

DW - HL398HC



85.3



The new generation of ultra-low temperature refrigeration system can ensure fast refrigeration and was awarded with the Second Prize under State Technological Invention Award.

Five Magic Weapons for Energy Saving

Imported high-efficiency compressor + separated evaporator + composite heat exchanger + optimized fractional condensation & separation system + high-efficiency thermal insulation system can save energy and reduce power consumption of the freezer by 40%.

Noise Design

Low-noise direct cooling circuit + suspension frame & sound absorbing compartment & low-noise fan can reduce noise generated by the entire freezer to the largest extent.



The six sides of the cabinet are made from high-efficiency VIP vacuum thermal insulation plate, and the thermal insulation design of the inner door made from foaming material and the outer door system was awarded with multiple patents, which can improve the thermal insulation performance of the freezer.

Toptional Accessories (WiFi/Bluetooth printer/Magnetic lock/Swipe card/Fingerprint)

Connect WiFi to upload data to the cloud space, monitor the device, check the status of the freezer faster, and ensure the safety of the samples:

Optional Bluetooth printer, real-time export temperature data, temperature graph, setting operation and other data, to understand the freezer operating status:

Optional functions such as card unlocking, fingerprint unlocking, and facial recognition unlocking are available to facilitate quick access to samples.





7" HD Intelligent Screen Control System

- ·7-inch HD intelligent display touch screen, userfriendly interface and more accurate temperature control, with Bluetooth, WiFi and other functions, more convenient operation and more comprehensive functions;
- · Can add multiple user accounts to log in and record usage/operation records;
- The high-precision microcomputer control system and platinum resistor sensors enable users to set temperature inside the cabinet within a range from -40 to -86°C;
- Optional functions such as card unlocking, fingerprint unlocking, and facial recognition unlocking are available to facilitate quick access to samples.



Security System

- · The perfect audible & visual alarm system: high and low temperature, sensor failure, power failure, low battery, door ajar, main board communication error etc;
- \cdot Equipped with alarm self-recovery function, it reminds users of unhandled alarm problems in freezer many times;
- The compressor start delay and stopping interval protection can ensure reliable operation;
- · Both the touch screen controller and key-board controller have password protection which can prevent any adjustment of operation without permission.



Refrigeration System

- ·The imported high-efficiency compressor and EBM fan are energy-saving and highly efficient;
- The large finned condenser with a space between fins≤2mm, providing effective heat dissipation.
- · DW-HL398HC with twin-compressor, if one is damaged, the other one could keep the temperature at -70°C stably;





Supplies for Cryopreservation

Freezer racks/boxes for cryopreservation are optional.

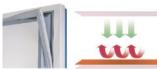
Remote alarm contact, RS485

Equipped with RS485 and remote alarm interface to realize remote observation of freezer operation status, real-time reception of product operation information, and ensure the storage safety of samples.



Data Storage

The temperature data recorded by the system can be exported, the operating data of the system settings, the alarm data, and the temperature data can be recorded in 2 minutes, which can effectively record the running status of the product for you for a long time.



Thermal Insulation System

- The two-layer heat insulating foamed door with inner and outer door seal and the insulation design of the outer door system with multiple patents can prevent loss of refrigerating capacity in an effective way;
- The six sides of the cabinet are made from high-performance VIP vacuum insulation material, improving thermal insulation performance to a large extent.



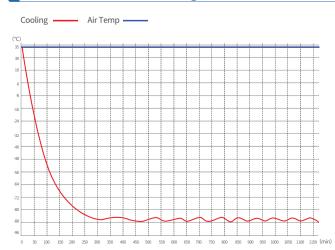
Human-oriented

- ·The new designed assisting handle and vacuum release port let the freezer be operated single-handed to open and close the outer door;
- · The newly added file box makes recording easier and more convenient.
- ·The liner made from Galvanized steel sheet/ Stainless steel for medical use is low-temperature tolerant and corrosion-resistant, which has a long service life and is easy to clean;
- · The universal casters and leveling feet design are more convenient for movement and fixation.

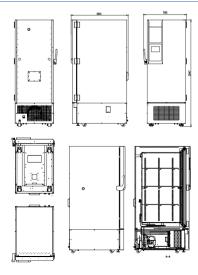
Scope of Application

Suitable for use in blood banks, hospitals, health and disease prevention systems, research institutions, colleges & universities, the electronic industry, biological engineering, laboratories in colleges & universities, military enterprises, deep-sea fishing companies, etc.

Performance Data / Cooling Curve



External Dimension



Cabinet Type Upright Capacity(L) 398 Internal Size(W*D*H)mm 440*696*1256 External Size(W*D*H)mm 890*1165*2158 NW/GW(Kgs) 247/324 Performance	-86°C Ultra-low Temperature Freezer	
Capacity(L) 398 Internal Size(W*D*H)mm	Model	DW-HL398HC
Internal Size(W*D*H)mm	Cabinet Type	Upright
Internal Size(W*D*H)mm		398
External Size(W*D*H)mm		440*696*1266
Package Size(W*D*H)mm 890*1165*2158 NW/(W(Kgs)) 247/324 Performance Temperature Range -40~86*C Ambient Temperature 16~32*C Cooling Performance Climate Class N Controller Microprocessor Display HD Intelligent Touch Screen Refrigeration Compressor 2pcs Cooling method Direct Cooling Defrost Mode Manual Refrigerant HC Insulation Thickness(mm)mm 130 Construction External Material Galvanized steel sheet Inner Material Galvanized steel sheet/Stainless steel Shelves 3(stainless steel) Door Lock with key Yes Paddock Yes Access test port 2pcs. Ø 25 mm Casters 4+(2 leveling feet) Data Logging/Interval/Recording Time Backup Battery Yes WIFI Yes Alarm Temperature High/Low temperature, High ambient temperature Electrical Power failure, Low battery System alarm, Door ajar Electrical Power Sailure, Main board communication error, Condenser overheating alarm, Door ajar Electrical Power Saladard Remote alarm contact, RS485 Standard Remote alarm contact, RS485	External Size(W*D*H)mm	785*1041*1947
NW/GW(Kgs) 247/324 Performance Temperature Range	Package Size(W*D*H)mm	890*1165*2158
Temperature Range	NW/GW(Kgs)	247/324
Ambient Temperature 16-32°C Cooling Performance -86°C Climate Class N Controller Microprocessor Display HD Intelligent Touch Screen Refrigeration Compressor 2pcs Cooling method Direct Cooling Defrost Mode Manual Refrigerant HC Insulation Thickness(mm)mm 130 Construction External Material Cold rolled steel sheet Inner Material Galvanized steel sheet/Stainless steel Shelves 3(stainless steel) Door Lock with key Yes Padlock Yes Access test port 2pcs. 025 mm Casters Access test port 2pcs. 025 mm Casters Backup Battery Yes WIFI Yes Alarm Temperature High/Low temperature, High ambient temperature Electrical Power Supply(VHz) Sensor failure, Main board communication error, Condenser overheating alarm, Door ajar Electrical Electrical Power Supply(VHz) 8.69 Accessories Standard Remote alarm contact, RS485	Performance	
Coling Performance Climate Class N Controller Microprocessor Display H Intelligent Touch Screen Refrigeration Compressor Cooling method Direct Cooling Defrost Mode Manual Refrigerant HC Insulation Thickness(mm)mm 130 Construction External Material Inner Material Shelves 3 (stainless steel) Door Lock with key Yes Padlock Access test port Casters 4+(2 leveling feet) Data Logging/Interval/Recording Time Backup Battery Yes WIFI Yes WIFI Yes Alarm Temperature Electrical Power Supply(V/HZ) Rated Remote alarm contact, RS485 N Refrigerat Power Supply(V/HZ) Rated Remote alarm contact, RS485 Remote alarm contact, RS485 Remote alarm contact, RS485 Remote alarm contact, RS485	Temperature Range	-40~-86°C
Climate Class Nicroprocessor Display Microprocessor Display HD Intelligent Touch Screen Refrigeration Compressor Cooling method Direct Cooling Defrost Mode Manual Refrigerant HC Insulation Thickness(mm)mm 130 Construction External Material Cold rolled steel sheet Inner Material Galvanized steel sheet/Stainless steel Shelves 3(stainless steel) Door Lock with key Yes Padlock Yes Padlock Yes Access test port 2pcs. Ø 25 mm Casters 4+(2 leveling feet) Data Logging/Interval/Recording Time USB/Record every 5 minutes / 10 years Backup Battery Yes WIFI Yes Walam Temperature High/Low temperature, High ambient temperature Electrical Power failure, Low battery System Sensor failure, Main board communication error, Condenser overheating alarm, Door ajar Electrical Power Supply(V/HZ) 220-240~/50 Rated Current(A) 8.69 Accessories Standard Remote alarm contact, RS485	Ambient Temperature	16~32°C
Climate Class Controller Microprocessor Display HD Intelligent Touch Screen Refrigeration Compressor Cooling method Direct Cooling Defrost Mode Manual Refrigerant HC Insulation Thickness(mm)mm 130 Construction External Material Cold rolled steel sheet Inner Material Shelves 3 (stainless steel) Door Lock with key Yes Access test port Casters 4+(2 leveling feet) Data Logging/Interval/Recording Time Backup Battery Yes WIFI Alarm Temperature Electrical Power Supply(V/HZ) Sensor failure,Main board communication error, Condenser overheating alarm,Door ajar Electrical Electrical Ferror Manual Refrigerant Microprocessor Apcs Ves Access over Sensor failure,Main board communication error, Condenser overheating alarm,Door ajar Electrical Standard Remote alarm contact, RS485	Cooling Performance	-86°C
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Standard Remote alarm contact, RS485		8.69
	Accessories	
	Standard	Remote alarm contact,RS485
	Options	Chart recorder, CO₂ backup system

^{*}The model, parameters and performance specified in this brochure may be changed without prior notice because of product upgrading.

*There may be differences between the product images shown in this brochure and the actual products. When you are buying any product, please check the actual product.