-164°C/-150°C Cryogenic Freezer

New Upgraded World' s Coldest Freezer

DW-UW128

- Targeted Refrigeration
- Low Temperature Limit
- Innovator in Refrigeration Industry
- National Awards

Structure Design

· The external material is cold rolled steel plate , and the internal material is stainless steel. Both are corrosion resistant and easy to clean;
· There is an Φ 40mm access port on the left side of the freezer, convenient to monitor /test/ back-up equipment;
· The freezer adopts 102.5mm foam outer door, with 3 thermal insulation boards on the top, which effectively prevents the loss of cold air and has good thermal insulation performance;
· The freezer is equipped with a door lock to prevent unauthorized opening and provide safe storage space for samples;
· The freezer is equipped with 6 universal wheels for easy movement.

Control system

· The microprocessor controller can display temperature in 0.1°C increments;
· The cabinet is equipped with a high-sensitivity temperature sensor to ensure constant internal temperature;
· The freezer is equipped with audible and visible alarm system (high temperature alarm, low temperature alarm, sensor failure alarm, power failure alarm, low battery alarm, communication failure alarm, high ambient temperature alarm, condenser high temperature alarm) to make its storage safer.

Refrigeration system

· The freezer uses industrial compressor, which has fast refrigeration speed and good stability;
· CFC-free refrigerant, environmental protection and low pollution.

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.

Model	Volume (L)	Temperature(°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Power Supply (V/HZ)	Freezer Rack (Model & Quantity)	Net Weight (Kg)
DW-UW128	128	-110~-150	1665*985*1120	490*470*585	380/50	ZKW304-9-2 : 9	338
DW-ZW128	128	-120~-164	1665*985*1120	510*460*540	380/50	ZKW304-9-2 : 9	380

-86°C Ultra-low Temperature Freezer

Dual Cooling System

DW-HL780

Two High-efficiency Refrigeration Systems

Two high-efficiency refrigeration systems work independently, if one system fails, the other can still maintain the temperature at -75°C, safe and reliable.

Frequency Conversion Technology

Frequency conversion technology is adopted to control the compressor speed in real time by adjusting the output frequency to ensure more balanced temperature, thus effectively saving energy.

Applicable to Various Power Supply Environments

It can work normally under various power supply environments such as 110V60Hz, 220V50Hz, 220V60Hz, etc.

Stable Internal Temperature

Standard SECOP compressors maintain a stable -86°C ultra low temperature environment, that increases efficient sample storage.

Extreme Labor-saving

Ergonomic handle, smooth track and high-precision pressure relief valve make it easier to open and close the door.

Human-oriented

·3 division plates are equipped inside to divide the storage area into 4 layers for convenient sample placement; 2 internal doors are also equipped to reduce frosting caused by door opening;
·Stainless steel (SUS304) as the internal material, is durable and easy-to-clean;
·Equipped with 4 heavy casters and 2 leveling feet for easy movement and fixation of the equipment.

Cascade Cooling System

DW-HL528S

Two-stage Cascade & Variable Frequency Drive Refrigeration

· High efficiency frequency conversion compressors enable the operating power to be automatically adjusted according to the heat load,making the equipment energy saving.

Applicable to Various Power Supply Environments

It can work normally under various power supply environments such as 110V60Hz, 220V50Hz, 220V60Hz, etc.

Stable Internal Temperature

Standard SECOP compressors maintain a stable -86°C ultra low temperature environment, that increase efficient sample storage.

Excellent Thermal Insulation Performance

The design of foam inner doors, built-in vacuum insulation board and triple independent silicone sealing strip design make the insulation performance excellent.

Human-oriented

·Ergonomic handle, smooth track and high recision pressure relief valve make it easier to open and close the door;
·3 division plates are equipped inside todivide the storage area into 4 layers for convenient sample placement;2internaldoorsare also equipped to reduce frosting caused by door opening;
·Stainless steel (SUS304) as the internal material, is durable and easy-to-clean;
·Equipped with 4 heavy casters and 2 leveling feetfor easy movement and fixation of the equipment.

Model	Volume (L)	Temperature(°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Net Weight (Kg)
DW-HL780	780	-40~-86	1205*1025*1955	865*696*1286	331
DW-HL528S	528	-40~-86	930*1041*1947	585*696*1266	260