

DW - HL678HC

Targeted Refrigeration

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%.

Low 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.

Three-dimensional Thermal Insulation

The 6 sides of the cabinet are made from high-efficiency vip: Vacuum Insulation Panel, 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.

⊕ a Energy-saving & Environmentally Friendly

· Awarded with China Certificate for Energy Conservation Product, certificate numbers: CQC18702198401 (DW-HL678); · Awarded with China Certificate for Ecolabelling Products, certificate numbers: CQC18702198401 (DW-HL678).





7' LED Screen Control System

- The 7' LED touch screen has clear display, user-friendly interface and more accurate temperature control, which can indicate operating status clearly;
- 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.



Security System

- ·The perfect audible & visual alarm system: high and low temperature, sensor failure, power failure, low battery, door ajar, main board communication error, high ambient temperature etc;
- · The compressor start delay and stopping interval protection can ensure reliable operation
- · Both the touch screen controller and keyboard 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-HL678S/778S/858S/1008S with twincompressor, if one is damaged, the other one could keep the temperture at -70°C stably.
- · Standard with VIP board for high efficiency cooling performance. Door with hot gas pipe surrounding for defrost



Supplies for Cryopreservation

Freezer racks/boxes for cryopreservation are optional.



Alarm Upgrading

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





Thermal Insulation System

- · 2-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 highperformance VIP vacuum insulation material, improving thermal insulation performance to a large extent.



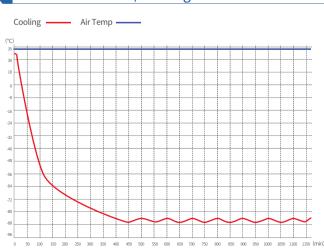
Human-oriented

- · The new designed assisting handle and vaccum 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 High quality galvanized steel sheet 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.

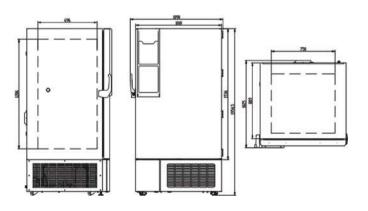
Scope of Application

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



-86°C Ultra-low Temperature Freezer	
1odel	DW-HL678HC
abinet Type	Upright
apacity(L)	678
nternal Size(W*D*H)mm	750*696*1286
xternal Size(W*D*H)mm	1090*1025*1965
ackage Size(W*D*H)mm	1203*1155*2171
IW/GW(Kgs)	330/435
erformance	
emperature Range	-40∼-86°C
mbient Temperature	16-32°C
cooling Performance	-86°C
limate Class	N
ontroller	Microprocessor
isplay	Touch screen
efrigeration	
ompressor	2pcs
cooling Method	Direct Cooling
efrost Mode	Manual
efrigerant	HC
nsulation Thickness(mm)	130
onstruction	
xternal Material	High quality steel plates with spraying
nner Material	Galvanized steel sheet
helves	3(stainless steel)
oor Lock with Key	Yes
xternal Lock	Yes
ccess Port	3pcs. Ø 25 mm
asters	4+(2 leveling feet)
ata Logging/Interval/Recording Time	USB/Record every 1 minute / 365 days
	Yes
lackup Battery larm	
emperature	High/Low temperature, High ambient temperature
lectrical	Power failure
.ccc.rcut	
ystem	Sensor failure, Main board communication error, Built-in datalogger USB failure, Condenser overheating alarm, Door ajar, System failure
lectrical	
ower Supply(V/HZ)	220-230~/50
eated Power(W)	1680
ower Consumption(KWh/24h)	10.7
rated Current(A)	9.62
ccessory	
tandard	Remote alarm contact

^{*}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.