-86°C Ultra-low Temperature Freezer

Targeted Refrigeration • Fast Refrigeration
Energy-saving & Environmentally Friendly



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DW - HL398D

Excellent temperature uniformity
Direct cooling circulation technology with coil evaporator maintains a uniform temperature throughout the chamber.

Trusted SECOP brand compressor
SECOP compressor maintains a reliable -86°C ultra low temperature environment, that increases efficient sample storage.

Ease of maneuvering
Equipped with four heavy duty casters for ease of moving.

Vacuum insulation panels
Vacuum insulation panels allow for increased internal capacity with the same footprint as traditionally foamed freezers, as well as it ensures excellent temperature stability.

Energy-saving & Environmentally Friendly
HC Refrigerant.



High-precision Temperature Control

·Digital temperature display: displays inner temperature, power and voltage, ambient temperature and more at the same time.
·2 inches high-brightness digital temperature display， microprocessor-based temperature controller, -40°C~-86°C can be set freely.



Security System

·Audible and visible alarm system, multiple alarms including high temperature alarm, low temperature alarm, power failure alarm, low battery alarm, sensor failure alarm, door ajar alarm, high ambient temperature alarm, communication failure alarm, battery power detection failure alarm and condenser overheating alarm etc.;
·The compressor start delay and stopping interval protection can ensure reliable operation;



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.





Supplies for Cryopreservation

Freezer racks/boxes for cryopreservation are optional.



Data Storage

USB data storage function: can store relevant operating data, which can be downloaded and checked, ensuring improved security and reliability of sample storage.



Human-oriented

·6-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 6 sides of the cabinet are made from high-performance VIP vacuum insulation material, improving thermal insulation performance to a large extent;
·Ergonomic handle, smooth rotating handle track and high-precision pressure relief elastic valve make it easier to open and close the door.



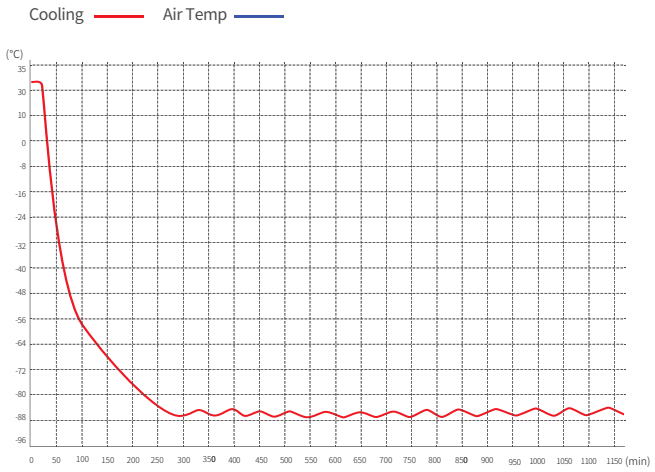
User-friendly ergonomic design

·The new designed assisting handle and vacuum release port let the freezer be operated single-handed to open and close the outer door;
·The liner made from 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

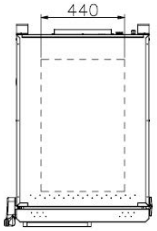
Suitable for use in blood banks, hospitals, health and disease prevention systems, research institutions, colleges & universities, the electronic industry, biological engineering, laboratories in colleges & universities, military enterprises, deep-sea fishing companies, etc.

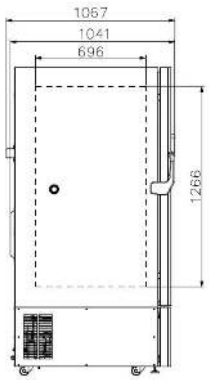
Performance Data / Cooling Curve



External Dimension







Specification Chart

-86°C Ultra-low Temperature Freezer	
Model	DW-HL398D
Cabinet Type	Upright
Capacity(L)	398
Internal Size(W*D*H)mm	440*696*1266
External Size(W*D*H)mm	785*1041*1947
NW/GW(Kg)	237/265
Performance	
Temperature Range	-40～-86°C
Ambient Temperature	16-32°C
Cooling Performance	-86°C
Climate Class	N
Controller	Microprocessor
Display	Digital display
Refrigeration	
Compressor	1pc
Cooling Method	Direct Cooling
Defrost Mode	Manual
Refrigerant	HC
Insulation Thickness(mm)	130
Construction	
External Material	Cold rolled steel sheet
Inner Material	Stainless steel
Shelves	3(stainless steel)
Door Lock with Key	Yes
Padlock	Yes
Access Port	2pcs. Ø 25 mm
Casters	4+(2 leveling feet)
Data Logging/Interval/Recording Time	USB/Record every 10 minutes / 2 years
Backup Battery	Yes
Alarm	
Temperature	High/Low temperature, High ambient temperature
Electrical	Power failure, Low battery
System	Sensor failure, Main board communication error, Condenser overheating , Door ajar
Electrical	
Power Supply(V/HZ)	220/50
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.