-86°C Ultra-low Temperature Freezer

Targeted Refrigeration • Fast RefrigerationEnergy-saving & Environmentally FriendlyAwarded with the Second Prize under StateTechnological Invention Award



DW-HL100

Precise Temperature Control and Safe Storage

Microprocessor-based temperature controller, -40°C~-86°C can be set freely with display accuracy at 0.1°C.

🔍 Visual & Audio Alarm system

High/low temperature alarm, power failure alarm, low battery alarm, door ajar alarm, high ambient temperature alarm, communication failure alarm etc.

& Human-oriented

The rotating handle facilitates door opening; The two-door design including the inner door and the outer door can lock cool air inside the cabinet and ensure thermal insulation for along period.

🐨 🖉 Energy-saving & Environmentally Friendly

Awarded with China Certificate for Energy Conservation Product, certificate numbers: CQC18702198375; Awarded with China Certificate for Ecolabelling Products, certificate numbers: CQC18702198376.



-850

High-precision Temperature Control

· Digital temperature display, simultaneously display the chamber temperature, power supply voltage, ambient temperature and other parameters etc. The running status is clearly displayed;

The high-precision microcomputer temperature control system and platinum resistor temperature sensors enable users to set temperature inside the cabinet within a range from -40°C to -86°C.



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; 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.



Thermal Insulation System

· The insulated foamed outer door with seal design prevents loss of cooling capacity effectively; • The six sides of the cabinet are made from high performance vacuum insulation material, greatly improving thermal insulation performance.



Security System

- · The perfect audible & visual alarm system: high/low temperature, sensor failure, door ajar, power failure, low battery etc.;
- The turn-on delay and stopping interval protection can ensure reliable operation;
- The keyboard lock and password protection can prevent any adjustment of operation without permission;



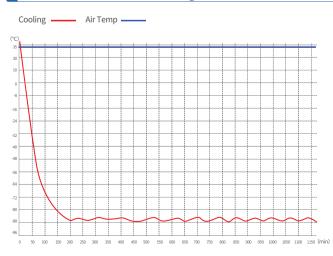
Human-oriented

- · The door with new-type assisting door handle to be opened easily;
- · Door handle with lock for safety operation;
- · 304 Stainless steel interior, low temperature
- resistance anti-corrosion for long service life and easy cleaning;
- · Universal wheels easy for movement and fixation.

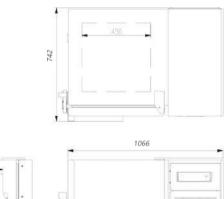
Scope of Application

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



ビ External Dimension







Specification Chart

-86°C Ultra-low Temperature Freeze	er
Model	DW-HL100
Cabinet Type	Upright
Capacity(L)	100
Internal Size(W*D*H)mm	450*450*514
External Size(W*D*H)mm	1066*742*820
Package Size(W*D*H)mm	1230*833*991(Packed in ordinary buckle cases)
NW/GW(Kgs)	145/189
Performance	
Temperature Range	-40~-86°C
Ambient Temperature	16-32°C
Cooling Performance	-86 °C
Climate Class	Ν
Controller	Microprocessor
Display	Digital display
Refrigeration	
Compressor	1pc
Cooling Method	Direct cooling
Defrost Mode	Manual
Refrigerant	НС
Insulation Thickness(mm)	L:90,R:115
Construction	
External Material	High quality steel plates with spraying
Inner Material	Stainless steel
Shelves	1(stainless steel)
Door Lock with Key	Yes
Padlock	Yes
Access Port	1pc. Ø 25 mm
Casters	4
Data Logging/Interval/Recording Time	USB/Record every 10 minutes / 12 months
Backup Battery	Yes
Alarm	
Temperature	High/Low temperature,High ambient temperature
Electrical	Power failure , Low battery
System	Sensor failure, Condenser overheating alarm,Door ajar, Built-in USB datalogger failure, Communication error
Electrical	
Power Supply(V/HZ)	220-240~/50
Power(W)	761
Power Consumption(KWh/24h)	8.66
Rated Current(A)	5.57
Accessories	
Standard	RS485, Remote alarm contact
Options	Chart recorder, CO ₂ backup system, Printer
options	chartrecorder, coz backap system, rinner

*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.

