-86°C Ultra-low Temperature Freezer

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

MELING BIOMEDICAL

-86°C FREEZER

DW-HL100

CE

🌡 **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.

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.
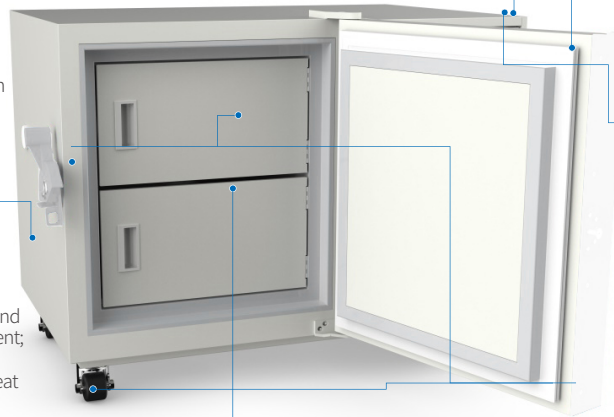
Refrigeration System

· 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;

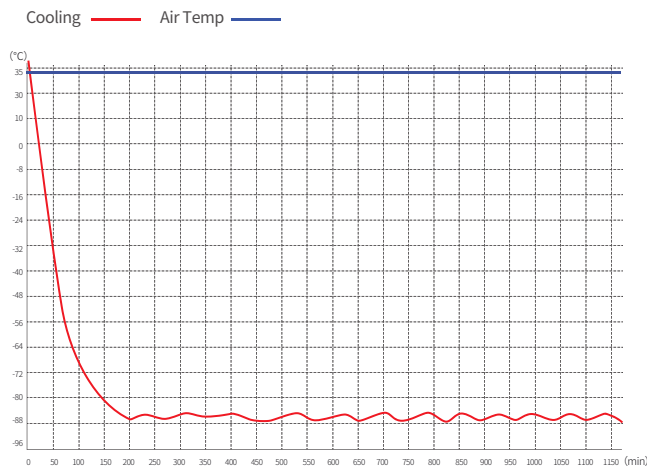· The keyboard lock and password protection can prevent any adjustment of operation without permission.

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 andeasy cleaning;

· Universal wheels easy for movement and fixation.
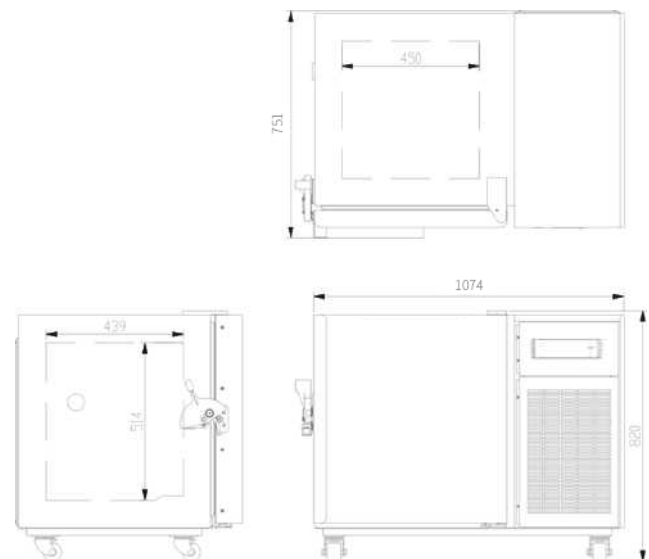
✓ Scope of Application

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

Cooling —— Air Temp ——

⌁ External Dimension

🔧 Specification Chart

-86°C Ultra-low Temperature Freezer

Model	DW-HL100
Cabinet Type	Upright
Capacity(L)	100
Internal Size(W*D*H)mm	450*439*514
External Size(W*D*H)mm	1074*751*820
Package Size(W*D*H)mm	1200*863*991
NW/GW(Kgs)	145/N
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	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 minute / 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
Rated Current(A)	4.75
Accessories	
Standard	RS485,Remote alarm contact
Options	Chart recorder, CO2 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.