-86°C Ultra-low Temperature Freezer

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



DW-HL100HC

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

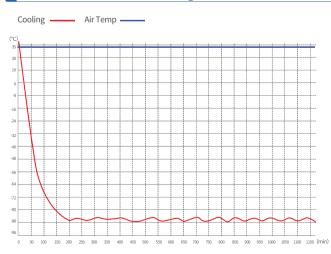
· The door with new-type assisting door handle to be opened easily;

- · 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.

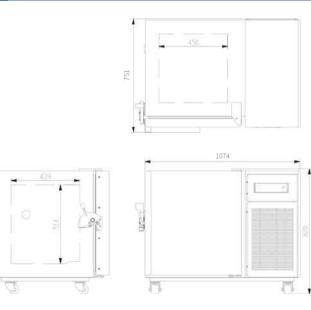
Scope of Application

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 | r |
|--------------------------------------|--|
| Model | DW-HL100HC |
| 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) | 145/189 |
| 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 |
| External Lock | Yes |
| Access Port | 1pc. Ø 25 mm |
| Casters | 4 |
| 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, Condenser overheating alarm,Door ajar, Built-in datalogger USB 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 |
| - | |

*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.

