

-164°C Cryogenic Freezer

*Extremely low temperature makes the company
atop all others in the same industry*



BL-CF128



Targeted Refrigeration

Unique, high-efficient and recycling cooling system, a winner of the top second-class national prize in technological invention.



Extremely low temperature

With the company becomes the superior leader in the same industry that can produce the lowest temperature to -164°C and can mass produce the products.



Three-dimensional Thermal Insulation

The VIP vacuum thermal insulation plate can lock cool air inside the cabinet and guarantee thermal insulation effect.



Refrigeration System

The single-pole lubrication compressor refrigeration technology has improved refrigeration capacity;

International famous brand compressor, enabling fast refrigeration.





Dual-core targeted refrigeration

- Double-core targeted refrigeration, rapid refrigeration, energy saving and environmental protection;
- Second prize of national science and technology invention;
- Temperature set point can be adjusted from -120°C to -164°C through the precise controller.



Refrigeration System

- Environmental protective refrigerant invented by Chinese academy of sciences(CAS);
- Unique refrigeration circuit design with china patent;
- Refrigeration technology of single-stage oil slide compressor, powerful cooling ability;
- Famous international compressor, efficiency cooling with eco-refrigerant;
- Imported famous brand fan motor with premium quality.



Optional Cryo Accessories

- Optional single type upright racks;
- Optional alarm lamp, voltage compensation, remote alarm and liquid N2 backup system.



Security System

- The well-developed security system with multiple audible & visual alarm functions: high/ low temperature alarm, power failure alarm, sensor failure alarm, low battery alarm, condenser heat dissipation alarm, system failure alarm. To ensure the sample safety storage;
- The turn-on delay and stopping interval protection can ensure reliable compressor operation;
- The keyboard lock and password protection can prevent any adjustment of operating parameters without permission.



Thermal Insulation System

- Unique two times foaming technology, super thick VIP insulation which greatly improves the insulation effect;
- VIP vacuum insulation board, tightly locks the cold air to ensure the great insulation effect.



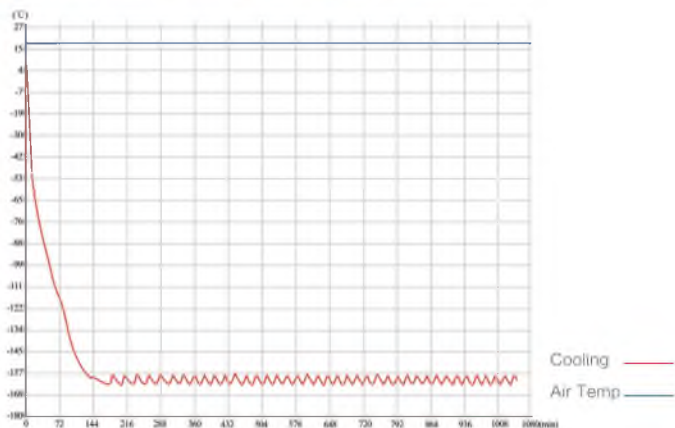
Human-oriented

- Horizontal type with lid to be opened from the top, assisting balanced hinges to open it easily;
- Casters can be fixed for easy movement and fixation;
- Standard with printer to record the temperature data every 20 minutes. Optional with chart recorder, alarm lamp, voltage compensation, remote communication centralized monitoring system.

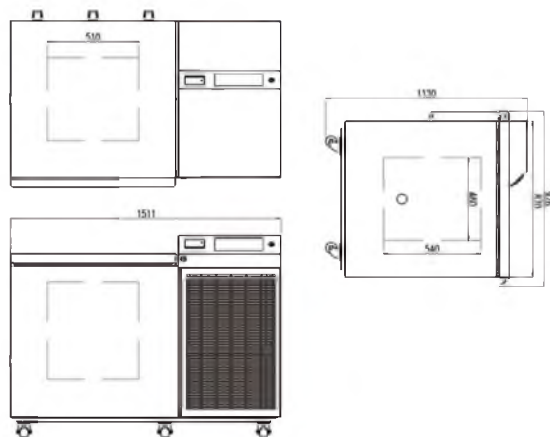
Scope of Application

Application to scientific research, low temperature test of special materials, freeze red blood cell, white blood cell, skins, DNA/RNA, bones, bacteria, sperm and biological products etc. Suitable for use in blood bank station, hospitals, sanitation and anti-epidemic stations, biological engineering, laboratories in colleges & universities, military enterprises and so on.

Performance Data / Cooling Curve



External Dimensions



Product Name	-164°C Cryogenic Freezer
Cabinet Type	Chest
Capacity(L)	128
Temp. Range(°C)	-120 ~ -164
Ambient Temperature(°C)	16-32
Cooling Performance(°C)	-164
Refrigerant	Mixture gas
Cooling	Direct cooling
Display	Digital display
Climate Class	N
Internal Size(WDH)mm	510*460*540
External Size(WDH)mm	1510*985*1120
Package Size(WDH)mm	1610*1030*1308
NW/GW(Kgs)	380/459
Alarm System	High/low temperature, Power failure, High/low voltage, Sensor failure, Low battery, Condenser heat dissipation, System failure
Insulation Thickness(mm)	205
Rated Voltage(V)	380
Rated frequency(Hz)	50
Rated Power(W)	8200
Input Power(W)	8200
Current Consumption(KWh/24h)	84
Rated Current(A)	27.8
External Material	Steel plates with spraying
Inner Material	Stainless steel
Compressor	2pc
Door Lock With Key	Y
Universal Casters	6pc
Access Test Port	1pc
Optional	Icon recorder, CO2 backup system