Haier Biomedical
Intelligent Protection of Life Science

Product Portfolio

Key Features and Unique Selling Points

UK
Netherlands
Qingdao
China
Suzhou
Chongqing
USA
Nigeria
Dubai
India
Singapore
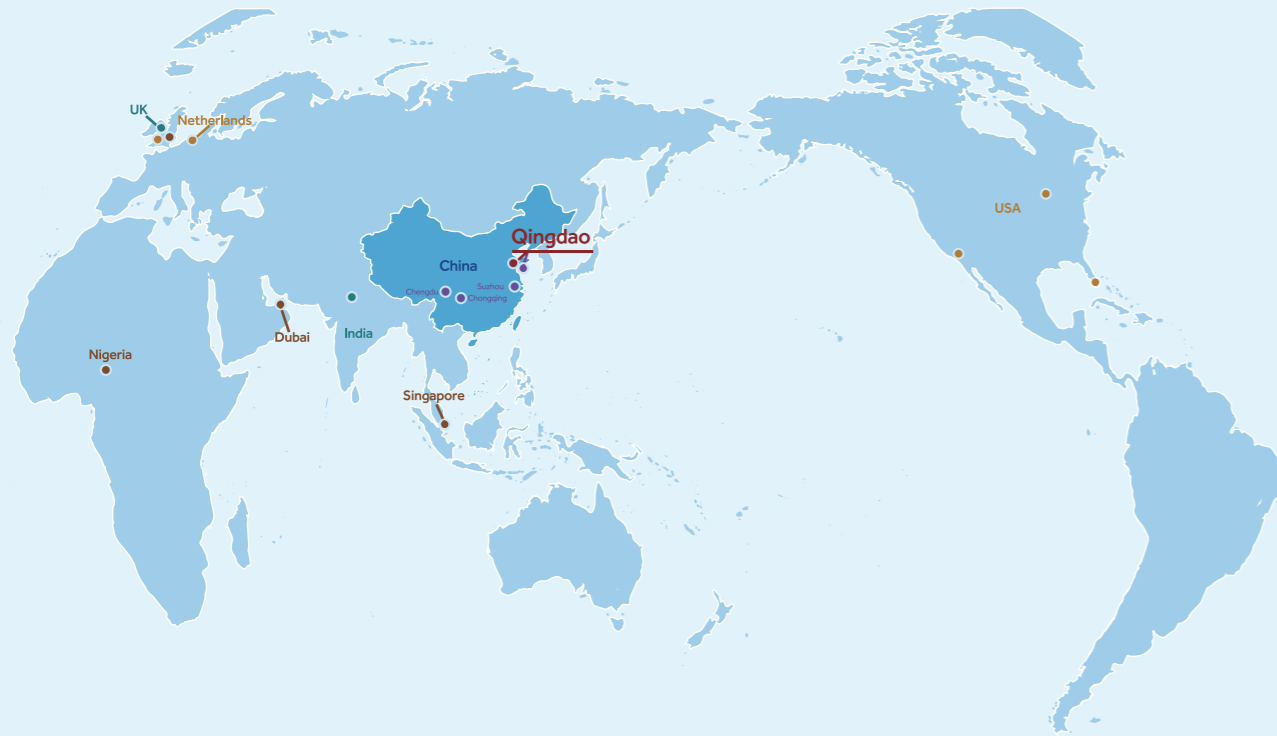
● Headquarter ● Global warehouse ● Training center ● Global subsidiary ● Manufacturing base
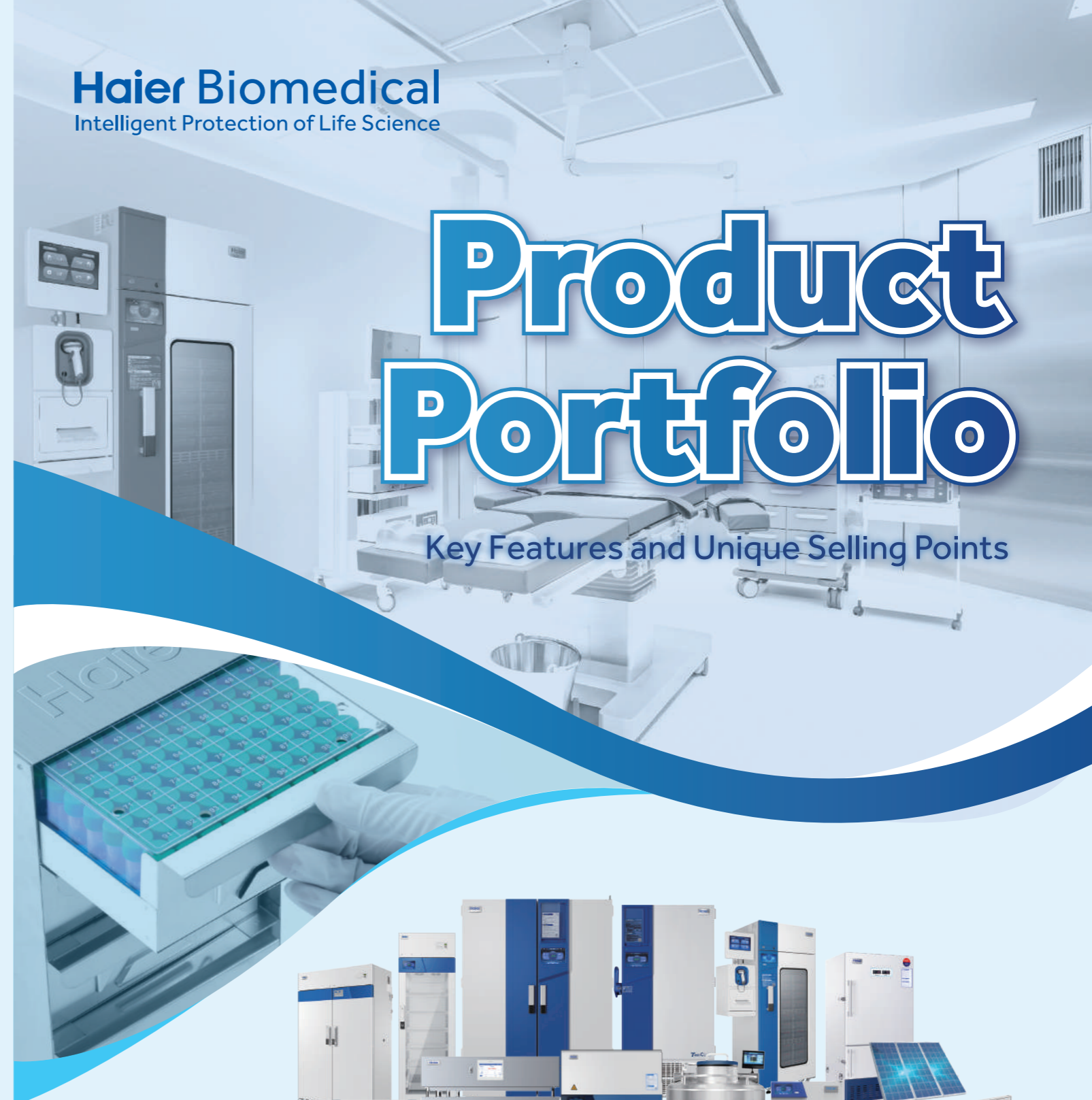
in Haier Biomedical International

Haier Biomedical International

@haiermedicalint

f Haier Biomedical International

▶ Haier Biomedical International

2023.08

Note:If a slight difference occurs between pictures and actual products, please refer to actual products. Our company reserves the right of final interpretation of this brochure, please contact us for any further information if required.

Note:

CE Products with CE Certification.

NSF Products with NSF Certification.

Products with Energy Star Certification.

Products are manufactured with Touch Screen.

Products are manufactured with Hydrocarbon Refrigerant.

Company Profile

Established in Qingdao, China in 1984, the Haier Group is a world-leading provider of solutions for a better life. With ongoing and sustainable innovation and entrepreneurship, Haier always upholds the principle of "prioritizing people's value". In September 2005, Mr. Zhang Ruimin, Chairman of the Board and CEO of Haier Group, proposed the Rendanheyi Management Model, whose contemporary features, universality and social characteristics have achieved trans-industry and trans-culture fusion and replication. Focusing on user experience and keeping abreast of the times, Haier has experienced six strategic stages: brand building strategy, diversification strategy, internationalization strategy, global branding strategy, networking strategy and ecosystem brand strategy, growing from the once collectively owned small factory on the verge of bankruptcy into an ecosystem that leads the world in the IoT era. As the world's first and only IoT ecosystem brand, Haier has been included on the list of BrandZ Most Valuable Global Brands for three consecutive years and listed in "The World's 500 Most Influential Brands" of the World Brand Lab for 17 years straight. Haier serves over 1 billion families in 160 countries or regions around the world. To date, Haier has successfully floated three listed companies (Haier Smart Home, Haier Biomedical, INKON Life), five large-scale higtech enterprises and 37 medium-sized high-tech companies. Moreover, the Group has established 10+N innovation ecosystems, 28 industrial parks, 122 manufacturing centers, 108 marketing centers and 240,000 sales networks globally.

Company Profile

The Haier Group owns several ecosystem brands and new acquisitions, including Haier, Casarte, Leader, GE Appliances, Fisher & Paykel, AQUA, Candy, COSMOPlat, THREE-WINGED BIRD, Ririshun, Yingkang Life, Haina Cloud, HCH and Haier Brothers as key examples.

Haier has topped Global Major Appliances Brand Rankings by Euromonitor International for 12 consecutive years. The Group's subsidiary Haier Smart Home is among the list of Fortune's Global 500 and World's Most Admired Companies and Forbes' World's 2,000 Largest Public Companies. The COS- MOPlat industrial Internet platform under the Haier Group has topped the cross-sector and cross-field industrial internet platforms of the Ministry of Industry and Information Technology of the People's Republic of China for two years straight. The company was named a leader in Industrial IoT platforms by Forrester and was designated by ISO, IEEE, and IEC, the three major international standard organizations, to lead the drafting of international standards for mass customization models.

Upholding the vision of "creating new growth engine in the era of IoT with the Rendanheyi Model", Haier is committed to working with its world-class ecosystem partners to continuously build and upscale the brand, scenario brand and ecosystem brand, and to set up IoT ecosystems in clothing, food, accommodation, travel, health, elderly care, biomedicine and education, and to tailor personalized smart life for users around the globe.

10+N
R&D Centers

108
Marketing Centers

28
Industrial Parks

122
Factories

160+
Countries or Regions

Haier Biomedical was founded to focus on the design, manufacturing, marketing and sales of low temperature storage equipment for biomedical samples. In 2019, the company successfully listed on the Shanghai Stock Exchange Science and Technology Innovation Board. Expanding more broadly within life science applications, Haier Biomedical utilizes digital technology within its new generation IoT-enabled products to provide comprehensive, customer-centric solutions for common challenges within applications such as blood supply management, vaccine delivery programmes, biobanks, biological sample management, reagent storage and pharmaceutical supply chain.

After more than ten years of development, Haier Biomedical has more than 700 patents. Haier Biomedical's aerospace medical cold storage refrigerators have been carried on the Shenzhou spacecraft into space multiple times, and the ULT freezers have been carried on the research vessel, Xuelong, supporting the Antarctic scientific research programme. Haier Biomedical also assisted in the development of the Chinese Bone Marrow Bank, National Gene Bank and many national strategic support projects.

In 2018 a series of Smart solutions were launched - U-Blood, U-Vaccine, U-Biobank and U-Reagent and U-Lab, these solutions are based on Haier Biomedical's IoT expertise and the core technology advantages in the biomedical cold chain.

The U-Blood solution is based on IoT-enabled blood refrigerators, linking blood collection, blood delivery and clinical blood use settings to ensure in real-time the traceability of blood information from "blood donor" to "blood user". This solution upgrades the users to a model which speeds up blood type matching and blood delivery times, reduces reagent usage, and costs and achieves zero blood wastage, providing better value and better patient outcomes and care.

The U-Vaccine solution is based on the IoT-enabled vaccine refrigerators, providing transparent end-to-end management of vaccines, ensuring vaccine safety and improving vaccination efficiency, security and reliability from manufacturer to inoculation.

Haier Biomedical built the first ecological solution for safe vaccine storage including solar-powered vaccine refrigerators, to effectively ensure the safety of children's vaccination in countries along the Belt and Road and emerging economies, including hard to reach areas due to lack of infrastructure and or access to a sustainable electricity supply. As the first company to be selected into the World Health Organization PQS procurement catalogue, Haier Biomedical has been cooperating with the WHO organization and other internationally recognized NGO's to safeguard the health of 200 million children worldwide.
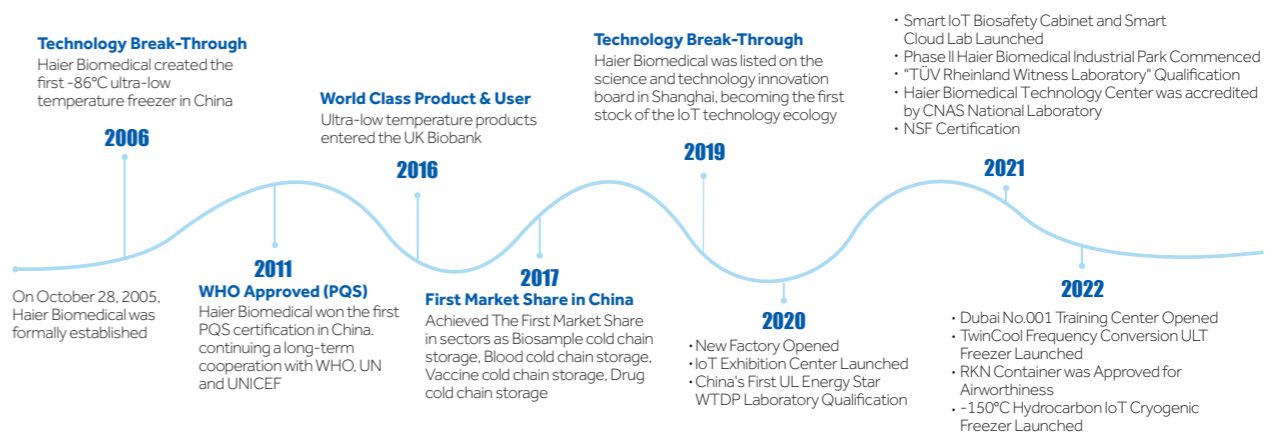
IoT-enabled ultra-low temperature freezers are used with the U-Biobank software solution which links sample collection, storage and application scenarios to achieve efficient sample management, precise sample positioning, one-click access and fully traceable data for compliance.

The U-Reagent solution solves a common and significant problem of 'loss' within reagent management, enabling zero wastage of pharmaceutical reagents, quick inventory and real-time information, creating efficient and more cost-effective reagent supply chain management.

Haier Biomedical is a corporate and socially responsible organization to its stakeholders and the world at large and through product innovations, solar-powered products and world-leading energy-saving refrigeration technologies it provides environmentally-friendly products to over 150 countries.

Utilizing IoT solutions within manufacturing, Haier Biomedical can monitor and control, in real-time, complex automated processes. This delivers significant benefits in terms of energy conservation, facility and resource management, production flow monitoring and inventory management to quality control, packaging, logistics and supply chain optimization. It ensures its manufacturing operations, technological developments and supply chain and customers collectively support sustainable business practices.

Haier Biomedical Development Stages:

Technology Break-Through
Haier Biomedical created the first -86°C ultra-low temperature freezer in China
2006

On October 28, 2005, Haier Biomedical was formally established

2011
WHO Approved (PQS)
Haier Biomedical won the first PQS certification in China. continuing a long-term cooperation with WHO, UN and UNICEF

World Class Product & User
Ultra-low temperature products entered the UK Biobank
2016

2017
First Market Share in China
Achieved The First Market Share in sectors as Biosample cold chain storage, Blood cold chain storage, Vaccine cold chain storage, Drug cold chain storage

Technology Break-Through
Haier Biomedical was listed on the science and technology innovation board in Shanghai, becoming the first stock of the IoT technology ecology
2019

2020
• New Factory Opened
• IoT Exhibition Center Launched
• China's First UL Energy Star WTDP Laboratory Qualification

• Smart IoT Biosafety Cabinet and Smart Cloud Lab Launched
• Phase II Haier Biomedical Industrial Park Commenced
• "TÜV Rheinland Witness Laboratory" Qualification
• Haier Biomedical Technology Center was accredited by CNAS National Laboratory
• NSF Certification
2021

2022
• Dubai No.001 Training Center Opened
• TwinCool Frequency Conversion ULT Freezer Launched
• RKN Container was Approved for Airworthiness
• -150°C Hydrocarbon IoT Cryogenic Freezer Launched

-150°C Cryo Freezer
Models: DW-150W209

- Safe, more convenient, and economical, compatible with LN₂ (optional)
- Adjustable temperature range of -130°C to -150°C
- Environmentally friendly HC refrigerants
- Microprocessor control system with clear LCD display
- Multiple alarms for safety and sample protection

-86°C TwinCool Frequency Conversion ULT Freezer
Models: DW-86L828ST, DW-86L728BPST, DW-86L578BPST

- Dual refrigeration system, double safety, and optimal reliability
- Intelligent frequency conversion technology and HC refrigeration system ensure low energy consumption
- Low noise design
- Optional IoT software system

-86°C Frequency Conversion ULT Freezer
Models: DW-86L959BP(T)/829BP(T)/729BP(T)/579BP(T)

- Adaptive control follows user patterns, load, and environmental conditions
- Ultra low power consumption
- Temperature uniformity of ±3°C (setting temperature at -80°C)
- Standard LED (BP) and Touchscreen (BPT) models available
- Optional IoT software system

-86°C TwinCool ULT Freezer
Models: 728S(T)/578S(T)

- Dual refrigeration system for ultimate sample protection
- High speed refrigeration system for faster pull down and temperature recovery
- Low noise design
- Standard LED (S) and Touchscreen (ST) models available
- Remote alarm and USB connectivity
- Optional IoT software system

-86°C Water-Cooled ULT Freezer
Models: DW-86L959W/828W

- Water cooled ULT freezers use less energy and heat emissions are reduced by 90%
- Temperature uniformity of ±3°C (setting temperature at -80°C)
- Intelligent control system
- 10-inch large LCD capacitive screen
- Multiple alarm protection with USB and remote alarm connectivity

-86°C Standard Low Energy ULT Freezer with Touchscreen
Models: DW-86L829/729/579/419

- 10-inch touchscreen with single version inventory management allows users to easily record item locations, entry and exit records for intelligent stock management
- Temperature uniformity ±4°C (setting temperature at -80°C)
- Equipped with an intelligent temperature monitoring system, real-time temperature data monitoring function (optional) and multiple safety alarm system
- Advanced hydrocarbon energy saving refrigeration technology

-86°C Standard Low Energy ULT Freezer
Models: DW-86L828J(A)/728J(A)/628E/486E/578J(A)/490J(A)/388J/338J(A) & DW-86W420J(A)/100J

- Standard low energy models utilising hydrocarbon energy saving refrigeration technology
- Temperature uniformity of ±5°C (setting temperature at -80°C)
- Microprocessor controller with multiple alarms
- Remote alarm contacts and USB interface as standard
- Large selection of sizes and configurations to meet most requirements, from 100L to 828L

-86°C Under Counter ULT Freezer
Model: DW-86L100J

- Microprocessor controller with LED display and multiple alarms
- Optimized auto-cascade refrigeration technology (single compressor)
- On or under-counter stackable design
- Low noise design
- Optional IoT module

-86°C ULT Freezer
Model: DW-86L51J

- Ergonomic & user friendly design
- Hydrocarbon energy saving
- Safe, secure and reliable
- Microprocessor control system
- Tool-free removable filter design
- Multiple data ports

Controlled Rate Freezer
Model: CJ-L37

- Precise temperature control
- 7-inch touchscreen LCD console, easy to operate
- Liquid nitrogen allowance warning
- Single handle press lock, simple and labor-saving
- Equipped with a real-time temperature curve printer and electronically archived temperature records

Mini ULT Freezer
Models: DW-80WZ15

- High quality HC high-efficiency compressor, energy saving and environmental friendly
- Superior uniformity and insulation performance
- Hidden metal handle, safe and durable, easy to carry

CO₂ Backup System

- Provides back-up in event of ULT failure to control cabinet temperature
- User adjustable temperature setting and low CO₂ level alerts
- Small footprint, top mounted design
- Suitable for almost all types of ULT freezer

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Consumables & Biomedical Freezer

Biomedical Freezer

LN₂ Backup System

- Interlocked design to turn off the LN₂ injection when the door is opened
- Light weight and portable design, suitable for installation on top of a freezer
- Alarm functions include low battery and sensor error

Consumables for ULT Freezer (category)

- SBS (Styreneic Block Copolymers) racked 2d cryogenic vial
- Innovative cryogenic vial
- Conventional cryogenic vial

- Freezer boxes
- Freezer racks
- PCR consumables

-60°C Biomedical Freezer
Models: DW-60W388/258/138

- -60°C deep freezing
- Auto-cascade refrigeration technology
- Energy saving and environmentally friendly refrigeration technology
- Super quiet high-efficiency compressor
- Polyurethane and VIP construction
- Superior thermal insulation performance

-40°C Biomedical Freezer
Model: DW-40L568J

- Large 568L freezer with adjustable shelves and optional freezer racks for plasma bag storage
- Optimized energy-saving hydrocarbon refrigeration system
- Super quiet high-efficiency compressor
- Temperature uniformity of ±4°C (setting temperature at -40°C)
- Structural noise reduction design

-40°C Biomedical Freezer
Models: DW-40W380J/255J/138J & DW-40L508/348 & DW-40L278/262/92 & DW-40L298J/418D/528D

- Standard biomedical freezers with direct cooling and manual defrost
- Large selection of sizes and configurations to meet most requirements from 92L to 528L
- Reliable temperature control and performance
- Clear display with multiple alarms

-30°C Forced Air Cooling Biomedical Freezer
Models: DW-30L1280F

- Dual system hydrocarbon refrigeration technology
- Intelligent defrosting technology safeguards the stability of storage temperatures
- Temperature uniformity of ±3°C (setting temperature at -30°C)
- Low noise design, 45.4 dB(A) for 220V/50HZ
- Optional blood basket storage racks to store up to 900 x 200ml blood bags
- Optional touchscreen

-30°C Biomedical Freezer
Model: DW-30L818BP

- Energy saving with variable speed inverter technology and HC refrigeration
- Super low energy and low noise design
- Excellent temperature uniformity of ±3°C in a large storage space (setting temperature at -30°C)
- Adjustable shelves

-30°C Forced Air Cooling Biomedical Freezer
Model: DW-30L420F

- Uniformed forced air circulation & auto defrost
- Uniformed temperature and high-performance refrigeration
- Built-in evaporator and adjustable shelving
- Alarm record query function – high/low and average temperature data
- USB interface

-30°C Biomedical Freezer
Models: DW-30L818/508/278

- High-efficiency and energy-saving compressor and refrigeration system
- Superior temperature uniformity of ±4°C (for DW-30L818, ±3°C) (setting temperature at -30°C)
- Green and environmentally friendly
- Low noise level

-25°C Biomedical Freezer
Models: DW-25L262/92

- Direct cooling and manual defrost
- Environmentally-friendly and energy efficient hydrocarbon refrigeration
- Mechanical lock plus lock catch design
- Clear LCD display with multiple alarms
- Supplied with storage drawers

Pharmacy Refrigerator
Models: HYC-639/410

- Forced air cooling for optimal temperature stability and uniformity ±2°C (setting temperature at 5°C)
- HC refrigerant technology to ensure lower energy consumption
- LED temperature display with multiple alarms

Pharmacy Refrigerator
Models: HYC-940/940F/390/390F/290

- Energy efficient design with inverter compressor technology and environmentally-friendly hydrocarbon refrigeration
- Large space, superior uniformity. The space is efficiently used, and the utilization rate is high and the temperature uniformity is ±3°C
- Optimised internal space design with multi-level adjustable shelves
- LED display with multiple alarms

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Pharmacy Refrigerator
Models: HYC-1378/610

- Standard pharmacy refrigerators with forced-air cooling
- Model HYC-1378 internal temperature uniformity ±2°C; HYC-610 ±3°C (setting temperature at 5°C)
- Microprocessor controller with LED display with multiple alarms
- Condensation-free heated self-closing door

Under-counter Pharmacy Refrigerator
Models: HYC-118/118A/68/68A

- High-efficiency hydrocarbon compressor and refrigerant
- Air cooling, with auto defrost for superior cabinet temperature uniformity
- Small size, fitting easily under the table
- Microprocessor control with LED and multiple-alarms, the backup battery lasts 8 hours after power failure
- Remote alarm terminal

Combined Refrigerator and Freezer
Model: HYCD-469 (A)

- Temperature range: Refrigerator 2°C ~ 8°C and Freezer -10°C ~ -40°C
- Microprocessor temperature control accuracy 0.1°C (refrigerator) and 1°C (freezer)
- Separate doors for refrigerator and freezer with independent lock catches
- Multiple alarm functions
- Large LED screen display
- USB port
- Optional printer
- Four casters and two levelling legs

Combined Refrigerator and Freezer
Models: HYCD-282 (A)

- Dual, independently controlled refrigeration and freezing systems
- Stainless steel interior
- The backup battery lasts 48 hours after power failure
- Remote alarm contacts
- USB interface for data download

Spark Free Refrigerator
Models: HLR-310SF/310FL/118FL/118SF

- 3~16°C setting temperature range
- Internal temperature uniformity ±3°C (setting temperature at 5°C)
- One-touch search for historic data
- ATEX rated, certified spark-free

Intelligent Reagent Refrigerator
Models: HYC-509R/390R

- Intelligent inventory management
- Accurate temperature control and reliable operation
- Full RFID signal coverage inside the refrigerator, 100% inventory accuracy
- Frequency conversion energy saving

Frequency Conversion Pharmacy Refrigerator
Models: HYC-1099/1099F/509/509F

- Excellent temperature uniformity of ±2°C (setting temperature at 5°C)
- Solid or glass door options
- Frequency conversion technology with adaptive control
- Environmentally-friendly and energy efficient HC refrigeration

Frequency Conversion Pharmacy Refrigerator with Touch Screen
Models: HYC-1099T/1099TF/509T/509TF

- Intelligent and interactive touchscreen control
- Excellent temperature uniformity of ±2°C (setting temperature at 5°C)
- Solid or glass door options
- Frequency conversion technology with adaptive control
- Environmentally-friendly and energy efficient HC refrigeration

Advanced Blood Bank Refrigerator
Models: HXC-1369/629(B)/429/149

- Consistent and reliable temperature performance of 4±1°C
- Frequency conversion technology with adaptive control
- Environmentally-friendly and energy efficient HC refrigeration
- NFC card module
- USB interface as standard with remote alarm in real time

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Smart Blood Bank Refrigerator
Models: HXC-1369T/629T(B)/429T/149T

- Smart touchscreen controller with NFC card access and optional fingerprint module
- Consistent and reliable temperature performance of 4°C ±1°C
- Frequency conversion technology with adaptive control
- Environmentally-friendly and energy efficient HC refrigeration

Automated Blood Bank Refrigerator
Models: HXC-629R(B)/429R/149R

- Automatic RFID tag identification
- IoT management of input & output inventory
- Smart touchscreen controller with NFC card access
- Consistent and reliable temperature performance of 4°C ±1°C
- Frequency conversion technology with adaptive control
- Environmentally-friendly and energy efficient HC refrigeration

Unattended Self-service Blood Distribution Refrigerator
Model: HXC-629ZZ

- Electronic checking and bar code management
- Safe and reliable, making blood collection process traceable
- Real-time view and control of refrigeration operation

-30°C Plasma Freezer
Models: DW-30L1280FT

- RFID Solution with real-time IoT technology
- Hydrocarbon refrigeration, efficient and quick
- NFC permission management system combined with an electromagnetic lock, controllable flow direction and traceable information

Blood Bank Refrigerator
Model: HXC-106

- Microprocessor control system
- Consistent and reliable temperature performance of 4°C ±1°C
- Temperature accuracy of 0.1°C
- Multiple fault alarms and safety features

Blood Bank Refrigerator
Model: HXC-279

- High quality DC compressor for better stability
- Ultra-long holdover, superior thermal insulation
- High-efficiency rapid refrigeration
- Standard USB interface, it can store 10 years of temperature data
- 5 separate inner doors to reduce rapid cold air loss

Plasma Blast Freezer
Model: XSD-24FL

- High efficiency compressor and dual-cooling system, better performance
- Rapid-freezing temperature can be reduced to -60°C, superior performance
- Double sided touchable refrigeration method
- The central temperature of full-load plasma can be quickly frozen to below -30°C within 45 minutes, which effectively guarantees the activity of factor VIII
- Speed regulating fan & electric lifting system
- Whole process monitor of plasma quick freezing
- Traceability of each freezing cycle
- Printing and archiving functions

Plasma Blast Freezer
Model: XSD-48WFL/24WFL

- Low rapid-freezing temperature
- Data is printable and the information is traceable
- Preciese temperature control with precision of 1°C
- Plate rapid-freezing, efficient cooling
- Double layer for XSD-48WFL and monolayer for XSD-24WFL

Plasma Apheresis System
Model: XJ-II

- Intelligent identification, safe and effective error prevention system
- The whole process can be automatically monitored and managed
- Large touch screen, easy to operate
- Small footprint, movable and easy to use
- Optimized system and structural noise reduction design, low operating noise
- Optional cart facilitates the plasma's transfer

Platelet Incubator with Agitator
Model: HXZ-149/1369

- Precise temperature control
- Low noise
- Ultraviolet disinfection
- Superior insulation performance
- Energy saving

Active Cooling Logistics Cold Chain Transport Cooler
Model: HZY-40Z

- DC frequency conversion technology
- Tilt protection function
- Integrated rotational molding body
- Multiple power supply
- Supporting AC & DC power

Intelligent Control Cold Chain Transport Cooler
Models: BW25-8A/12A/18A/36A/64A;BW50-12A/36A

- Manufactured with vacuum insulation panel insulation technology, stable performance
- Light weight with inlaid clasp, easy to carry
- Smart IoT, check the insulation status at any time (Optional)

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Active Cooling Transport Cooler for Biological Products
Models: HZY-15Z/8Z

- For transportation of biological products 2°C ~ 10°C
- Economical and energy-efficient semi-conductor refrigeration
- Utilises PCM ice packs and high-density insulation
- At 25°C ambient or below maintains conditions for more than 2 hours (no power)
- 12V DC power supply

Active Cooling Transport Cooler for Biological Products
Model: HZY-8ZA

- For transportation of biological products 2°C ~ 10°C
- Economical and energy-efficient semi-conductor refrigeration
- Utilises PCM ice packs and high-density insulation
- At 25°C ambient or below maintains conditions for more than 2 hours (no power)
- 12V DC power supply

Active Cooling Transport Cooler for Biological Products
Model: HZY-15ZA

- For transportation of biological products 2°C ~ 10°C
- Economical and energy-efficient semi-conductor refrigeration
- Utilises PCM ice packs and high-density insulation
- At 25°C ambient or below maintains conditions for more than 2 hours (no power)
- Includes IoT enabled for real-time temperature data information and tracking

Passive Cooling Transport Cooler for Biological Products
Model: HZY-35B

- Utilises PCM ice packs and efficient ABS high-density insulation
- Maintains stable temperature of 2°C ~ 10°C
- At 43°C ambient or below maintains conditions for more than 8 hours
- Handle and casters for easy handling

Passive Cooling Transport Cooler for Biological Products
Model: HZY-5B

- Utilises PCM ice packs for cold chain transportation of blood and other biological products
- Efficient ABS high-density insulation
- Maintains stable temperature of 2°C ~ 10°C
- At 25°C ambient or below maintains conditions for more than 4 hours
- Access control integrated management software
- IoT enabled for real-time temperature data information and tracking

Active Cooling Transport Cooler for Infectious Materials
Models: HZY-15Z/8Z (Specimen)

- Semiconductor active refrigeration
- 2~6°C accurate temperature controlling
- Embedded PCM ice pack at 4°C for cold storage
- Under 25°C no-load condition, the air temperature in the box rising to 10°C takes more than 1 hour
- Under 25°C loading, the air temperature in the box rising to 10°C takes more than 2 hours
- Multiple fault alarms

Passive Cooling Transport Cooler for Infectious Materials
Models: HZY-10B (P620)

- Passive refrigeration system
- Longer insulation time
- PCM ice pack for cold storage
- The shell is made of aluminum-magnesium alloy, with high strength; Meeting the P620 packaging requirements of Class A infectious substances(HZY-10B) and the P650 packaging requirements of Class B infectious substances(HZY-10B) separately

Vaccine Transport Cooler
Models: QBLL0606/QBLL0812/QBLL0820/QBLL0830

- 2-8°C precise temperature control, suitable for vaccine cold chain transportation
- High strength medical plastic and non-fluorinated polyurethane foaming insulation material ensure durable and superior temperature insulation performance
- Easy to carry with shoulder strap

Smart Vaccine Refrigerator
Models: HYC-361/61

- The equipment is divided into 8 independent chambers. Only one of them needs to be opened each time to take the vaccine, so as to reduce the temperature fluctuation and keep the temperature constant from 2°C to 8°C to ensure the safety of the vaccine
- 10 inch touch screen. Touch control, easy to operate
- Customizable cartoon appearance. Cartoon appearance enhances affinity and reduces children's fear of vaccination
- Electronic label
- Cold chain monitoring. Users can check the temperature of the recent 24-hour, 7-day and 30 days on the screen

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Solar Direct Drive (SDD) Vaccine Refrigerator
Models: HTCD-160/90 & HTC-240/120/112/110/40 & HTD-40

- CFC-free high-density foam insulation
- Dual independent refrigerating and freezing systems
- Solar power supply and high-power solar panel
- Thickened alumina liner and cabinet structure design
- WHO/UNICEF standard Grade A freeze protection
- Wide ambient temperature range of 5°C ~ 43°C
- Internal temperature range of 2°C ~ 8°C
- Digital solar powered temperature display
- Standard door lock and independent temperature recorder
- Indicator light displaying On or Off status of compressors

Ice-lined Vaccine Refrigerator
Models: HBC-240/120 & HBCD-90 & HBC-260/150/80

- Cabinet structure design
- CFC-free high-density foam insulation
- WHO/UNICEF standard Grade A freeze protection
- Wide ambient temperature range of 5°C ~ 43°C
- Internal temperature range of 2°C ~ 8°C
- Digital solar powered temperature display
- Standard door lock and independent temperature recorder
- Indicator light displaying On or Off status of compressors
- Wide operating voltage range of 172~264 volts

Icepack Freezer
Models: HBD-86/265

- Optimized refrigeration system
- Internal temperature range of -15°C ~ -25°C
- CFC-free high-density foam insulation
- Electronic temperature controller with digital display
- Safety lock avoiding unauthorized access
- Various sizes of storage baskets
- Easy to clean drainage port

Mini Biological Safety Cabinet
Models: HR700-IIA2

- Space-saving design with large working area
- Real-time monitoring of the airflow for safety
- Ergonomic design for single person
- Energy-efficient EBM motor
- Optional stand

NSF Series Biological Safety Cabinet
Models: HR1800-IIA2-N/HR1500-IIA2-N/HR1200-IIA2-N/HR900-IIA2-N

- Stainless steel inner liner and work surface
- Designed with dual DC centrifugal fans
- Platform arm rest
- Waterproof socket
- Universal casters, easy to move
- Ultra-low noise, uniform airflow

Standard Dual HEPA Biosafety Cabinet
Models: HR1200-IIA2-D/HR900-IIA2-D (70% circulation and 30% exhaust)

- Double DC fans, low energy consumption, large air volume
- Intelligent constant air velocity system
- Double ULPA exhaust filter
- Front window stainless steel shelf design for safe operation
- Ergonomic 10 degrees tilt design
- Three piece stainless steel work surface without screws
- Optional adjustable stand, electric door, foot switch
- With CE and TÜV SÜD Mark certification

Standard Single HEPA Biosafety Cabinet
Models: HR1200-IIA2-S/HR900-IIA2-S (70% circulation and 30% exhaust)

- Dual air velocity sensors, DC ECM fans
- Intelligent constant air velocity system
- AAF filter 99.995%@0.3um
- Double sided glass construction design
- Front window stainless steel shelf design for safe operation
- Ergonomic 10 degrees tilt design
- Three piece stainless steel work surface without screws
- Optional adjustable stand, electric door, foot switch
- With CE and TÜV SÜD Mark certification

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Standard Dual HEPA Biosafety Cabinet
Models: HR1500-IIA2/HR 1200-IIA2/HR 900-IIA2 (70% circulation and 30% exhaust)

- Single HEPA exhaust filter
- Solid sides
- 1 x AC fan
- Suporter standard can be adjusted
- Optional electronic sash
- Optional electronic stand
- With CE and TÜV SÜD Mark certification

Classic Series Biosafety Cabinet
Models: HR40-IIA2/HR30-IIA2 (70% circulation and 30% exhaust)

- Ultra-efficient air filter (ULPA)
- Superior filtering effects 99.9995% for 0.12µm particles
- Sound and light alarm function
- Ergonomic 10 degrees tilt design
- Adjustable work bench height
- With CE and TÜV SÜD Mark certification

Classic Series Biosafety Cabinet
Models: HR40-IIB2 (100% exhaust)

- Ultra-efficient air filter (ULPA)
- Superior filtering effects 99.9995% for 0.12µm particles
- Sound and light alarm function
- Ergonomic 10 degrees tilt design
- Adjustable work bench height
- With CE and TÜV SÜD Mark certification

Smart IoT Series Biosafety Cabinet
Models: HR1800-IIA2-X/HR1500-IIA2-X/HR1200-IIA2-X

- Dual: SMI pressure sensors, light airflow speed sensors, DC fans, ULPA filters, lights
- IoT access management system (optional)
- Intelligent constant air velocity function
- UV lamp service life warning and one-touch timer function
- Optional electrically operated glass door
- Optional surveillance cameras to record the operating status
- Airflow blocking patented technology
- HEPA filter service life warning function
- With CE and TÜV SÜD Mark certification

Laminar Flow Cabinet
Models: HCB-1300V/900V/1600H

- High efficiency particulate air filters (HEPA)
- Superior filtration efficiency of 99.99% or above for particles of 0.3um or above
- Pre-cleaning function cleans working area before users start
- One-touch UV lamp operation with start delay for safety
- Built-in light to reduce eye strain

CO₂ Incubator with Dry Heat Sterilization
Models: HCP-258/168/80

- Precise temperature control
- IR CO_2 sensor
- 180°C dry heat sterilization technology
- Easy to clean
- Quick recovery after door openings
- Active heat condensation technology
- Intelligent controller

Standard Incubator
Models: HZP-168/HFP-80

- Superior four-sided direct heating technology with an innovative air duct structure, achieve precise temperatre control
- Multiple safety protection features, safe and stable
- High thermal insulation performance, energy saving and environmental protection
- Rapid recovery after door open
- Optional IoT technology for real-time remote monitoring

Vertical Autoclave
Model: HRLM-80

- One-click automatic program control
- Automatic drying function
- Multiple exhaust methods for effective sterilization
- One-button quick start programs for instruments, dressings, rubber and liquids
- Supporting fast pressure relief and slow pressure relief
- Sterilizer heating process and preheating control functions
- Timer preset start function

Drying Oven
Models: HZS-60/HFS-160

- Superior pre-heating technology with an innovative air duct structure, achieve precise temperatre control
- Multiple safety protection features, safe and stable
- High thermal insulation performance, energy saving and environmental protection
- Rapid recovery after door open
- Optional IoT technology for real-time remote monitoring

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Climate Chamber
Models: HHS-756/506/256

- Accurate temperature and humidity control
- Energy-saving semiconductor technology
- Intelligent control of PTC humidification
- Low daily water consumption
- No need to recycle waste water, save space
- Low vibration and noise

Desktop High-speed Refrigerated Microcentrifuge
Models: LX-165T2R
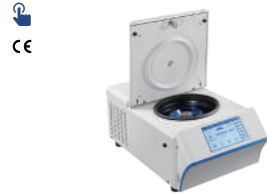
- Auto-ID instant rotor identification and rotor service life statistics
- Precise temperature control and ultra-fast refrigeration
- Precise balance detection
- Smart lid lock and USB interface
- Large smart screen controller provides an interactive interface which is easy to operate even in gloves

Benchtop High-speed/Low-speed Centrifuge
Models: LX-165T2-J/60T100-J

- High efficiency air cooling technology
- Automatic rotor identification
- Safe and reliable
- Multiple vibration reduction and noise reduction technology

Biobank Series LN2 Solutions

- Massive capacity between 13,000 to 94,875×2ml Vials
- Vapour phase storage at -190°C prevent crosscontamination
- Supplied with intelligent Cryosmart liquid nitrogen system monitoring and control solution
- LN2 splash proof design for safer operation

Smart Series LN2 Solutions

- 5 models from 2,400 to 6,000 cryovial capacity
- Cloud data storage for traceability
- Low consumption rate and high performance stability
- Durable aluminium construction
- Real-time monitor of temperature and fluid level
- New lock design

Medium Series LN2 Solutions

- Heavy duty lockable enclosure
- Liquid or vapour phase option available
- Durable aluminium construction
- Temperature monitoring available
- High thermal efficiency
- Ultra-low evapouration loss

Dryshipper Series LN2 Solutions

- Rugged and durable aluminium construction
- Vapour phase storage
- Straw and cryovial storage options
- No LN2 spillage
- Lockable lids
- Cryo absorbant

Self-pressurized Series LN2 Solutions

- Stainless steel construction
- Integral safety mechanisms
- Labelled valves for easy identification
- Safety valves
- Decant valves
- Pressure raising
- Liquid storage
- Rotary ring construction

Low Temperature Transport Trolley

- Touch screen LCD, easy to operate
- Real-time monitoring
- The instrument monitors the temperature and liquid level in real time and displays the expected remaining service time. Continuous working hours up to 24 hours
- The insulation cover can be magnet absorbed to the side of vehicle, which is convenient to extract, and the space reserved at the bottom can be used to store other tools

Mobile Container Clinic

- Multiple medical storage cabinets
- Ergonomic design
- Intelligent monitoring system
- Air conditioner system
- Customized layout to meet customer's individual needs
- Transportable, can be deployed rapidly

Mobile PCR Testing Laboratory

- Solid and durable cabin
- Superior materials of high safety
- Sophisticated ventilation facilities and rain protection measures
- Intelligent control system
- Small shelter footprint, transportable, rapid deployment

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Solar Powered Medical Laboratory

- Solar direct drive, suitable for remote regions where power shortages are common
- High efficiency solar panels to ensure the operation of large power consumption equipment
- Windproof and earthquake resistant
- Equipped with complete power supply system, water supply and drainage system, access control system and unlock fingerprint
- Equipped with surveillance camera and mass storage devices to ensure the maximum safety

Refrigerated Vaccine Vehicle
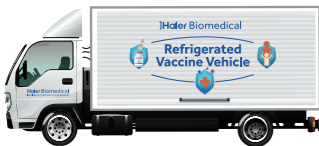
- Low fuel consumption
- Good insulation, safe and reliable
- Firm structure and corrosion resistance
- Strong after-sales service support capability
- Complies with WHO PQS specification E002/RV01.2
- Accurate temperature control and high temperature uniformity

Air Purification Sterilizer
Model: YKJX-Y500

- Ultra-effective, triple-action disinfection-plasma, UV plus titanium dioxide photocatalyst and nano-silver ion filtration
- Kills up to > 99.9% of viruses and bacteria within air
- Negative-ion generator for clean fresh air

Oxygen Supply System

- Using air as raw material, PSA method is adopted to generate oxygen to meet the medical oxygen demand of general ward, intensive care unit (ICU), hyperbaric oxygen chamber, common operating room, abdominal operating room, thoracic and cerebral operating room
- Integrated medical PSA oxygen generating system is suitable for the town and community hospitals, clinics, health facilites, beauty centers, entertainment and sport venues, hotels and villas, plateau areas etc

Medical Waste Incinerator

- Wide spectrum of disinfection bacteria
- High sterilization efficiency, reducing energy consumption without dioxin pollution
- Easy operation and maintenance
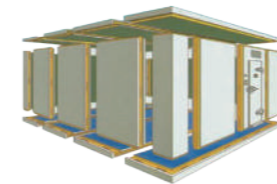- Low operating cost

Microwave Incinerator

- Environmentally friendly
- Diversified products
- Superior products
- Innovative technology

Mono Block Unit Cold Room

- Constant temperature of 2 ~ 8°C (or -15 ~ -25°C)
- All-in-one design of refrigeration system
- Famous brand evaporation fan
- Electric or hot gas defrosting

Cold Room with Split Unit

- High resolution temperature and humidity recorder
- Sound & light alarm lamp
- Advanced SMS alarm system
- High efficiency indoor air cooler
- High-quality refrigeration compressor unit

Solar Direct Drive Cold Room

- Solar photovoltaic power generation system
- Solar direct drive compressor without battery
- PLC intelligent control
- Wide operating ambient temperature range of 5-43°C
- Optional 48V switching power supply
- Supporting single phase 110-220V AC power supply
- Superior insulation performance

Temperature Data Logger

- Lora wireless ad hoc network communication technology, strong adaptability
- Smart gateway with backup battery, supports data breakpoint with continued transmission
- Powered by battery, and the working time is more than one year
- Real-time display of measurement data
- Can achieve the monitoring of cold room door, warehouse door and other door body open-close usage activity
- Can monitor whether the power supply of the public grid is at normal capacity

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