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Ultra Low Temperature Deep Freezer

TI- HL- 218 HC - CE

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◑ Features

Precise Temperature Control and Safe Storage
Microprocessor-based temperature controller, -40℃~-86℃ can be set freely with display accuracy at 0.1℃.

Visual & Audio Alarm system
Multiple alarm functions, such as high temperature/low temperature alarm, door
ajar alarm, power failure alarm, sensor failure alarm, low battery alarm etc, 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 along period.

◑ Scope of Application

Suitable for use in blood banks, hospitals, health and diseasep revention systems, research institutions, colleges & universities, the
electronic industry, biological engineering, laboratories in colleges & universities, military enterprises, deep-sea fishing companies, etc.

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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.

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.
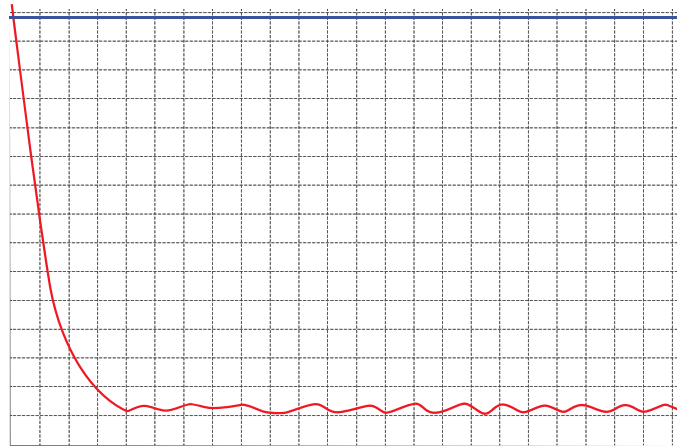
Security System

· 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;

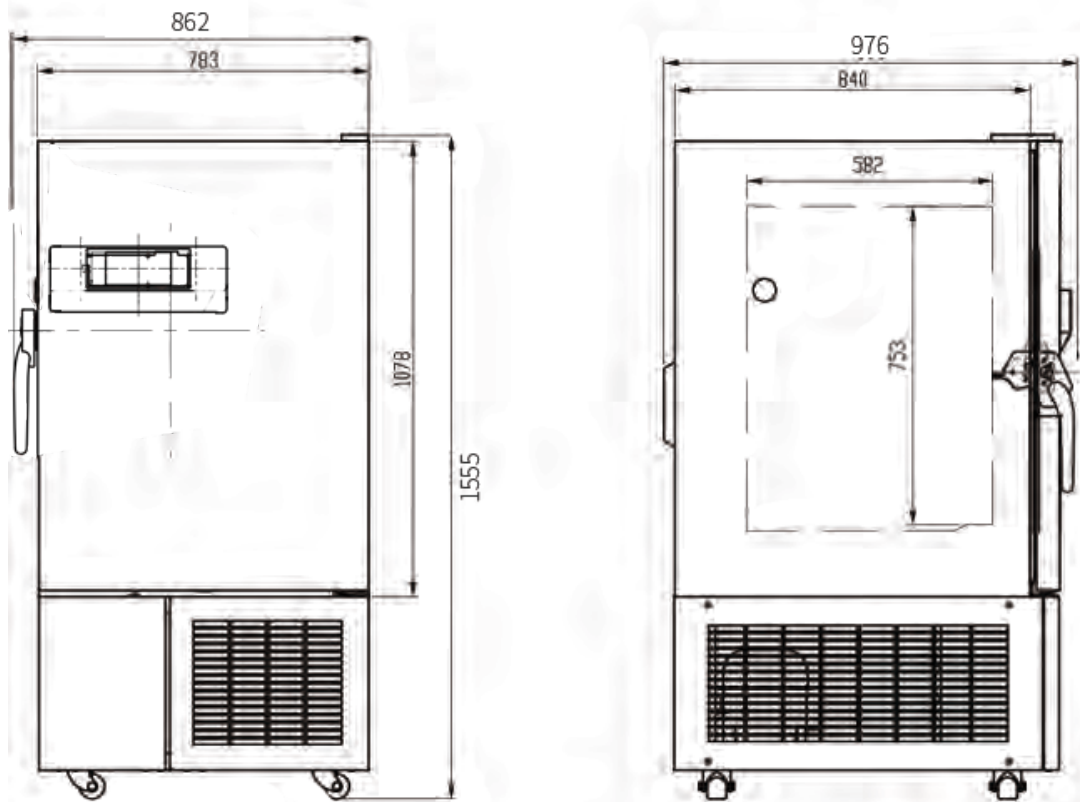· The keyboard lock and password protection can prevent any adjustment of operation without permission.

Human-oriented

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

· Door handle with lock for safety operation;

· SUS304 interior, low temperature resistance anti-corrosion for long service life and easy cleaning;

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Performance Data / Cooling Curve

External Dimension

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● Specifications

-86°C Ultra-low Temperature Freezer	
Model	**TI- HL- 218 HC - CE**
Cabinet Type	Upright
Capacity(L)	218
Internal Size(W*D*H)mm	470*582*768
External Size(W*D*H)mm	862*976*1555
Package Size(W*D*H)mm	983*1073*1741
NW/GW(Kgs)	218/255
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	HC
Insulation Thickness(mm)	155
Construction	
External Material	High quality steel pl ates with spraying
Inner Material	Stainless steel
Shelves	1(stainless steel)
Door Lock with Key	Yes
Padlock	Yes
Access Port	1pc. Ø 40 mm
Casters	4
Data Logging/Interval/Recording Time	USB/Record every 10 minutes / 2 years
Backup Battery	Yes
Alarm	
··· ····· ············	High/Low temperature,High ambient temperature
· ·· ····· · ············	Power failure , Low battery
····· · ····· · ·	Sensor failure, Condenser overheating ,Door ajar,Built-in USB datalo failure, Communication error
Electrical	
Power Supply(V/HZ)	220-240~/50
Power(W)	990
Power Consumption(KWh/24h)	8.32
Rated Current(A)	6.53
Accessories	
Standard	RS485,Remote alarm contact
Options	Chart recorder, CO_2 backup system, Printer