CareBios
Life Scientific

PRODUCT CATALOG

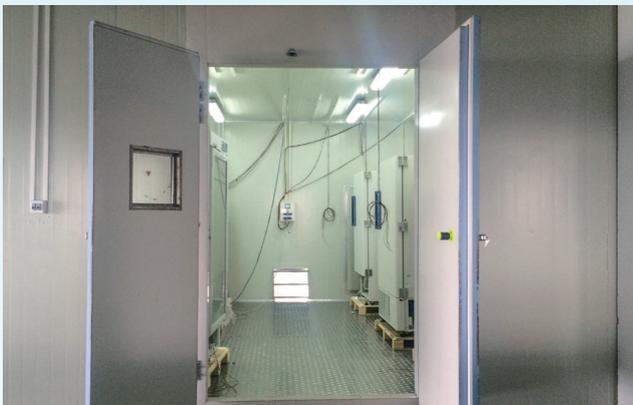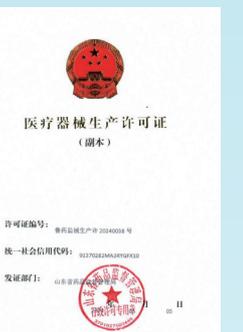# MEDICAL RESEARCH
COLD CHAIN EQUIPMENT

COMPANY PROFILE

Qingdao Carebios Biological Technology Co.,Ltd. is located in Qingdao, China. We are a high-tech enterprise integrating R&D, production, sales and service with refrigeration technology as the core.

The medical, laboratory cryogenic cold chain, and laboratory general equipment under the company's own brand "Carebios" are widely used in Scientific Research and Pharmaceutical.

The company has a production base of 12,500 square meters to meet the growing market. At present, we have an annual production capacity of 15,000 units, leading of China.

Since our establishment, we has been adhering to "customer- centric ", based on differentiated products, stable quality, and reasonable cost as our purpose. Based in China, focusing on the global market, it actuate our business advancement have been very effective. At present, our products have been exported to Western Europe, North America, Australia, Africa and Southeast Asia.

We will continue to work hard to improve the user experience continuously, increase investment in new products and new technologies, and present all of you with an first-class service team.
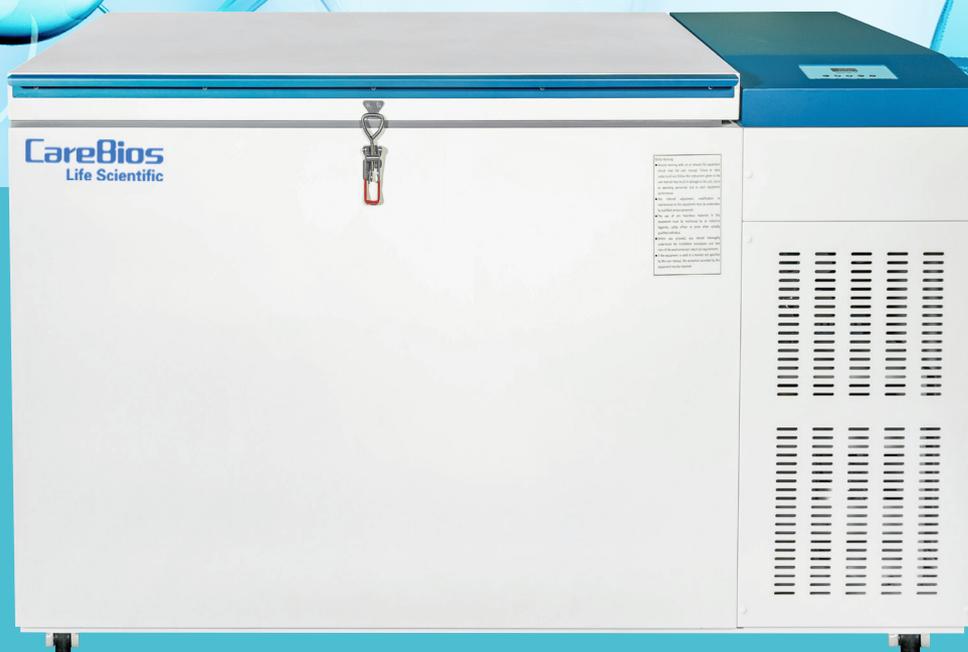
CONTENTS

Low Temperature
Cold Chain Series Products

-150°C Cryo Freezer

• Application

-150°C Cryo Freezer provides a safer, more convenient and economical alternative long term storage method than LN2 containers. We design it to provide a storage environment that is about 20°C colder than the water recrystallization temperature. The freezer is suitable for storage of a variety of biological samples, such as virus, erythrocytes, leukocytes, cutis, skeleton, sperm, oceanic products, special test materials and even electronic products for testing. It can be installed in institutions including blood banks, hospitals, epidemic prevention service centers, research institutes and laboratories.

• Features

3

• Temperature Control System

◦ Microprocessor control, Large touch screen inner temperature clearly, and with easy viewing.

◦ The inner temperature can be adjustable at the range of -125°C～-150°C.

◦ Lock and password for protection to prevent arbitrary adjustment of operating parameters.

-150°C Cryo Freezer

DW-150W138   DW-150W226

• Safety protection measures

◦ Malfunction alarms: high temperature alarm, low temperature alarm, Sensor failure.
◦ Three alarming methods: buzzer alarming, digital flashing alarming and remote contacts.
◦ Protection function: power-on delay, time between stops.

• Refrigeration System

◦ Optimized cascade refrigeration technology, SECOP compressor to reach a high efficient refrigeration effect.
◦ Specially designed Heat Exchanger, heat transfer high efficient, save Energy.
◦ Independent engine cabinet cooling system, ensure to adapt to a higher ambient temperatures.
◦ CFC-Free overall situ polyurethane foaming insulation.
◦ CFC-Free refrigerant.

• Ergonomic Design

◦ Safety door lock, preventing unauthorized access.
◦ Wide voltage design from 192V to 242V.
◦ Stainless steel inner chamber, easy for clean.
◦ Heavy type caster and locking adjustable screw, easy to move and fix.

	Model	DW-150W138	DW-150W226
Technical Specification	Cabinet Type	Chest	
	Climate Class	N	
	Cooling Type	Direct Cooling	
	Defrost Mode	Manual	
	Refrigerant	CFC free	
Performance	Temperature Setting(°C)	-150	
	Temperature Range(°C)	-125~-150	
Control System	Controller	Microprocessor	
	Display	7" Touch screen with USB port	
Material	Exterior Material	Galvanized steel powder coating	
	Interior Material	Stainess steel	
Electrical Data	Rated Voltage (V/Hz)	220/50	
	Power(W)	1500	2000
	Current (A)	8	11
Controller Functions	High/Low Temperature	Y	
	Sensor Error	Y	
	Lockage	Y	
Accessories	Foot	Y	
	Baskets/Inner Doors	—/2	
	Racks & Boxes	Optional	
Dimensions	Capacity(L)	138	226
	Net/Gross Weight(approx)	190kg/230 kg	230kg/280 kg
	Interior Dimensions(W*D*H)	630×440×500mm	780×580×500mm
	Exterior Dimensions(W*D*H)	1360×800×1000mm	1510×940×1000mm
	Package Dimensions(W*D*H)	1420×840×1150mm	1570×980×1150mm
	Container Loading (20'/40')	22/44	12/28
	Capacity for 2 inch boxes	96	160

• Optional Accessories
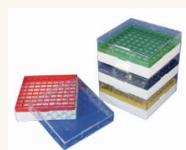
Cryo Racks

Cryo Boxes

Co2/ LN backup device

Chart Temperature Recorder

Cloud Computing

Wireless Monitoring system

4

-86°C ULT Freezer

• Application

-86°C ULT Freezer is specially designed for long term storage of various biological products, such as germs, virus, erythrocytes, leukocytes, cutis. It can be installed in institutions including blood banks, hospitals, epidemic prevention services, research institutes and laboratories for electronic and chemical plants, biological engineering institutes and marine fishery companies.

From individual laboratory users to ever-increasing sample storage needs, you can choose from ultra-low temperature storage solutions in multiple sizes.

5

• Features

• Temperature Control System

◦ Microprocessor control, Large touch screen display inner temperature clearly, and with easy viewing.

◦ The inner temperature can be adjustable at the range of -40°C~-86°C, with an increment of 0.1°C.

◦ Lock and password for protection to prevent arbitrary adjustment of operating parameters.

◦ Optional 7"color LCD touch screen display system.

-86°C ULT Freezer

DW-86L100   DW-86L280   DW-86L360

	Model	DW-86L100	DW-86L280	DW-86L360
Performance	Cooling performance(°C)	-80		
	Temperature Range(°C)	-40～-86		
	Rated Voltage (V/Hz)	220/50		
Material	Exterior Material	Galvanized steel powder coating		
	Interior Material	Galvanized steel powder coating		
	Insulation Material	PUF+VIP		
Technical Data	Climate Class	N		
	Cooling Type	Direct cooling		
	Defrost Mode	Manual		
	Refrigerant	HC mixed	HC mixed	R290/R170
	Cabinet Type	Undercounter	Upright	Upright
	Power (W)	460	520	850
	Energy consumption (KW.H/24H)	5.5	9.5	12.2
Accessories	Shelves (stainless steel)	1	3	3
	Caster	optional	Yes	Yes
	Test Hole	Yes		
	Temperature Recorder	Optional		
	Door locking device	Yes		
	Handle	Yes		
	Pressure balance hole	Yes		
	Racks & Boxes	Optional		
Controller Functions	Display	7" Touch screen with USB port		
	Low/High temperature alarm	Yes		
	Condenser high temperature alarm	Yes		
	Power failure alarm	Yes		
	Sensor failure alarm	Yes		
	Hight room temperature alarm	Yes		
	Alarm mode	Sound and light alarm，remote alarm terminal		
	Thickness of Cabinet Foamed Layer	90mm		
	Inner Door Number	2		
	Power Supply(V/Hz)	220/50		
	Capacity for 2 inch boxes	60	180	240
Dimensions	Capacity	96L	280L	360L
	Net/Gross Weight(approx)	92kg/107kg	190kg/213kg	230kg/261kg
	Interior Dimensions(W*D*H)	320x450x610mm	460x470x1310mm	460x600x1310mm
	Exterior Dimensions(W*D*H)	795x680x815mm	715x725x1980mm	715x855x1980mm
	Package Dimensions(W*D*H)	850x740x953mm	735x760x2190mm	735x890x2190mm
	Thickness of Door	70mm	90mm	90mm

• Safety protection measures

◦ Malfunction alarms: high temperature alarm, low temperature alarm, Sensor failure, Power failure alarm, low voltage of backup battery, Over temperature alarm system, set the alarm temperature as requirements.

◦ Three alarming methods: buzzer alarming, digital flashing alarming and Remote alarm.

◦ Protection function: power-on delay, time between stops.

• Refrigeration System

◦ Optimized cascade refrigeration technology, SECOP compressor to reach a refrigeration effect.

◦ Specially designed Heat Exchanger, heat transfer high efficient, save Energy.

◦ V.I.P insulation panels to ensure the insulation performance.

◦ CFC-Free overall polyurethane foaming insulation.

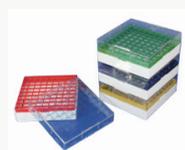◦ High efficient hydrocarbon refrigerant.

• Ergonomic Design

◦ Safety door lock, preventing unauthorized access. Wide voltage design from 192V to 242V.

◦ Double inner doors to reduce the loss of cold after opening the door.

◦ Suitable for 2" and 3" international standard Cryo Boxes;- Pressure-balanced port design, easy to open the door.

◦ Heavy type caster and locking adjustable screw, easy to move and fix.

◦ Ultra-simple condenser filter design, convenient for maintenance and washing.

• Optional Accessories

Cryo Racks

Cryo Boxes

Co2/ LN backup device

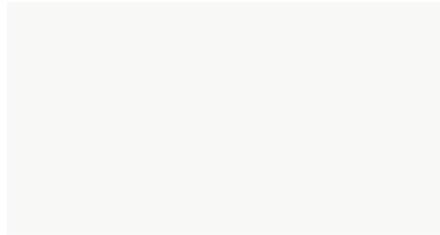

Chart Temperature Recorder

Cloud Computing

Wireless Monitoring system

-86°C ULT Freezer

DW-86L480   DW-86L590   DW-86L730   DW-86L990

Model		DW-86L480	DW-86L590	DW-86L730	DW-86L990
Technical Data	Cabinet Type	Upright			
	Climate Class	N			
	Cooling Type	Direct cooling			
	Defrost Mode	Manual			
	Refrigerant	R290/R170			
Performance	Cooling performance(°C)	-80			
	Temperature Range(°C)	-40～-86			
	Rated Voltage (V/Hz)	220/50			
Material	Exterior Material	Galvanized steel powder coating			
	Interior Material	Galvanized steel powder coating			
	Insulation Material	PUF+VIP			
	Thickness of Door	90mm			
	Inner Door Number	2			
	Power Supply(V/Hz)	220/50			
Controller Functions	Display	7" Touch screen with USB port			
	Low/High temperature alarm	Yes			
	Condenser high temperature alarm	Yes			
	Power failure alarm	Yes			
	Sensor failure alarm	Yes			
	Alarm mode	Sound and light alarm ,remote alarm terminal			
Accessories	Caster	Yes			
	Test Hole	Yes			
	Shelves (stainless steel)	3			
	Temperature Recorder	Optional			
	Door locking device	Yes			
	Handle	Yes			
	Pressure balance hole	Yes			
	Racks & Boxes	Optional			
Dimensions	Thickness of Cabinet Foamed Layer	90mm			
	Capacity	480L	590L	730L	1018L
	Net/Gross Weight(approx)	252kg/283kg	272kg/311kg	297kg/332kg	356kg/401kg
	Interior Dimensions(W*D*H)	600x600x1310mm	740x600x1310mm	740x730x1310mm	880x860x1310mm
	Exterior Dimensions(W*D*H)	855x855X1980mm	995x855x1980mm	995x985x1980mm	1135x1115x1980mm
	Package Dimensions(W*D*H)	875x890x2190mm	1015x890x2190mm	1015x1020x2190mm	1155x1150x2190mm
	Power (W)	920	950	1000	1100
	Energy consumption (KW.H/24H)	13.5	14.2	14.5	15
	Capacity for 2 inch boxes	320	400	500	720

-86°C Chest ULT Freezer

DW-86W128   DW-86W480   DW-86W730

Model		DW-86W128	DW-86W480	DW-86W730
Technical Data	Cabinet Type	Chest		
	Climate Class	N		
	Cooling Type	Direct cooling		
	Defrost Mode	Manual		
	Refrigerant	HC mixed	R290/R170	R290/R170
Performance	Cooling performance(°C)	-80		
	Temperature Range(°C)	-40～-86		
	Power (W)	480	800	980
	Energy consumption (KW.H/24H)	6.8	12.5	14
Material	Exterior Material	Galvanized steel powder coating		
	Interior Material	Stainess steel		
	Insulation Material	PUF+VIP		
Dimensions	Capacity	128	480	730
	Net/Gross Weight(approx)	98kg/116kg	242kg/278kg	275kg/318kg
	Interior Dimensions(W*D*H)	630x440x470mm	1310x600x600mm	1310x740x730mm
	Exterior Dimensions(W*D*H)	850x740x1025mm	1965x860x900mm	1965x1000x1035mm
	Package Dimensions(W*D*H)	930x780x1160 mm	2040x920x1060mm	2040x1060x1190mm
	Container Loading (20'/40')	36/72	13/26	10/20
	Thickness of Cabinet Foamed Layer	90mm		
	Thickness of Door	90mm	80mm	80mm
	Capacity for 2 inch boxes	96	360	540
	Power Supply(V/Hz)	220/50		
Controller Functions	Display	7" Touch screen with USB port		
	High/Low Temperature	Yes		
	Hot Condenser	Yes		
	Sensor Failure	Yes		
	High Ambient Temp	Yes		
	Alarm mode	Sound and light alarm, remote alarm terminal		
Accessories	Caster	Yes		
	Test Hole	Yes		
	Temperature Recorder	Optional		
	Door locking device	Yes		
	Handle	Yes		
	Pressure balance hole	Yes		
	Racks & Boxes	Optional		

-60°C Chest Deep Freezer

• Application

-60°C Low Temperature Freezer is mainly in order to meet the medical and scientific research and industrial preparation of cold storage under normal circumstances demand. It has large capacity,saving space and precise temperature control, temperature stability, quick cooling, mainly used in the sample access frequently, sample large capacity, users of laboratory space is relatively small.

• Features

• Temperature Control

◦ Microprocessor control, Large LED display inner temperature clearly, and with easy viewing.

◦ The inner temperature can be adjustable at the range of -30°C~-60°C.

-60°C Chest Deep Freezer

DW-60W300
DW-60W400

DW-60W200
DW-60W500

• Safety Control

◦ Malfunction alarms: high temperature alarm, low temperature alarm, over temperature alarm system, set the alarm temperature as requirements.

◦ Two alarming methods: buzzer alarming and digital flashing alarming.

◦ Protection function: power-on delay, time between stops.

• Refrigeration System

◦ Optimized cascade refrigeration technology, SECOP compressor to reach a high efficient refrigeration effect.

◦ Specially designed Heat Exchanger, heat transfer high efficient, save Energy.

◦ Single compressor efficient thermal cycle refrigeration technology, low noise, more energy efficient.

◦ CFC-Free overall polyurethane foaming insulation.

◦ CFC-Free refrigerant.

• Ergonomic Design

◦ Safety door lock, preventing unauthorized access.

◦ Wide voltage design from 192V to 242V.

◦ Baskets is standard.

◦ Heavy type caster and locking adjustable screw, easy to move and fix.

10

Model	DW-60W100	DW-60W200	DW-60W300	DW-60W400	DW-60W500
Cabinet Type	Chest				
Climate Class	N				
Cooling Type	Direct cooling				
Defrost Mode	Manual				
Refrigerant	CFC-Free				
Cooling performance(°C)	-60				
Temperature Range(°C)	-30～-60				
Controller	Microprocessor				
Display	LED				
Interior	Aluminum powder coating	PCM			
Exterior	Galvanized steel powder coating				
Power Supply(V/Hz)	220/50				
High/Low Temperature	Y				
Sensor Error	Y				
Lockage	Y				
Caster	Y				
Foot	N				
Test Hole	N				
Temperature Recorder	Optional				
Cryo racks	Optional				
Baskets/Inner Doors	1/-	2/-	2/-	2/-	2/-
Power(W)	190	210	450	450	500
Capacity(L)	100	170	270	370	500
Net/Gross Weight(approx)	40/47kg	70kg/82kg	90kg/107kg	103kg/128kg	126kg/155kg
Interior Dimensions(W*D*H)	520x345x615mm	750x410x625mm	960x500x625mm	1270x500x625mm	1680x500x625mm
Exterior Dimensions(W*D*H)	700x550x850mm	940x705x865mm	1150x795x900mm	1460x795x900mm	1870x795x900mm
Packing Dimensions(W*D*H)	750x595x940mm	1000x745x940mm	1210x770x1070mm	1520x770x1070mm	1930x770x1070mm

- **Application**

-40°C Deep Freezer is designed for long term storage of various medical and biological products, such as blood plasma, vaccines, testing reagents and laboratory materials, even some electronic products for test. It can be installed in research institutions and clinical sites in life science, blood banks, hospitals, electronic testing and medical laboratories.

- **Features**

- **Temperature Control**

◦Microprocessor control, Large LED display inner temperature clearly, and with easy viewing.

◦The inner temperature can be adjustable at the range of -10°C~-40°C, with an increment of 0.1°C.

◦Lock and password for protection to prevent arbitrary adjustment of operating parameters.

- **Safety Control**

◦Malfunction alarms: high temperature alarm, low temperature alarm, Sensor failure, Power failure alarm, low voltage of backup battery, Over temperature alarm

◦system, set the alarm temperature as requirements .

◦Three alarming methods: buzzer alarming, digital flashing alarming and Remote alarm.

◦Protection function: power-on delay, time between stops.

◦Chart temperature recorder monitor system (Optional).

-40°C Deep Freezer

-40℃ Upright Deep Freezer

DW-40L280   DW-40L390   DW-40L590

• Refrigeration System

◦ Highly efficient SECOP brand compressor and high reliability fan.

◦ 90mm thick foam insulation, better insulation effect, help to maintain temperature stability inside the freezer.

◦ Optimized single refrigerant cooling system, easy maintenance and repair.

◦ CFC-Free overall polyurethane foaming insulation.

◦ CFC-Free refrigerant.

	Model	DW-40L280	DW-40L390	DW-40L590
Technical Data	Cabinet Type	Upright		
	Climate Class	N		
	Cooling Type	Direct cooling		
	Defrost Mode	Manual		
	Refrigerant	R290		
Performance	Cooling performance(°C)	-40		
	Temperature Range(°C)	-10～-40		
Material	Exterior Material	Galvanized steel powder coating		
	Interior Material	Galvanized steel powder coating		
Functions	High/Low Temperature	Yes		
	Sensor Error	Yes		
	Lockage	Yes		
Accessories	Caster	Yes		
	Foot	None		
	Test Hole	Yes		
	Shelves/Inner Doors	3/2		
	Temperature Recorder	Optional		
	Cryo racks	Optional		
Electrical Data	Power Supply(V/HZ)	220/50		
	Power(W)	350	400	550
Dimensions	Capacity (L)	290	370	599
	Net/Gross Weight(approx)	160kg/183kg	195kg/225kg	232kg/271kg
	Interior Dimensions(W*D*H)	460x470x1310mm	460x600x1310mm	740x600x1310mm
	Exterior Dimensions(W*D*H)	715x725x1870mm	715x855x1870mm	995x855x1870mm
	Package Dimensions(W*D*H)	735x760x2080mm	735x890x2080mm	1015x890x2080mm

12

• Ergonomic Design

◦ Double inner doors to reduce the loss of cold after opening the door.

◦ Safety door lock, preventing unauthorized access.

◦ Wide voltage design from 192V to 242V.

◦ Suitable for 2" and 3" international standard Cryo Boxes.

◦ Pressure-balanced port design, easy to open the door.

◦ Heavy type caster and locking adjustable screw, easy to move and fix.

◦ Adjustable shelf design.

◦ Ultra-simple condenser filter design, convenient for maintenance and washing.

DW-40W100   DW-40W200   DW-40W300   DW-40W400   DW-40W500

-40°C Chest Deep Freezer

Model		DW-40W100	DW-40W200	DW-40W300	DW-40W400	DW-40W500
Performance	Cooling performance(°C)	-40				
	Temperature Range(°C)	-10～-40				
Control	Controller	Microprocessor				
	Display	LED				
Material	Interior	Aluminum powder coating				
	Exterior	Galvanized steel powder coating				
Electrical Data	Power Supply(V/HZ)	220/50				
	Power(W)	180	250	250	350	350
Technical Data	Refrigerant	R290	R290	R290	R404a	R404a
	Climate Class	N				
	Cooling Type	Direct cooling				
	Defrost Mode	Manual				
	Cabinet Type	Chest				
Dimensions	Capacity	100	190	285	380	470
	Net/Gross Weight(approx)	40kg/47kg	65kg/80kg	75kg/88kg	85/106kg	110kg/130kg
	Interior Dimensions(W*D*H)	520x345x615mm	760x485x625mm	1080x485x625mm	1340x485x625mm	1710x485x625mm
	Exterior Dimensions(W*D*H)	700x550x850mm	940x765x885mm	1270x765x885mm	1530x765x885mm	1900x765x885mm
	Package Dimensions(W*D*H)	750x595x940mm	990x780x1060mm	1310x780x1060mm	1580x780x1060mm	1950x780x1060mm
Functions	High/Low Temperature	Yes				
	Sensor Error	Yes				
	Lockage	None	Yes	Yes	Yes	Yes
Accessories	Caster	4				
	Foot	None				
	Test Hole	None				
	Baskets/Inner Doors	1/-	2/-	2/-	2/-	2/-
	Temperature Recorder	Optional				
	Cryo racks	Optional				

13

- **Application**

Auto Defrost, Forced-Air Circulation Suitable for hospitals, blood banks, epidemic prevention, animal husbandry areas, pharmaceutical companies and research institutes.Designed to store pharmaceuticals, medicine, vaccines, biological materials, testing reagents and laboratory materials.

- **Features**

- **Temperature Control**

◦ Microprocessor control, Large LED display inner temperature clearly, and with easy viewing.
◦ The inner temperature can be adjustable at the range of -10℃~-30℃, with an increment of o.1℃.
◦ Multiple sensors to display or control the temperature.
◦ Lock and password for protection to prevent arbitrary adjustment of operating parameters.

- **Safety Control**

◦ Malfunction alarms: high temperature alarm, low temperature alarm, Sensor failure.
◦ Over temperature alarm system, set the alarm temperature as requirements.
◦ Three alarming methods: buzzer alarming, digital flashing alarming and Remote alarm;Protection function: power-on delay, time between stops.
◦ 7 days Chart temperature recorder monitor system (Optional).

15

-30℃ Deep freezer - Automatic Defrost

-30°C Deep Freezer

DW-25L600

DW-25L1100

DW-25L1400

• Ergonomic Design

◦ Safety door lock, preventing unauthorized access;Wide voltage design from 192V to 242V.

◦ Pressure-balanced port design, easy to open the door.

◦ Adjustable shelves design.

◦ Heavy type caster and locking adjustable screw, easy to move and fix.

• Refrigeration System

◦ Highly efficient famous brand hermetically sealed CFC free compressor and fan;70mm thick foam insulation, better insulation effect, help to maintain temperature stability inside the freezer, Forced-Air Circulation for large airflow with special air ducts to guarantee inner temperature consistency.

◦ Monoblock refrigeration units, energy-efficient and easy for maintanance.

◦ HCFC refrigerant.

	Model	DW-25L600	DW-25L1100	DW-25L1400
Technical Data	Cabinet Type	Upright		
	Climate Class	N		
	Cooling Type	Forced air cooling		
	Defrost Mode	Auto		
	Refrigerant	HC,R290		
Performance	Cooling performance(°C)	-25		
	Temperature Range(°C)	-10～-30		
	Power Supply(V/HZ)	220/50		
	Power(W)	460	650	700
	Power Consumption (kwh/24h)	6.8	7.2	8.5
Control	Controller	Microprocessor (Dixell)		
	Display	LED		
Material	Interior	Galvanized steel powder coating (white)		
	Exterior	Galvanized steel powder coating (white)		
Dimensions	Capacity	580	1050	1350
	Net/Gross Weight(approx)	158kg/183kg	228kg/263kg	280kg/330kg
	Interior Dimensions(W*D*H)	660x690x1400mm	1180x690x1400mm	1460x690x1400mm
	Exterior Dimensions(W*D*H)	780x830x1965mm	1300x830x1965mm	1580x830x1965mm
	Package Dimensions(W*D*H)	820x880x2175mm	1340x880x2175mm	1640x870x2175mm
Functions	High/Low Temperature	Yes		
	Remote Alarm contact	Yes		
	Door open alarm	Yes		
	Door Lock	Yes		
Accessories	Caster	Yes		
	Test Hole	Yes		
	Shelves/Inner Doors	5/4	5/8	5/8
	Foaming Door	Yes		
	Temperature Recorder	Optional		

-25 ℃ Deep Freezer

17

• Application

-25 ℃ Low Temperature Freezer is mainly in order to meet the medical and scientific research and industrial preparation of cold storage under normal circumstances demand. It has large capacity, saving space and precise temperature control, temperature stability, quick cooling, mainly used in the sample access frequently, sample large capacity, users of laboratory space is relatively small.

• Features

• Temperature Control

◦ Microprocessor control, Large LED display inner temperature clearly, and with easy viewing.

◦ The inner temperature can be adjustable at the range of -10℃~-25℃.

◦ Lock and password for protection to prevent arbitrary adjustment of operating parameters.

DW-25L60   DW-25L110   DW-25L260   DW-25L390   DW-25L598

-25°C Upright Deep Freezer

	Model	DW-25L60	DW-25L110	DW-25L260	DW-25L390	DW-25L598
Technical Data	Cabinet Type	Desktop	Under-counter	Upright	Upright	Upright
	Climate Class	N				
	Cooling Type	Direct cooling				
	Defrost Mode	Manual				
	Refrigerant	HC, R600a	HC, R600a	HC, R600a	HC, R290	HC, R290
Performance	Cooling performance(°C)	-25				
	Temperature Range(°C)	-10～-25				
	Power Supply(V/HZ)	220/50				
	Power(W)	105	144	145	180	185
	Power Consumption (kwh/24h)	1.3	1.7	2.2	2.5	2.6
Control	Controller	Microprocessor				
	Display	LED				
Material	Interior	Aluminum powder coating(White)				
	Exterior	PCM(White)				
Electrical Data	Power Supply(V/Hz)	220/50				
Dimensions	Capacity	60	110	260	390	520
	Net/Gross Weight(approx)	32kg/36kg	43kg/46kg	61kg/67kg	71kg/78kg	98kg/106kg
	Interior Dimensions(W*D*H)	410x450x420mm	500x450x570mm	500x450x1290mm	500x510x1550mm	645x530x1640mm
	Exterior Dimensions(W*D*H)	510x560x655mm	600x560x805mm	600x560x1525mm	600x650x1840mm	775x750x1945mm
	Package Dimensions(W*D*H)	570x620x720mm	650x620x875mm	660x620x1660mm	660x700x1925mm	830x750x2030mm
Functions	High/Low Temperature	Yes				
	Remote Alarm Contact	Yes				
	Power Failure Alarm	Yes				
	Door Ajar	Yes				
	Inner LED light	Yes				
	Sensor failure alarm	Yes				
	Door lock	Yes				
Accessories	Caster	None	None	None	Yes	Yes
	Foot	Yes	Yes	Yes	None	None
	Test Hole	Yes				
	Shelves/Inner Doors	2/-	3/-	6/-	6/-	6/-
	USB Interface	Optional				
	Temperature Recorder	Optional				

18

-25°C Deep Freezer

DW-25W100   DW-25W200   DW-25W300   DW-25W400   DW-25W500

• Safety Control

◦ Malfunction alarms: high temperature alarm, low temperature alarm, Sensor failure.

◦ Over temperature alarm system, set the alarm temperature as requirements.

◦ Two alarming methods: buzzer alarming and digital flashing alarming.

◦ Protection function: power-on delay, time between stops.

• Refrigeration System

◦ Highly efficient famous brand compressor and fan, with a high efficient refrigeration effect.

◦ Optimized refrigeration technology, low noise, more energy efficient.

◦ CFC-Free overall polyurethane foaming insulation.

◦ CFC-Free refrigerant.

• Ergonomic Design

◦ Safety door lock, preventing unauthorized access.

◦ Wide voltage design from 192V to 242V.

◦ Pressure-balanced port design, easy to open the door.

◦ Adjustable shelves design.

◦ Heavy type caster and locking adjustable screw, easy to move and fix.

	Model	DW-25W100	DW-25W200	DW-25W300-400-500
Technical Data	Cabinet Type	Chest		
	Climate Class	N		
	Cooling Type	Direct cooling		
	Defrost Mode	Manual		
	Refrigerant	R290		
Performance	Cooling performance(°C)	-25		
	Temperature Range(°C)	-10～-25		
Control	Controller	Microprocessor		
	Display	LED		
Material	Interior	Aluminum powder coating		
	Exterior	Galvanized steel powder coating		
Electrical Data	Power Supply(V/HZ)	220/50		
	Power(W)	200	200	210

	Model	DW-25W100	DW-25W200	DW-25W300
Dimensions	Capacity	100	190	285
	Net/Gross Weight(approx)	40kg/47kg	65kg/80kg	75kg/88kg
	Interior Dimensions(W*D*H)	520x345x615mm	760x485x625mm	1080x485x625mm
	Exterior Dimensions(W*D*H)	700x550x850mm	940x765x885mm	1270x765x885mm
	Package Dimensions(W*D*H)	750x595x940mm	990x780x1060mm	1310x780x1060mm
Functions	High/Low Temperature	Yes		
	Sensor failure	Yes		
	Lock	None	Yes	Yes
Accessories	Caster	4		
	Foot	None		
	Test Hole	None		
	Baskets/Inner Doors	1/-	2/-	2/-
	Temperature Recorder	Optional		
	Cryo racks	Optional		

	Model	DW-25W400	DW-25W500
Dimensions	Capacity	380	470
	Net/Gross Weight(approx)	85kg/106kg	110kg/130kg
	Interior Dimensions(W*D*H)	1340x485x625mm	1710x485x625mm
	Exterior Dimensions(W*D*H)	1530x765x885mm	1900x765x885mm
	Package Dimensions(W*D*H)	1580x780x1060mm	1950x780x1060mm
Functions	High/Low Temperature	Yes	
	Sensor failure	Yes	
	Lock	Yes	
Accessories	Caster	4	
	Foot	None	
	Test Hole	None	
	Baskets/Inner Doors	2/-	
	Temperature Recorder	Optional	
	Cryo racks	Optional	

• Application

Combined Refrigerator and Freezer suitable for hospitals, blood banks, epidemic prevention, animal husbandry areas, pharmaceutical companies and research institutes.

Designed to store pharmaceuticals, medicine, vaccines, biological materials, testing reagents and laboratory materials.

Microprocessor control, Large LED display inner temperature clearly, and with easy viewing. The inner temperature can be adjustable at the range of 2°C~8°C and -10°C~ -25°C, with an increment of 0.1.

• Features

• Temperature Control

◦Microprocessor control, Large LED display inner temperature clearly, and with easy viewing.

◦The inner temperature can be adjustable at the range of 2°C~8°C and -10°C~ -25°C, with an increment of 0.1.

◦The Lowest and Highest temperature recorded value record.

-25 °C/4°C Combined Refrigerator And Freezer

-25 °C/4°C Combined Refrigerator And Freezer

Combined Refrigerator and Freezer

• Safety Control

◦ Malfunction alarms: high temperature alarm, low temperature alarm, Power failure alarm, Door jammed, low voltage of backup battery.

◦ Over temperature alarm system, set the alarm temperature as requirements.

◦ Three alarming methods: buzzer alarming, digital flashing alarming and Remote alarm.

◦ Protection function: power-on delay, time between stops.

• Refrigeration System

◦ Highly efficient famous brand compressor and fan;, with a high efficient refrigeration effect.

◦ Forced-Air Circulation for large airflow with special air ducts to guarantee inner temperature consistency.

◦ Large area of the evaporator design, cooling strong and high temperature uniformity, While effectively suppressing frost, reducing defrosting process.

◦ CFC-Free/HCFC refrigerant.

• Ergonomic Design

◦ Safety door lock, preventing unauthorized access.

◦ Auto defrost function guarantees a good performance in high ambient temperature and humidity area.

◦ Wide voltage design from 192V to 242V.

◦ Inner LED lighting and caster design.

◦ Adjustable shelves design.

◦ No condensation glass door.

◦ Foaming door is optional.

◦ Stopper on rear against back wall.

Model		KYCD-300G(F)
Technical Data	Cabinet Type	Upright
	Climate Class	N
	Cooling Type	REF: Forced air cooling; FREEZER: Direct cooling
	Defrost Mode	Ref:Auto; Freezer: Manual
	Refrigerant	R600a
Performance	Cooling performance(°C)	4/-25
	Temperature Range(°C)	REF: 2～8；FREEZER:-10～-25
	Power Supply(V/HZ)	220/50
	Power(W)	215
	Power Consumption (kwh/24h)	2.8
Material	Interior	Aluminum powder coating(White)
	Exterior	Galvanized steel powder coating(White)
Control	Controller	Microprocessor
	Display	LED
Dimensions	Capacity(L)	REF:170L; FREEZER:100L
	Interior Dimensions(W*D*H)	Refrigerator: 500×460×730mm；Freezer: 500×460×445mm
	Exterior Dimensions(W*D*H)	650x650x1860mm
	Foaming thickness	50mm
Functions	High/Low Temperature Alarm	Yes
	Sensor Failure Alarm	Yes
	Door Open Alarm	Yes
	Door lock	Yes
	Inner LED light	REF:Yes; FREEZER:No
	Remote alarm contact	Yes
Accessories	Caster	Yes
	Shelves	REF:3; FREEZER:2
	Glass Door	optional
	Temperature Recorder	optional

- **Application**
  - Auto Defrost, Forced-Air Circulation Suitable for hospitals, blood banks, epidemic prevention, animal husbandry areas, pharmaceutical companies and research institutes.
  - Designed to store blood, medicine.
  - Microprocessor control, Large LED display inner temperature clearly, and with easy viewing.
  - The inner temperature can be adjustable at the range of 2°C~6°C, with an increment of 0.1°C.
  - Multiple sensors to display or control the temperature.

- **Features**

- **Temperature Control**
  - Microprocessor control, Large LED display inner temperature clearly, and with easy viewing.
  - The inner temperature can be adjustable at the range of 2°C~6°C, with an increment of 0.1°C.
  - Multiple sensors to display or control the temperature.
  - Lock and password for protection to prevent arbitrary adjustment of operating parameters.

23

4°C Blood Bank Refrigerator

4°C Blood Bank Refrigerator

KXC-120G(F) KXC-310G(F) KXC-600G(F) KXC-1100G(F) KXC-1400G(F)

• Safety Control

◦ Malfunction alarms: high temperature alarm, low tempera-
   ture alarm, Sensor failure, Power failure alarm, low voltage
   of backup battery, Over temperature alarm system, set the
   alarm temperature as requirements.
◦ Three alarming methods: buzzer alarming, digital
   flashing alarming and Remote alarm.
◦ Protection function: power-on delay, time between stops.
◦ Chart temperature recorder monitor system (Optional).

• Refrigeration System

◦ Highly efficient famous brand compressor and fan, with a
   high efficient refrigeration effect.
◦ 70mm thick foam insulation, better insulation effect, help to
   maintain temperature stability inside the refrigerator.
◦ Forced-Air Circulation for large airflow with special air ducts
   to guarantee inner temperature consistency.
◦ Monoblock refrigeration units, energy-efficient and easy for
   maintanance.
◦ CFC-Free/HCFC refrigerant.

• Ergonomic Design

◦ Safety door lock, preventing unauthorized access.
◦ Auto defrost function guarantees a good performance in
◦ high ambient temperature and humidity area.
◦ Wide voltage design from 192V to 242V.
◦ Inner LED lighting and caster design.
◦ No condensation glass door.
◦ USB export interface for event and temperature data .
◦ Baskets or stainless steel drawers (Optional).

	Model	KXC-120G(F)	KXC-310G(F)	KXC-600G(F)
Technical Data	Defrost Mode	Auto		
	Climate Class	N		
	Cooling Type	Forced air cooling		
	Cabinet Type	Undercount	Upright	Upright
	Refrigerant	R600a	R290	R290
Performance	Cooling performance(°C)	4		
	Temperature Range(°C)	2～6		
	Power Supply(V/HZ)	220/50		
	Power(W)	150	230	280
	Power Consumption	1.6	2.4	3.3
Control	Controller	Microprocessor		
	Display	LED		
	Temperature control/display accuracy	0.1		
	Temperature sensors	4		
	Anti-low temperature control device	Mechanical		
	The minimum temperature of Mechanical control	2		
Material	Interior	Stainless steel		
	Exterior	Galvanized steel powder coating (white)		

	Model	KXC-1100G(F)	KXC-1400G(F)
Technical Data	Defrost Mode	Auto	
	Climate Class	N	
	Cooling Type	Forced air cooling	
	Cabinet Type	Upright	
	Refrigerant	R290	
Performance	Cooling performance(°C)	4	
	Temperature Range(°C)	2～6	
	Power Supply(V/HZ)	220/50	
	Power(W)	400	420
	Power Consumption	4.6	4.7
Control	Controller	Microprocessor	
	Display	LED	
	Temperature control/display accuracy	0.1	
	Temperature sensors	4	
	Anti-low temperature control device	Mechanical	
	The minimum temperature of Mechanical control	2	
Material	Interior	Stainless steel	
	Exterior	Galvanized steel powder coating (white)	

KXC-120G(F)　KXC-310G(F)　KXC-600G(F)　KXC-1100G(F)　KXC-1400G(F)

	Model	KXC-120G(F)	KXC-310G(F)	KXC-600G(F)	KXC-1100G(F)	KXC-1400G(F)
Dimensions	Capacity	132	310	600	1073	1352
	Net/Gross Weight(approx)	90kg/115kg	120kg/145kg	160kg/190kg	220kg/252kg	280kg/330kg
	Interior Dimensions(W*D*H)	380x520x670mm	520x430x1400mm	660x690x1400mm	1180x690x1400mm	1460×690×1400mm
	Exterior Dimensions(W*D*H)	780x645x820mm	640x570x1920mm	780x830x1965mm	1300x830x1965mm	1580×830×1965mm
	Package Dimensions(W*D*H)	830x675x950mm	680x620x2135mm	820x880x2175mm	1340x880x2175mm	1630×880×2175 mm
Functions	Interior high/low temperature alarm	Yes				
	Power failure alarm	Yes				
	Sensor failure alarm	Yes				
	Door open alarm	Yes				
	Door lock	Yes				
	Inner LED light	Yes				
	Data storage (sets)	100,000+				
	Temperature Recorder	Yes				
	Remote alarm contact	Yes				
Accessories	Castor/Foot	-/4	4/-	4/-	4/-	4/-
	Test Hole	Yes				
	7 days Chart temperature recorder	Optional				
	Shelves/Inner Doors	1/-	5/-	5/-	5/-	5/-
	Drawer	Optional (4)	Optional (6)	Optional (6)	Optional (12)	Optional (12)

25

Blood Bank Refrigerator

2-8°C Pharmacy Refrigerator

- **Application**

Auto Defrost, Forced-Air Circulation Suitable for hospitals, blood banks, epidemic prevention, animal husbandry areas, pharmaceutical companies and research institutes. Designed to store pharmaceuticals, medicine, vaccines, biological materials, testing reagents and laboratory materials.

- **Features**

- **Temperature Control System**

◦ Microprocessor control, Large LED display inner temperature clearly, and with easy viewing.

◦ The inner temperature can be adjustable at the range of 2°C~8°C with an increment of 0.1.

◦ Multiple sensors to display or control the temperature.

◦ The Lowest and Highest temperature recorded value record.

2-8°C Pharmacy Refrigerator

KYC-60G(F)   KYC-110G(F)   KYC-140G(F) KYC-260G(F) KYC-390G(F) KYC-598G(F)

• Safety Control

◦ Malfunction alarms：high temperature alarm, low
  temperature alarm, Power failure alarm, Door open alarm.
◦ Over temperature alarm system, set the alarm
  temperature as requirements.
◦ Three alarming methods: buzzer alarming, digital
  flashing alarming and Remote alarm.
◦ Protection function: power-on delay, time between stops.
◦ Temperature recorder monitor system (Optional).

• Refrigeration System

◦ Highly efficient famous brand compressor and fan.
◦ Forced-Air Circulation for large airflow with special air
  ducts to guarantee inner temperature consistency.
◦ Large area of the evaporator design, cooling strong and
  high temperature uniformity, While effectively
◦ suppressing frost, reducing defrosting process.
◦ CFC-Free/HCFC refrigerant.

• Ergonomic Design

◦ Safety door lock, preventing unauthorized access.
◦ Auto defrost function guarantees a good performance
  in high ambient temperature and humidity area.
◦ Wide voltage design from 192V to 242V.
◦ Inner LED lighting and caster design.
◦ No condensation glass door.
◦ Adjustable shelf design.
◦ Foaming door is optional.
◦ Stopper on rear against back wall.

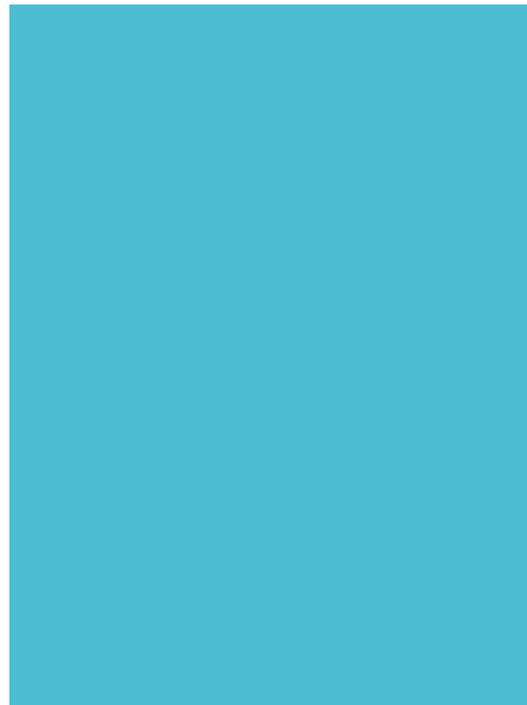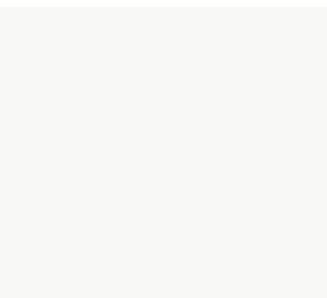|	Model	KYC-60G(F)	KYC-110G(F)	KYC-140G(F)
Technical Data	Cabinet Type	Desktop	Under-counter	Under-counter
	Climate Class	N		
	Cooling Type	Forced air cooling		
	Defrost Mode	Auto		
	Refrigerant	R600a	R600a	R600a
Performance	Cooling performance(°C)	4		
	Temperature Range(°C)	2～8		
Control	Controller	Microprocessor		
	Display	LED/---		
	Alarm	Audible, Remote		
Material	Interior	Aluminum powder coating(White)		
	Exterior	PCM(White)		
Electrical Data	Power Supply(V/HZ)	220/50		
	Power(W)	115	130	130
	Power Consumption (kwh/24h)	1.5	1.7	1.7
	Model	KYC-260G(F)	KYC-390G(F)	KYC-598G(F)
Technical Data	Cabinet Type	Upright	Upright	Upright
	Climate Class	N		
	Cooling Type	Forced air cooling		
	Defrost Mode	Auto		
	Refrigerant	R600a / R290	R600a / R290	R600a / R290
Performance	Cooling performance(°C)	4		
	Temperature Range(°C)	2～8		
Control	Controller	Microprocessor		
	Display	LED/---		
	Alarm	Audible, Remote		
Material	Interior	Aluminum powder coating(White)		
	Exterior	PCM(White)		
Electrical Data	Power Supply(V/HZ)	220/50		
	Power(W)	170	240	220
	Power Consumption (kwh/24h)	2.1	3	2.9

2-8°C Pharmacy Refrigerator

2-8°C Pharmacy Refrigerator

KYC-60G(F)   KYC-110G(F)   KYC-140G(F) KYC-260G(F) KYC-390G(F) KYC-598G(F)

	Model	KYC-60G(F)	KYC-110G(F)	KYC-140G(F)	KYC-260G(F)	KYC-390G(F)	KYC-598G(F)
Dimensions	Capacity	55	105	135	255	381	503
	Net/Gross Weight(approx)	33kg/38kg	42kg/46kg	53kg/60kg	65kg/77kg	75kg/88kg	127kg/135kg
	Interior Dimensions(W*D*H)	410x420x420mm	500x420x570mm	500x510x570mm	500x420x1290mm	500x510x1550mm	645x510x1640mm
	Exterior Dimensions(W*D*H)	510x560x655mm	600x560x805mm	600x650x805mm	600x560x1525mm	600x650x1840mm	775x700x1945mm
	Package Dimensions(W*D*H)	570x620x720mm	650x620x875mm	650x700x940mm	660x620x1660mm	660x700x1925mm	830x750x2030mm
Functions	High/Low Temperature	Yes					
	Remote Alarm	Yes					
	Sensor Failure	Yes					
	Door Ajar	Yes					
	Lockage	Yes					
	Inner LED light	Yes					
	Power Failure	Optional					
Accessories	Foot	Yes	Yes	Yes	Yes	None	None
	Caster	None	None	None	None	Yes	Yes
	Test Hole	Yes					
	Shelves	2	3	3	6	6	6
	Foaming/Glass Door	optional					
	USB Interface	optional					
	Temperature Recorder	optional					

2-15°C Laboratory Refrigerator

• Application

Auto Defrost, Forced-Air Circulation Suitable for hospitals, blood banks, epidemic prevention, animal husbandry areas, pharmaceutical companies and research institutes.

Designed to store pharmaceuticals, medicine, vaccines, biological materials, testing reagents and laboratory materials.

Microprocessor control, Large LED display inner temperature clearly, and with easy viewing; The inner temperature can be adjustable at the range of 2°C~15°C, with an increment of 0.1°C, Multiple sensors to display or control the temperature.

• Features

• Temperature Control

◦ Microprocessor control, Large LED display inner temperature clearly, and with easy viewing.

◦ The inner temperature can be adjustable at the range of 2°C~15°C, with an increment of 0.1°C.

◦ Multiple sensors to display or control the temperature.

Lock and password for protection to prevent arbitrary adjustment of operating parameters.

KYC-310G   KYC-600G   KYC-1100G   KYC-1400G   KYC-1000GT   KYC-1300GT

• Safety Control

◦ Malfunction alarms: high temperature alarm, low temperature alarm.

◦ Sensor failure, Power failure alarm.

◦ Over temperature alarm system, set the alarm temperature as requirements.

◦ Three alarming methods: buzzer alarming.

◦ digital flashing alarming and Remote alarm.

◦ Protection function: power-on delay, time between stops.

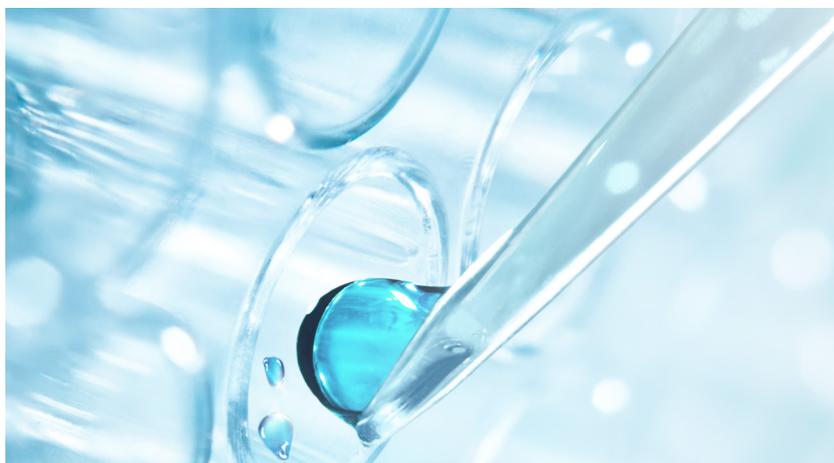◦ Chart temperature recorder monitor system (Optional).

• Refrigeration System

◦ Highly efficient famous brand compressor and fan, with a high efficient refrigeration effect.

◦ 70mm thick foam insulation, better insulation effect, help to maintain temperature stability inside the refrigerator.

◦ Forced-Air Circulation for large airflow with special air ducts to guarantee inner temperature consistency.

◦ Monoblock refrigeration units, energy-efficient and easy for maintanance.

◦ CFC-Free/HCFC refrigerant.

2-15°C Laboratory Refrigerator

	Model	KYC-310G	KYC-600G	KYC-1100G
Technical Data	Cabinet Type	Upright		
	Climate Class	N		
	Cooling Type	Forced air cooling		
	Defrost Mode	Auto		
	Refrigerant	R290	R290	R290
Performance	Cooling performance(°C)	4		
	Temperature Range(°C)	2～15		
Control	Controller	Microprocessor		
	Display	LED		
	Alarm	Audible, Remote		
Material	Interior	Galvanized steel powder coating		
	Exterior	Galvanized steel powder coating (white)		
Electrical Data	Power Supply(V/HZ)	220/50		
	Power(W)	210	280	400
	Power Consumption	1.8	3.3	4.6
	Model	KYC-1400G	KYC-1000GT	KYC-1300GT
Technical Data	Cabinet Type	Upright		
	Climate Class	N		
	Cooling Type	Forced air cooling		
	Defrost Mode	Auto		
	Refrigerant	HC,R290	HC,R290	HC,R290
Performance	Cooling performance(°C)	4		
	Temperature Range(°C)	2～15		
Control	Controller	Microprocessor		
	Display	LED		
	Alarm	Audible, Remote		
Material	Interior	Galvanized steel powder coating		
	Exterior	Galvanized steel powder coating (white)		
Electrical Data	Power Supply(V/HZ)	220/50		
	Power(W)	420	450	700
	Power Consumption	4.7	6.5	10

32

• Ergonomic Design

◦ Safety door lock, preventing unauthorized access.

◦ Auto defrost function guarantees a good performance in high ambient temperature and humidity area.

◦ Wide voltage design from 192V to 242V.

◦ Inner LED lighting and caster design .

◦ Maintenance free condenser design .

◦ No condensation glass door .

◦ USB export interface for event and temperature data .

◦ Baskets or stainless steel drawers (Optional).

KYC-310G   KYC-600G   KYC-1100G   KYC-1400G   KYC-1000GT   KYC-1300GT

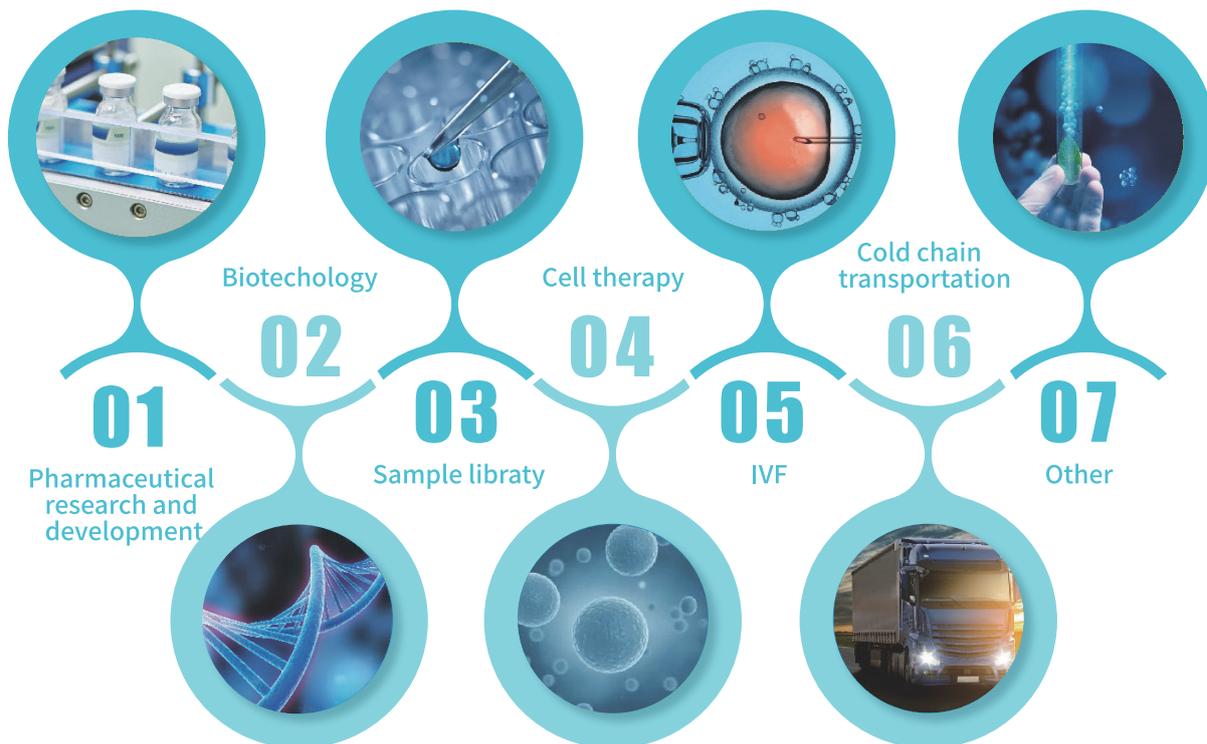|	Model	KYC-310G	KYC-600G	KYC-1100G	KYC-1400G	KYC-1000GT	KYC-1300GT
Dimensions	Capacity(L)	313	580	1050	1352	1000	1255
	Net/Gross Weight(approx)	90kg/120kg	144kg/173kg	223kg/257kg	263kg/309kg	198kg/232kg	238kg/284kg
	Interior Dimensions(W*D*H)	520x430x1400mm	660x690x1400mm	1180x690x1400mm	1460x690x1400mm	1180x620x1400mm	1460x620x1400mm
	Exterior Dimensions(W*D*H)	640x570x1920mm	780x830x1965mm	1300x830x1965mm	1580x830x1965mm	1300x765x1945mm	1580x765x1945mm
	Package Dimensions(W*D*H)	680x620x2135mm	820x880x2175mm	1340x880x2175mm	1630x880x2175mm	1340x820x2160mm	1640x820x2160mm
Functions	High/Low Temperature	Yes					
	Remote Alarm contact	Yes					
	Sensor Failure	Yes					
	Door Ajar	Yes					
	Door lock	Yes					
	Inner LED light	Yes					
	Power Failure	Optional					
Accessories	Castor	Yes					
	Test Hole	Yes					
	Shelves/Inner Doors	5/-					
	Foaming/Glass Door	optional	optional	optional	optional	N	N
	USB Interface	optional					
	Temperature Recorder	optional					

33

2-15°C Laboratory Refrigerator

Temperature And Humidity Wireless Monitoring Cloud Platform

Temperature And Humidity Wireless Monitoring Cloud Platform

• **Application Area**

01 Pharmaceutical research and development

02 Biotechology

03 Sample libraty

04 Cell therapy

05 IVF

06 Cold chain transportation

07 Other

• **Application Area**

Application Area	Product Application	ULT Freezer	Cryo Freezer	Blood Refrigerator	Reagent Refrigerator

Liquid Nitrogen Container	CO2 Incubator	Constant-Temperature Incubator	Plant Incubator	Cold Room	Laboratory Environment

• User Pain Points

FAQ

The equipments are scattered and far away from the office, and failures cannot be found immediately.

No one on duty,abnomal equipment or power failure causingdamage to samples .

The interval between manual temperature records is toolong,and the anomaly in the middle is not processed in time

Failure to master equipment perfomance during holidays orbusiness trips.

Remote operation, remote alam

Cloud technology

SMS, Email WeChat Mobile APP

Reliable and stable data

The solution

Accurate temperature and humidity collection, strict permission management data backup, log record

Manual recording, data archiving, and query processing are very cumbersome.

Equipment with temperature records lost data because it forgot to change paper.

Unable to provide management with data certified as eligible for preservation.

Record, query alam

Real-timg displayrecords, tabularhistory, graphicalhistory, multiplestyle reports

Too much equipment, leading to complex and chaotic alignmentthere is a hidden danger of failure.

Easy to set up andeasy to install

Wireless network

No power outages, continuous power outages, equipment outages, surveillance outages.

Battery power

Low power consumption cloud technology, two years of effective work

36

Temperature And Humidity Wireless Monitoring Cloud Platform

- **Product Introduction**

Smart Sensor　　　　**Smart Box**　　　　**Management Cloud**

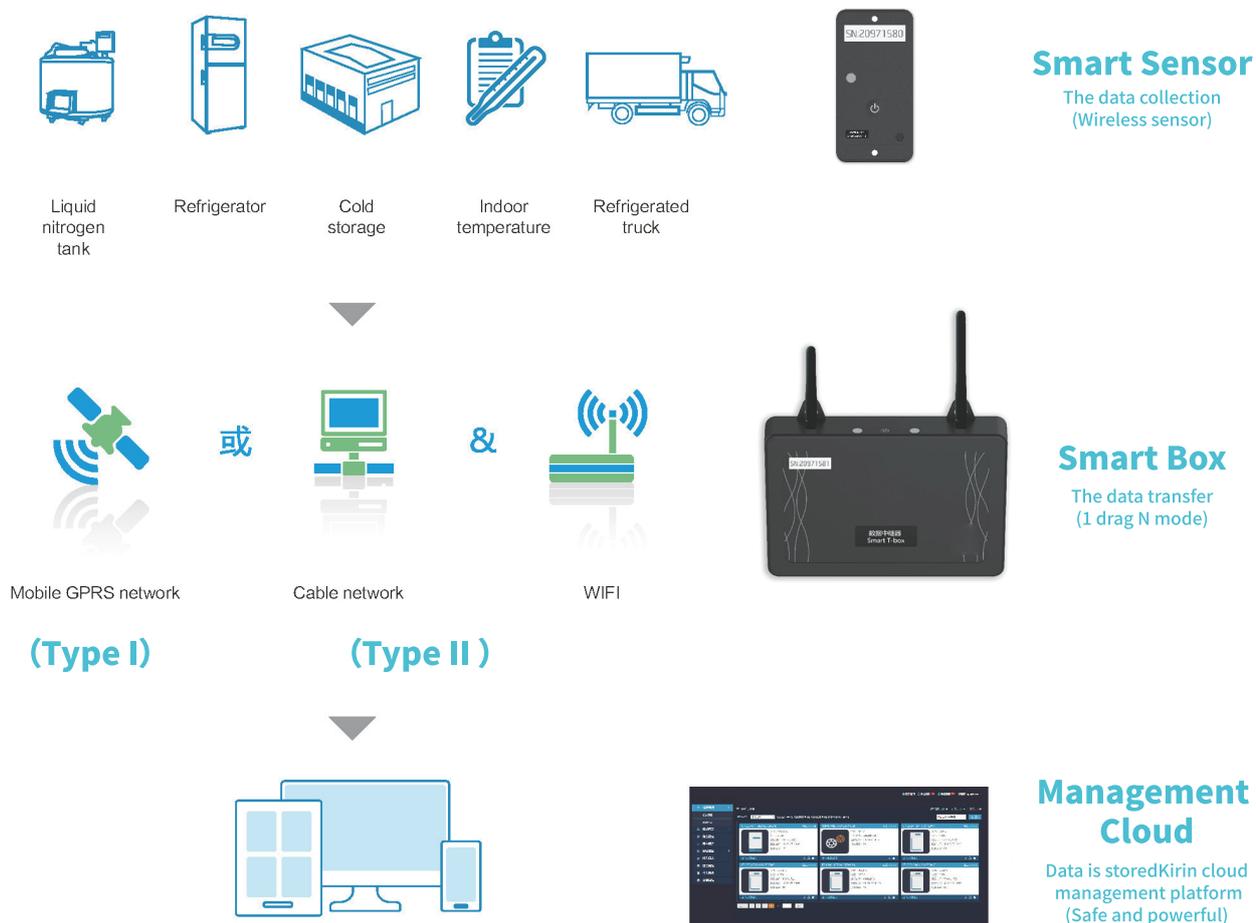**Temperature and humidity wireless monitoring system consists of three parts:**

smart sensor,smart box and management cloud.Users only need to register and log in to the management platform to achieve device Settings, data viewing and download, when the warning value exceeds,
the system automatically pushes alarm information through SMS, email and WECHAT.

This system can strictly test the environment and equipment:

1. Monitoring environment: warehouse, clean room, blood bank, pharmacy, cold storage, animal room, laboratory;
2. Monitoring equipment: stability test box, freezer, refrigerator, constant temperature and humidity box, ultra-low temperature refrigerator, liquid ammonia box, oven.

• Product Topology Diagram

Liquid nitrogen tank

Refrigerator

Cold storage

Indoor temperature

Refrigerated truck

Smart Sensor

The data collection
(Wireless sensor)

Mobile GPRS network

或

Cable network

&

WIFI

Smart Box

The data transfer
(1 drag N mode)

(Type I)

(Type II)

Management Cloud

Data is storedKirin cloud
management platform
(Safe and powerful)

After the data is collected by various sensors (SMART SENSOR), the data repeater (SMART BOX) via mobile GPRS network (Type I), wired network or WIFI mode (Type II)

Upload management platform, users only need to register, login to achieve monitoring and management.

Temperature And Humidity Wireless Monitoring Cloud Platform

• **Data Sensor**

Wireless temperature and
Humidity sensor
(Smart sensor T1)

Wireless temperature
sensor(Smart sensor T2)

• **Basic Parameters**

MODEL	Temperature Range	Humidity Range	Temperature Error	Humidity Error	Temperature Resolution	Power Supply mode	Frequency of operation	Installation method
Smart sensor T1	-20C—60C	0-100%RH	±0.2℃	±0.2%RH	0.01	Internal power supply (replaceable)	425-441Mhz	The module is placed inside the device
Smart sensor T2	-200C-150C	—	±0.5℃	—	0.01	Internal power supply (replaceable)	425-441Mhz	The probe is placed inside the device

• **Product Features**

SMART TRANSMISSION — Internet of things LORA technology, optimal transmission path for intelligent matching data.

ULTRA LOW POWER CONSUMPTION — The built-in power supply can work independently for more than two yeas and easily replace the battery or use USB charging.

REMOTE TRANSMISSION — Effective transmission distance greater than 200 meters to ensure signal permeability and data stability.

ULTRA THIN BODY — Compact size, convenient and flexible, with waterproof, dust-proof, moisture-proof and other characteristics.

- ## **Data Repeater**

Wireless data repeater
(Smart T-BOX)

- ## **Basic Parameters**

MODEL	Use Temperature	Storage Capacity	Network System	External Antenna	Power Supply Mode	Frequency Of Operation	Installation method
Smart T-Box	Normal Temperature Environment	In-buit datastorage TFcard	Type l:GPRS Type ll:WIF	Select antenna or gain antenna according to actual requirements	Interna power. USBcharging	425-441Mhz	The module is placed in a room temerature environment and has a power supply

- ## **Product Features**

ULTRA LOW POWER CONSUMPTION

Internal power can work independently for more than 7 days.

WIDE DOMAIN NETWORK

Up to 255 acquisition modules can be uploaded.

AUTOMATIC FREQUENCY CONVERSION

When the frequency is disturbed by the outside world, it can automatically transfer to the undisturbed frequency for data transmission to ensure that the data is stable and reliable.

FREEDOM OF NETWORKING

Data transmission by means of GPRS / cable network / WIFI to meet global user needs.

Temperature And Humidity Wireless Monitoring Cloud Platform

- **Wireless Monitoring Cloud**


41

- **Functions**

01	02	03	04
Full Monitoring	**Data Storage**	**Remote Warning**	**Record Report**
The target monitoring-object can be achieved24 hours a day, at anylocation, the wholeprocess ofuninter-ruptedmoni-toring andmanage-ment.	Automatic recording. preservation of all monitoring data anddownloadable asrequired	When the monitoring-data exceeds thedefault threshol-dremote warning can beachieved throughSMS,email, WechatAPP, etc...	Monitor data recordscan form data reportsaccording to userneeds to facilitate filingand filing

• **Product Features**

01 Stable and reliable cloud server

Relying on Alibaba Cloud's mature solutions to establish a professional management platform, data security, stability, reliable system. The platform can be updated in real time, which greatly reduces the user's use and operation and maintenance costs, and improves the use efficiency.
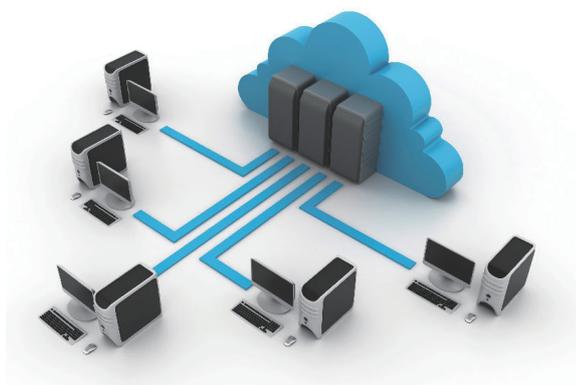
02 Convenient and efficient management logic

Users can carry out convenient and efficient management operations on the cloud management platform anytime and anywhere through computers, mobile phones, wechat, tablets, etc.

03 Simple and beautiful application interface

Through professional and humanized industrial design, it presents a first-class simple and beautiful application interface, so that users can operate and use pleasing to the eye. Users can log in to the management platform using 8 modules: Device management, alarm management, role management, user management, device data, operation log, interface management, personal information rights function.
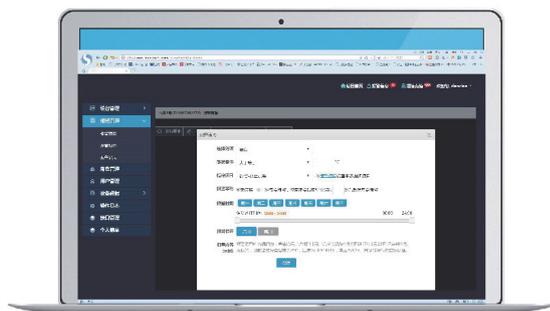
Qingdao Carebios Biological Technology Co.,Ltd

No.433-5 Sancheng Road, Lancun Town, Jimo District, Qingdao, Shandong.

Telephone: + 4001183626

Email: info@carebios.com

Web: www.carebios.com