

-40°C Ultra-low Temperature Freezer

Targeted Refrigeration • Fast Refrigeration
Energy-saving & Environmentally Friendly



BL-FL778

Refrigeration System

- Freon-free refrigerant, compressor supplied by an international famous brand and EBM fan can guarantee fast cooling and are energy-saving and environmentally friendly;
- Refrigerating circuit with proprietary intellectual property rights ensures high efficiency and stability;
- Two-layer heat insulating foamed door and the insulation design of the outer door system with multiple patents can prevent loss of refrigerating capacity in an effective way;

Temperature Control System

High-precision microcomputer temperature control system and platinum resistor temperature sensors ensure more precise temperature control.

People-oriented Design

High-quality steel plate structure with phosphate coating, Galvanized steel liner and low noise design can create a comfortable environment.



High-precision Temperature Control

- The digital temperature display can show various parameters simultaneously, such as temperature inside the cabinet, power voltage and environmental temperature, indicating operating status clearly;
- The high-precision microcomputer temperature control system and platinum resistor temperature sensors enable users to set temperature inside the cabinet within a range from -20°C to -40°C.



Refrigeration System

- EBM fan are powerful, energy-saving and highly efficient;
- The large-area finned condenser is characterized by a space equal to or less than 2mm between fins, providing a large area for heat dissipation and satisfactory performance.



Human-oriented

- Door handle with lock for safety operation;
- The adjustable layered structure is convenient for storage of various things;
- The liner made from high quality galvanized steel sheet for medical use is low-temperature tolerant and corrosion-resistant, which has a long service life and is easy to clean.



Thermal Insulation System

- The two-layer heat insulating foamed door with airbag-typed outer seal and the insulation design of the outer door system with multiple patents can prevent loss of refrigerating capacity in an effective way;



Security System

- High/low temperature alarm, power failure alarm, door ajar alarm, system failure, main board communication error, high ambient temperature, Condenser overheating alarm etc.
- Startup delay and stop interval protection function to ensure reliable operation;
- Keyboard lock and password protection function to prevent arbitrary adjustment of operating parameters;
- Safety door lock design, ensure sample storage is more secure.



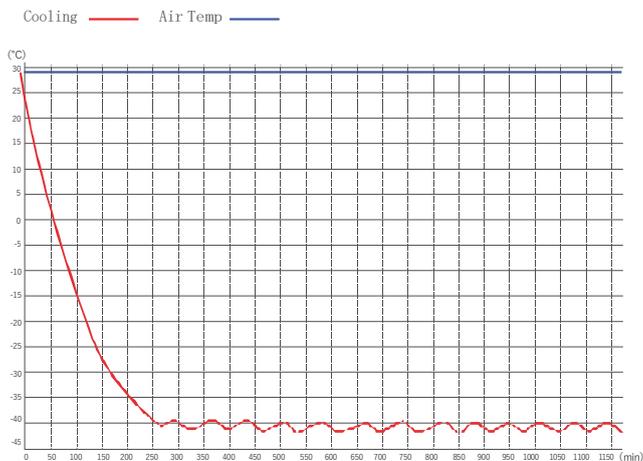
Chart Recorder (optional)

- Equipped with a printer;
- The filtering screen is removable and easy to clean.

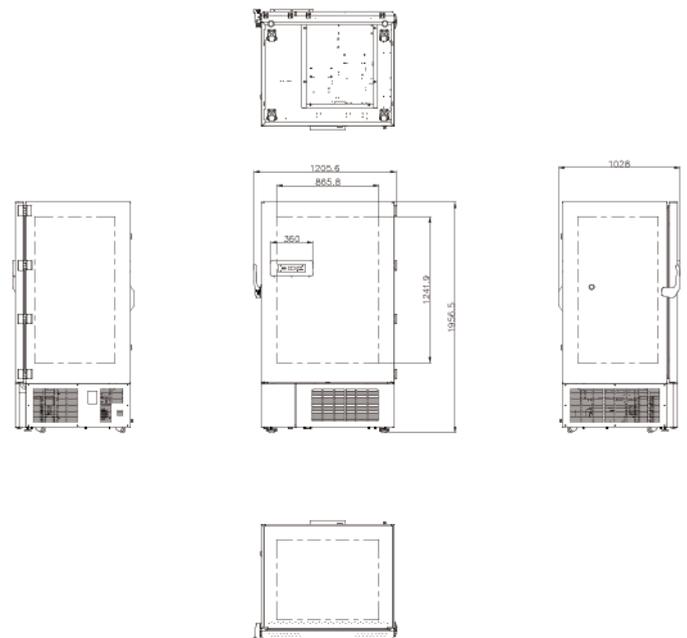
✓ Scope of Application

Suitable for use in scientific research, cryogenic test on special materials, blood plasma cryopreservation, low temperature resistance test on biological materials, vaccines, biological products and military products, etc. Suitable for use in research institutions, the electronic industry, the chemical industry, hospitals, the health & disease prevention system, laboratories in colleges & universities, military enterprises, etc.

🔗 Performance Data / Cooling Curve



📏 External Dimension



Specification Chart

-40°C Ultra-low Temperature Freezer	
Model	BL-FL778
Cabinet Type	Upright
Capacity(L)	778
Internal Size(W*D*H)mm	865*696*1286
External Size(W*D*H)mm	1205*1025*1955
Package Size(W*D*H)mm	1320*1155*2171
NW/GW(Kgs)	286/328
Performance	
Temperature Range	-20~-40°C
Ambient Temperature	16-32°C
Cooling Performance	-40°C
Climate Class	N
Controller	Microprocessor
Display	Digital display
Refrigeration	
Compressor	2pcs
Cooling Method	Direct cooling
Defrost Mode	Manual
Refrigerant	R290
Insulation Thickness(mm)	130
Construction	
External Material	High Quality Steel plates with spraying
Inner Material	Galvanized steel sheet
Shelves	3(stainless steel)
Door Lock with Key	Yes
External Lock	Yes
Access Port	3pcs. Ø 25 mm
Casters	4+(2 leveling feet)
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
System	Sensor error, Condenser cooling failure, Door ajar, System failure, Main board communication error, Built-in datalogger USB failure
Electrical	
Power Supply(V/HZ)	220-240V~/50
Rated Current(A)	8.47
Accessory	
Standard	RS485, Remote alarm contact
Optional	RS232, Printer, Chart recorder