

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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**Product Catalogue**

# CATALOGUE

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Meling Product Map

## 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.



# -40°C Ultra-low Temperature Freezer

# -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;
- 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

## 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

## 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-FL450	450	R:2~8/F:-10~-40	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





### 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

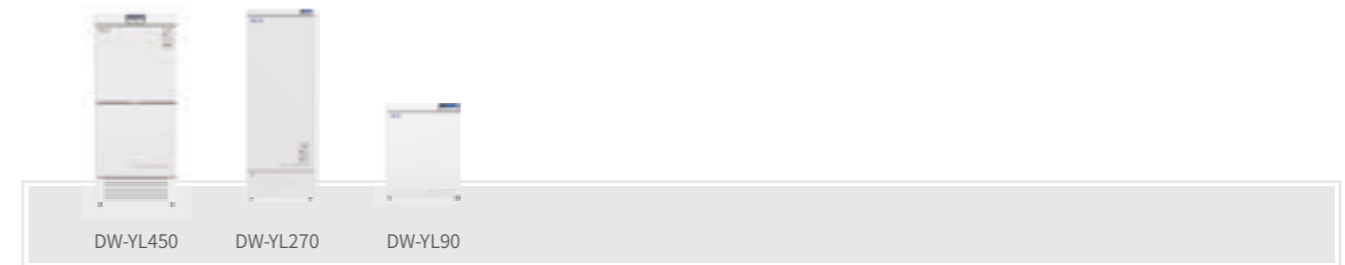
- Air circulation with finned evaporator achieves fast cooling and ensures temperature uniformity in the cabinet;
- Industrial compressor with hydrocarbon refrigerant realizes energy conservation and environmental protection;
- HC refrigerant with ultra low GWP minimize thermal radiation, meanwhile to 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

### -25°C Biomedical Freezer >>



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

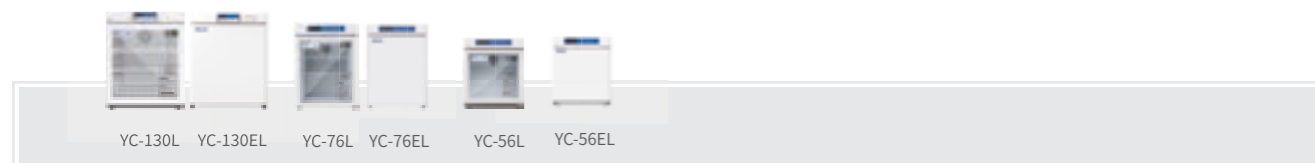


### -40°C Ultra-low Temperature Freezer >>



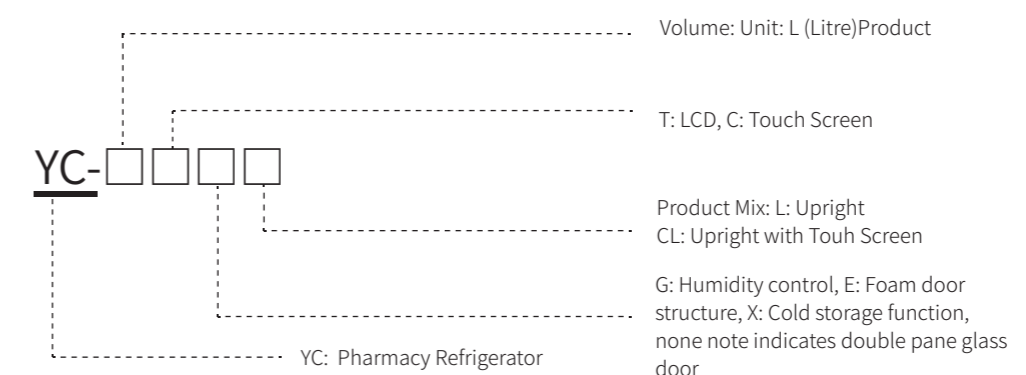
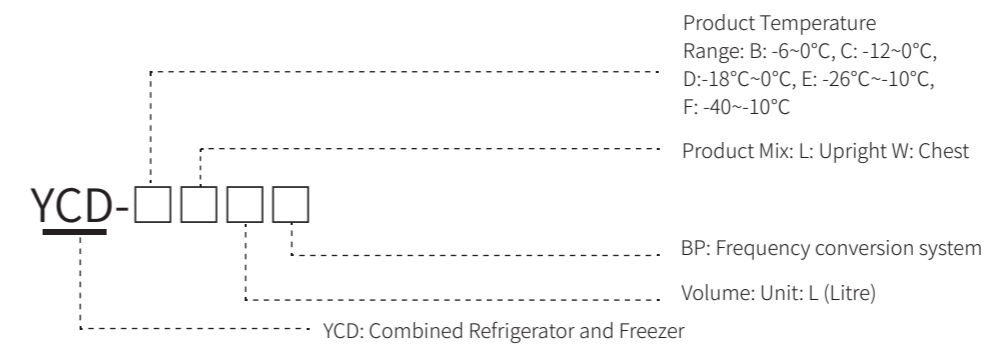
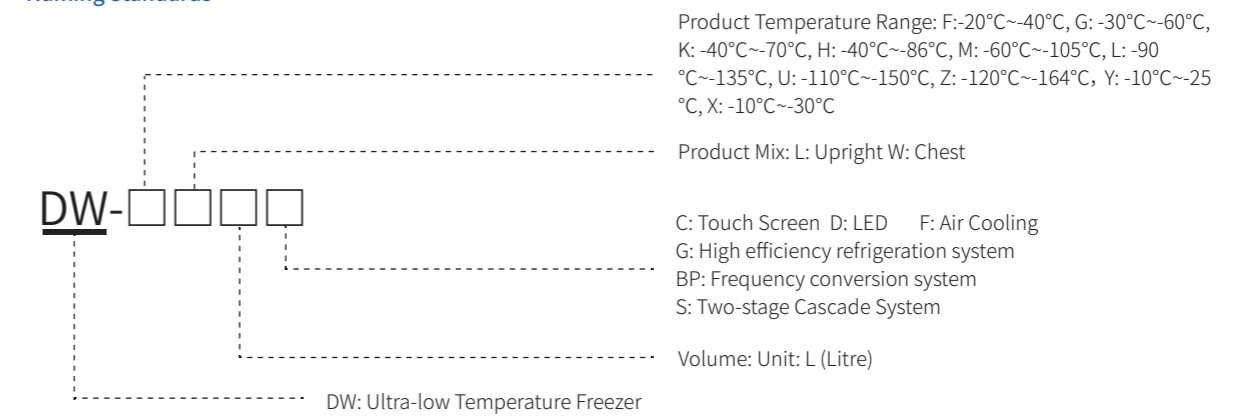
### 2~8°C Pharmacy Refrigerator >>





## Appendix

### Naming Standards



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