

-164°C Cryogenic Freezer

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



DW-ZW128



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 DW-ZW128, 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.



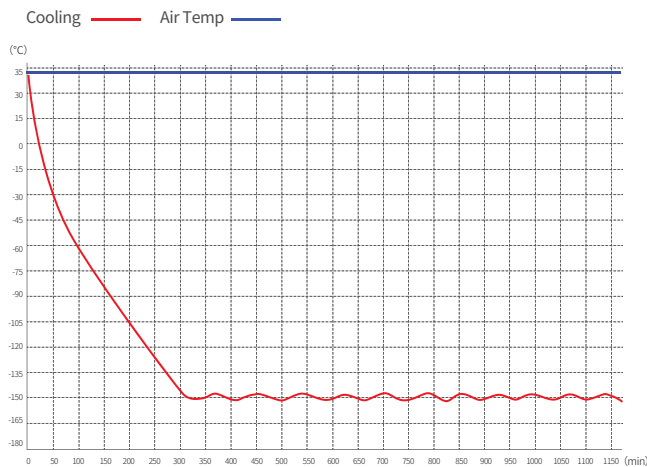
Human-oriented

- 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.

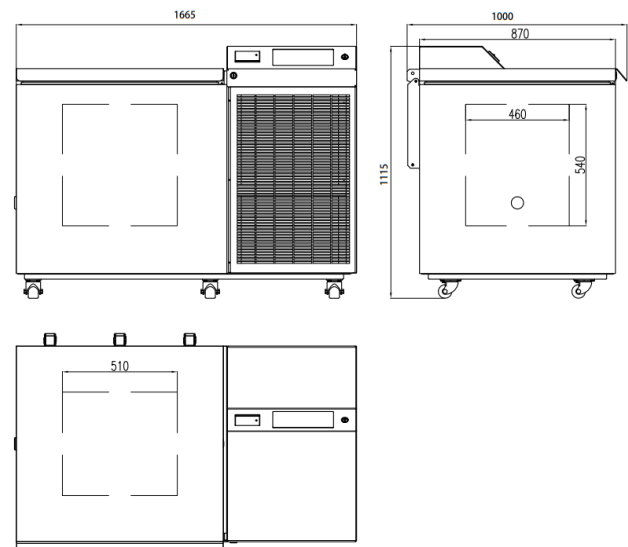
✓ Scope of Application

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



Specification Chart

- 164°C Cryogenic Freezer	
Model	DW-ZW128
Cabinet Type	Chest
Capacity(L)	128
Internal Size(W*D*H)mm	510*460*540
External Size(W*D*H)mm	1665*1000*1115
Package Size(W*D*H)mm	1815*1085*1304
NW/GW(Kgs)	380/445
Performance	
Temperature Range	-120~-164°C
Ambient Temperature	16-32°C
Cooling Performance	-164°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)	205
Construction	
External Material	High quality steel plates with spraying
Inner Material	304 Stainless steel
Foaming Lid	2
Backup Battery	Yes
Access Port	1pcs. Ø 40 mm
Casters	6
Data Logging/Interval/Recording Time	Printer/Record every 20 minutes / 7 days
Alarm	
Temperature	High/Low temperature, High ambient temperature
Electrical	Power failure , Low battery
System	Sensor error, System failure, Communication failure, Condenser overheating
Electrical	
Power Supply(V/HZ)	380/50-60
Options Accessory	
System	Chart recorder, CO2 backup system

*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.