

-86°C Ultra-low Temperature Freezer

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



BL-UL340

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 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 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 effective heat dissipation.



Supplies for Cryopreservation

Freezer 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 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;



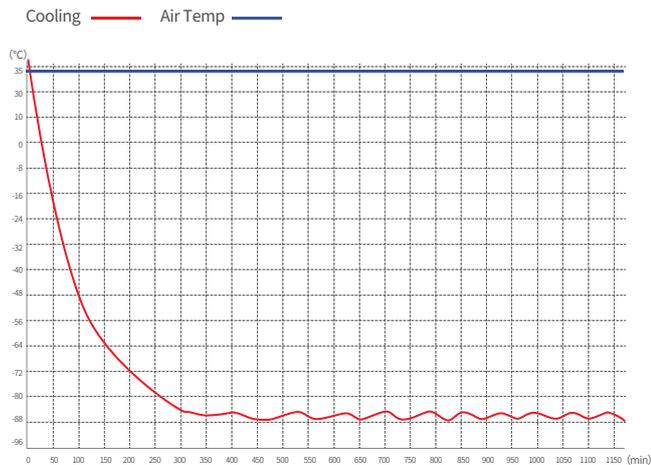
Human-oriented

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

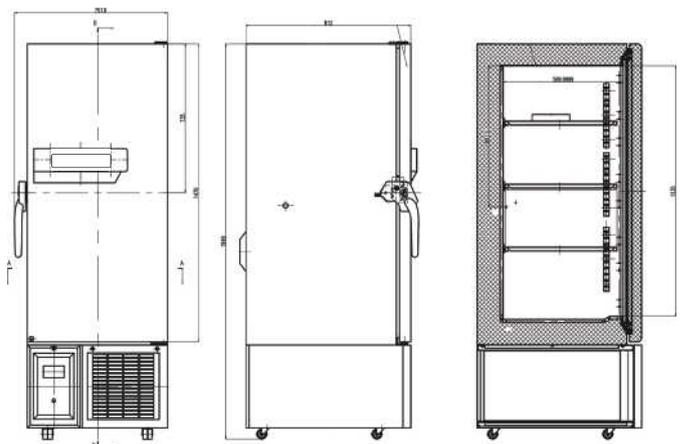
Scope of Application

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



External Dimension



Specification Chart

-86°C Ultra-low Temperature Freezer	
Model	BL-UL340
Cabinet Type	Upright
Capacity(L)	340
Internal Size(W*D*H)mm	470*578*1250
External Size(W*D*H)mm	777*873*1967
Package Size(W*D*H)mm	895*1003*2186
NW/GW(Kgs)	208/277
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)	110
Construction	
External Material	Steel plates with spraying
Inner Material	304 Stainless steel
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
Alarm	
Temperature	High/Low temperature,High ambient temperature
Electrical	Power failure , Low battery
System	Sensor failure, Condenser overheating ,Door ajar,Built-in datalogger USB failure, Main board communication error
Electrical	
Power Supply(V/HZ)	220-240~/50
Rated Current(A)	5.32
Accessory	
Standard	RS485,Remote alarm contact
Options	Chart recorder, CO2 backup system, Printer,RS232