# We are

MELING BIOLOGY & MEDICAL , a subsidiary division of Changhong Meiling Group. The group commit to better life since 1956. Our company is a joint venture which was founded in 2002 by Hefei Meiling Co.,Ltd and Chinese Academy of Sciences.

Better Science Better Life

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## MELING
### BIOLOGY & MEDICAL

# Product Catalogue

# CATALOGUE

## About Meling

MELING BIOLOGY & MEDICAL, as a National new high-tech enterprise, was founded in 2002 and located in Hefei Economic Development Zone, is a joint venture of Hefei Meiling Co., Ltd and Chinese Academy of Science.

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 for the professional sales team and good after-sales services, now Meling covers 2800 counties, 300 cities and total 30 provinces in domestic market. Comply with the international certifications such as ISO & CE & UL, we are dedicated to offer quality products to our business partners from more than 70 countries 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. We have 5,000㎡ R&D center and 60,000㎡ workshop which is equipped with global cutting-edge automatic production lines as well as professional ultra-low temperature test center. With more than 19 years development in the refrigeration industry, we have built up our superior team and obtained kinds of patents, especially Mixed Refrigerants which has won the second prize of State Technological Invention Award and first prize of Chinese Association of Refrigeration.

# 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

### Dual-core targeted refrigeration
· Double-core targeted refrigeration, rapid refrigeration, energy saving and environmentally-friendly；
· Second prize of national science and technology invention;
· Temperature set point can be adjusted from - 110 ° C to -150 ° 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 famours brand fan motor with premium quality.

### 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 overheating alarm, system failure alarm ，to ensure the sample safety storage；
· The turn-on delay and stopping interval protection can ensure reliable compressor operation;
· The Electronic lock/fingerprint/face recognition can prevent any adjustment of operating parameters without permission.
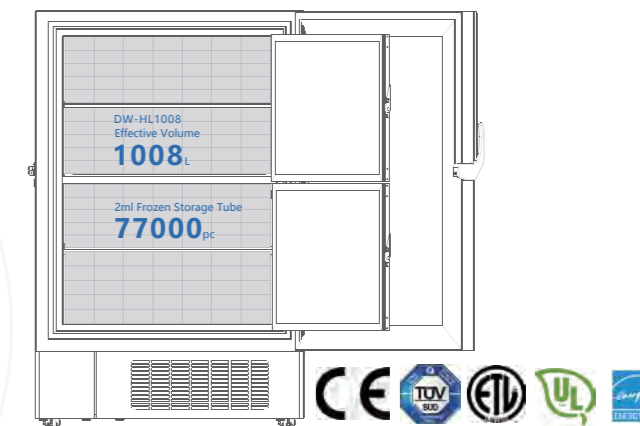
### Human-oriented Design
· Horizontal type with lid to be opened from the top,assisting balanced hinges to open it easily；
· Casters can be fixed for easy movement and fixation；

### ☑ 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 | Effective 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*1000*1115 | 510*460*540 | 380/50 | ZKW304-9-2 : 9 | 338 |
| DW-UW258 | 258 | -110～-150 | 2250*940*1120 | 1140*410*552 | 380/50 | ZKW304-9-2 : 16 | 460 |

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# -86°C Ultra-low Temperature Freezer

DW-HL1008S

DW-HL1008 Effective Volume 1008 L

2ml Frozen Storage Tube 77000 pc

- Targeted Refrigeration
- Unique Refrigeration Circuit
- Energy Saving Environmental Protection
- VIP Plus Vacuum Insulation Panel

### 7" LED Screen Control System
· The 7" LED touch screen has clear display,user-friendly interface and more accurate temperature control, which can indicate operating status clearly;
· The high-precision microcomputer control system and platinum resistor sensors enable users to set temperature inside the cabinet within a range from -40 to -86°C.

### Refrigeration System
· The imported high-efficiency compressor and EBM fan are energy-saving and highly efficient;
· The large finned condenser with a space between fins≤2mm, providing affective heat dissipation.
· DW-HL678S/778S/858S/1008S with twin-compressor, if one is damaged, the other one could keep the temperture at -70℃ stably.
· Standard with VIP board for high efficiency cooling performance. Door with hot gas pipe surrounding for defrost.

### Security System
· The perfect audible & visual alarm system : high and low temperature ,sensor failure ,power failure ,door ajar ,main board communication error,high
　ambient temperature,condenser overheating alarm, built-in datalogger USB failure alarm, System failure alarm, optional remote alarm etc;
· The compressor start delay and stopping interval protection can ensure reliable operation;
· Both the touch screen controller and keyboard controller have password protection which can prevent any adjustment of operatiion without permission;

### Human-oriented Design
· The new designed assisting handle and vaccum release port let the freezer be operated single-handed to open and close the outer door.
· The newly added file box makes recording easier and more convenient.
· The liner made from galvanized steel(optional stainless steel) for medical use is low- temperature tolerant andcorrosion-resistant, which has a long service life and is
　easy to clean;
· The universal casters and leveling feet design are more convenient for movement and fixation.

| Model | Effective Volume (L) | Temperature(°C) | External Dimensions (W*D*H, mm) | Internal Dimensions (W*D*H, mm) | Power (W) | Freezer Rack ( Model & Quantity) | Net Weight (Kg) |
|---|---|---|---|---|---|---|---|
| DW-HL398S | 398 | -40~-86 | 785*1041*1947 | 440*696*1266 | 950 | ZKL304-552B-CT : 12 | 237 |
| DW-HL528S | 528 | -40~-86 | 930*1041*1947 | 585*696*1266 | 1265 | ZKL304-552B-CT : 16 | 286 |
| DW-HL678S | 678 | -40~-86 | 1090*1025*1965 | 750*696*1286 | 1680 | ZKL304-552B-CT : 20 | 330 |
| DW-HL778S | 778 | -40~-86 | 1205*1025*1955 | 865*696*1286 | 1750 | ZKL304-552B-CT : 24 | 365 |
| DW-HL858S | 858 | -40~-86 | 1217*1025*2005 | 877*696*1378 | 1900 | ZKL304-552B-CT : 12+ ZKL304-652B-CT : 12 | 390 |
| DW-HL1008S | 1008 | -40~-86 | 1362*1025*2002 | 1022*696*1378 | 2000 | ZKL304-552B-CT : 14+ ZKL304-652B-CT : 14 | 430 |

## Android Screen Ultra-low Temperature Freezer



DW-HL1008SA

Targeted Refrigeration | Unique Refrigeration Circuit | Energy Saving Environmental Protection | VIP Plus Vacuum Insulation Panel

### 7" LED Screen Control System
· The 7" Android HD touch screen has clear display,user-friendly interface and more accurate temperature control, with Bluetooth, Wi-Fi and other functions, more convenient operation and more comprehensive functions;
· The high-precision microcomputer control system and platinum resistor sensors enable users to set temperature inside the cabinet within a range from -40 to -86°C.

### Refrigeration System
· The imported high-efficiency compressor and EBM fan are energy-saving and highly efficient;
· The large finned condenser with a space between fins≤2mm, providing affective heat dissipation.
· DW-HL678SA/778SA/858SA/1008SA with twin-compressor, if one is damaged, the other one could keep the temperture at -70°C stably.
· Standard with VIP board for high efficiency cooling performance. Door with hot gas pipe surrounding for defrost.

### Security System
· The perfect audible & visual alarm system : high and low temperature ,sensor failure ,power failure , low battery ,door ajar ,main board communication error ,high ambient temperature ,condenser overheating alarm, built-in datalogger USB failure, System failure alarm, optional remote alarm etc;
· The compressor start delay and stopping interval protection can ensure reliable operation;
· Both the touch screen controller and keyboard controller have password protection which can prevent any adjustment of operatiion without permission;

### Human-oriented Design
· The new designed assisting handle and vaccum release port let the freezer be operated single-handed to open and close the outer door.
· The newly added file box makes recording easier and more convenient.
· The liner made from galvanized steel(optional stainless steel) for medical use is low- temperature tolerant andcorrosion-resistant, which has a long service life and is easy to clean;
· The universal casters and leveling feet design are more convenient for movement and fixation.

### Wifi
Connect WiFi to upload data to the cloud space, monitor the device, check the status of the freezer faster, and ensure the safety of the samples.

| Model | Effective Volume (L) | Temperature(°C) | External Dimensions (W*D*H, mm) | Internal Dimensions (W*D*H, mm) | Input Power (W) | Inventory Rack ( Model & Quantity) | Net Weight (Kg) |
|---|---|---|---|---|---|---|---|
| DW-HL398SA | 398 | -40~-86 | 785*1041*1947 | 440*696*1266 | 1050 | ZKL304-552B-CT : 12 | 237 |
| DW-HL528SA | 528 | -40~-86 | 930*1041*1947 | 585*696*1266 | 1265 | ZKL304-552B-CT : 16 | 286 |
| DW-HL678SA | 678 | -40~-86 | 1090*1025*1965 | 750*696*1286 | 1680 | ZKL304-552B-CT : 20 | 330 |
| DW-HL778SA | 778 | -40~-86 | 1205*1025*1955 | 865*696*1286 | 1750 | ZKL304-552B-CT : 24 | 365 |
| DW-HL858SA | 858 | -40~-86 | 1217*1025*2005 | 877*696*1378 | 1900 | ZKL304-552B-CT : 12+ ZKL304-652B-CT : 12 | 390 |
| DW-HL1008SA | 1008 | -40~-86 | 1362*1025*2002 | 1022*696*1378 | 2000 | ZKL304-552B-CT : 14+ ZKL304-652B-CT : 14 | 426 |

## Cost-efficient Ultra-low Temperature Freezer

· *Cost-effective Freezer*
· *High performance*



DW-HL340 | DW-HL218 | DW-HL100

### Precise Temperature Control
· High-precision microcomputer temperature control system and platinum resistor temperature sensors enable users to set temperature inside the cabinet with in a range from -40°C to -86°C.

### Refrigeration System
· The imported high-efficiency compressor and EBM fan are energy-saving and highly efficient;
· The large finned condenser with a space between fins≤2mm, providing affective heat dissipation.
· Standard with VIP PLUS Vacuum Insulation Panel for high efficiency cooling performance. Door with hot gas pipe surrounding for defrost.

### Security System
· The perfect audible & visual alarm system : high and low temperature ,senor failure ,power failure , low battery ,door ajar ,main board communication error , high ambient temperature , built-in datalogger USB failure, optional remote alarm etc;
· The compressor start delay and stopping interval protection can ensure reliable operation;
· Both the controller and keyboard controller have password protection which can prevent any adjustment of operatiion without permission;

### Human-oriented Design
· The door with new-type assisting door handle to be opened easily;
· Door handle with lock for safety operation.
· With high-quality Galvanized steel sheet(optional stainless steel) interior and 304 stainless steel shelf, low temperature resistance anti-corrosion for long service life andeasy cleaning;
· Universal wheels easy for movement and fixation.

| Model | Effective Volume (L) | Temperature(°C) | External Dimensions (W*D*H, mm) | Internal Dimensions (W*D*H, mm) | Power (W) | Freezer Rack ( Model & Quantity) | Net Weight (Kg) |
|---|---|---|---|---|---|---|---|
| DW-HL100 | 100 | -40~-86 | 1066*751*820 | 450*439*514 | 900 | ZKL304-432B-CT : 3+ ZKL304-332B-CT : 3 | 145 |
| DW-HL218 | 218 | -40~-86 | 862*976*1555 | 470*580*767 | 950 | ZKL304-542B-CT : 3 ZKL304-642B-CT : 3 | 218 |
| DW-HL340 | 340 | -40~-86 | 777*873*1967 | 470*578*1250 | 1100 | ZKL304-542B-CT : 9 ZKL304-432B-CT : 3 | 208 |

## · Horizontal Series · Intelligent Cooling · Speed Cooling · Energy Saving

### High-precision Temperature Control
· Digital temperature display; display inner temperature, power and voltage, ambient temperature at the same time.
· 2 inches high-brightness digital temperature display; microprocessor-based temperature controller, inner temperature can be set from -40°C to -86°C.

### Refrigeration System
· Applied with Secop (Danfoss) compressor, single compresor system with target mixture refrigerant to reduce noise and improve the cooling temperature come to -86°C stably and effectively.

### Security System
· The perfect audible & visual alarm system :High/low temperature , sensor failure,power failure , low battery ,door ajar , high ambient temperature , main board communication error , condenser overheating alarm, built-in datalogger USB failure, optional remote 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 safety sample storage.

### Human-oriented Design
· Stainless steel interior, Outer is painted steel panel, 4 universal Casters for easy handing.
· Front opening lockable door with full height handle, with vacuum release port for easy open during cooling operation.
· Two-times foaming technology. 110mm foaming insulation with VIP board for better temperature performance.

**DW-HW50**

### 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.
· Two-times foaming technology. 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 turn-on delay and stopping interval protection function 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 cab be opened easily
· SUS304 interior, low temperature resistance and corrosion resistance, easier cleaning.
· Universal caster with braker, easy for movement and fixation.

**DW-HW138**

| Model | Effective Volume (L) | Temperature(°C) | External Dimensions (W*D*H, mm) | Internal Dimensions (W*D*H, mm) | Power (W) | Inventory Rack ( Model & Quantity) | Net Weight (Kg) |
|---|---|---|---|---|---|---|---|
| DW-HW50 | 50 | -40~-86 | 650*606*1080 | 430*305*425 | 720 | ZKW-304-7-2 : 6 | 74 |
| DW-HW138 | 138 | -40~-86 | 1320*890*1020 | 490*470*582 | 925 | ZKW304-10-2 : 9 | 200 |
| DW-HW328 | 328 | -40~-86 | 2005*890*1020 | 1200*470*582 | 1042 | ZKW304-10-2 : 24 | 280 |
| DW-HW668 | 668 | -40~-86 | 2033*1190*1037 | 1200*815*610 | 1904 | ZKW304-10-2 : 40 | 352 |

## Undercounter Freezer

### High-precision Temperature Control
· Digital temperature display; display inner temperature, power and voltage, ambient temperature through the integrated panel at the same time.
· High-brightness digital temperature display; microprocessor-based temperature controller, Inner temperature from -40°Cto -86°C can be set according the user's requirement.

### Refrigeration System
· Applied Secop (Primary Danfoss) compressor, 1 unit to reduce noise and improve the cooling performance.
· Door surrounded with hot gas pipe for better defrost.
· With 110mm foaming insulation including Vacuum Isolated Panel for high-efficiency cooling performance.

### Security System
· The perfect audible & visual alarm system :High/low temperature , sensor failure, power failure , low battery ,door ajar , high ambient temperature , main board communication error , condenser overheating alarm, built-in datalogger USB failure,optional remote alarm etc.
· Startup delay and stop interval protection for compressor to ensure reliable operation;
· Keyboard lock and password protection function to prevent arbitrary adjustment of operating parameters;
· Safety door lock design, design, ensure the safety sample storage.
· Long time support back-up battery for display and alarms system during power failure for supportive safety notification.

### Human-oriented Design
· Galvanized steel interior, Outer is painted steel panel, 4 universal Casters for easy handing.
· Equipped with built-in USB datalogger for easy and permanent temperature data storage.
· Optional with freezer racks and boxes for convenient sample storage.

**DW-HL50**

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

### 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 220Vhousehold 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 sample storage.

### Human-oriented Design
· The cabinet is made of high quality structural steel plate with smart volume, which can be directly placed on the test bench for easy access to samples.
Simple and convenient control system and cabinet handle for easy operation.

**DW-HL1.8**

| Model | Effective Volume (L) | Temperature(°C) | External Dimensions (W*D*H, mm) | Internal Dimensions (W*D*H, mm) | Power (W) | Net Weight (Kg) |
|---|---|---|---|---|---|---|
| DW-HL50 | 50 | -40~-86 | 953*688*757 | 305*425*430 | 750 | 104 |

| Model | Effective Volume (L) | Temperature(°C) | External Dimensions (W*D*H, mm) | Internal Dimensions (W*D*H, mm) | Power (W) | Net Weight (Kg) |
|---|---|---|---|---|---|---|
| DW-HL1.8 | 1.8 | -40~-86 | 245*282*496 | 152*133*87 | 80 | 11 |

# -40°C Ultra-low Temperature Freezer



DW-FL90          DW-FL270          DW-FL450

DW-FL439                    DW-FL528

## High-precision Temperature Control
· Digital temperature display and temperature inside the cabinet can be set within a range from -20°C to -40°C;
· High precision microcomputer temperature control system; Platinum resistor temperature sensors ensure more precise temperature control.

## Refrigeration System
· Premium quality compressor and EBM fan are energy saving and environmental friendly;
· The refrigerating circuit with proprietary intellectual property rights ensures high efficiency and stability for temperature performance.

## Security System
· Audible & visual alarm system: high and low temperature alarm, door ajar alarm, sensor failure alarm, power failure alarm, low battery alarm,
  USB data-logger alarm, Communication failures,optional remote alarm etc.(DW-FL450/DW-FL439/DW-FL528/678/778/1008)
· The start delay and stopping interval compressor protection for reliable running;
· Keyboard lock prevent from operating parameters without permission;
· Door with lock, improving security of sample storage.
· Long time support back-up battery for display and alarms system during power failure for supportive safety notification.

## Human-oriented Design
· The cabinet is equipped with 7~14 drawers for convenient sample storage;
· The low noise design can create a comfortable work environment.
· Door  surrounded with hot gas pipe for better defrosting.
· With built-in USB data-logger for more than 1 year which make the temperature data storage more easier(For models standard with USB).

| Model | Effective Volume (L) | Temperature(°C) | External Dimensions (W*D*H, mm) | Internal Dimensions (W*D*H, mm) | Input Power (W) | Net Weight (Kg) |
|---|---|---|---|---|---|---|
| DW-FL90 | 90 | -20~-40 | 700*669*854 | 500*485*532 | 370 | 54 |
| DW-FL270 | 270 | -20~-40 | 700*640*1792 | 500*460*1235 | 400 | 90 |
| DW-FL439 | 439 | -20~-40 | 910*755*1945 | 650*547*1305 | 605 | 175 |
| DW-FL450 | 450 | -20~-40 | 810*735*1960 | (650*570*627)*2 | 840 | 144 |
| DW-FL528 | 528 | -20~-40 | 930*1041*1947 | 585*696*1266 | 568 | 234 |
| DW-FL678 | 678 | -20~-40 | 1088*1010*1967 | 750*696*1286 | 885 | 258 |
| DW-FL778 | 778 | -20~-40 | 1205*1025*1955 | 865*696*1286 | 898 | 286 |
| DW-FL1008 | 1008 | -20~-40 | 1360*1006*1980 | 1022*696*1378 | 1149 | 320 |

# -40°C Ultra-low Temperature Freezer

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



DW-FW360                    DW-FW270                    DW-FW150

Strong Refrigeration,        Environmental          High Precision          Humanized Design
Professional Tuna Storage   Refrigeration System   Temperature Control System

## Control System
· High precision microcomputer temperature control, more accurate；
· Chamber temperature can be set within a range from -20 to -40°C；
· High-precision microcomputer temperature control system and platinum resistor temperature sensors ensure more precise temperature control.

## Refrigeration System
· International famous brand compressor and famous fan can guarantee fast cooling , energy-saving and  environmentally friendly；
· CFC free polyurethane foaming technology, perfect insulation performance. Hot gas surrounding pipe to prevent from condensation.

## Security System
· The start delay and stopping interval protection function can ensure reliable operation；
· The well-developed security system with multiple audible & visual alarm function：high& low temperature alarm,sensor failure alarm, power
  failure alarm, low battery alarm；
· Door with key lock to prevent opening without permission.

## Thermal Insulation Syetem
· 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；
· 110mm foaming insulation for better temperature performance.

## Human-oriented Design
High-quality steel plate structure with powder coating, stainless steel liner and low noise design can create a comfortable  work environment.

## ✓ 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 | Effective Volume (L) | Temperature(°C) | External Dimensions (W*D*H, mm) | Internal Dimensions (W*D*H, mm) | Input Power (W) | Net Weight (Kg) |
|---|---|---|---|---|---|---|
| DW-FW150 | 150 | -20~-40 | 811*775*929 | 585*465*651 | 288 | 60 |
| DW-FW270 | 270 | -20~-40 | 1245*775*929 | 1019*465*651 | 315 | 77 |
| DW-FW360 | 360 | -20~-40 | 1534*775*929 | 1308*465*651 | 360 | 98 |

# -10~-25°C Biomedical Freezer


DW-YL270


DW-YL450


DW-YL90


DW-YW508A

## High-precision Temperature Control
· Digital temperature display ，inner temperature can be set within a range from -10°C to -25°C;
· The high-precision microcomputer temperature control system and platinum resistor temperature sensors ensure more precise temperature control.

## Refrigeration System
· The compressor supplied by an international famous brand and EBM fan are energy-saving and environmentally friendly;
· The refrigerating circuit with proprietary intellectual property rights ensures high efficiency and stability. Hot gas pipe surrounding to prevent from condensation.
  DW-YL450 with 2 cooling system for separate chamber temperature control.

## Security System
· The well-developed audible & visual alarm system makes it safer for storage：hign and low temperature alarm, door ajar alarm, sensor failure alarm. DW-YL450 also have power failure alarm , low battery alarm and USB date logger failure alarm.
· The start delay and stopping interval protection function can ensure reliability in running;
· The keyboard lock function can prevent any adjustment of operating parameters without permission;
· The door is equipped with a lock,improving security of sample storage.

## Human-oriented Design
· The built-in door gasket is dustproof and easy to clean; DW-YL450 standard with USB built-in datalogger for temperature data record.
· The cabinet is equipped with drawers that are convenient for storage of samples;
· The low noise design can create a comfortable work environment.

| Model | Effective Volume (L) | Temperature(°C) | External Dimensions (W*D*H, mm) | Internal Dimensions (W*D*H, mm) | Power (W) | Net Weight (Kg) |
|---|---|---|---|---|---|---|
| DW-YL90 | 90 | -10~-25 | 700*669*854 | 500*485*532 | 51 | 54 |
| DW-YL270 | 270 | -10~-25 | 700*640*1792 | 500*460*1235 | 135 | 90 |
| DW-YL450 | 450 | -10~-25 | 810*735*1960 | (650*570*627)*2 | 206 | 136 |
| DW-YW226A | 226 | -10~-25 | 1115*610*890 | 954*410*703 | 150 | 50 |
| DW-YW358A | 358 | -10~-25 | 1350*785*880 | 1220*545*673 | 121 | 59 |
| DW-YW508A | 508 | -10~-25 | 1650*735*880 | 1504*545*673 | 320 | 74 |

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


YCD-EL300


YCD-EL/FL289


YCD-EL/FL450


YCD-EL/FL519

## High-precision Temperature Control
· High-precision microcomputer temperature control system;
· Multiple alarm sensors for High and low temperature, ambient temperature and evaporator temperature ensuring the safe and stable running.
· High brightness digital temperature display with 0.1°Cdisplay precision;

## Refrigeration System
· Equipped with high-efficiency compressor and international brand fan for energy save and silent running.
· 2 separate cooling systems (2 compressors): one ensuring temperature from 2°C~8°C for the upper chamber, the other one keeping the temperature from -10°C to -26°C/-40°C settable for the down chamber. If one compressor damaged, the other one could still work normally.

## Security System
· Audible and visual alarm system: high and low temperature alarm, high ambient alarm, sensor failure alarm, door ajar alarm, power failure alarm, low battery alarm, data-logger failure alarm,optional remote alarm etc.
· External door handle and padlock to prevent unauthorized opening.
· Long time support back-up battery for display and alarms system during power failure.

## Human-oriented Design
· Drawers for convenient sample storage;
· Shelves with divided sections;
· Door gasket surrounded with hot gas pipe for better defrosting.
· With built-in USB data-logger for temperature data storage more than 600 days（For models standard with USB）.

| Model | Effective Volume (L) | Temperature(°C) | External Dimensions (W*D*H, mm) | Internal Dimensions (W*D*H, mm) | Power (W) | Net Weight (Kg) |
|---|---|---|---|---|---|---|
| YCD-EL300 | 300 | R:2~8/F:-10~-26 | 700*640*1876 | R:600*510*657/F:500*460*535 | 296 | 87 |
| YCD-FL300 | 300 | R:2~8/F:-10~-40 | 700*640*1876 | R:600*510*657/F:500*460*535 | 300 | 100 |
| YCD-EL289 | 289 | R:2~8/F:-10~-26 | 745*650*1845 | R:600*510*670/F:500*460*505 | 268 | 140 |
| YCD-FL289 | 289 | R:2~8/F:-10~-40 | 745*650*1845 | R:600*510*670/F:500*460*505 | 352 | 143 |
| YCD-EL450 | 450 | R:2~8/F:-10~-26 | 810*745*1960 | (650*570*627)*2 | 302 | 144 |
| YCD-FL450 | 450 | R:2~8/F:-10~-40 | 810*745*1960 | (650*570*627)*2 | 400 | 146 |
| YCD-EL519 | 519 | R:2~8/F:-10~-26 | 910*740*1972 | R:750*610*740/F:650*560*565 | 340 | 186 |
| YCD-FL519 | 519 | R:2~8/F:-10~-40 | 910*740*1972 | R:750*610*740/F:650*560*565 | 422 | 186 |

## Real Air Cooling

Vortex multi-channel refrigeration system, finned evaporator, completely solve the problem of frosting, temperature uniformity greatly improved.

## Real Energy Saving

Equipped with "M+ energy core" power management system, combined with all-air cooling design, the energy saving efficiency can be improved by more than 40%.

## Real Visibility

Electric heating + low-e design, double considerations, the glass door anti-condensation effect is better.

## Real Safety

7 sensors channel temperature sensor, high temperature control accuracy, almost 0 fluctuation, safer storage.

### Small size refrigerator



| YC-55L | YC-55EL | YC-75L | YC-75EL | YC-130L |

### 5 series Pharmacy Refrigerator



| YC-315L | YC-395L | YC-395EL | YC-525L | YC-650L |

| YC-725L | YC-1015L/EL | YC-1320L | YC-1505L |

## Intelligent Temperature Control

· Equipped with high-precision microcomputer temperature control system and high-brightness digital temperature display with a display precision of 0.1°C;
· Equipped with a remote alarm access port and 485 data access port.

## Security System

· The well-developed audible & visual alarm,system with multiple audible & visual alarm functions: high temperature alarm, low temperature alarm, sensor failure alarm, door ajar alarm,power failure alarm,low battery alarm,USB data-logger failure alarm,remote alarm etc.;
· The compressor start delay and stopping interval protection function can ensure reliability operation;
· The door is equipped with a lock, preventing it from opening accidentally.

## Refrigeration System

Equipped with compressor supplied by international famous brand, high-efficiency air-cooled condenser and finned evaporator, ensuring fast refrigeration.

## Human-oriented Design

· Equipped with high-quality shelves made from PVC-coated steel wire with tag cards and classification marks, which are easy to clean,;
· Equipped with a built-in USB datalogger, which can be used for storing data for 2 years and flash automatically in PDF format.
· Door heating modes: automatic, continuous and off mode, to prevent glass door from condensation;
· Optional with temperature printer.

| Model | Effective Volume (L) | Temperature(°C) | External Dimensions (W*D*H, mm) | Internal Dimensions (W*D*H, mm) | Power (W) | Number of Shelves | Net Weight (Kg) |
|---|---|---|---|---|---|---|---|
| YC-55L | 55 | 2~8 | 540*560*632 | 444*440*404 | 122 | 2 | 35 |
| YC-75L | 75 | 2~8 | 540*560*764 | 444*440*536 | 115 | 3 | 41 |
| YC-130L | 130 | 2~8 | 554*450*383+554*318*205 | 650*625*810 | 150 | 3 | 51 |
| YC-315L | 315 | 2~8 | 650*673*1762 | 580*533*1122 | 220 | 4+1 | 87 |
| YC-395L | 395 | 2~8 | 650*673*1992 | 580*533*1352 | 280 | 6+1 | 95 |
| YC-525L | 525 | 2~8 | 720*810*1961 | 610*685*1264 | 310 | 6 | 148 |
| YC-650L | 650 | 2~8 | 715*890*1987 | 605*725*1515 | 441 | 5 | 157 |
| YC-725L | 725 | 2~8 | 1093*758*1972 | 980*595*1260 | 540 | 12 | 171 |
| YC-1015L | 1015 | 2~8 | 1180*900*1990 | 1070*670*1515 | 590 | 12 | 223 |
| YC-1320L | 1320 | 2~8 | 1450*830*1987 | 1340*670*1514 | 908 | 10 | 203 |
| YC-1505L | 1505 | 2~8 | 1795*830*1990 | 1685*670*1514 | 1400 | 18 | 322 |

# 2~8°C Explosion-proof Refrigerator



· National high level certification
 of **Ex d ib MB llB T4**
· International standard
· Intelligent security

**YC-360EL**

## Control System
· The high-precision microcomputer temperature control system and platinum resistor temperature sensors enable user to set temperature inside the cabinet within a range from 2°C to 8°C；
· 1 inch high brightness digital temperature display with 0.1°C precision.

## Refrigeration System
· CFC free refrigerant, international famous high efficiency compressor, energy-saving and highly efficient；
· EBM fan, strong and evenly air flow, energy saving and green.

## Security System
· The whole machine is explosion-proof, the fan and control board are isolated and explosion-proof, and the compressor is sealed and explosion-proof；
· The condenser has stable heat dissipation performance, which greatly reduces the influence of dust and other environments on heat dissipation；
· The well-developed security system with multiple audible & visual alarm function：sensor failure alarm, high/ low temperature alarm etc. to ensure the storage sample safety；
· Got China national explosion-proof certification, explosion-proof grade:Ex d(ib)mb IIB T4.

## Human-oriented Design
· The main cabinet is made of cold rolled steel and the interior is with SUS 304 , which is easy to clean and corrosion resistant.
· 4 removable and adjustable shelves; The lower part of the cabinet has 2 large drawers to meet the maximum storage need.
· Low noise design to create a comfortable working environment.

### ☑ Scope of Application
The product is used for storing inflammable, explosive, easily vaporized, easily corroded and other chemical reagents, laboratory reagents and other samples, and is suitable for efficient laboratories, scientific research units of the experimental sites.

| Model | Effective Volume (L) | Temperature(°C) | External Dimensions (W*D*H, mm) | Internal Dimensions (W*D*H, mm) | Input Power (W) | Net Weight (Kg) |
|---|---|---|---|---|---|---|
| YC-360EL | 360 | 2~8 | 640*696*1880 | 530*565*1312 | 360 | 133 |

# 2~8°C Ice Lined Refrigerator

*Intelligent Control & Constant Temperature*
*Multiple Alarms Bring More Security*
*WHO/PQS*



**YC-150EW**          **YC-275EW**

## Constant Temperature under Intelligent Control
High-precision micro-processed temperature control system with built-in high-sensitivity temperature sensors, ensuring a constant temperature inside;

## Control System
· 4-digit LED high-brightness digital display；
· Temperature range from 2°C to 8°C, and the precision of temperature display is 0.1°C.

## Refrigeration system
· Premium compressor and built-in ice packs inside of the cabinet to keep the chamber temperature within 2°C to 8°C
· HCFC-free Refrigerant.
· Be characterized by fast refrigeration and low noise.

## Security System
· The well-developed alarm system: high and low temperature alarm, sensor failure alarm, power failure alarm, low battery alarm;
· The compressor start delay and stopping interval protection function can ensure reliability operation;
· Door with a lock, preventing it from unauthorized opening;
· Keep the temperature between 2°C~8°C at least 20+ hours during power failure at the ambient temperature with 43°C.
· 72 hours back-up battery for display and alarms system during power failure for supportive safety notification.

## Human-oriented Design
· The built-in door handle can prevent damage during transportation and save space.
· There are 4 universal wheels and 2 casters with brake, which makes it can be moved and fixed easily.
· Stainless Steel interior, Corrosion resistant and easy to clean.

### ☑ Scope of Application
Suitable for storage of biological products, vaccines, drugs, reagents, etc. Suitable for use in pharmacies, pharmaceutical factories, hospitals, centers for disease prevention & control, clinics, etc.

| Model | Effective Volume (L) | Temperature(°C) | External Dimensions (W*D*H, mm) | Internal Dimensions (W*D*H, mm) | Power (W) | Net Weight (Kg) |
|---|---|---|---|---|---|---|
| YC-150EW | 150 | 2~8 | 811*775*929 | 585*465*651 | 220 | 76 |
| YC-275EW | 275 | 2~8 | 1245*775*929 | 1019*465*651 | 255 | 87 |

# 4±1°C Blood Bank Refrigerator

*Precise Temperature Control Safeguarding Security of Blood*



| XC-88L | XC-168L | XC-268L | XC-368L | XC-618L |

### Control Panel
The digital average temperature display facilitates observation and monitoring of temperature inside the cabinet, and the precision of temperature display reaches 0.1°C.

### Refrigeration System
Equipped with environmentally-friendly Freon-free refrigerant and compressor supplied by an international famous brand, the refrigerator is characterized by fast refrigeration and low noise.

### Security System
· The well-developed alarm system (high /low temperature , door opening , sensor  failure , power failure ) makes it  safer for storage;
· The compressor start delay and stopping interval protection function can ensure reliability operation;
· The door is equipped with lock, preventing it from unauthorized opening.
· 72 hours back-up battery for display and alarms system during power failure for supportive safety notification.

### Human-oriented Design
· The high-quality steel wire shelves are easy to clean and convenient for storage and removal of samples;.
· There are four universal casters at the bottom of the cabinet,front two casters  which have the function of self-locking.
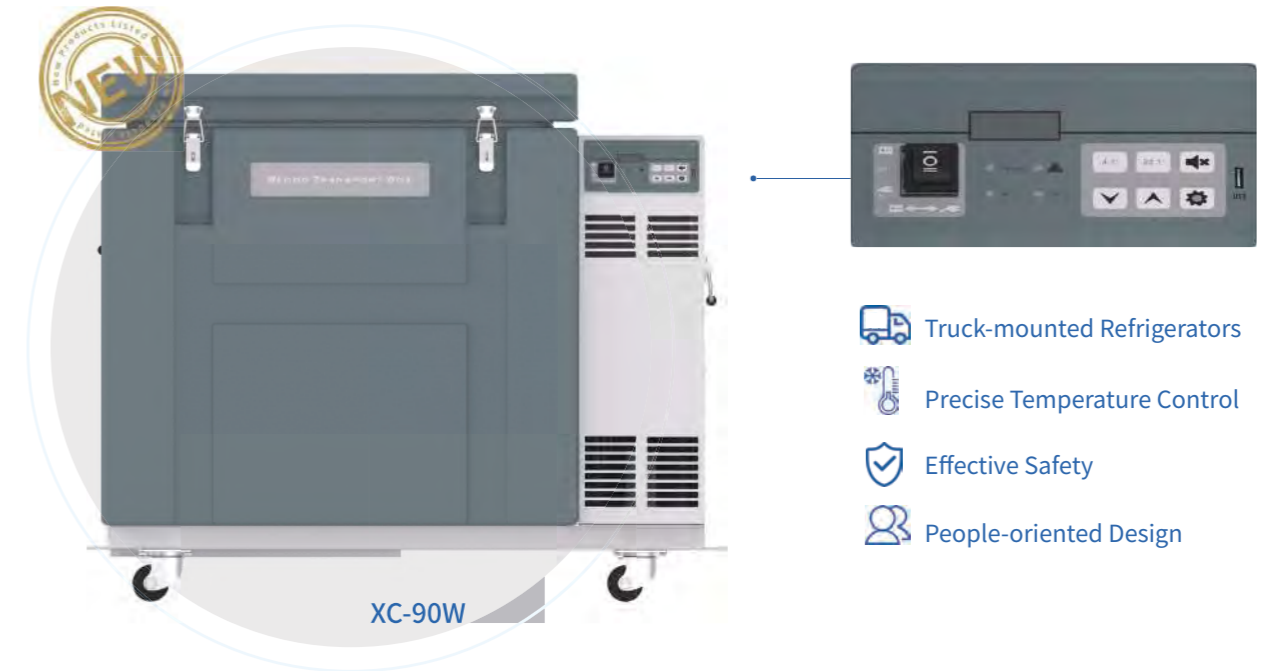
### ✔ Scope of Application
Suitable for storage of whole blood, blood platelets, red blood cells, biological products, vaccines, drugs, reagents, etc. Suitable for use in blood banks, hospitals, research institutions, disease prevention & control centers, etc.

| Model | Effective Volume (L) | Temperature(°C) | External Dimensions (W*D*H, mm) | Internal Dimensions (W*D*H, mm) | Input Power (W) | Number of Shelves | Net Weight (Kg) |
|---|---|---|---|---|---|---|---|
| XC-88L | 88 | 4 | 450*550*1505 | 340*400*780 | 520 | 3 | 100 |
| XC-168L | 168 | 4 | 658*772*1283 | 525*550*690 | 230 | 3 | 106 |
| XC-268L | 268 | 4 | 640*760*1864 | 530*490*1145 | 400 | 5 | 125 |
| XC-368L | 368 | 4 | 806*723*1870 | 677*493*1145 | 528 | 5 | 163 |
| XC-618L | 618 | 4 | 818*912*1978 | 685*690*1318 | 689 | 6 | 179 |

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

*Constant temperature intelligent control protects blood safety*



XC-90W

- 🚚 Truck-mounted Refrigerators
- Precise Temperature Control
- Effective Safety
- People-oriented Design

### High-precision Temperature Control
· LCD display, easy to accurately observe the temperature inside the monitoring refrigerator, temperature display accuracy of 0.1 °C
· High precision temperature sensors, automatic temperature control module, keeping the temperature control accuracy in the refrigerator up to ±1 °C

### Refrigeration System
· International well-known brand compressor, high-efficiency condensation fan, overall noise of 47.6 dB, compressor using AC power supply, matching vehicle batteries.
· Forced-air cooling circulation temperature control, heating wire for effective

### Security System
· Completed sound and light alarm system: high /low temperature alarm, sensor failure alarm, low battery  alarm.
· Operational with AC power through the car for transport application.
· 72 hours back-up battery for display and alarms system during power failure for supportive safety notification.

### Human-oriented Design
· Full large storage space, both sides are equipped with handles, 4 casters for easy movement, door with lock to prevent from unauthorized opening.
· 4 baskets inside for easy inventory application.

### ✔ 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 & control centers, etc.

| Model | Effective Volume (L) | Temperature(°C) | External Dimensions (W*D*H, mm) | Internal Dimensions (W*D*H, mm) | Power (W) | Net Weight (Kg) |
|---|---|---|---|---|---|---|
| XC-90W | 90 | +4/+22 (±1) | 1080*565*856 | 516*365*500 | 110 | 75 |

## Vertical Freezer Rack | Side-access Freezer Rack (Including handle size)

· Frame and interior grids are made with 304 stainless
  steel for durability and better appearance.
· No sharp edges to avoid risk of injury.
· Steel plate thickness: combination of 0.5 and 1.0mm.
· Side-access design makes it convenient and economic.
· Suitable for common low temperature freezers.
· Perfectly suitable for standard sized freezer boxes.
· The front side is printed with meiling stenciled seal.
· Provide personalized customization.

| Model | | Layer | Column | Size (W*D*H) |
|---|---|---|---|---|
| Material：SUS201 | Material：SUS304 | | | |
| ZKL201-332B-FG | ZKL304-332B-FG | 3 | 3 | 140*413*180 |
| ZKL201-432B-FG | ZKL304-432B-FG | 4 | 3 | 140*413*235 |
| ZKL201-442B-FG | ZKL304-442B-FG | 4 | 4 | 140*549*235 |
| ZKL201-452B-FG | ZKL304-452B-FG | 4 | 5 | 140*685*235 |
| ZKL201-532B-FG | ZKL304-532B-FG | 5 | 3 | 140*413*293 |
| ZKL201-542B-FG | ZKL304-542B-FG | 5 | 4 | 140*549*293 |
| ZKL201-552B-FG | ZKL304-552B-FG | 5 | 5 | 140*685*293 |
| ZKL201-632B-FG | ZKL304-632B-FG | 6 | 3 | 140*413*351 |
| ZKL201-642B-FG | ZKL304-642B-FG | 6 | 4 | 140*549*351 |
| ZKL201-652B-FG | ZKL304-652B-FG | 6 | 5 | 140*685*351 |
| ZKL201-742B-FG | ZKL304-742B-FG | 7 | 4 | 140*549*409 |

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

· Made with 304 stainless steel.
· Steel plate thickness:Combination of 0.5mm and 1.0mm.
· Siliding-drawer design for convenient operations
· Low temperature rated plastic handles are standard
  on draw racks for ese 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 Meling's seal.
· Provide personalized customization.

| Model | | Layer | Column | Size (W*D*H) |
|---|---|---|---|---|
| Material：SUS201 | Material：SUS304 | | | |
| ZKL201-332B-CT | ZKL304-332B-CT | 3 | 3 | 140*413*180 |
| ZKL201-432B-CT | ZKL304-432B-CT | 4 | 3 | 140*413*235 |
| ZKL201-442B-CT | ZKL304-442B-CT | 4 | 4 | 140*549*235 |
| ZKL201-452B-CT | ZKL304-452B-CT | 4 | 5 | 140*685*235 |
| ZKL201-532B-CT | ZKL304-532B-CT | 5 | 3 | 140*413*293 |
| ZKL201-542B-CT | ZKL304-542B-CT | 5 | 4 | 140*549*293 |
| ZKL201-552B-CT | ZKL304-552B-CT | 5 | 5 | 140*685*293 |
| ZKL201-632B-CT | ZKL304-632B-CT | 6 | 3 | 140*413*351 |
| ZKL201-642B-CT | ZKL304-642B-CT | 6 | 4 | 140*549*351 |
| ZKL201-652B-CT | ZKL304-652B-CT | 6 | 5 | 140*685*351 |
| ZKL201-742B-CT | 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-inch and 1-inch freezer boxes and international standardized
  freezers.
· Chest freezer rack is simple in structure and easy to use, especially suit-
  able for liquid nitrogen tank sample storage.

| Model | | Layer | Size (W*D*H) |
|---|---|---|---|
| Material：SUS201 | Material：SUS304 | | |
| ZKW201-6B-2 | ZKW304-6B-2 | 6 | 140*143*347 |
| ZKW201-7B-2 | ZKW304-7B-2 | 7 | 140*143*404 |
| ZKW201-8B-2 | ZKW304-8B-2 | 8 | 140*143*461 |
| ZKW201-9B-2 | ZKW304-9B-2 | 9 | 140*143*518 |
| ZKW201-10B-2 | ZKW304-10B-2 | 10 | 140*143*575 |
| ZKW201-11B-2 | ZKW304-11B-2 | 11 | 140*143*632 |
| ZKW201-12B-2 | ZKW304-12B-2 | 12 | 140*143*689 |

2-inch 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

· Use medical-grade transparent polypropylene material.
· temperature range from- 90 °C to 121 °C, can be used for low temperature storage or autoclave.
· Perfect match low temperature freezer, avoid appearing sequence disorder,greatly improve space utilization .
· Transparent cover designed for easy observation of the sample in the box.
· Cover with grid and code for easy inventory management anderror 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

· Use medical-grade transparent polycarbonate material, wear resistant.
· Temperature range from -196 °C to 121 °C, can be 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℃ ~ 121℃, 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℃ ~ 121℃, 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℃ ~ 121℃, 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.



Side-access:5 Layers and 3 Columns ( ZKL304-532-FG )

Side-access:4 Layers and 3 Columns ( ZKL304-432-FG)

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

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



### Side-access Freezer Rack
· Made of 304 stainless steel for durability and better appearance.
· No sharp edges to avoid risk of injury.
· Steel plate thickness:combination of 0.5 and 1 mm.
· Side-access design makes it convenient and economic.

### Sliding-drawer Freezer Rack
· Made of 304 stainless steel for durability and better appearance.
· No sharp edges to avoid risk of injury.
· Steel plate thickness:combination of 0.6 and 1.2 mm.
· Suitable for common low temperature freezers and standard sized freezer boxes.

| Product | Model | Rack Description | Rack Dimension (W*D*H) mm | ULT  Freezer Models |
|---|---|---|---|---|
| 2 inch stainless steel rack | ZKL304-432B-FG | 2 inch stainless rack 4*3 (2 inch box*12) | 140*413*235 | DW-HL100 / 340 |
| | ZKL304-542B-FG | 2 inch stainless rack 5*4 (2 inch box*20) | 140*549*293 | DW-HL218 / 340 |
| | ZKL304-552B-FG | 2 inch stainless rack 5*5 (2 inch box*25) | 140*685*293 | DW-HL398S / 528S / 678S / 778S / 858S / 1008S/SA |
| | ZKL304-432B-CT | 2 inch stainless rack 4*3 (2 inch box*12) | 140*413*235 | DW-HL100 / 340 |
| | ZKL304-542B-CT | 2 inch stainless rack 5*4 (2 inch box*20) | 140*549*293 | DW-HL218 / 340 |
| | ZKL304-552B-CT | 2 inch stainless rack 5*5 (2 inch box*25) | 140*685*293 | DW-HL398S / 528S / 678S / 778S / 858S / 1008S /SA |

| Freezer Model | Freezer Rack Model | Rack Description | Freezer Rack Quantity | Freezer Box Quantity | Cryo Tube Quantity (2ml) |
|---|---|---|---|---|---|
| DW-HL50 | ZKL304-332B-CT | 2 inch stainless steel sliding -drawer freezer rack  3*3 (2 inch freezer box*9) | 4 | 36 | 3600 |
| | ZKL304-632B-CT | 2 inch stainless steel sliding -drawer freezer rack  6*3 (2 inch freezer box*18) | 2 | 36 | 3600 |
| DW-HL100 | ZKL304-432B-CT | 2 inch stainless steel sliding -drawer freezer rack  4*3 (2 inch freezer box*12) | 3 | 63 | 6300 |
| | ZKL304-332B-CT | 2 inch stainless steel sliding -drawer freezer rack  3*3 (2 inch freezer box*9) | 3 | 63 | 6300 |
| | ZKL304-432B-FG | 2 inch stainless steel side -access freezer rack  4*3 (2 inch freezer box*12) | 3 | 63 | 6300 |
| | ZKL304-332B-FG | 2 inch stainless steel side -access freezer rack  3*3 (2 inch freezer box*9) | 3 | 63 | 6300 |
| DW-HL218 | ZKL304-542B-CT | 2 inch stainless steel sliding -drawer freezer rack  5*4 (2 inch freezer box*20) | 3 | 132 | 13200 |
| | ZKL304-642B-CT | 2 inch stainless steel sliding -drawer freezer rack  6*4 (2 inch freezer box*24) | 3 | 132 | 13200 |
| | ZKL304-542B-FG | 2 inch stainless steel side -access freezer rack  5*4(2 inch freezer box*20) | 3 | 132 | 13200 |
| | ZKL304-642B-FG | 2 inch stainless steel side -access freezer rack  6*4 (2 inch freezer box*24) | 3 | 132 | 13200 |
| DW-HL340 | ZKL304-542B-CT | 2 inch stainless steel sliding -drawer freezer rack  5*4 (2 inch freezer box*20) | 9 | 216 | 21600 |
| | ZKL304-432B-CT | 2 inch stainless steel sliding -drawer freezer rack  4*3 (2 inch freezer box*12) | 3 | 216 | 21600 |
| | ZKL304-542B-FG | 2 inch stainless steel side -access freezer rack  5*4(2 inch freezer box*20) | 9 | 216 | 21600 |
| | ZKL304-432B-FG | 2 inch stainless steel side -access freezer rack  4*3 (2 inch freezer box*12) | 3 | 216 | 21600 |
| DW-HL398S/SA | ZKL304-552B-CT | 2 inch stainless steel sliding -drawer freezer rack  5*5 (2 inch freezer box*25) | 12 | 300 | 30000 |
| | ZKL304-552B-FG | 2 inch stainless steel side -access freezer rack  5*5 (2 inch freezer box*25) | 12 | 300 | 30000 |
| DW-HL528S/SA | ZKL304-552B-CT | 2 inch stainless steel sliding -drawer freezer rack  5*5 (2 inch freezer box*25) | 16 | 400 | 40000 |
| | ZKL304-552B-FG | 2 inch stainless steel side -access freezer rack  5*5 (2 inch freezer box*25) | 16 | 400 | 40000 |
| DW-HL678S/SA | ZKL304-552B-CT | 2 inch stainless steel sliding -drawer freezer rack  5*5 (2 inch freezer box*25) | 20 | 500 | 50000 |
| | ZKL304-552B-FG | 2 inch stainless steel side -access freezer rack  5*5 (2 inch freezer box*25) | 20 | 500 | 50000 |
| DW-HL778S/SA | ZKL304-552B-CT | 2 inch stainless steel sliding -drawer freezer rack  5*5 (2 inch freezer box*25) | 24 | 600 | 60000 |
| | ZKL304-552B-FG | 2 inch stainless steel side -access freezer rack  5*5 (2 inch freezer box*25) | 24 | 600 | 60000 |
| DW-HL858S/SA | ZKL304-552B-CT | 2 inch stainless steel sliding -drawer freezer rack  5*5 (2 inch freezer box*25) | 12 | 660 | 66000 |
| | ZKL304-652B-CT | 2 inch stainless steel sliding -drawer freezer rack  6*5 (2 inch freezer box*30) | 12 | 660 | 66000 |
| | ZKL304-552B-FG | 2 inch stainless steel side -access freezer rack  5*5 (2 inch freezer box*25) | 12 | 660 | 66000 |
| | ZKL304-652B-FG | 2 inch stainless steel side -access freezer rack  6*5 (2 inch freezer box*30) | 12 | 660 | 66000 |
| DW-HL1008S/SA | ZKL304-552B-CT | 2 inch stainless steel sliding -drawer freezer rack  5*5 (2 inch freezer box*25) | 14 | 770 | 77000 |
| | ZKL304-652B-CT | 2 inch stainless steel sliding -drawer freezer rack  6*5 (2 inch freezer box*30) | 14 | 770 | 77000 |
| | ZKL304-552B-FG | 2 inch stainless steel side -access freezer rack  5*5 (2 inch freezer box*25) | 14 | 770 | 77000 |
| | ZKL304-652B-FG | 2 inch stainless steel side -access freezer rack  6*5 (2 inch freezer box*30) | 14 | 770 | 77000 |

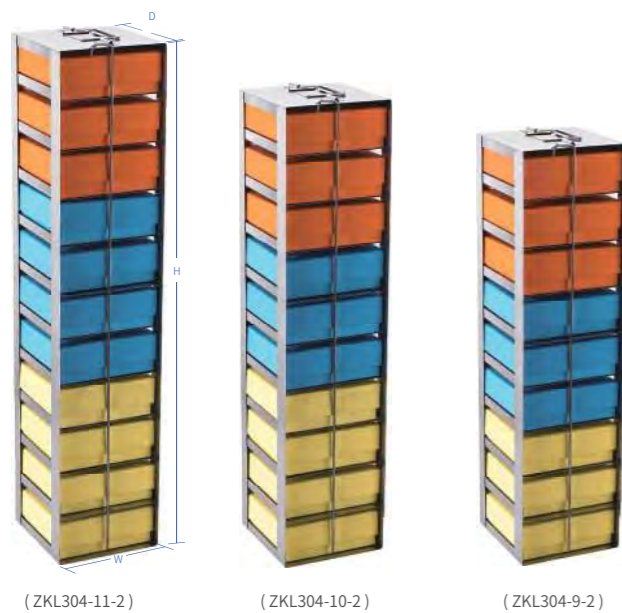*The "Cryo Tube Quantity (2ml) " of DW-HL858S/SA,DW-HL1008S/SA in this chart is the maximum storage .

## -86℃ 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.
· Suiltable for standard sized freezer boxes
· Widely used for chest ultra low freezers and nitrogen containers.



（ZKL304-11-2）　　（ZKL304-10-2）　　（ZKL304-9-2）

## -164℃ / -150℃ Chest Cryogenic Freezer Rack Matching Solution

· -150℃/-164℃ Cryogenic freezer choose stainless steel chest frozen layer rack , high strength PC frozen layer box, can withstand the temperature of -196℃~121℃;
· 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, easy to observe and find samples.



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

## -40℃ Vertical and Chest ULT Freezer Rack Matching Solution



（ZKL304-542-CT）

（ZKL304-11-2）

| Product | Model | Rack Description | Rack Dimension (W*D*H) mm | ULT Freezer Models |
|---|---|---|---|---|
| 2 inch stainless steel rack | ZKL304-9-2 | 2 inch stainless rack (2 inch box*9) | 140*143*518 | DW-HW138 / 328 |
| | ZKL304-10-2 | 2 inch stainless rack (2 inch box*10) | 140*143*575 | DW-HW668 |

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

| Freezer Model | Freezer Rack Model | Rack Description | Freezer Rack Quantity | Freezer Box Quantity | Cryo Tube Quantity (2ml) |
|---|---|---|---|---|---|
| DW-FL528 | ZKL340-542B-CT | 2 inch stainless steel sliding drawer freezer rack (2 inch freezer box*20) | 16 | 320 | 32000 |
| DW-FW150 | ZKW304-10-2 | 2 inch stainless steel chest freezer rack (2 inch freezer box*10) | 12 | 120 | 12000 |
| DW-FW270 | ZKW304-10-2 | 2 inch stainless steel chest freezer rack (2 inch freezer box*10) | 21 | 210 | 21000 |
| DW-FW360 | ZKW304-10-2 | 2 inch 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 are buy these equipments ,please confirm with the factory at first.
*The verification date of product parameters is 10.21.2021.

# Optional Features

## 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 systems to protects your samples safely.
- 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, alarm information can be transmitted through the external equipment, to ensure the storage safety of samples.

## Printer

Printer function for temperature data printing, printing every 20 minutes for 7 days of data.

# Meling Product Map

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

| DW-HL1008S/SA | DW-HL858S/SA | DW-HL778S/SA | DW-HL678S/SA | DW-HL528S/SA DW-HL398S/SA | DW-HL340 | DW-HL218 | DW-HL100 | DW-HL50 |

### -60°C Deep Freezer>>

DW-HW50 DW-HW138 DW-HW328 DW-HW668

DW-GW360 DW-GW270 DW-GW150

### -40°C Ultra-low Temperature Freezer>>

DW-FW360 DW-FW270 DW-FW150

### -40°C Ultra-low Temperature Freezer>>

DW-FL1008 DW-FL778 DW-FL678 DW-FL528 DW-FL450 DW-FL439 DW-FL270 DW-FL90

### -25°C Biomedical Freezer>>

DW-YL450 DW-YL270 DW-YL90 DW-YW226A DW-YW358A DW-YW508A

### 2~8°C Ice Lined Refrigerator>>

YC-150EW YC-275EW

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

YCD-EL/FL519 YCD-EL/FL450 YCD-EL/FL300 YCD-EL/FL289

### 2~8°C Explosion-proof Refrigerator>>

YC-360EL

### 4±1°C Blood Bank Refrigerator >>

XC-618L XC-368L XC-268L XC-168L XC-88L XC-90W

### 2~8°C Pharmacy Refrigerator

YC-1505L YC-1320L YC-1015L YC-725L YC-650L YC-525L YC-395L YC-315L YC-130L YC-75L YC-55L