Large Capacity -30°C Biomedical Freezer

DW-30L818

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.

Energy efficient hydrocarbon (HC) refrigeration system
Optimised 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.
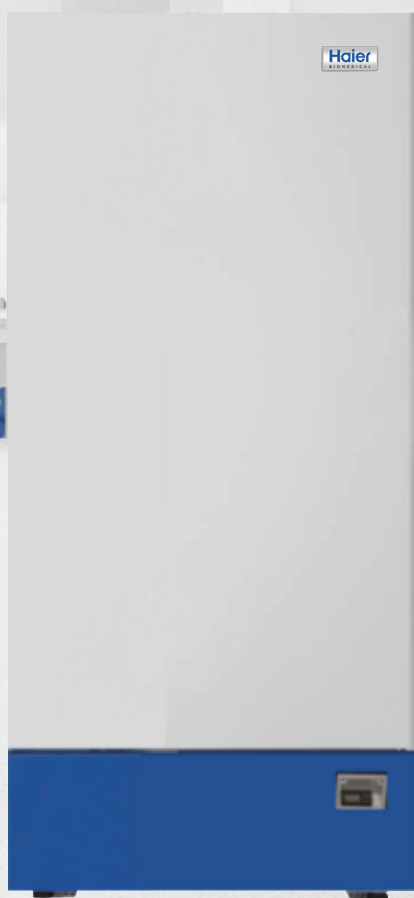
Large capacity, superior uniformity
Built-in evaporator for faster cooling speed and uniform temperature throughout the cabinet, ±3 C . Large internal space with adjustable shelves for flexible configuration.

Low noise
Optimised system and cabinet design ensures low noise emissions, less than 44dB.

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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.

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

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

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.

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

Plastic ABS 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)

Microprocessor control system

· Microcomputer electronic thermostat, LCD temperature display, display precision 0.1°C, inside temperature set point -10~-30°C (adjustable).
· Multiple alarm functions including high temperature alarm, low temperature alarm, sensor fault alarm, power off alarm, open door alarm, high ambient temperature alarm.
· Sound and light alarm mode can be connected to a remote alarm interface.
· Battery backup alarm function operates continuously for >24hr in the event of a power outage.
· Standard configuration: RS485 port.
· Optional USB interface and temperature logger.

Superior thermal insulation performance

70mm super thick insulation layer design, double door seals plus three inner doors, superior thermal insulation and energy saving effect.

Porthole

Portholes as standard, allows for independent testing of cabinet temperature.
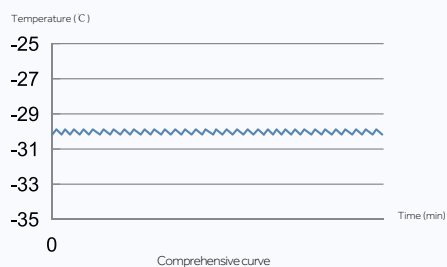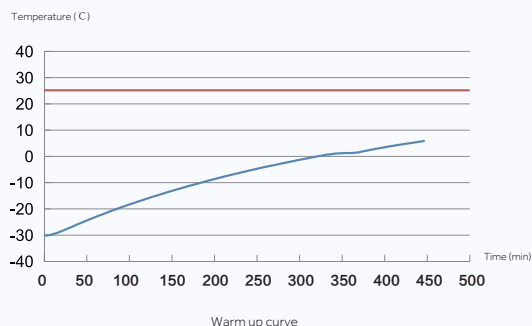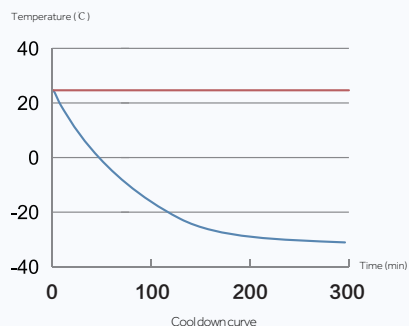
Security lock

Built-in lock and padlock available, convenient and safe for multiple users or independent management as needed.

Chart recorder

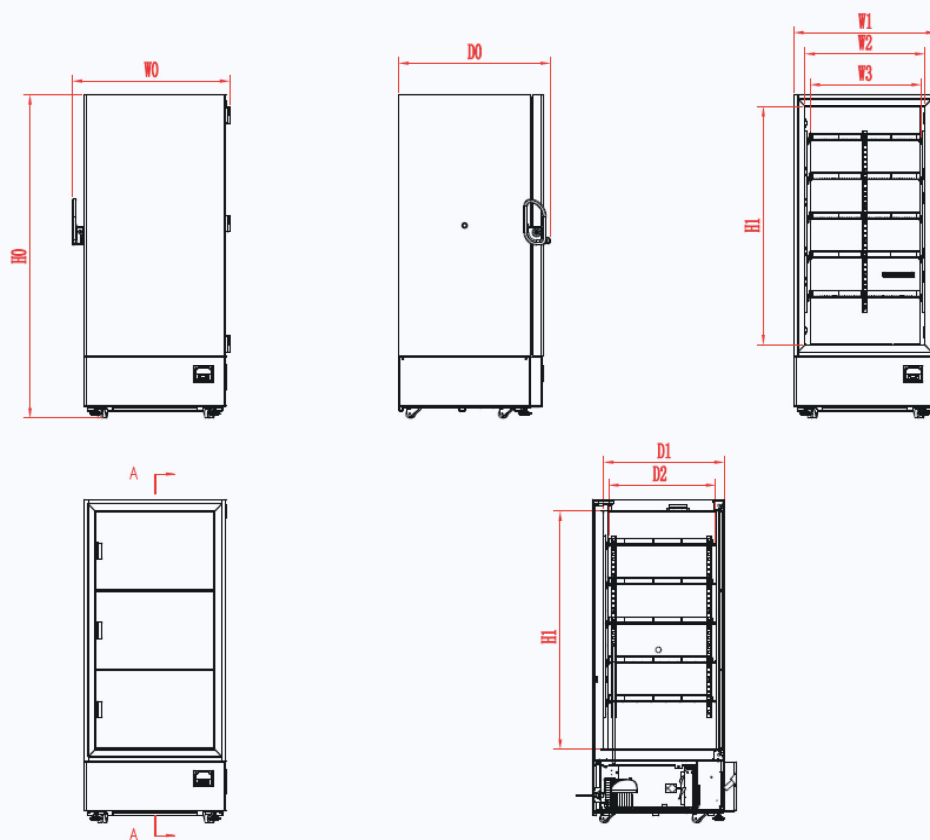Optional chart recorder for temperature records.

Typical Performance Characteristics in 25℃ Ambient: DW-30L818

Temperature (C)

Cool down curve

Temperature (C)

Warm up curve

Temperature (C)

Comprehensive curve

—— Ambient Temp.
—— Cabinet Temp.

Product Dimension Drawing

Remark:
W0: Overall Width
W1: Freezer Width
W2: Internal Width
W3: Internal Shelf Width
D0: Overall Depth
D1: Internal Depth
D2: Internal Shelf Depth
H0: Overall Height
H1: Internal Height

CODE MODEL	WO	W1	W2	W3	D0	D1	D2	H0	H1
DW-30L818	988m	890mm	750mm	698mm	951mm	755mm	671mm	1980mm	1460mm

Specifications

Model			DW-30L818
Technical Data	Cabinet Type		Upright
	Climate Class		4
	Cooling Type		Direct cooling
	Defrost Mode		Manual
	Refrigerant		HC
	Noise((dB(A))		44
Performance	Cooling Performance(°C)		-30
	Temp Range(°C)		-10~-30°C (-35°C at 25°C Ambient Temperature)
Control	Controller		Microprocessor
	Display		LCD
Electrical Data	Power Supply(V/HZ)		220~240/50
	Electrical Current(A)		2.8
	Capacity(L/Cu.Ft)		818/28.9
Dimensions	Net/Gross Weight(approx)	(kg)	205/235
		(lbs)	451.9/518.1
	Interior Dimension(W*D*H)	(mm)	750*755*1460
		(in)	29.5*29.7*57.5
	Exterior Dimension(W*D*H)	(mm)	988*951*1980
		(in)	38.9*37.4*78.0
Alarm Functions	Remote Alarm		Y
	High/Low Temp Alarm		Y
	Power Failure Alarm		Y
	Sensor Error Alarm		Y
	Low Battery Alarm		N
	High Ambient Temp Alarm		Y
	Door Ajar Alarm		Y
Accessories	Caster		Y
	Foot		Y
	Test Hole		Y (2)
	Shelves/ Inner Doors		5/3
	USB Interface		Optional
	5V Power Supply Port		N
	Temp Recorder		Optional
	RS485 Port		Y
Optional Plastic ABS Drawer	Exterior Dimension (W*D*H)	(mm)	141.5*691.5*150
	Interior Dimension (W*D*H)	(mm)	122*671*100
	Quantity		30
Optional Stainless Steel Shelves	Dimension (W*D)	(mm)	703*685
	Quantity		5
Other	Certificate		CE