

# -86°C Ultra-low Temperature Freezer

*Targeted Refrigeration • Fast Refrigeration  
Energy-saving & Environmentally Friendly  
Awarded with the Second Prize under State  
Technological Invention Award*



## DW-HL340

### High-precision Temperature Control & Safe Storage

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

### Well-developed Audible & Visual Alarm System

Multiple alarm functions, such as high temperature/low temperature alarm, door opening alarm, power outage alarm, abnormal voltage alarm, sensor failure alarm, low battery alarm, alarm of poor heat dissipation of condenser and system failure alarm, can improve safety of storage.

### 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 a long period.



### High-precision Temperature Control

- Digital temperature display; display 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.



### 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  $\leq 2\text{mm}$ , providing a effective heat dissipation.



### Supplies for Cryopreservation

Inventory racks/boxes for cryopreservation are optional.



### 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 high-performance vacuum insulation material, greatly improving thermal insulation performance.



### Security System

- The perfect audible & visual alarm system: high/low temperature, sensor failure, door open, power failure 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;



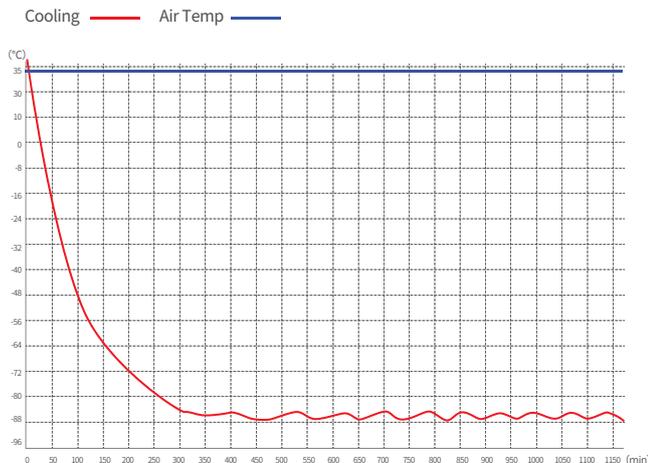
### Human-oriented

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

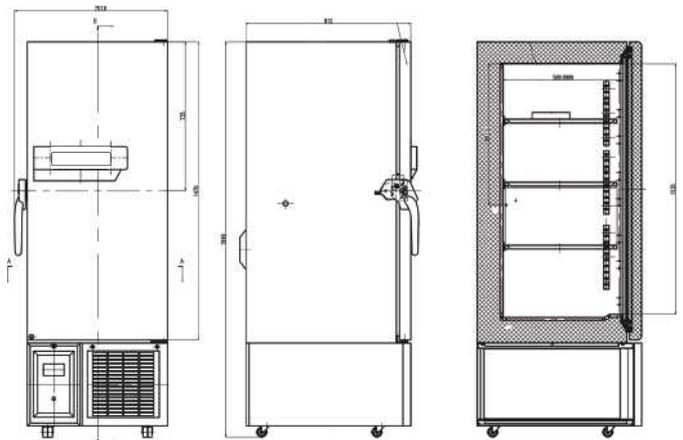
## Scope of Application

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



## Eternal Dimension



## Specification Chart

| <b>-86°C Ultra-low Temperature Freezer</b> |  |
|--|--|
| Model                                      | DW-HL340   |
| Cabinet Type                               | Upright  |
| Capacity(L)                                | 340  |
| Internal Size(W*D*H)mm                     | 470*578*1250   |
| External Size(W*D*H)mm                     | 755*895*1982   |
| Package Size(W*D*H)mm                      | 847*955*2130   |
| NW/GW(Kgs)                                 | 208/227  |
| <b>Performance</b>                         |  |
| Temperature Range                          | -40~-86°C  |
| Ambient Temperature                        | 16-32°C  |
| Cooling Performance                        | -86°C  |
| Climate Class                              | N  |
| Controller                                 | Microprocessor   |
| Display                                    | Digital display  |
| <b>Refrigeration</b>                       |  |
| Compressor                                 | 1pc  |
| Cooling Method                             | Direct cooling   |
| Defrost Mode                               | Manual   |
| Refrigerant                                | Mixture gas  |
| Insulation Thickness(mm)                   | 110  |
| <b>Construction</b>                        |  |
| External Material                          | Steel plates with spraying   |
| Inner Material                             | Galvanized steel sheet   |
| Shelves                                    | 3 (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  |
| <b>Alarm</b>                               |  |
| Temperature                                | High/Low temperature,High ambient temperature  |
| Electrical                                 | Power failure , Low battery  |
| System                                     | Sensor error,Main board communication error ,System failure, Condenser cooling failure,Door ajar,Samples out of date |
| <b>Electrical</b>                          |  |
| Power Supply(V/HZ)                         | 230±10%/50   |
| Rated Power(W)                             | 922  |
| Input Power(W)                             | 1300   |
| Power Consumption(KWh/24h)                 | 11.6   |
| Rated Current(A)                           | 5.32   |
| <b>Options Accessory</b>                   |  |
| System                                     | Chart recorder, CO2 backup system, Printer,RS485,RS232,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.