

# **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.

## Nisual & 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



### **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 betwee 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 cryoprese-





#### Thermal Insulation System

- ·The two-layer insulated foamed door with double seal and the outdoor insulation design with multiple patents can prevent loss of cooling capacity effectively;
- · The six sides of the cabinet are made from highperformance 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;



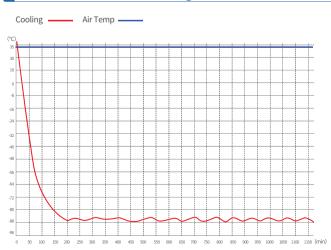
#### **Human-oriented**

- · 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 andeasy cleaning;
- · Universal wheels easy for movement and fixation.

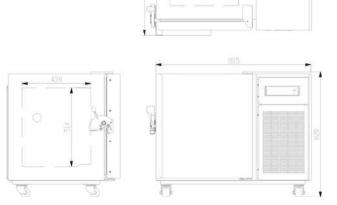
## Scope of Application

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







-86°C Ultra-low Temperature Freezer	
	DW-HL100
Model Cobinet Type	
Cabinet Type	Upright
Capacity(L)	100
Internal Size(W*D*H)mm	450*439*514
External Size(W*D*H)mm	1066*742*820
Package Size(W*D*H)mm	1200*863*991
NW/GW(Kgs)	145/227(wood packing)
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	Mixture gas
Insulation Thickness(mm)	90, R:115
Construction	
External Material	Steel plates with spraying
Inner Material	304 Stainless steel
Shelves	1(stainless steel)
Door Lock with Key	Yes
External Lock	Yes
Access Port	1pc. Ø 25 mm
Casters	4
Data Logging/Interval/Recording Time	USB/Record every 10 minute / 2 years
Backup Battery	Yes
Backup Battery Alarm	Yes
Alarm	Yes  High/Low temperature, High ambient temperature
Alarm Temperature	High/Low temperature, High ambient temperature
Alarm	High/Low temperature, High ambient temperature Power failure, Low battery
Alarm Temperature	High/Low temperature, High ambient temperature
Alarm Temperature Electrical System	High/Low temperature, High ambient temperature  Power failure , Low battery  Sensor failure, Condenser overheating alarm, Door ajar, built-in datalogger USB
Alarm Temperature Electrical System Electrical	High/Low temperature, High ambient temperature  Power failure, Low battery  Sensor failure, Condenser overheating alarm, Door ajar, built-in datalogger USB failure, Main board communication error
Alarm Temperature Electrical System Electrical Power Supply(V/HZ)	High/Low temperature, High ambient temperature  Power failure, Low battery  Sensor failure, Condenser overheating alarm, Door ajar, built-in datalogger USB failure, Main board communication error
Alarm Temperature Electrical System Electrical Power Supply(V/HZ) Rated Current(A)	High/Low temperature, High ambient temperature  Power failure, Low battery  Sensor failure, Condenser overheating alarm, Door ajar, built-in datalogger USB failure, Main board communication error
Alarm Temperature Electrical System Electrical Power Supply(V/HZ) Rated Current(A) Accessory	High/Low temperature, High ambient temperature  Power failure, Low battery  Sensor failure, Condenser overheating alarm, Door ajar, built-in datalogger USB failure, Main board communication error  220-240~/50  4.75
Alarm Temperature Electrical System Electrical Power Supply(V/HZ) Rated Current(A)	High/Low temperature, High ambient temperature  Power failure, Low battery  Sensor failure, Condenser overheating alarm, Door ajar, built-in datalogger USB failure, Main board communication error

 $<sup>^{\</sup>star} \text{The model, parameters and performance specified in this brochure may be changed without prior notice because of product upgrading.} \\$ 



<sup>\*</sup>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.