REFRIGERATION
SOLUTIONS

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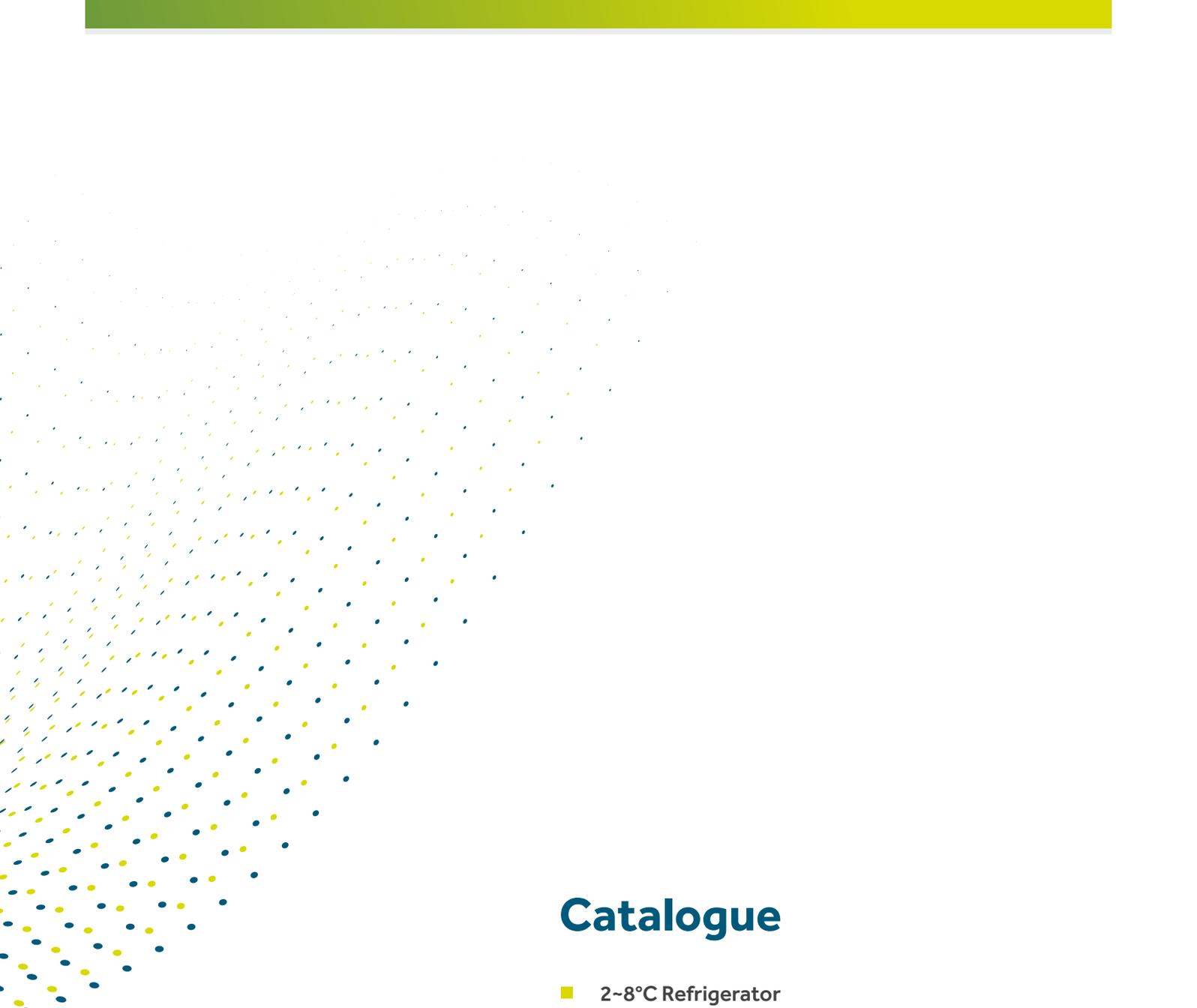
Catalogue

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2~8°C Pharmacy Refrigerator

5 series medical refrigerator

RF4P-395   **RF4M-525**   **RF4M-725**   **RF4M-1015**

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 Visibilty
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, 0 fluctuation, safer storage.

High-precision 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 opening alarm, power outage alarm.
• The compressor start delay and stopping interval protection function can ensure reliability in operation.
• The door is equipped with a lock, preventing it from opening accidentally

Refrigeration System
• Equipped with high quality compressor, 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, tag cards and classification marks, which are easy to clean.
• Equipped with a built-in USB datalogger, which can be used for storing data upto 694 days 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)	Input Power (W)	Number of Shelves	Net Weight (kg)
RF4P-395	395	2~8	650*673*1992	580*533*1352	290	6+1	95
RF4M-525	525	2~8	720*810*1961	610*685*1264	548	6	148
RF4M-725	725	2~8	1093*758*1972	980*595*1260	790	12	171
RF4M-1015	1015	2~8	1180*900*1990	1070*670*1515	796	12	221

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2~8°C Pharmacy Refrigerator

RF4M-1505

- **New Product**
- **Large Capacity**
- **Super Safe**

High-precision 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 opening alarm, power outage alarm.
- The compressor start delay and stopping interval protection function can ensure reliability in operation.
- The door is equipped with lock, preventing it from unauthorized opening

Refrigeration System
- Equipped with high quality compressor, high-efficiency air-cooled condenser and finned evaporator, ensuring fast refrigeration

Human-oriented Design
- 18 high-quality shelves made from PVC-coated steel wire allow for convenient sample storage and are easy to clean
- Quality liner, corrosion-resistant and easy to clean
- 6 casters with lockable front casters.
- Door with heater for better anti-condensation

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)	Internal Dimensions (W*D*H, mm)	Number of Shelves
RF4M-1505	1505	2~8	1800*798*1965	18

2~8°C Explosion-proof Refrigerator

EPR-360

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, high efficiency compressor, energy-saving and highly efficient.
• EBM fan, strong and even 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
• Well-developed security system with multiple audible & visual alarm function: sensor failure alarm, high/ low temperature alarm etc. to ensure the storage sample safety

Human-oriented Design
• The main cabinet is made of cold rolled steel and the interior 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 Dimension (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Input Power (W)	Net Weight (kg)
EPR-360	360	2~8	640*696*1880	530*565*1312	360	133

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2~8°C Ice Lined Refrigerator

Intelligent Control & Constant Temperature
Multiple Alarms Bring More Security

RF4M-150

RF4M-275

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, door open alarm
• The compressor start delay and stopping interval protection function can ensure reliability in operation.
• Door with a lock, preventing it from unauthorized opening
• Keep the temperature between 2°C ~ 8° at least 36 hours during power failure at the ambient temperature of 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 leveling foot, which makes it easier to be moved and fixed
• Stainless Steel 304 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)	Input Power (W)	Inventory 2" Box	Net Weight (kg)
RF4M-150	150	2~8	811*775*928	585*465*651	213	108	64
RF4M-275	275	2~8	1245*775*929	1019*465*651	275	270	87

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

CRE/CRF-300

CRE/CRF-519

High-precision Temperature Control
• High-precision microcomputer temperature control system.
• Multiple alarm sensors for High and low temperature, ambient temperature and evaporator temperature ensuring safe and stable running.
• High brightness digital temperature display with 1°C display precision.

Refrigeration System
• Equipped with high-efficiency compressor and fan for energy saving 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 -40°C settable for the down chamber. If one compressor is 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 opening alarm, power failure alarm, low battery alarm, data-logger failure alarm
• External door handle and padlock to prevent unauthorized opening
• 72 hours 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

Model	Effective Volume (L)	Temperature (°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Input Power (W)	Net Weight (kg)
CRE-300	300	R:2~8/F:-10~-26	700*640*1862	R:600*510*657/F:500*460*535	330	87
CRF-300	300	R:2~8/F:-10~-40	700*640*1862	R:600*510*657/F:500*460*535	367	100
CRE-519	519	R:2~8/F:-10~-26	910*740*1972	R:750*610*740/F:650*560*565	560	215
CRF-519	519	R:2~8/F:-10~-40	910*740*1972	R:750*610*740/F:650*560*565	652	215

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-10~-25℃ Biomedical Freezer

FRZ-270

FRZ-450

FRZ-226H

FRZ-508H

High-precision Temperature Control
• Digital temperature display. Inner temperature can be set within a range from -10℃ to -25℃.
• The high-precision microcomputer temperature control system and platinum resistor temperature sensors ensure more precise temperature control.

Refrigeration System
• Energy saving and environmental friendly compressor and EBM fan.
• The refrigerating circuit with proprietary intellectual property rights ensures high efficiency and stability. Hot gas pipe surrounding to prevent condensation.
• FRZ-450 has 2 cooling systems for separate chamber temperature control.

Security System
• The well-developed audible & visual alarm system makes it safer for storage: high and low temperature alarm, door open alarm, sensor failure alarm. FRZ-450 also has power failure alarm , low battery alarm and 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; FRZ-450 comes 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 (℃)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Input Power (W)	Net Weight (kg)
FRZ-270	270	-10~-25	700*640*1792	500*460*1235	335	90
FRZ-450	450	-10~-25	810*735*1955	(650*570*627)*2	340	133
FRZ-226H	226	-10~-25	1115*610*890	954*410*703	150	50
FRZ-358H	358	-10~-25	1350*735*880	1220*545*673	121	59
FRZ-508H	508	-10~-25	1650*735*880	1504*545*673	320	74

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-40°C Ultra-Low Temperature Freezer

LFRZ-27040

LFRZ-45040

High-precision Temperature Control
• Digital temperature display. The 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
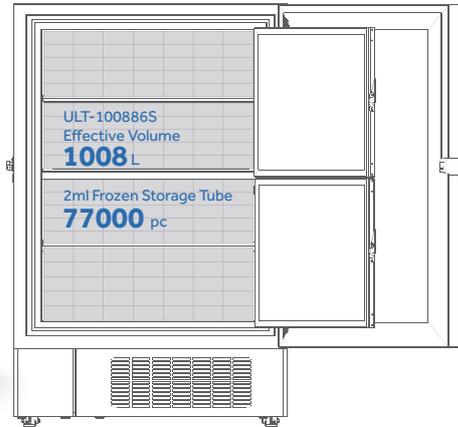
Security System
• Audible & visual alarm system: high and low temperature alarm, door open alarm, sensor failure alarm, power failure alarm, low battery alarm, USB data-logger alarm, system error alarm.
• The start delay and stopping interval compressor protection for reliable running.
• Keyboard lock prevent from operating parameters without permission.
• Door with lock, improving security of sample storage.
• 72 hours 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 gasket 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.

Model	Effective Volume (L)	Temperature (°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Input Power (W)	Net Weight (kg)
LFRZ-27040	270	-20~-40	700*640*1792	500*460*1235	575	94
LFRZ-45040	450	-20~-40	810*735*1960	(650*570*627)*2	840	144
LFRZ-67840	678	-20~-40	1090*1000*1965	750*696*1286	1060	258

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-86°C Ultra-Low Cryogenic Freezer

ULT-100886S

ULT-100886S
Effective Volume
1008 L

2ml Frozen Storage Tube
77000 pc

- Targeted Refrigeration
- Unique Refrigeration Circuit
- 5 energy saving magic weapons
- The three dimensional heat preservation

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 effective heat dissipation
- ULT-77886S/100886S with twin-compressor, if one is damaged, the other one could keep the temperature stable at -70°C.
- 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, senor error, power failure, low battery, door ajar, main board communication error, high ambient temperature, samples out of date notification 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 operation without permission.

Human-oriented Design
- The newly designed assisting handle and vacuum 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 for medical use is low- temperature tolerant and corrosion-resistant, which has a long service life and is easy to clean;
- The universal casters and levelling 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)	Input Power (W)	Net Weight (kg)
ULT-39886S	398	-40~86	785*1041*1947	440*696*1266	980	237
ULT-52886S	528	-40~86	930*1041*1947	585*696*1266	1445	286
ULT-77886S	778	-40~86	1205*1025*1955	865*696*1286	2050	365
ULT-100886S	1008	-40~86	1362*1025*2002	1022*696*1378	2600	430

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-86°C Ultra-Low Temperature Freezer

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

Security System
- The perfect audible & visual alarm system :High/low temperature, senor error, power failure, low battery, door ajar, high ambient temperature, communication failure 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, 4units Casters for easy handing.
- Front lockable door provides VIP Plus vacuum insulation, which enables temperature uniformity and avoids overheating.
- Two-times foaming technology. 130mm foaming insulation with VIP board for better temperature performance.

ULTC-5086

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. 130mm 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 opening, 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 and password protection functions can prevent any adjustment of operating parameters without permission.
- 72 hours back-up battery for display and alarms system during power failure for supportive safety notification

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

ULTC-13886

Model	Effective Volume (L)	Temperature (°C)	External Dimensions (W*D*H, mm)	Internal Dimensions (W*D*H, mm)	Input Power (W)	Net Weight (kg)
ULTC-5086	50	-40~86	650*606*1080	430*305*425	970	74
ULTC-13886	138	-40~86	1320*890*1030	490*470*580	1270	200
ULTC-32886	328	-40~86	2005*890*1009	1200*470*570	1050	280
ULTC-66886	668	-40~86	2033*1190*1037	1200*815*610	1950	352

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4±1°C Blood Bank Refrigerator

Precise Temperature Control Safeguarding Security of Blood

BBR-88	BBR-268	BBR-368	BBR-618

Control System
• 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, 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 outage) makes it safer for storage
• The compressor start delay and stopping interval protection function can ensure reliability in 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, two front castors have self-locking function.

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)
BBR-88	88	4±1	450*550*1505	340*410*780	433	3	100
BBR-268	268	4±1	640*700*1856	518*507*1310	400	5	120
BBR-368	368	4±1	860*710*1856	675*493*1310	530	6	200
BBR-618	618	4±1	812*912*1978	685*690*1378	465	6	179

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Flake Ice Makers

FIM-500

FIM-70

Features

• High quality stainless steel body for long life and durability.
• Insulated ice storage bin and door minimize air condensation and water formation on equipment surfaces and reduce energy consumption
• Widely used in research and medical labs, health care facilities, food and beverage industries, pharmaceuticals, chemical industries, etc.
• Available in production capacities ranging from 20 to 1000 kg per day
• Models with production capacities from 20 to 200 kg per day come with a storage bin. Compatible storage bins are available for products with 500 and 1000 kg production capacity

Technical Specifications

Model	Rated Capacity / 24 hrs.*	Ice Storage Capacity	Refrigerant	Power (w)	Dimensions wxdxh (mm)
FIM-20	20 kgs.	10 kgs.	R 134a	280	330*470*605
FIM-50	50 kgs.	15 kgs.	R 134a	380	400*540*700
FIM-70	70 kgs.	25 kgs.	R 134a	460	400*510*845
FIM-120	120 kgs.	40 kgs.	R 134a	550	500*611*950
FIM-200	200 kgs.	60 kg	R 134a	1040	650*740*1100
FIM-500	500 kgs.	-	R404a	2000	760*830*800
FIM-1000	1000 kgs.	-	R404a	4000	1227*973*940

Compatible Storage Containers

Model	Capacity	Dimensions	Compatible with
FIC 125	Ice Storage Container (125 kgs)	760*830*1150	FIM-500
FIC 315	Ice Storage Container (315 kgs)	1227*973*1255	FIM-1000

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Laboratory Consumables

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.
- Perfectly suitable for standard sized freezer boxes.
- Provide personalized customization.
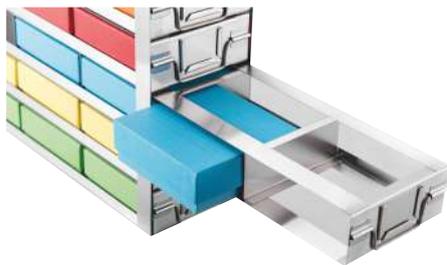
Sliding-drawer Freezer Rack (Including handle size)

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

## Sliding-drawer 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 suitable for liquid nitrogen tank sample storage.

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Laboratory Consumables

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 and error free access
• Available in five colors: transparent, pink, blue, green and yellow
• There are gaps for the surrounding of the box, which facilitates rapid cooling of the sample and liquid discharge, and is not easy to frost
• Angle special design to avoid mis-operation of box cover
• Standard size design, suitable for all standard storage racks
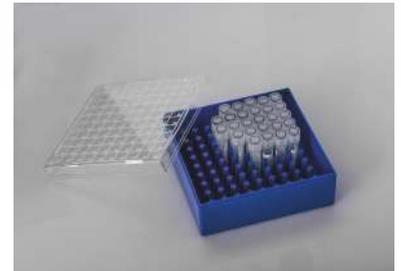
PC Box

• Use medical-grade transparent poly carbonate material, wear resistant
• Temperature range from -196   to 121   , 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
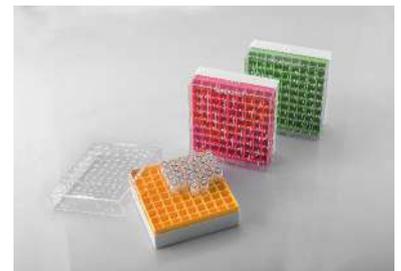
PA Box

• 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 it is 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.

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