

Haier Biomedical Water-Cooled ULT Freezer



Water-cooled frequency conversion saves energy

Imported variable frequency compressor, hydrocarbon refrigerant, efficient refrigeration system, energy saving Water-cooled cooling system, water circulation cooling replaced ring temperature cooling, reducing 90% of the heat self-discharge, less need for air conditioning in the room, reduce the input and cost of air conditioning.



Green and environmentally friendly

Hydrocarbon compressor and refrigerant, green environmentally friendly refrigeration system, GWP is zero with iso-pentane foam polyurethane insulation layer, the entire series is in accordance with the European ROHS directive for environmentally friendly green materials.



Superior uniformity

The temperature is more uniform. When set at -80°C , the difference between the highest temperature and the lowest temperature in the cabinet is $\leq 6^{\circ}\text{C}$.



Safe and durable

Reset pressure protection design can avoid any faults from the water circulation treatment system, ensuring the safe operation of the equipment. Intelligent adjustable pressure valve design, automatically adjusts the water intake, improving the life of the compressor and the whole unit.



Low noise

Optimized system and structure noise reduction design, noise levels at 43.5 db (220V/50Hz test data).

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Product Information

Usage/Scope of application

This product is suitable for ultra-low temperature storage in clinical, pharmaceutical, scientific research and health institutions. It also can be used in blood Banks, hospitals, centers for disease control and prevention, scientific research institutes, electronics and chemical laboratories, biomedical engineering, and the high seas fisheries storage of red blood cells, viruses, bacteria, skin, bones, bacteria, sperm, biological products, electronic components, special products and low temperature test samples as some key examples.



DW-86L828W

Water –Cooled ULT Freezer



Microcomputer control system

Microcomputer control, 10.1 inch LCD temperature display, display precision 0.1 °C, inside temperature -10~-86 °C (adjustable). Directly displays the refrigerators data such as temperature, voltage and ambient temperature



Multiple alarm functions

Including high temperature alarm, low temperature alarm, sensor fault alarm, condenser failing alarm, power off alarm, low battery power alarm, open door alarm, high ambient temperature alarm.



Stand-alone sample management system

Manage the type and quantity of samples stored in the refrigerator; individual samples information available on each shelf.

Superior thermal insulation performance

The outer door is sealed in four layers, and the inner door is sealed in one layer to prevent the loss of internal cold air, and door body 90mmVIP+ polyurethane foam.



Memory

Standard USB and up to 10 years of the life temperature monitoring data can be downloaded & exported as needed.



Multiple safety locks

All on the one handle, Standard key lock and padlock (lock); Optional electromagnetic lock and fingerprint lock; Multiple safety lock design, lock sample security.



Super-long standby

When powered off, two lithium batteries can maintain the refrigerator LCD screen for 22 hours.

Networking function

R485 interface is standard, which secures multi-refrigerator networking.

Water -Cooled ULT Freezer



Biomedical freezer



• Temperature curve



• Features



• Backup system (optional)



• Create message, message box



• Alarm and event record, authority management



• Authority management

Water-Cooled ULT Freezer



- ① The three-color lamp board can directly display the running state of the refrigerator. Green indicates that the refrigerator is running normally, and yellow/red indicates that the refrigerator has an alarm.
- ② WIFI signal, when the network is open and when the LCD screen has a new version update, the LCD screen will automatically be upgraded, eliminating any time wasted by manual upgrades.
- ③ The help button for each page has instructions for using the page.
- ④ Temperature accuracy within 0.1 °C
- ⑤ Configure the sample library address (only when using the sample library software).
- ⑥ View alarm logs to visually view the operating status of the refrigerator.
- ⑦ Create a new message, notepad, convenient for work handover, and work records.



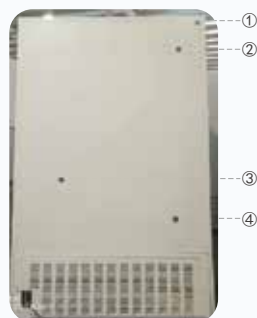
- ① In case of no operation for 5 minutes, the LCD screen will turn off by default, which can extend the life of the LCD screen.
- ② After canceling the alarm, if the alarm is not cleared within the set time, the user will be reminded again to prevent the user from forgetting.
- ③ When multiple refrigerators are used, the startup power is very high, the startup delay time can be set, and the refrigerators can be started in batches.
- ④ Set the door alarm for a certain time of opening the door, the user can set according to actual use.
- ⑤ Default in case of 5 minutes without operation, the account will automatically log out to prevent other personnel from mishandling.
- ⑥ In the authorization mode, only the person who applies for permission can set the refrigerator parameters.
- ⑦ The ambient temperature alarm value is adjustable from 30°C to 50 °C to avoid frequent alarms in high temperature environments.



Biomedical freezer



- Haier's unique 5V cold chain power supply line module makes it easy for users to install the cold chain monitoring power supply without the need to pull the terminal block separately. Directly powered by the whole machine.
- The machine is equipped with 3 test holes.
- The filter mesh is easily disassembled, continuing Haier's unique design of ultra-low temperature.



- ① Backup system electromagnetic valve power supply line
- ② Test hole 1
- ③ Test threading hole 3
- ④ Test hole 2

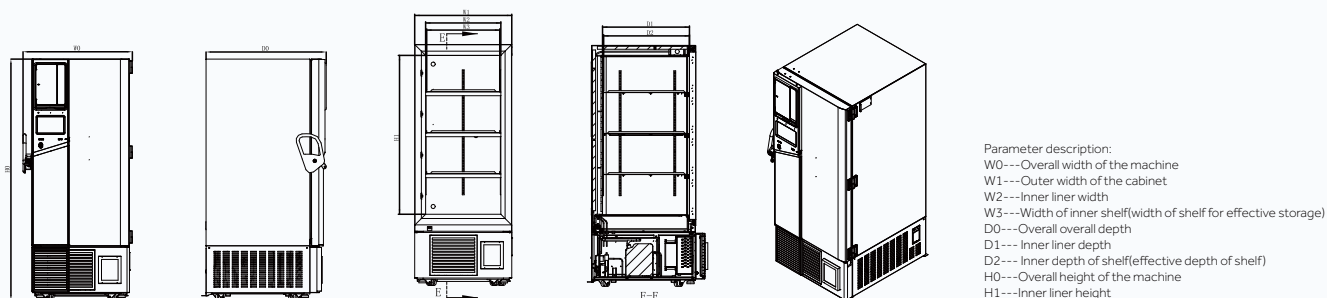


⑤ 5V cold chain power supply module

Specifications

Model	DW-86L828W		Model	DW-86L828W	
Technical Data	Cabinet Type	Upright	Functions	High/Low Temperature	Y
	Climate Class	N		Hot Condenser	Y
	Cooling Type	Direct cooling		Power Failure	Y
	Defrost Mode	Manual		High/Low Voltage	Y
	Refrigerant	HC		Sensor Error	Y
	Sound Level(dB(A))	43.5		Low Battery	Y
Performance	Cooling Performance(°C)	-86		High Ambient Temperature	Y
	Temperature Range(°C)	-40~-86		Door Ajar	Y
Control	Controller	Microprocessor	Accessories	Caster	Y
	Display	Touch Screen LCD		Foot	Y
Electrical Data	Power Supply(V/Hz)	208~230/50 208~230/60		Porthole	Y/2
	Power(W)	1100		Shelves/ Inner Doors	3/4
	Electrical Current(A)	6		USB Interface	Y
Dimensions	Capacity(L/Cu.Ft)	828/29.2		Remote Alarm	Y
	Net/Gross Weight(approx.)	(kg) 380/415 (lbs.) 837.7/914.9		5V Power Supply Port	Y
	Interior Dimension(W*D*H)	(mm) 870*716*1310 (in) 34.3*28.2*51.6		Temperature Chart Recorder	Optional
	Exterior Dimension(W*D*H)	(mm) 1145*998*1980 (in) 45.1*39.3*78.0		RS232/485 Port	Optional/Standard
	Packing Dimension(W*D*H)	(mm) 1190*1045*2150 (in) 46.9*41.1*84.6		CO2 Backup System	Optional
	Container Load(20'/40'/40'H)	8/20/20		LN2 Backup System	Optional
	Container Load(20'/40'/40'H)	8/20/20			
Other	Certification	CE			

Product dimension drawings



Model	Parameter	W0	W1	W2	W3	H0	H1	D0	D1	D2
DW-86L828W		1145mm	1050mm	870mm	854mm	1987mm	1310mm	998mm	716mm	706mm

Product dimension drawings

