Y		Y	
	Remote Alarm	Y		/	Y
	Power Failure	Y		Y	/
	Sensor Error	Y		Y	
	Low Battery	Y		/	/
	High Ambient Temperature	Y		/	/
	Door Ajar	Y		/	/
	Caster	Y		Y	
Accessories	Foot	Y		Y	
	Porthole	Y		Y	
	Drawers/Inner Doors	-/3	6/-	6/-	10/-
	Temperature Recorder	Optional		Optional	
	USB Interface	Y	Optional	/	/
	RS485	Optional		/	/
Certifications	CE	Y	/	Y	/
	UL	/	/	/	Y

Product appearance and specifications are subject to change without notice

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

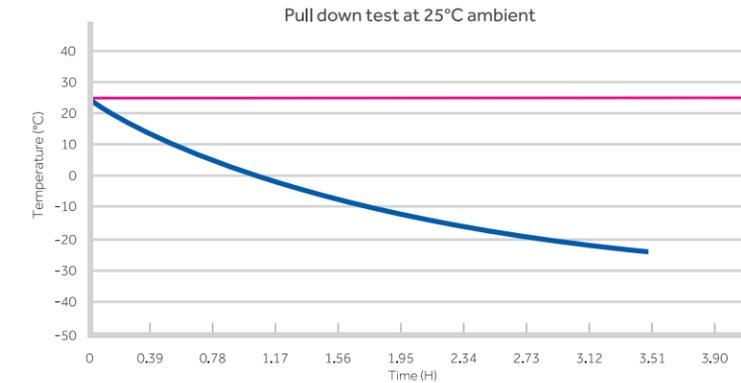
**DW-25L262**

Reliability and 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
- LED 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	34	
Performance	Cooling Performance (°C)	-25		-25		
	Temperature Range (°C)	-10--25		-10--25		
Control	Controller	Microprocessor		Microprocessor		
	Display	LCD		LCD		
Electrical Data	Power Supply (V/Hz)	220~240/50	115/60	220~240/50	115/60	
	Power (W)	255	125	270	135	
	Electrical Current (A)	1.2	1.8	1.4	2.6	
	Power Consumption (kWh/24h)	0.65	0.49	0.95	0.73	
Construction	Capacity (L/Cu.Ft)	92/3.2		262/9.3		
	Net/Gross Weight (approx)	kg	46/51		88/93	
		lbs	101.4/112.4		194.0/205.0	
	Interior Dimensions (W*D*H)	mm	435*410*635		480*465*1430	
		in	17.1*16.1*25.0		18.9*18.3*56.3	
	Exterior Dimensions (W*D*H)	mm	640*610*810		700*705*1730	
in		25.2*24.0*31.9		27.6*27.8*65.6		
Packing Dimensions (W*D*H)	mm	660*700*900		775*760*1880		
	in	26.0*27.6*35.4		30.5*29.9*74.0		
Loading Quantities	Container Load (20'/40'/40'H)	48/108/108		21/45/45		
Alarms	High/Low Temp	Y		Y		
	Sensor Error	Y		Y		
	Door Ajar	Y		Y		
	Remote Alarm	Y		Y		
Accessories	Caster	Y		Y		
	Foot	Y		Y		
	Porthole	Y		Y		
	Drawers	3		7		
	USB Interface	Optional	/	Optional	/	
	RS485	Optional		Optional		
Certifications	CE	Y	/	Y	/	
	UL	/	Y	/	Y	

Product appearance and specifications are subject to change with out notice