Haier Biomedical
Intelligent Protection of Life Science

Biomedical Freezer Solutions

-60°C | -40°C | -30°C | -25°C

-40.0°C

North America

Russia

UK

Europe

Middle East

China

Africa

South East Asia

South America

Oceania

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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.

CONTENT

Biomedical Freezer

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.
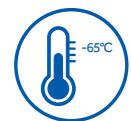
Dual-seal design

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

Biomedical Freezer

-40°C Biomedical Freezer (Double Doors Type)

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.

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.

DW-40L508

DW-40L348

Control panel

Drawer

Shelf

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 ±4°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
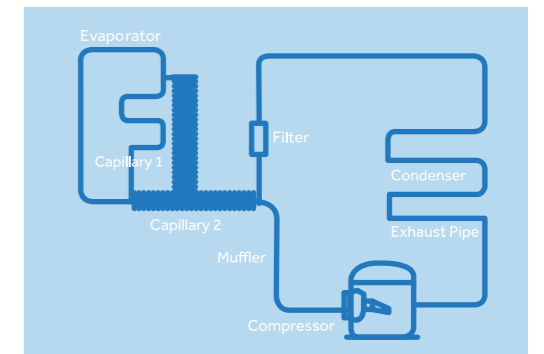
Safety

- 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

Evaporator

Capillary 1

Filter

Condenser

Capillary 2

Exhaust Pipe

Muffler

Compressor

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

DW-40L278

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
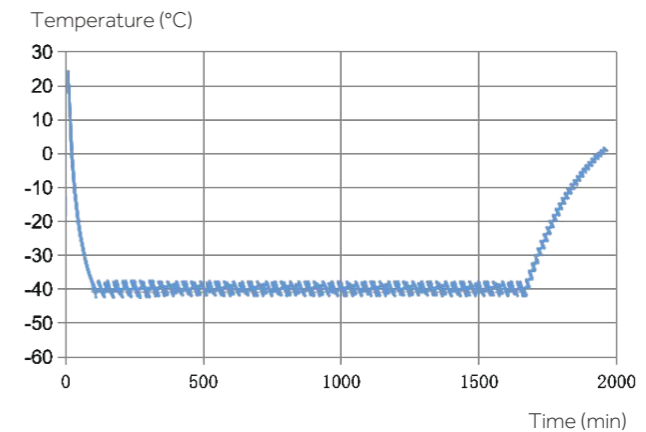- Two types of alarm indications: audible buzzing and visual flashing light

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

Temperature (°C)

Time (min)

-40°C Biomedical Freezer

Haier Biomedical

Specifications

Category	Parameter	DW-40L92	DW-40L262 (HC)	DW-40L262 (CFC-Free)	DW-40L278 (HC)	DW-40L278 (CFC-Free)	DW-40L348	DW-40L508 (HC)	DW-40L508 (CFC-Free)	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
	Sound Level (dB(A))	29	41	44	40	44	41	41	45	44	42	42	42
Performance	Cooling Performance (°C)	-40	-40		-40		-40	-40		-40	-40	-40	-40
	Temperature Range (°C)	-20~-40	-20~-40		-20~-40		-20~-40	-20~-40		-20~-40	-20~-40	-20~-40	-20~-40
Control	Controller	Microprocessor	Microprocessor		Microprocessor		Microprocessor	Microprocessor		Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LCD	LCD		LED		LED	LED		LCD	LCD	LCD	LCD
Electrical Data	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
	Net/Gross Weight (approx) 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
	Interior Dimensions (W*D*H) 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
	Exterior Dimensions (W*D*H) 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
	Packing Dimensions (W*D*H) 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 (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 (USB or RS485, either-or)	Optional (USB or RS485, either-or)	Optional (USB or RS485, either-or)
	Temperature Recorder	/	/		Optional		Optional	Optional		Optional	/	/	/
Certification	CE	Y	Y	/	Y		Y	Y		Y	CE	CE	CE

Product appearance and specifications are subject to change without notice

Biomedical Freezer

Typical Installation and Application

Haier Biomedical -30°C biomedical freezer: safe and reliable dual-system, intelligent hot gas defrost-ing, 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 ±3°C (±5°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℃, 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(fin-gerprint optional).

Casters and foots
4 omnidirectional casters and 2 levelling feet, easy to move, lock and level.

Heat preservation design of refrigeration unit
Subtle temperature rise during defrosting.

Low noise
Optimal system and engine noise reduction design, the temperature can cool down to -30℃ within 3 hours.
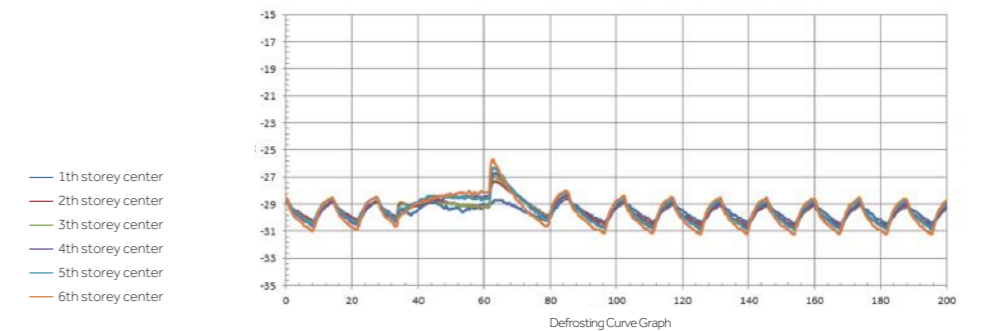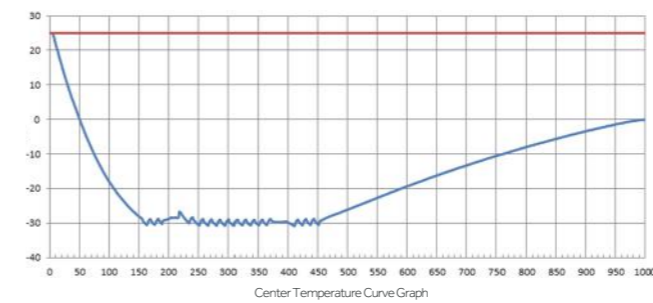
Intelligent hot gas defrosting
Prolongs the defrosting cycle, eradicates the hidden danger of electric leakage.

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.

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

The filter is extractable
Easy to clean.

Center Temperature Curve Graph

— center of the four-storey inside cabinet
— ambient temperature

Defrosting Curve Graph

— 1th storey center
— 2th storey center
— 3th storey center
— 4th storey center
— 5th storey center
— 6th storey center

Biomedical Freezer

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
	Net/Gross Weight(approx) — lbs	925/1058
	Interior Dimension(W*D*H) — mm	1320*752*1260
	Interior Dimension(W*D*H) — in	52/29.6/49.6
	Exterior Dimension(W*D*H) — mm	1520*1065*1980
	Exterior Dimension(W*D*H) — in	60/42/78
	Packing Dimension(W*D*H) — mm	1570*1080*2130
	Packing Dimension(W*D*H) — 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.
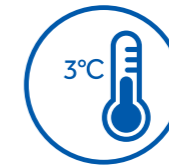
Excellent temperature uniformity in a large storage space
Features built-in evaporator, large storage space and adjustable shelf, providing faster temperature pulldown and a better temperature uniformity of set point ±3°C.

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.

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.

DW-30L818BP

Casters and leveling legs for ease of maneuvering and positioning.

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

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

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
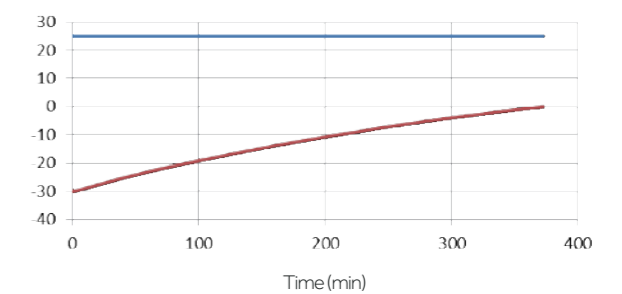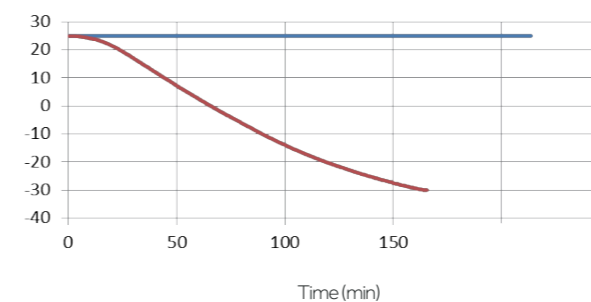
Temperature Recorder

·Optional temperature recorder for temperature recording and compliance.

Typical Performance Characteristics at 25°C ambient

——— Ambient Temp.

——— Center Temp.

Biomedical Freezer

-30°C Biomedical Freezer

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.

Double seal design provides better insulation and saves energy.

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

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

DW-30L818

Microcomputer electronic thermostat, LCD digital display of inside temperature, with 0.1℃ 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
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	Y
	Door Ajar		Y	Y
Accessories	Castor		Y	Y
	Foot		Y	Y
	Porthole		Y	Y
	Inner Doors		3	3
	Temperature Recorder		Optional	Optional
	USB Interface		Optional	Optional
	RS485 Port		Optional	Y
Certification	CE		Y	Y
	UL		/	Y
	Energy Star		/	Y

BP suffix - Variable frequency invertor compressor
Product appearance and specifications are subject to change without notice

Biomedical Freezer

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 (°C)

Time (min)

Temperature Uniformity

Temperature (°C)

Time (min)
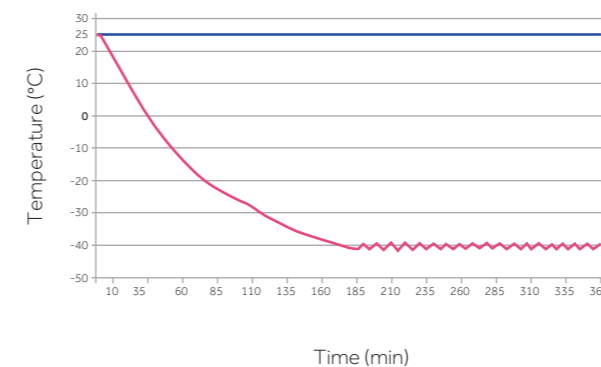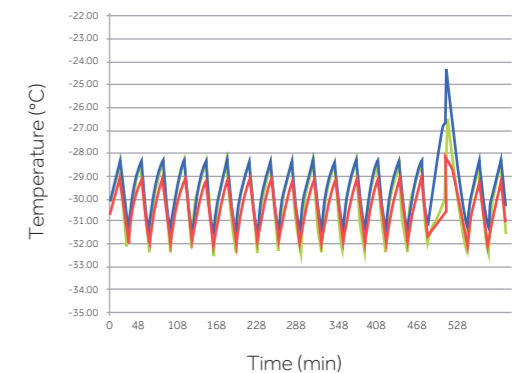
*Freezer set-point -30℃，ambient temperature 25℃

-30°C Biomedical Freezer

Haier Biomedical -30℃ 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.

-30°C Biomedical Freezer

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 ±4°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℃ to -30℃
- 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
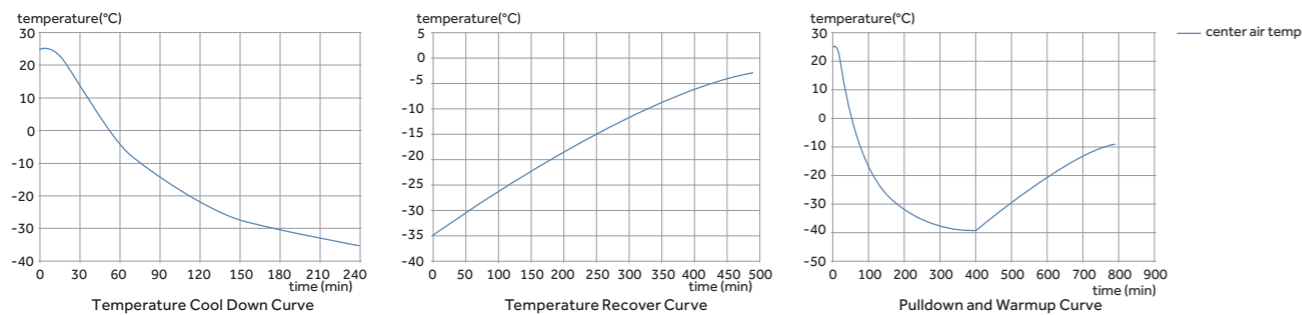
Porthole
Porthole design is standard

Recorder
Optional chart temperature recorder available

Biomedical Freezer

-30°C Biomedical Freezer

PS(Polystyrene) interior, painted steel plate exterior, rust-proof, and easy to clean

Padlock design, multi-user, independent management, latch-lock high security

10 interior plastic drawers with facility for labelling for efficient sample organisation and identification

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

Aluminum alloy handle, stable and durable

Standard casters and levelling feet for ease of manoeuvring and positioning

DW-30L508

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

Temperature Cool Down Curve

Temperature Recover Curve

Pulldown and Warmup Curve

center air temp

-30°C Biomedical Freezer

Specifications

	Model	DW-30L420F		DW-30L278	DW-30L508	
Technical Data	Cabinet Type	Upright		Upright	Upright, Double Door	
	Climate Class	SN N		SN N	SN N	
	Cooling Type	Forced air Cooling		Direct Cooling	Direct Cooling	
	Defrost Mode	Automatic (Evaporator), Manual (Inner cabinet & Door frame)		Manual	Manual	
	Refrigerant	HC		HC	HC	
	Sound Level (dB(A))	46		40	41	43
Performance	Cooling Performance (°C)	-30		-30	-30	
	Temperature Range (°C)	-10~-30		-10~-30	-10~-30	
Control	Controller	Microprocessor		Microprocessor	Microprocessor	
	Display	LED		LCD	LCD	LED
Electrical Data	Power Supply (V/Hz)	220~240/50	208~230/60	220~240/50	220~240/50	115/60
	Power (W)	460/1000(Defrost)		330	530	600
	Electrical Current (A)	4.0/5.8(Defrost)		2	3	5.4
	Power Consumption (kWh/24h)	4.6	5.3	2.3	2.8	2.8
Construction	Capacity (L/Cu.Ft)	420/14.8		278/9.8	490/17.3	
	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	12/26/26	
Alarms	High/Low Temperature	Y		Y	Y	
	Remote Alarm	Y		/	/	Y
	Power Failure	Y		Y	Y	/
	Sensor Error	Y		Y	Y	
	Low Battery	Y		/	/	
	High Ambient Temperature	Y		/	/	
	Door Ajar	Y		/	/	
Accessories	Caster	Y		Y	Y	
	Foot	Y		Y	Y	
	Porthole	Y		Y	Y	
	Drawers/Inner Doors	-/3	6/-	6/-	10/-	
	Temperature Recorder	Optional		Optional	Optional	
	USB Interface	Y	Optional	/	/	
	RS485	Optional		/	/	
Certifications	CE	Y	/	Y	Y	/
	UL	/	/	/	/	Y

Product appearance and specifications are subject to change without notice

Biomedical Freezer

Haier Biomedical

The Haier Biomedical -25°C biomedical freezer maximises storage space. Integrated cold shelf and evaporator design provides maximum refrigeration efficiency.
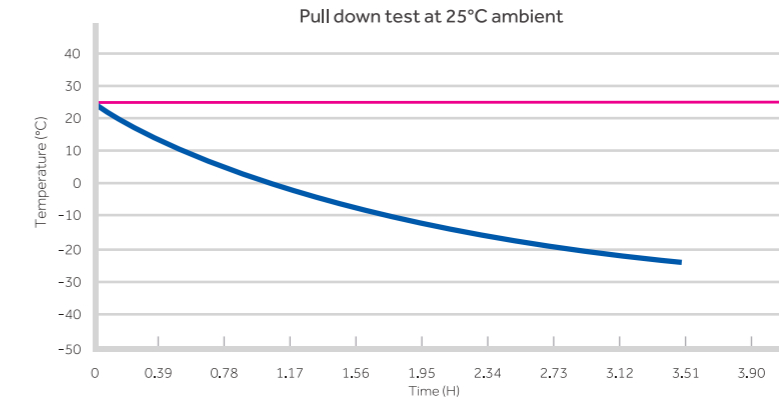
DW-25L262

Reliability and Key Features

- Chemically stable,HC commercially available and environmently 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

Pull down test at 25°C ambient

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 (appox) 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*1665	700*705*1730
	in	25.2*24.0*31.9		27.6*27.8*65.6	27.6*27.8*68.1
	Packing Dimensions (W*D*H) mm	660*700*900		775*760*1880	775*760*1890
	in	26.0*27.6*35.4		30.5*29.9*74.0	30.5*29.9*74.4
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

Biomedical Freezer