

Better Science Better Life

# We are

Zhongke Meiling Cryogenics Co., Ltd., a subsidiary of Changhong Meiling Group. The group commit to better life since 1956. Our company is a joint venture which was founded in 2002 by ChanghongMeiling Co., Ltd. and Chinese Academy of Sciences.

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## About Zhongke Meiling

Zhongke Meiling, as a national new high-tech enterprise and a joint venture of Changhong Meiling Co.,Ltd.and Chinese Academy of Sciences, was founded in 2002 and located in Hefei Economic Development Zone.

We offer variety of product lines including medical & pharmacy refrigerator, ultra-low temperature freezer, blood bank refrigerator, explosion proof refrigerator, freezer rack & box, cold room, and bio-bank management system. Thanks to the professional sales team and good after-sales services, now Zhongke Meiling covers 2800 counties, 300 cities and total 30 provinces in domestic market. With the international certifications such as ISO & CE & UL, we are dedicated to offering quality products to our business partners including Europe, America, Asia, MENA, for medical systems, blood bank systems, health systems, universities, researches & development institutions, biological medicine factories, gene engineering and life sciences from more than 70 countries. We have 5,000m<sup>2</sup> R&D center and 85,000m<sup>2</sup> workshop which is equipped with global cutting-edge automatic production lines as well as professional ultra-low temperature test center. With more than 30 years development in the refrigeration industry, we have built up our superior team and obtained kinds of patents, especially Mixed Refrigerants which have won the second prize of State Technological Invention Award and the first prize of Chinese Association of Refrigeration.



# -164°C/-150°C Cryogenic Freezer

## New Upgraded World’ s Coldest Freezer



- 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

# -86°C Ultra-low Temperature Freezer

## Android Screen Ultra-low Temperature Freezer



### Structure Design

- Vacuum insulation panels allow for increased internal capacity with the same footprint as traditionally foamed freezers, as well as it ensures excellent temperature stability;
- Ergonomic door handle located at waist level is needed to open and close the freezer door, meanwhile equipped with vacuum vent with plunger to gain immediate access to your freezer;
- Inner doors are gasketed as well as insulated creating separate compartments minimizing cold loss while you access your samples;
- Equipped with\*25mm access port, convenient to monitor /test/ back-up system;
- Equipped with four heavy duty casters for ease moving;
- Equipped with SUS304 stainless steel, galvanized plate, sprayed aluminum plate as lining material.

### Electronic Control

- Multiple audible and visible alarm system;
- RS485 interface compliance to MODBUS protocol is able to transfer data with BMS console;
- Optional for CO2 backup system for extra security for your valuable samples;
- The intelligent touch screen provides a convenient and simple man-machine interactive mode. With its own storage space, it can store up to 10 years of data records.

### Refrigeration Performance

- Direct cooling circulation technology with coil evaporator maintains a uniform temperature throughout the chamber;
- SECOP compressor maintains a reliable -86°C ultra low temperature environment, that increases efficient sample storage;
- HC refrigerant with ultra low GWP minimize thermal radiation, meanwhile to reduce HVAC energy consumption;
- With twin- compressor, if one is damaged, the other one could keep the temperature at -70°C stably.

Model	Volume (L)	Temperature(°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Freezer Rack (Model & Quantity)	Net Weight (Kg)
DW-HL398	398	-40~-86	785*1041*1947	440*696*1266	ZKL304-552B-CT : 12	237
DW-HL528	528	-40~-86	930*1041*1947	585*696*1266	ZKL304-552B-CT : 16	286
DW-HL678	678	-40~-86	1090*1025*1955	750*696*1286	ZKL304-552B-CT : 20	330
DW-HL778	778	-40~-86	1205*1025*1955	865*696*1286	ZKL304-552B-CT : 24	365
DW-HL858	858	-40~-86	1217*1025*1994	877*696*1378	ZKL304-552B-CT : 12+ ZKL304-652B-CT : 12	390
DW-HL1008	1008	-40~-86	1362*1025*1994	1022*696*1378	ZKL304-552B-CT : 14+ ZKL304-652B-CT : 14	426

# -86°C Ultra-low Temperature Freezer

## Cost-efficient Ultra-low Temperature Freezer



### Structure Design

- Ergonomic door handle located at waist level is needed to open and close the freezer door, meanwhile equipped with vacuum vent with plunger to gain immediate access to your freezer;
- Vacuum insulation panels allow for increased internal capacity with the same footprint as traditionally foamed freezers, as well as it ensures excellent temperature stability;
- Inner doors are gasketed as well as insulated creating separate compartments minimizing cold loss while you access your samples;
- One access port, convenient to monitor / test / back-up system;
- Equipped with four heavy duty casters for easy moving.

### Electronic Control

- Audible and visible alarm system, multiple alarms including high temperature alarm, low temperature alarm, power failure alarm, low battery alarm, sensor failure alarm, door ajar alarm, high ambient temperature alarm, communication failure alarm, battery power detection failure alarm and condenser overheating alarm etc;
- The digital screen provides storage space, it can store up to 100,000 sets of data records;
- RS485 interface compliance to MODBUS protocol is able to transfer data with BMS console;
- Optional for CO2 backup system for extra security for your valuable samples.

### Refrigeration Performance

- Direct cooling circulation technology with coil evaporator maintains a uniform temperature throughout the chamber;
- SECOP compressor maintain a reliable -86°C ultra low temperature environment, that increases efficient sample storage.

Model	Volume (L)	Temperature(°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Freezer Rack (Model & Quantity)	Net Weight (Kg)
DW-HL100	100	-40~-86	1066*742*820	450*450*514	ZKL304-432B-CT : 3+ZKL304-332B-CT : 3	145
DW-HL218	220	-40~-86	862*976*1555	470*582*768	ZKL304-542B-CT : 3+ZKL304-642B-CT : 3	218
DW-HL340	340	-40~-86	755*895*1982	470*578*1250	ZKL304-542B-CT : 9+ZKL304-432B-CT : 3	208

# -86°C Ultra-low Temperature Freezer

· Chest Series · Intelligent Cooling · Speed Cooling · Energy Saving



DW-HW50HC

### Structure Design

- User-friendly ergonomic design;
- Vacuum insulation panels for space-saving;
- Multiple separate compartments;
- One of Φ 25mm access port, convenient to monitor / test / back-up system;
- Equipped with four heavy duty casters for ease of moving.

### Electronic Control

- Multiple audible and visible alarm system;
- The digital screen provides storage space, it can store up to 100,000 sets of data records;
- RS485 interface compliance to MODEBUS protocol is able to transfer data with BMS console;
- Optional for CO2 backup system for extra security for your valuable samples.

### Refrigeration Performance

- Direct cooling circulation technology with coil evaporator maintains a uniform temperature throughout the chamber;
- SECOP compressor maintain a reliable -86°C ultra low temperature environment, that increases efficient sample storage;
- HC refrigerant with ultra low GWP minimize thermal radiation, meanwhile to reduce HVAC energy consumption.[Comply to SNAP No. 22 Rule]



DW-HW138

### High-precision Temperature Control

- Digital temperature display, display the chamber temperature, power supply voltage, ambient temperature and other parameters, etc. The running status is clearly displayed;
- High-precision microcomputer temperature control system and platinum resistor temperature sensors enable users to set temperature inside the cabinet within a range from -40 ~ -86°C.

### Refrigeration System

- The imported high-efficiency compressor and EBM fan are energy-saving and highly efficient;
- 152mm foaming insulation with VIP board for better temperature performance.

### Security System

- The well-developed security system with multiple audible & visual alarm functions: high&low temperature , door ajar, power failure, sensor failure, low battery, condenser overheated alarm, system failure ;
- The compressor start delay and stopping interval protection can ensure reliable operation;
- The keyboard lock function and password protection function can prevent any adjustment of operating parameters without permission;
- Long time support back-up battery for display and alarms system during power failure for supportive safety notification.

### Human-oriented Design

- The door with new-type assisting handle can be opened easily;
- SUS304 interior, low temperature resistance and corrosion resistance, easier cleaning;
- Universal caster with brake, easy for movement and fixation.

Model	Volume (L)	Temperature(°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Freezer Rack ( Model & Quantity)	Net Weight (Kg)
DW-HW50HC	55	-40~-86	650*606*1080	430*305*425	ZKW-304-7-2 : 6	74
DW-HW138	138	-40~-86	1328*890*1025	490*470*582	ZKW304-10-2 : 9	200
DW-HW328	328	-40~-86	2038*890*1025	1200*470*582	ZKW304-10-2 : 24	280/262
DW-HW668	668	-40~-86	2008*1180*1041	1200*815*666	ZKW304-10-2 : 40	280

# -86°C Ultra-low Temperature Freezer

Undercounter Freezer



DW-HL50

### Structure Design

- Ergonomic door handle located at waist level is needed to open and close the freezer door, meanwhile equipped with vacuum vent with plunger to gain immediate access to your freezer;
- Vacuum insulation panels allow for increased internal capacity with the same footprint as traditionally foamed freezers, as well as it ensures excellent temperature stability;
- Inner doors are gasketed as well as insulated creating 2 separate compartments minimizing cold loss while you access your samples;
- One of Φ 25mm access port, convenient to monitor / test / back-up system;
- Equipped with four heavy duty casters for ease of moving.

### Electronic Control

- Well-developed Audible & Visible Alarm System;
- The digital screen provides storage space, it can store up to 100,000 sets of data records;
- RS485 interface compliance to MODEBUS protocol is able to transfer data with BMS console;
- Optional for CO2 backup system for extra security for your valuable samples.

### Refrigeration Performance

- Direct cooling circulation technology with coil evaporator maintains a uniform temperature throughout the chamber;
- SECOP compressor maintain a reliable -86°C ultra low temperature environment, that increases efficient sample storage;
- HC refrigerant with ultra low GWP minimize thermal radiation, meanwhile to reduce HVAC energy consumption.[Comply to SNAP No. 22 Rule]

## -86°C Portable Ultra-low Temperature Freezer



DW-HL1.8

### Intelligent temperature control

- High definition digital display with the display accuracy reaching 0.1°C;
- The inner temperature can be set from - 40 °C to -86 °C.

### Refrigeration System

- New Smart refrigeration design with energy-efficient CFC-free refrigerant;
- Portable design which can both use 24V vehicle power supply and 220V household power supply;
- The foaming body and accessory device for heat preservation use soft EVA blind hole foaming materials for better cooling performance.

### Security System

- With multiple security alarms including high temperature alarm, low temperature alarm, sensor fault alarm, power outage alarm which can preserve samples in a safer way;
- The protection of power-on delay and power-off interval ensure the safety operation;
- Keyboard with lockout system and keyword protection prevent from adjusting operation parameters without permission;
- The double-locking design makes sure the safety for sample storage.

Model	Volume (L)	Temperature(°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Net Weight (Kg)
DW-HL50	50	-40~-86	951*700*757	305*425*430	104

Model	Volume (L)	Temperature(°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Net Weight (Kg)
DW-HL1.8	1.8	-40~-86	245*282*496	156*136*87	11

# -40°C Ultra-low Temperature Freezer



### Structure Design

- The freezer is equipped with a foam door, which effectively prevents the loss of cold air and has excellent insulation performance;
- The door is equipped with a lock and key to provide a safe cryogenic storage space for samples;
- There is Φ25mm access port on the left side of the freezer, convenient to monitor / test / back-up equipment;
- Equipped universal wheels and leveling feet for easy movement and fixation;
- Equipped with sprayed aluminum plate / SUS304 stainless steel / HIPS / Blister / galvanized plate as lining material.

### Control system

- Well-developed Audible & Visible Alarm System;
- The equipped built-in data-logger can export up to 12 months of temperature data (that has not been exported) through USB port, either automatically or manually;
- The RS485 interface is capable of defining and transferring critical temperature data of the equipment by the MODBUS protocol;
- 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.

### Refrigeration system

- HC refrigerant with ultra low GWP minimize thermal radiation, meanwhile to reduce HVAC energy consumption.[Comply to SNAP No. 22 Rule];
- Industrial compressor realizes energy conservation and environmental protection.

Model	Volume (L)	Temperature(°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Net Weight (Kg)
DW-FL90	90	-20~-40	700*669*864	500*485*532	52/54/62
DW-FL270	270	-20~-40	700*640*1792/1808	500*460*1235	86/90/98
DW-FL450	450	-20~-40	810*735*1960	(650*570*627)*2	133/144
DW-FL528	528	-20~-40	930*1041*1947	585*696*1266	234
DW-FL778	778	-20~-40	1205*1025*1955	865*696*1286	286
DW-FL1008	1008	-20~-40	1360*1006*1980	1022*696*1378	320

# -40°C Ultra-low Temperature Freezer

Can be upgraded to -60°C Ultra-low Temperature Freezer



### Structure Design

- The freezer is equipped with a foam door, which effectively prevents the loss of cold air and has excellent insulation performance;
- The door is equipped with a lock and key to provide a safe cryogenic storage space for samples;
- The external material is cold rolled steel sheet, and the internal material is stainless steel, both are corrosion resistant and easy to clean;
- This freezer has a steel wire basket, which is convenient for sample access;
- Equipped with universal wheels for easy movement.

### Control system

- The freezer is equipped with high temperature alarm, low temperature alarm, power failure alarm, low battery alarm and sensor failure alarm to make it safer for storage.

### Refrigeration system

- HC refrigerant with ultra low GWP minimize thermal radiation, meanwhile to reduce HVAC energy consumption [Comply to SNAP No. 22 Rule];
- Industrial compressor realizes energy conservation and environmental protection.

### 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.

Model	Volume (L)	Temperature(°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Net Weight (Kg)
DW-FW150	150	-20~-40	811*775*929	585*465*651	60
DW-FW270	270	-20~-40	1245*775*929	1019*465*651	77
DW-FW360	360	-20~-40	1534*775*929	1308*465*651	98

# -10~-25°C Biomedical Freezer



## Structure Design

- The freezer is equipped with a foam door, which effectively prevents the loss of cold air and has excellent insulation performance;
- The door is equipped with a lock and key to provide a safe cryogenic storage space for samples;
- The freezer cabinet is made of pre-coated steel plate, which is corrosion resistant and easy to clean;
- There is Φ25mm access port on the left side of the freezer, convenient to monitor /test/ back-up equipment;
- Upright freezer has ABS drawers,chest freezer has baskets,which are convenient for sample access;
- Equipped universal wheels and leveling feet for easy movement and fixation.

## Control system

- Well-developed Audible & Visible alarm system;
- The equipped built-in data-logger can export up to 12 months of temperature data (that has not been exported) through USB port, either automatically or manually;
- The RS485 interface is capable of defining and transferring critical temperature data of the equipment by the MODBUS protocol;
- 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.

## Refrigeration system

- HC refrigerant with ultra low GWP minimize thermal radiation, meanwhile to reduce HVAC energy consumption.[Comply to SNAP No. 22 Rule];
- Industrial compressor with HC refrigerant realizes energy conservation and environmental protection.

Model	Volume (L)	Temperature(°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Net Weight (Kg)
DW-YL90	90	-10~-25	700*669*854	500*485*532	54
DW-YL270	270	-10~-25	700*640*1792	500*460*1235	90
DW-YL450	450	-10~-25	810*735*1960	(650*570*627)*2	136/128/162
DW-YW226A	226	-10~-25	1115*610*890	954*410*703	50
DW-YW358A	358	-10~-25	1350*785*880	1220*545*673	59
DW-YW508A	508	-10~-25	1650*735*880	1504*545*673	74

# 2~8/-10~-26/-40°C Combined Refrigerator and Freezer



## Structure Design

- The upper chamber is double pane glass door with Low-E, it has electric heating function to prevent condensation; and the lower chamber is solid, it has great insulation function;
- It is equipped with 2 compressors and 2 independent displays, respectively control the upper refrigerator and the lower freezer;
- Clear visibility inside the refrigerator compartment is provided by LED light, which are automatically turned on once the door is opened;
- Two access ports (Ø25mm) are convenient to connect monitoring /testing/ back-up device;
- The freezer has the plastic coated wire steel shelves and the ABS drawers in the chamber, which are convenient for taking samples;
- 4 universal wheels+2 casters with brake at the bottom, easy to move and place.

## Control system

- Audible and visible alarm system, multiple alarms including high temperature alarm, low temperature alarm, sensor failure etc;
- Microprocessor controller can display temperature in 0.1°C increments to make sure the temperature inside stable.

## Refrigeration system

- HC refrigerant with ultra low GWP minimize thermal radiation, meanwhile to reduce HVAC energy consumption. [Comply to SNAP No. 22 Rule].

Model	Volume (L)	Temperature(°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Net Weight (Kg)
YCD-EL300	300	R:2~8/F:-10~-26	700*640*1876	R:600*510*657/F:500*460*535	87
YCD-FL289	289	R:2~8/F:-10~-40	700*640*1845	R:600*510*710/F:500*460*505	143
YCD-EL450	450	R:2~8/F:-10~-26	810*735*1960	(650*570*627)*2	144
YCD-FL519	519	R:2~8/F:-10~-40	910*740*1972	R:750*610*740/F:650*560*565	186

# 2~8°C Pharmacy Refrigerator

- Real Air Cooling**  
Air circulation with finned evaporator achieves fast cooling and ensures temperature uniformity in the cabinet.
- Real Energy Saving**  
Industrial compressor with hydrocarbon refrigerant realizes energy conservation and environmental protection.
- Real Visibility**  
Double-pane glass door with electric heating function can against condensation at 16-32 °C ambient temperature.
- Real Safety**  
The standard remote alarm contact allows users to obtain alarm information in time even when they are not near the refrigerator, so as to ensure the safety of samples even better.

## Undercounter Pharmacy Refrigerator



## 5 series Pharmacy Refrigerator



# 2~8°C Pharmacy Refrigerator



- Structure Design**
  - Double-pane glass door with electric heating function can against condensation at 16-32 °C ambient temperature. Also, it is self-closing in case the samples are damaged due to user’ s forgetting to close the door;
  - The internal material is sprayed aluminum plate (optional stainless steel), which is durable and easy-to-clean ;
  - Removable shelves inside the refrigerator compartment are available for flexible storage solutions and these wire shelves remain stable temperatures wherever products are stored, even in a fully loaded chamber;
  - Each shelf is equipped with a label holder, which can record sample information, so that users can select the desired samples easily and quickly.

- Refrigeration system**
  - Air circulation with finned evaporator achieves fast cooling and ensures temperature uniformity in the cabinet ;
  - Industrial compressor with hydrocarbon refrigerant realizes energy conservation and environmental protection;
  - HC refrigerant with ultra low GWP minimize thermal radiation, meanwhile to reduce HVAC energy consumption. [Comply to SNAP No. 22 Rule]

- Control system**
  - Microprocessor controller can display temperature in 0.1°C increments;
  - An access port (Ø25mm) is convenient to connect monitoring /testing/ back-up device;
  - Multiple audible and visible alarm system;
  - The RS485 interface is capable of defining and transferring critical temperature data of the equipment by the MODBUS protocol.

Model	Volume (L)	Temperature(°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Number of Shelves	Net Weight (Kg)
YC-56L	56	2~8	542*565*632	444*440*404	2	35
YC-76L	76	2~8	542*566*764	444*440*536	3	41/45
YC-130L	130	2~8	650*625*810	554*510*588	2+1	51
YC-315L	315	2~8	650*673*1762	580*533*1122	4+1	87
YC-395L	395	2~8	650*673*1992	580*533*1352	6+1	95
YC-525L	525	2~8	720*810*1961	610*685*1264	6	148
YC-650L	650	2~8	715*941*1985	605*725*1515	5	142/157
YC-650CL	650	2~8	715*941*1985	605*725*1515	5	142/157
YC-725L	725	2~8	1093*772*1992	980*595*1260	12	171/189
YC-1015L	1015	2~8	1180*900*1990	1070*670*1515	12	185/223
YC-1320L	1320	2~8	1453*881*1998	1340*670*1515	10	258
YC-1320CL	1320	2~8	1453*881*1998	1340*670*1515	10	235/258
YC-1505L	1505	2~8	1798*886*1997	1685*670*1514	18	322

# 2~8°C Ice Lined Refrigerator

Intelligent Control & Constant Temperature  
Multiple Alarms Bring More Security  
PQS



YC-150EW

YC-275EW

### Structure Design

- The external material is sprayed steel sheet and the internal material is stainless steel. Both are corrosion resistant and easy to clean;
- This refrigerator has steel wire baskets, which are convenient for access;
- The door is equipped with a lock and key to provide a safe storage space for samples;
- 4 universal wheels for easy movement;
- The refrigerator is equipped with a 110mm foam door, which effectively prevent the loss of cold air and have excellent insulation performance.

### Control System

- Multiple audible and visible alarm systems;
- 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 battery can power exceed 48 hours, meeting the demand of the refrigerator's control system once power failure to ensure sample safety.

### Refrigeration system

- Industrial compressor with HC refrigerant realizes energy conservation and environmental protection;
- HC refrigerant with ultra low GWP minimizes thermal radiation, meanwhile to reducing HVAC energy consumption [Comply to SNAP No. 22 Rule] ;
- The refrigerator has the precooling function, which can flexibly set the cold storage time, ensure the maximum cold storage capacity of the ice bar before power failure and extend the retention time of the internal temperature of the refrigerator.

### Scope of Application

Suitable for storage of biological products, vaccines, drugs, reagents, etc. Suitable for use in pharmacies, pharmaceutical factories, hospitals, disease prevention and control centers, clinics and others.

Model	Volume (L)	Temperature(°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Net Weight (Kg)
YC-150EW	150	2~8	811*775*964	585*465*651	76
YC-275EW	275	2~8	1245*775*964	1019*465*651	103

# 4°C Blood Bank Refrigerator

Precise Temperature Control Safeguards Security of Blood



### Structure Design

- 1 foamed outer door with double-pane glass window, prevents chamber air leakage and provides a clear view of stored items;
- The electric heating function equipped with the outer door can effectively prevent condensation, thus always providing users with a clear view through the window;
- Stainless steel drawers remain stable and uniform temperatures wherever products are stored, even in a fully loaded chamber;
- Stainless steel (SUS304) as the internal material, is durable and easy-to-clean;
- 4 castors make it easier to move and fix.

### Refrigeration system

- Air circulation with finned evaporator achieves fast cooling and ensures temperature uniformity in the cabinet;
- Industrial compressor with hydrocarbon refrigerant realizes energy conservation and environmental protection;
- HC refrigerant with ultra low GWP minimizes thermal radiation, meanwhile reducing HVAC energy consumption [Comply to SNAP No. 22 Rule].

### Control system

- Microprocessor controller can display temperature in 0.1°C increments;
- Multiple audible and visible alarm systems;
- The equipped built-in data-logger can export up to 12 months of temperature data (that has not been exported) through USB port, either automatically or manually;
- The RS485 interface is capable of defining and transferring critical temperature data of the equipment by the MODBUS protocol ;
- The remote alarm contact allows users to obtain alarm information in time even when they are not near the refrigerator, so as to ensure blood safety even better.

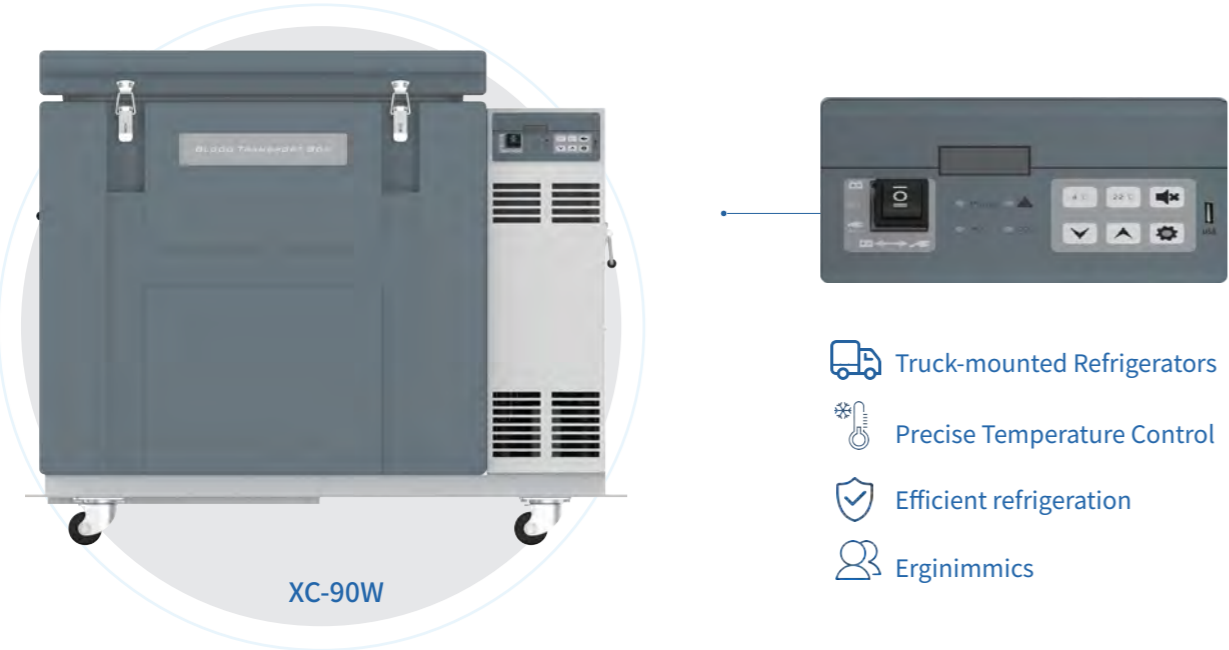
### Scope of Application

Suitable for storage of whole blood, blood platelets, red blood cells, biological products, vaccines, drugs, reagents, etc. Suitable for use in blood banks, hospitals, research institutions, disease prevention and control centers, etc.

Model	Volume (L)	Temperature(°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Number of Shelves	Net Weight (Kg)
XC-168L	168	2~6	654*774*1330	525*550*744	3	116
XC-170L	170	2~6	654*774*1330	525*550*744	3	106
XC-268L	268	2~6	640*700*1856	530*490*1145	5	125
XC-380L	380	2~6	717*660*1999	604*494*1310	5	134
XC-630L	630	2~6	812*912*1978	685*690*1373	6	179
XC-618L	618	2~6	812*912*1978	685*690*1373	6	204

# +4°C/+22°C (±1) Mobile Blood Bank Refrigerator

## Constant Temperature Intelligent Control Protects Blood Safety



### Structure Design

- Up to 60 pcs of 400 ml blood bags can be stored;
- The horizontal design reduces the loss of cold air inside the refrigerator when opening the door, thus abates temperature fluctuation and improves temperature stability;
- 1 foamed solid door can block light and insulate heat to a great extent, ensuring the safety of the whole blood and blood derivatives;
- 4 baskets inside provide effective storage solutions and remain temperature stability and uniformity at full load;
- Low-density polyethylene (LDPE) as the external and the internal material, because it is durable and easy-to-clean;
- 4 casters (2 with brakes) make it easier to move and fix.

### Refrigeration System

- Air circulation with finned evaporator achieves fast cooling and ensures temperature uniformity in the cabinet;
- Industrial compressor with hydrocarbon refrigerant realizes energy conservation and environmental protection;
- HC refrigerant with ultra low GWP minimizes thermal radiation, meanwhile reducing HVAC energy consumption [Comply to SNAP No. 22 Rule].

### Control system

- Microprocessor controller can display temperature in 0.1°C increments;
- The DC power supply (12/24V) is configured to meet the storage requirements during transportation and ensures sample safety throughout the process;
- The equipped built-in data-logger can export up to 12 months of temperature data (that has not been exported) through USB port, either automatically or manually;
- The remote alarm contact allows users to obtain alarm information in time even when they are not near the refrigerator, so as to ensure blood safety even better.

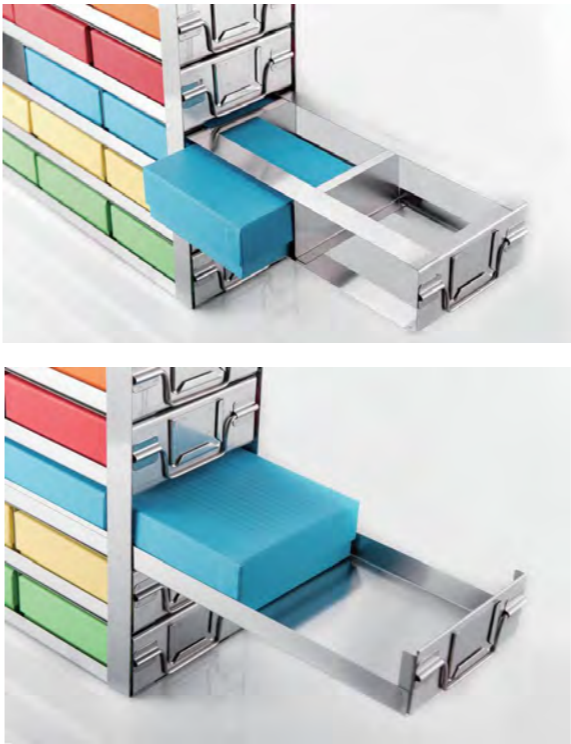
### Scope of Application

Suitable for storage of whole blood, blood platelets, red blood cells, biological products, vaccines, drugs, reagents, etc.  
Suitable for use in blood banks, hospitals, research institutions, disease prevention and control centers, etc.

Model	Volume (L)	Temperature(°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Net Weight (Kg)
XC-90W	90	2-6/21~23	1080*565*856	516*365*500	75

# Laboratory Consumables

## Vertical Freezer Rack | Sliding-drawer Freezer Rack (Including handle size)



- Made of 304 stainless steel;
- Steel plate thickness: Combination of 0.5mm and 1.0 mm;
- Sliding-drawer design for convenient operations;
- Low temperature rated plastic handles are standard on draw racks for ease and safety of operation;
- Labeling slots are standard on draws;
- The outward pouch design protects the slot from potential damage caused by low temperature;
- The front side is printed with Zhongke Meling's seal;
- Providing personalized customization.

Model	Layer	Column	Size (W*D*H)
Material:SUS304			
ZKL304-332B-CT	3	3	140*413*180
ZKL304-432B-CT	4	3	140*413*235
ZKL304-442B-CT	4	4	140*549*235
ZKL304-452B-CT	4	5	140*685*235
ZKL304-532B-CT	5	3	140*413*293
ZKL304-542B-CT	5	4	140*549*293
ZKL304-552B-CT	5	5	140*685*293
ZKL304-632B-CT	6	3	140*413*351
ZKL304-642B-CT	6	4	140*549*351
ZKL304-652B-CT	6	5	140*685*351
ZKL304-742B-CT	7	4	140*549*409

## Chest Freezer Rack (Including handle size)



- Corrosion resistant stainless steel made of ultra-thick steel plates;
- Suitable for 2-inches and 1-inch freezer boxes and international standardized freezers;
- Chest freezer rack is simple in structure and easy to use and suitable for liquid nitrogen tank sample storage.

Model	Layer	Size (W*D*H)
Material:SUS304		
ZKW304-6-2	6	140*143*347
ZKW304-7-2	7	140*143*404
ZKW304-8-2	8	140*143*461
ZKW304-9-2	9	140*143*518
ZKW304-10-2	10	140*143*575
ZKW304-11-2	11	140*143*632
ZKW304-12-2	12	140*143*689

# Laboratory Consumables

2-inches freezer-storage box is the most widely used storage box in the market, which can be divided into PP (polypropylene) storage box, PC (polycarbonate) storage box and PA (paper) storage box according to the material. It can be used for storage of 0.5ml, 1.0ml, 1.5ml and 1.8ml in various brands freezers.

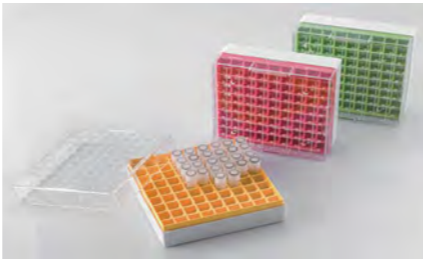
## PP Box

- Made of medical-grade transparent polypropylene material;
- temperature range from- 90 °C to 121 °C, can be used for low temperature storage or autoclave;
- Perfectly matching low temperature freezer, avoiding appearing sequence disorder, greatly improving space utilization;
- Transparent cover designed for easy observation of the sample in the box;
- Cover with grid and code for easy inventory management and error free access;
- Available in five colors: transparent, pink, blue, green and yellow;
- There are gaps for the surrounding of the box, which facilitates rapid cooling of the sample and liquid discharge and is not easy to frost;
- Angle special design to avoid mis-operation of box cover;
- Standard size design, suitable for all standard storage racks.



## PC Box

- Made of medical-grade transparent polycarbonate material;
- Temperature range from -196 °C to 121 °C, used for the liquid nitrogen storage or autoclave;
- Transparent cover designed for easy observation of the sample in the box;
- Cover with grid and code for easy inventory management and error free access;
- Red, blue, green and yellow colors are available;
- There are gaps for the surrounding for the box to facilitate rapid cooling of the sample and discharge of liquid nitrogen to prevent boiling;
- Angle special design to avoid mis-operation of box cover.



## PA Box

- Made of durable cardboard;
- Protective cover of the box is non-frost and easy to resist moisture, low temperature tolerance;
- Temperature range from -196°C to 121°C(Also can be used in autoclave);
- Can be used for liquid nitrogen storage after hole drilling;
- Removable grid strip (with writing area), easy to label on the surface;
- White, pink, blue, green and yellow totally 5 colors are available;
- Suitable for all standard freezer racks.



## Cryo Tubes

- The medical level high transparent PP material, can withstand temperature from -196 °C to 121 °C;
- Self-standing, with O shaped gasket to ensure airtight;
- Large writing area, easy to mark by user;
- With scale, adding sample size is easy to identify;
- DNA/RNA free certification ensures stable preservation of genetic samples;
- Through the gamma ray sterilization to ensure the highest sterile requirements;
- Tolerable maximum centrifugal force of 20000G;
- Multi-color selection for the cover, easy to identify samples.



Model	Type	Volume	Sterile	Description
ZKG-1.5-W	External Thread Tube and Box	1.5ml	Gamma Irradiation Sterilization	with scale and writing area,temperature tolerance:-196°C ~ 121°C, comes with on 100-well PC freezer box the box lid has grids ,1200units/box
ZKG-2.0-W	External Thread Tube and Box	2.0ml	Gamma Irradiation Sterilization	with scale and writing area,temperature tolerance:-196°C ~ 121°C, comes with on 100-well PC freezer box the box lid has grids ,1200units/box
ZKG-2.0-B-W	External Thread Tube and Box	2.0ml	Gamma Irradiation Sterilization	with scale and writing area,temperature tolerance:-196°C ~ 121°C, comes with on 100-well PC freezer box the box lid has grids ,1200units/box

# ULT Freezer + Consumables Solutions

## -86°C Vertical ULT Freezer Rack Matching Solution

We will recommend the perfect frozen layer rack matching scheme to improve freezer space utilization and satisfy storage requirements of biobanks.



Drawer Type:5 Layers and 4 Columns  
( ZKL304-542B-CT )



Drawer Type:5 Layers and 3 Columns  
( ZKL304-532B-CT )

Model	Freezer Rack Model	Rack Description	Freezer Rack Quantity	Freezer Box Quantity	Cryo Tube Quantity (2ml)
DW-HL50	ZKL304-632B-CT	2 inches stainless steel sliding -drawer freezer rack 6*3 (2 inch freezer box*18)	2	36	3600
DW-HL100	ZKL304-432B-CT	2 inches stainless steel sliding -drawer freezer rack 4*3 (2 inch freezer box*12)	3	63	6300
	ZKL304-332B-CT	2 inches stainless steel sliding -drawer freezer rack 3*3 (2 inch freezer box*9)	3		
DW-HL218	ZKL304-542B-CT	2 inches stainless steel sliding -drawer freezer rack 5*4 (2 inch freezer box*20)	3	132	13200
	ZKL304-642B-CT	2 inches stainless steel sliding -drawer freezer rack 6*4 (2 inch freezer box*24)	3		
DW-HL340	ZKL304-542B-CT	2 inches stainless steel sliding -drawer freezer rack 5*4 (2 inch freezer box*20)	9	216	21600
	ZKL304-432B-CT	2 inches stainless steel sliding -drawer freezer rack 4*3 (2 inch freezer box*12)	3		
DW-HL398	ZKL304-552B-CT	2 inches stainless steel sliding -drawer freezer rack 5*5 (2 inch freezer box*25)	12	300	30000
DW-HL528	ZKL304-552B-CT	2 inches stainless steel sliding -drawer freezer rack 5*5 (2 inch freezer box*25)	16	400	40000
DW-HL678	ZKL304-552B-CT	2 inches stainless steel sliding -drawer freezer rack 5*5 (2 inch freezer box*25)	20	500	50000
DW-HL778	ZKL304-552B-CT	2 inches stainless steel sliding -drawer freezer rack 5*5 (2 inch freezer box*25)	24	600	60000
DW-HL858	ZKL304-552B-CT	2 inches stainless steel sliding -drawer freezer rack 5*5 (2 inch freezer box*25)	12	660	66000
	ZKL304-652B-CT	2 inches stainless steel sliding -drawer freezer rack 6*5 (2 inch freezer box*30)	12		
DW-HL1008	ZKL304-552B-CT	2 inches stainless steel sliding -drawer freezer rack 5*5 (2 inch freezer box*25)	14	770	77000
	ZKL304-652B-CT	2 inches stainless steel sliding -drawer freezer rack 6*5 (2 inch freezer box*30)	14		

\*The "Cryo Tube Quantity (2ml) " of DW-HL858, DW-HL1008 in this chart is the maximum storage .

# ULT Freezer Package With Racks And Boxes

## -86°C Chest ULT Freezer Rack Matching Solution

Organizing freezer space for increased work efficiency.

### Chest Freezer Rack

- Made of 304 stainless steel for durability and better appearance;
- Steel plate thickness: combination of 0.6 and 1.2 mm;
- Suitable for standard sized freezer boxes;
- Widely used for chest ultra low freezers and nitrogen containers.

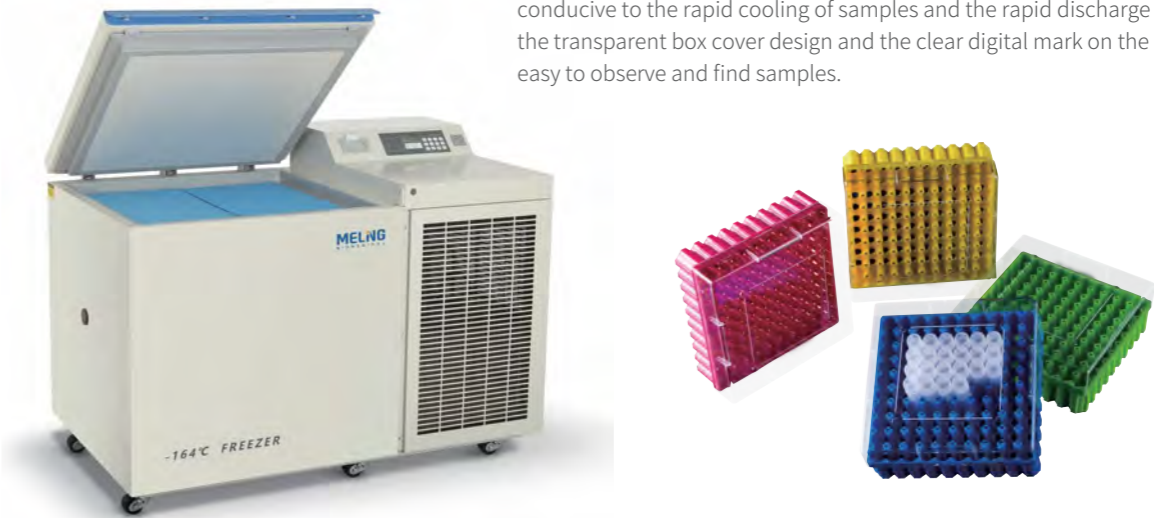


Model	Freezer Rack Model	Rack Description	Freezer Rack Quantity	Freezer Box Quantity	Cryo Tube Quantity (2ml)
DW-HW50	ZKW304-7-2	2 inches stainless steel chest freezer rack (2 inch freezer box*7)	6	42	4200
DW-HW138	ZKW304-10-2	2 inches stainless steel chest freezer rack (2 inch freezer box*10)	9	90	9000
DW-HW328	ZKW304-10-2	2 inches stainless steel chest freezer rack (2 inch freezer box*10)	24	240	24000
DW-HW668	ZKW304-10-2	2 inches stainless steel chest freezer rack (2 inch freezer box*10)	40	400	40000

# ULT Freezer + Consumables Solutions

## -164°C / -150°C Chest Cryogenic Freezer Rack Matching Solution

- -150°C/-164°C Cryogenic freezer stainless steel chest frozen layer rack , high strength PC frozen layer box, can withstand the temperature of -196°C~121°C;
- The new appearance design, the gap and line design of the box body is conducive to the rapid cooling of samples and the rapid discharge of liquid, the transparent box cover design and the clear digital mark on the box body is easy to observe and find samples.



Model	Freezer Rack Model	Rack Description	Freezer Rack Quantity	Freezer Box Quantity	Cryo Tube Quantity (2ml)
DW-ZW128	ZKW304-9-2	2 inches stainless steel chest freezer rack (2 inch freezer box*9)	9	81	8100
DW-UW128	ZKW304-9-2	2 inches stainless steel chest freezer rack (2 inch freezer box*9)	9	81	8100
DW-UW258	ZKW304-9-2	2 inches stainless steel chest freezer rack (2 inch freezer box*9)	16	144	14400

## -40°C Vertical And Chest ULT Freezer Rack Matching Solution



Model	Freezer Rack Model	Rack Description	Freezer Rack Quantity	Freezer Box Quantity	Cryo Tube Quantity (2ml)
DW-FL528	ZKL340-552B-CT	2 inches stainless steel sliding drawer freezer rack (2 inch freezer box*20)	16	320	32000
DW-FW150	ZKW304-10-2	2 inches stainless steel chest freezer rack (2 inch freezer box*10)	12	120	12000
DW-FW270	ZKW304-10-2	2 inches stainless steel chest freezer rack (2 inch freezer box*10)	21	210	21000
DW-FW360	ZKW304-10-2	2 inches stainless steel chest freezer rack (2 inch freezer box*10)	27	270	27000

\*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 buy these equipments, please confirm with the factory at first.  
\*The verification date of product parameters is 2023.02.17.

CO2 backup system

- Small footprint and portable with convenient installation;
- Applicable to all the ULT freezers or refrigeration cabinet which has access port;
- 48 hours battery back-up in case of main power failure;
- Large capacity, maintenance-free battery;
- Visible and audible indicators of system status, perfect alarm system to protect your samples safety;
- Door safety interlock switch prevents coolant injection if freezer door is opened; Injection valve will back to the original state once the door is closed properly.



Chart Recorder

- The module measures temperature by means of a probe filled with a neutral gas linked to a capillary tube;
- This technology provides you with temperature recorders without electronics;
- No power supply is required;
- A spring maintains the fiber pen arm for a better reliability of the system;
- A locked door avoids any trouble during the monitoring process;
- European imported brand, durable and reliable.



Remote alarm and RS485 port

Through RS485 contact and conventional protocol, freezer can connect with CMS for data communication, such as product failure and alarm information can be transmitted through the external equipment to ensure the storage safety of samples.



-86°C Ultra-low Temperature Freezer >>



-40°C Ultra-low Temperature Freezer/-60°C Deep Freezer >>

2~8°C Ice Lined Refrigerator >>



-40°C Ultra-low Temperature Freezer >>



-25°C Biomedical Freezer >>



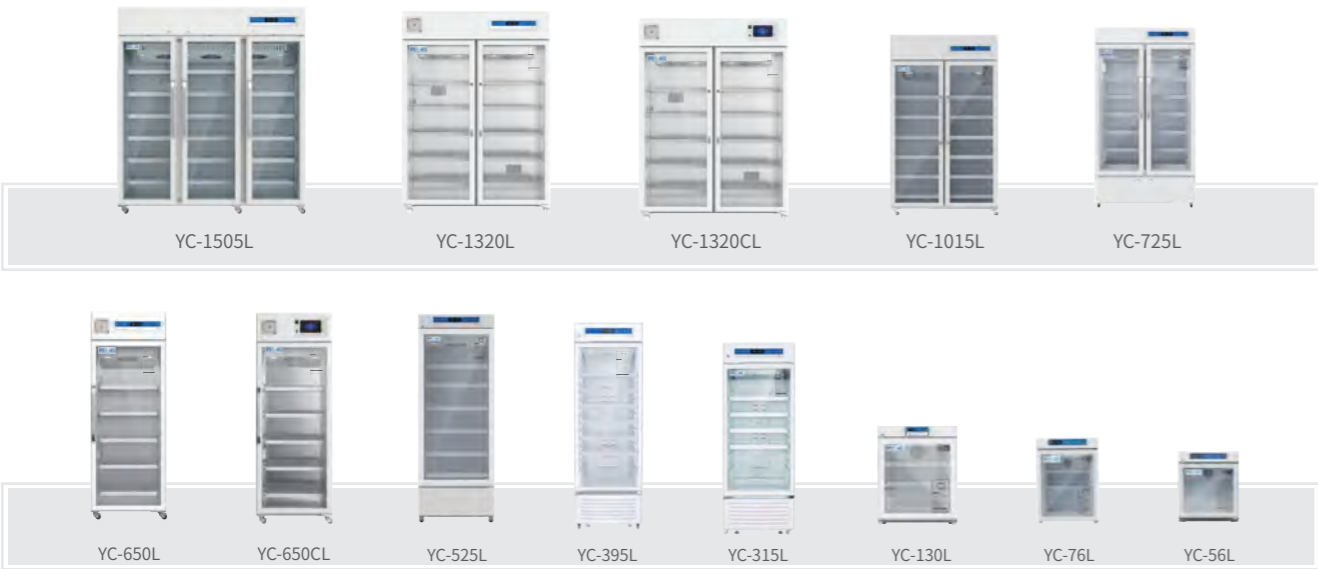
2~8°C, -10~-26/-40°C Combined Refrigerator and Freezer >>



4±1°C Blood Bank Refrigerator >>



2~8°C Pharmacy Refrigerator >>



Appendix

Naming Standards

