Haier Biomedical
Intelligent Protection of Life Science

General Catalogue

Your Haier Biomedical Partner

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Intelligent Protection of Life Science



Established in Qingdao, China in 1984, the Haier Group is a world-leading provider of better life and digital transformation solutions. 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, diversif ication 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 only IoT Ecosystem Brand, Haier has been included on the list of BrandZ Top100 Most Valuable Global Brands for five consecutive years and retained the top position in Euromonitor's Global Major Appliances Brand for 15 consecutive years. Haier serves over 1 billion families in 200+ countries or regions around the world. To date, Haier has successfully floated four listed companies (Haier Smart Home, Haier Biomedical, INKON Life, THUNDEROBOT). The Group's subsidiary Haier Smart Home is named among the Fortune's Global 500 and World's Most Admired Companies. Moreover, the Group has established 10+N innovation ecosystems, 35 industrial parks, 143 manufacturing centers, 126 marketing centers and 230,000 sales networks globally.

The Haier Group owns several global premium brands, including Haier, Casarte, Leader, GE Appliances, Fisher & Paykel, AQUA and Candy, and has the world's first smart home Scenario Brand, SAN YI NIAO. Haier has built the world-leading industrial Internet platform COSMOPlat and the health industry ecosystem INCAIER. The Group's entrepreneurial acceleration platform HCH has incubated 7 unicorn companies, 107 gazelle companies and 175 specialized and sophisticated "small giant" enterprises.

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 | **126** Marketing Centers | **35** Industrial Parks | **144** Factories | **200+** 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 1300 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 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:

2005
On October 28, 2005, Haier Biomedical was formally established

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

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

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

2019
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

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

2021
- 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

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

2023
- Joined the UNGC Global Initiative
- National Green Factory Award
- Acquired Hohwell Smart Pharmacy Technology

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-150°C Cryo Freezer





-150°C Cryo Freezer



A mechanical cryogenic freezer is used for the long-term cryopreservation of samples such as cell cultures, tissue samples, bacteria, viruses and non-biological products such as electronics. Applications include cord blood preservation, biobanks, reproductive procedures, blood banks, life science research, biomedical engineering and fisheries. Mechanical cryopreservation is a safe alternative to LN_2 and can reduce or eliminate the reliance on LN_2, reducing safety concerns.

Energy Efficient Hydrocarbon Refrigeration

- Includes specialist industrial compressor, hydrocarbon refrigerant,dual-compressors 4-stage cascade refrigeration system, which delivers excellent energy-efficiencies
- Energy-efficient fan design with intelligent start/stop

Environmentally Friendly

- 100% HC refrigerant truly environmently-friendly refrigeration system with zero global warming potential (GWP)
- LBA polyurethane foam has low GWP and is significantly lower than most HFCs commonly used, offering better environmental protection

Superior Uniformity

The temperature uniformity is ±5°C with the setting temperature of -150°C

Low Noise

Noise-reduction features and noise reduction design lowers to noise to 55 dB (A)

Safe, Secure and Reliable

Multiple alarms, including high and low temperature, power failure, door ajar, hot condenser, low battery, sensor error, and high ambient temperature. The standard ambient temperature ranges from 10°C to 32°C. The pressure state of the system can be automatically adjusted by the pressure controller to prevent the pressure from being too high to effect the freezer operation.





Specifications

Model			DW-150W209	DW-150W209A
Technical Data	Cabinet Type		Chest	Chest
	Climate Class		N	N
	Cooling Type		Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual
	Refrigerant		HC	HC
	Sound Level (dB(A))		55	55
Performance	Cooling Performance (°C)		-150	-150
	Temperature Range (°C)		-140~-150	-140 ~-150
Control	Controller		Microprocessor	Microprocessor
	Display		Touch Screen LCD	Touch Screen LCD
Electrical Data	Power Supply (V/Hz)		220~240/50	208~230/60
	Electrical Current (A)		10	10
Dimensions	Capacity (L/Cu.Ft)		209/7.4	209/7.4
	Net/Gross Weight	kg	260/295	260/295
		lbs	573.2/650.4	573.2/650.4
	Interior Dimension (W*D*H)	mm	667*462*677	667*462*677
		in	26.3*18.2*26.7	26.3*18.2*26.7
	Exterior Dimension (W*D*H)	mm	1650*860*1010	1650*860*1010
		in	65.0*33.9*39.8	65.0*33.9*39.8
	Packing Dimension (W*D*H)	mm	1810*960*1170	1810*960*1170
		in	71.3*37.8*46.1	71.3*37.8*46.1
	Container load (20'/40'/40'H)		12/24/24	12/24/24
Alarms	High/Low Temperature		Y	Y
	Hot Condenser		Y	Y
	Power Failure		Y	Y
	High/Low Voltage		Y	Y
	Sensor Error		Y	Y
	Low Battery		Y	Y
	High Ambient Temperature		Y	Y
	Door Ajar		Y	Y
	Start-up Delay		Y	Y
Accessories	Caster		Y	Y
	Foot		Y	Y
	Porthole		Y/1	Y/1
	Shelves/Inner Doors		-/2	-/2
	USB Interface		Y	Y
	Remote Alarm		Y	Y
	5V Power Supply Port		Y	Y
	Temperature Chart Recorder		Optional	Optional
	RS232/485 Port		NA/Standard	NA/Standard
	CO_2 Backup System		N/A	N/A
	LN_2 Backup System (Built-in/External)		Optional/Optional	Optional/Optional
	Freezing Rack		433026, Quantity: 12 433028, Quantity: 12	433026, Quantity: 12 433028, Quantity: 12
Other	Certification		CE	UL

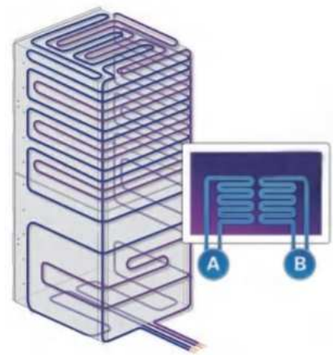
Product appearance and specifications are subject to change without notice

Haier Biomedical
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TwinCool Frequency Conversion ULT Freezer

Product Advantages





Dual refrigeration system for optimal reliability and security

Two independent hydrocarbon (HC) refrigeration systems, each can maintain -80°C ensuring the safety of stored samples

World-leading Energy Saving Refrigeration Technology

Intelligent frequency conversion technology and HC refrigeration system delivers a 50% reduction in energy usage when compared to traditional HFC refrigeration systems

Environmental Protection

Environmentally friendly hydrocarbon refrigerant and LBA foam material

Optional IoT System

The optional IoT monitors the operating status of the equipment in real time. Equipped with multiple alarm functions and a self-diagnostics system to identify and warn users to ensure sample safety

Ergonomic Design

Low Noise Design

Optimised systems and noise-reducing cabinet design lower noise out to 42dB for a quieter working experience

Adjustable Sample Loading Tray (Optional)

The adjustable height sample load tray provides users with a convenient place to hold samples while opening and accessing storage compartments

Large loading capacity

Maximum Capacity: 600 boxes
(2 inch boxes with 10*10 configuration) 60,000 samples can be stored

Intelligent Control

10.1-inch high-performance touch screen, sensitive touch operation.
Using the optional IoT module, users can check the real-time operating status from an App

Ergonomic design
Document holder for easy storage of documents



High quality door opening experience
The ergonomic chamfer design of the handle ensures smooth operation and maximum durability



Adjustable feet
For easy positioning and levelling



Magnetic filter screen
Filter screen is easy to clean



DW-86L828BPST

Microcomputer control
Microcontroller with 10.1 inch LCD touch screen displays temperature and other important data. Temperature display precision is 0.1℃

Multiple alarms
Including high/ low temperature alarm, sensor error alarm, hot condensor alarm, power failure alarm, low battery alarm, door ajar alarm, high ambient temperature alarm, etc



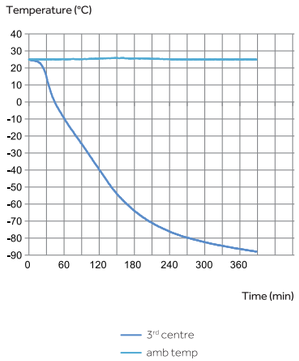
Multiple safety lock
Standard mechanical lock, optional electromagnetic lock
Optional fingerprint lock and NFC for optimal security and access



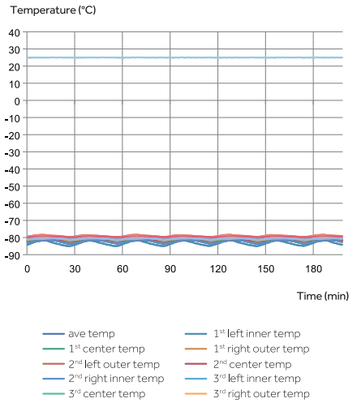
Networking function
Equipped with RS485 interface to connect multiple freezers

Temperature Curve

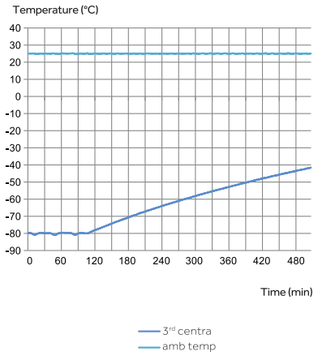
Temperature Cool Down Curve



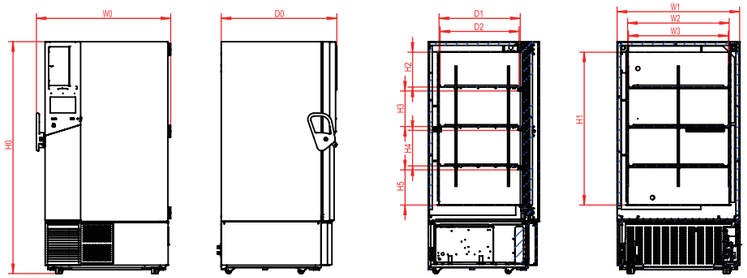
Stability Curve



Temperature Recovery Curve



Product Dimensions



W0	W1	W2	W3	H0	H1	H2	H3	H4	H5	D0	D1	D2
1145mm	1050mm	870mm	854mm	1980mm	1310mm	298mm	303mm	303mm	301mm	998mm	695mm	676mm

Specifications

	Model		DW-86L578BPST	DW-86L728BPST	DW-86L828BPST
Technical Data	Cabinet Type		Upright	Upright	Upright
	Climate Class		N	N	N
	Cooling Type		Direct Cooling	Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual	Manual
	Refrigerant		HC	HC	HC
	Sound Level (dB(A))		42	42	42
Performance	Cooling Performance (°C)		-86	-86	-86
	Temperature Range (°C)		-40~-86	-40~-86	-40~-86
Control	Controller		Microprocessor	Microprocessor	Microprocessor
	Display		Touch Screen LCD	Touch Screen LCD	Touch Screen LCD
Electrical Data	Power Supply (V/Hz)		100~230/50/60	100~230/50/60	100~230/50/60
	Electrical Current (A)		10.4	10.4	13
Dimensions	Capacity (L/Cu.Ft)		578/20.4	728/25.7	828/29.2
	Net/Gross Weight (approx)	kg	325/355	350/385	380/410
		lbs	716.5/782.6	771.6/848.8	837.7/914.9
	Interior Dimension (W*D*H)	mm	620*716*1310	766*716*1310	870*716*1310
		in	24.4*28.2*51.6	30.2*28.2*51.6	34.3*28.2*51.6
	Exterior Dimension (W*D*H)	mm	895*998*1980	1046*998*1980	1145*998*1980
		in	35.2*39.3*78.0	41.2*39.3*78.0	45.1*39.3*78.0
	Packing Dimension (W*D*H)	mm	975*1095*2130	1120*1090*2130	1240*1080*2130
		in	38.4*43.1*83.9	44.1*42.9*83.9	48.8*42.5*83.9
	Cabinet Width (without handle and hinge)	mm	800	946	1050
	Container Load (20'/40'/40'H)		12/24/24	10/22/22	5/11/11
Alarms	High/Low Temperature		Y	Y	Y
	Hot Condenser		Y	Y	Y
	Power Failure		Y	Y	Y
	High/Low Voltage		Y	Y	Y
	Sensor Error		Y	Y	Y
	Low Battery		Y	Y	Y
	High Ambient Temperature		Y	Y	Y
	Door Ajar		Y	Y	Y
	Start-up Delay		Y	Y	Y
Accessories	Caster		Y	Y	Y
	Foot		Y	Y	Y
	Porthole		Y/2	Y/2	Y/2
	Shelves/ Inner Doors		3/4	3/4	3/4
	USB Interface		Y	Y	Y
	Remote Alarm		Y	Y	Y
	5V Power Supply Port		Y	Y	Y
	Temperature Chart Recorder		Optional	Optional	Optional
	RS232/485 Port		NA/Standard	NA/Standard	NA/Standard
	CO_2 Backup System		Optional	Optional	Optional
	LN_2 Backup System		Optional	Optional	Optional
Certifications	CE		Y	Y	Y
	UL		Y	Y	Y
	ENERGY STAR		Y	Y	Y

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Frequency Conversion ULT Freezer

Scope of Application

The TwinCool ULT freezer can be used for the storage and protection of valuable samples which require strict and continuous storage conditions, designed to operate even in the event of a compressor failure.
Suitable for viruses, pathogens, blood cells and other biological sample cold storage applications found within hospitals, disease control, research institutions and biomedical engineering. Also used to store special materials and other products within electronics and chemicals industries.

Advanced Hardware System



Smart Full-size Touch Screen

10-inch touch screen with state-of-art user interface design, coupled with sample management system provides optimal user experience.

A Dual independent refrigeration systems for maximum sample safety

The dual refrigeration systems run independently and alternately, both reaching -80°C, such that if one system fails the other will maintain temperature to ensure sample storage safety.

B High speed refrigeration system for faster pull down and temperature recovery after door opening

Utilizing auto-cascade hydrocarbon (HC) refrigeration technology to deliver fast temperature pull down. From an ambient of 25°C it takes just 180 minutes to reach -80°C. It provides a quick temperature recovery after door opening, with the internal temperatures returning to -75°C within 1 minute, guaranteeing safety of samples.

C World-leading energy saving refrigeration technology

The HC refrigeration technology coupled with superinsulation, which increases the insulation efficiency by 30%, and a cabinet designed to reduce heat loss ensures an energy efficient freezer. The 578L model has a power consumption of 11 kWh/day and is certified by The National Quality Certification Center for Energy Saving and Environmental Protection.

Optional IOT & Sample Management System (Professional Edition)



Simplified Sample Management Experience

Barcode scanner for simple, effortless and precise identification. Input and retrieve your samples with higher precision and efficiency



Wireless Monitoring Connectivity

Check the real-time operating status via mobile phones or palmtop, simple and reliable

Friendly Design

Safe and secure

Equipped with key lock, padlock and optional electromagnetic lock, with optional fingerprint lock, providing multiple safeguards for sample safety

Low noise design, reducing the noise down to 53dB

Special noise-reduction design plus super silent compressor technology and energy-saving fan, considerably lowers noise level

Cloud data storage available

Store hundreds of millions of scientific research and sample information in the cloud server

Optimized insulation

Double foaming for both inner and outer doors and five-layer sealing design and optimized super-thick VIP thermal insulation technology, extends temperature holdover time during power failure and increases insulation efficiency by 30%

Specifications

	Model		DW-86L579BPT	DW-86L729BPT	DW-86L829BPT	DW-86L959BPT
Technical Data	Cabinet Type		Upright	Upright	Upright	Upright
	Climate Class		N	N	N	N
	Cooling Type		Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual	Manual	Manual
	Refrigerant		HC	HC	HC	HC
	Sound Level (dB(A))		43.5	43.5	43.5	47
Performance	Cooling Performance (°C)		-86	-86	-86	-86
	Temperature Range (°C)		-40~-86	-40~-86	-40~-86	-40~-86
Control	Controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display		Touch Screen LCD	Touch Screen LCD	Touch Screen LCD	Touch Screen LCD
Electrical Data	Power Supply (V/Hz)		100~230/50/60	100~230/50/60	208~230/50/60	208~230/50/60
Dimensions	Capacity (L/Cu.Ft)		579/20.4	729/25.7	829/29.2	959/33.9
	Net/Gross Weight (approx)	kg	325/355	350/385	380/415	450/485
		lbs	716.5/782.6	771.6/848.8	837.7/914.9	992.1/1069.2
	Interior Dimension (W*D*H)	mm	620*716*1310	766*716*1310	870*716*1310	1016*716*1310
		in	24.4*28.2*51.6	30.2*28.2*51.6	34.3*28.2*51.6	40.0*28.2*51.6
	Exterior Dimension (W*D*H)	mm	895*998*1980	1046*998*1980	1145*998*1980	1296*998*1980
		in	35.2*39.3*78.0	41.2*39.3*78.0	45.1*39.3*78.0	51.0*39.3*78.0
	Packing Dimension (W*D*H)	mm	975*1095*2130	1120*1090*2130	1240*1080*2130	1410*1160*2185
		in	38.4*43.1*83.9	44.1*42.9*83.9	48.8*42.5*83.9	55.5*45.7*86.0
	Container load (20'/40'/40'H)		12/24/24	10/22/22	5/11/11	5/10/10
Alarms	High/Low Temperature		Y	Y	Y	Y
	Hot Condenser		Y	Y	Y	Y
	Power Failure		Y	Y	Y	Y
	High/Low Voltage		Y	Y	Y	Y
	Sensor Error		Y	Y	Y	Y
	Low Battery		Y	Y	Y	Y
	High Ambient Temperature		Y	Y	Y	Y
	Door Ajar		Y	Y	Y	Y
	Start-up Delay		Y	Y	Y	Y
Accessories	Caster		Y	Y	Y	Y
	Foot		Y	Y	Y	Y
	Porthole		Y/2	Y/2	Y/2	Y/2
	Shelves/Inner Doors		3/4	3/4	3/4	3/4
	USB Interface		Y	Y	Y	Y
	Remote Alarm		Y	Y	Y	Y
	5V Power Supply Port		Y	Y	Y	Y
	Temperature Chart Recorder		Optional	Optional	Optional	Optional
	RS485 Port		Y	Y	Y	Y
	CO_2 Backup System		Optional	Optional	Optional	Optional
	LN_2 Backup System		Optional	Optional	Optional	Optional
Certifications	CE		Y	Y	Y	Y
	ENERGY STAR		Y	Y	Y	Y

Haier Biomedical reserves the right to change products and specifications without prior notice.

Haier Biomedical's SmartFrequency technology manages the compressor speeds on demand. The ultra-low temperature freezers can thus achieve the world-leading energy efficiency in ultra-low temperature.



DW-86L829BP

Smarter by Design

The SmartFrequency Conversion range of ultra low temperature freezers have been designed and developed at the Haier Biomedical R&D Institute. They are certified by one of the world's leading energy conservation and environmental protection organisations.

Intelligent frequency Conversion technology

Two variable speed compressors are controlled for optimal freezer performance. Low energy consumption is achieved.

Maximum energy efficiency

Our SmartFrequency Technology, coupled with our environmentally safe and friendly hydrocarbon refrigeration system, allows the Haier freezers to operate at a low level of energy of 8.2 kWh/day.

Precise temperature control

The innovative control algorithm balances the effects of temperature loss with the unique frequency conversion refrigeration system, ensuring the cabinet temperature stability of ±3°C.

Frequency conversion Adaptive technology

Variable speed compressors in Haier Biomedical freezers are operated to produce the capacity that matches the demand of the load. The control system automatically tunes the speed of the compressors to optimize the operation.

World-leading energy saving Refrigeration technology

Our hydrocarbon refrigeration technology can save energy by 50%, significantly reducing operator's cost. The refrigerants do not contain fluoride and chloride. The global warming potential is extremely low at 3. Thus they are very friendly to the environment.

Minimal sound level output

Adaptive control technology controls the fans and compressors to reduce the sound level to 43.5 dB(A).

Smart Frequency Conversion ULT Freezer



Energy Saving Refrigeration

High efficiency cooling fans and compressors, combined with hydrocarbon refrigerants, ensure energy savings and long-term sample security



Pressure Equalisation Port

Heated port with spring assisted mechanism to prevent icing on the vent allows users to reopen the main door soon after entering
Adopts chromium plating, rust-proof



DW-86L829BP



USB Interface
Enables users to download historical temperature data for compliance/auditing purposes



Multilayered Sealing Structure

Four layer of gaskets split between main and inner doors decreases heat loss and guarantee excellent warm up times in the event of a power failure



Improved Handle Design

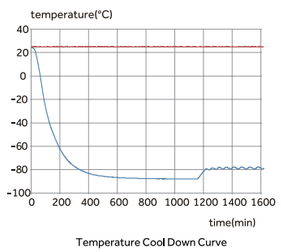
Lockable handle with unique key prevents other Haier freezer owner's access to your precious samples, also comes with space for a padlock for that extra security



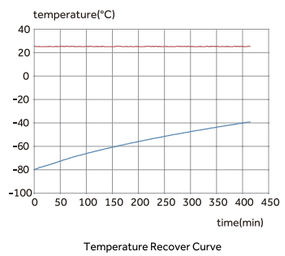
Multilevel Alarms

Alarming functions that include high and low temperature, sensor error, power failure, highambient, clean filter and door ajar

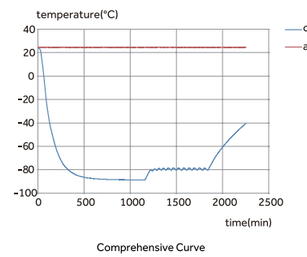
DW-86L829BP | TYPICAL PERFORMANCE CHARACTERISTICS AT 25°C AMBIENT



Temperature Cool Down Curve



Temperature Recover Curve



Comprehensive Curve

Specifications

	Model		DW-86L579BP	DW-86L729BP	DW-86L829BP		DW-86L959BP	
Technical Data	Cabinet Type		Upright	Upright	Upright		Upright	
	Climate Class		N	N	N		N	
	Cooling Type		Direct Cooling	Direct Cooling	Direct Cooling		Direct Cooling	
	Defrost Mode		Manual	Manual	Manual		Manual	
	Refrigerant		HC	HC	HC		HC	
	Sound Level (dB(A))		43.5	43.5	43.5		47	
Performance	Cooling Performance (°C)		-86	-86	-86		-86	
	Temp Range (°C)		-40~-86	-40~-86	-40~-86		-40~-86	
Control	Controller		Microprocessor	Microprocessor	Microprocessor		Microprocessor	
	Display		LED	LED	LED		LED	
Electrical Data	Power Supply (V/Hz)		100~230/50/60	100~230/50/60	100-230/50/60	208-230/50/60	100-230/50/60	208-230/50/60
	Electrical Current (A)		14	14	15	6	20	7
Dimensions	Capacity (L/Cu.Ft)		579/20.4	729/25.7	829/29.2		959/33.9	
	Net/Gross Weight (approx)	kg	325/355	350/385	380/415		450/485	
		lbs	716.5/782.6	771.6/848.8	837.7/914.9		992.1/1069.2	
	Interior Dimensions (W*D*H)	mm	620*716*1310	766*716*1310	870*716*1310		1016*716*1310	
		in	24.4*28.2*51.6	30.2*28.2*51.6	34.3*28.2*51.6		40.0*28.2*51.6	
	Exterior Dimensions (W*D*H)	mm	895*998*1980	1046*998*1980	1145*998*1980		1296*998*1980	
		in	35.2*39.3*78.0	41.2*39.3*78.0	45.1*39.3*78.0		51.0*39.3*78.0	
	Packing Dimension (W*D*H)	mm	975*1095*2130	1120*1090*2130	1240*1080*2130		1410*1160*2185	
		in	38.4*43.1*83.9	44.1*42.9*83.9	48.8*42.5*83.9		55.5*45.7*86.0	
	Container Load (20'/40'/40'H)		12/24/24	10/22/22	5/11/11		5/10/10	
Alarms	Remote Alarm (Dry contacts)		Y	Y	Y		Y	
	High/Low Temp		Y	Y	Y		Y	
	Hot Condenser		Y	Y	Y		Y	
	Power Failure		Y	Y	Y		Y	
	Sensor Error		Y	Y	Y		Y	
	Low Battery		Y	Y	Y		Y	
	High Ambient Temp		Y	Y	Y		Y	
	Door Ajar		Y	Y	Y		Y	
Accessories	Caster		Y	Y	Y		Y	
	Foot		Y	Y	Y		Y	
	Porthole		Y/2	Y/2	Y/2		Y/2	
	Shelves/ Inner Doors		3/4	3/4	3/4		3/4	
	USB Interface		Y	Y	Y		Y	
	5V Power Supply Port		Y	Y	Y		Y	
	Temp Recorder		Optional	Optional	Optional		Optional	
	RS485 Port		Y	Y	Y		Y	
	CO_2 Backup System		Optional	Optional	Optional		Optional	
	LN_2 Backup System		Optional	Optional	Optional		Optional	
Certifications	CE		Y	Y	/	Y	/	Y
	UL		Y	Y	Y	/	Y	/
	ENERGY STAR		Y	Y	Y	Y	Y	Y

BP suffix - Variable frequency invertor compressor
Product appearance and specifications are subject to change without notice

Haier Biomedical water-cooled ULT freezers are designed to meet strict requirements for storage of plasma, biological materials, vaccines, reagents, specimens, and other valuable samples. They are ideal for installations in hospitals, clinics, blood banks and medical research facilities where freezer heat must be removed by cooling water.





Advantages

- Intelligent frequency conversion technology
- Advanced control Touchscreen
- Higher efficiency to yield more energy savings of up to 20%
- Approximately 90% of the compressor heat generated during operation is removed by the cooling water, thus posting little impact to a laboratory's ambient
- Use less air-conditioning power for a comfortable laboratory condition
- Advanced control
- Low sound level
- Smart coolant control
- High quality industry grade hermetically sealed compressors
- Pressure protection system due to lack of water flow











Specifications

	Model		DW-86L828W	DW-86L959W
Technical Data	Cabinet Type		Upright	Upright
	Climate Class		N	N
	Cooling Type		Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual
	Refrigerant		HC	HC
	Sound Level (dB(A))		43.5	47
Performance	Cooling Performance (°C)		-86	-86
	Temperature Range (°C)		-40~-86	-40~-86
Control	Controller		Microprocessor	Microprocessor
	Display		LCD Touch Screen	LCD Touch Screen
Electrical Data	Power Supply (V/Hz)		208-230/50/60	208-230/50/60
	Electrical Current (A)		6	7
Dimensions	Capacity (L/Cu.Ft)		828/29.2	959/33.9
	Net/Gross Weight (approx)	kg	380/415	450/485
		lbs	837.7/914.9	992.1/1069.2
	Interior Dimension (W*D*H)	mm	870*716*1310	1016*716*1310
		in	34.3*28.2*51.6	40.0*28.2*51.6
	Exterior Dimension(W*D*H)	mm	1145*998*1980	1296*998*1980
		in	45.1*39.3*78.0	51.0*39.3*78.0
	Packing Dimension (W*D*H)	mm	1240*1080*2130	1410*1160*2185
		in	48.8*42.5*83.9	55.5*45.7*86.0
	Container Load (20'/40'/40'H)		5/11/11	5/10/10
Alarms	High/Low Temperature		Y	Y
	Hot Condenser		Y	Y
	Power Failure		Y	Y
	High/Low Voltage		Y	Y
	Sensor Error		Y	Y
	Low Battery		Y	Y
	High Ambient Temperature		Y	Y
	Door Ajar		Y	Y
Accessories	Caster		Y	Y
	Foot		Y	Y
	Porthole		Y/2	Y/2
	Shelves/Inner doors		3/4	3/4
	USB Interface		Y	Y
	Remote Alarm (Dry contacts)		Y	Y
	5V Power Supply Port		Y	Y
	Temperature Recorder		Optional	Optional
	Rs485 Port		Y	Y
	CO_2 Backup System		Optional	Optional
	LN_2 Backup System		Optional	Optional
Others	Certification		CE	CE

Product appearance and specifications are subject to change without notice

Standard Low Energy ULT Freezer with LCD Touchscreen

Haier Biomedical Salvum brand of ULT freezers has been designed to deliver energy savings and reduced carbon footprint. This range uses environmentally safe hydrocarbon refrigerants and high efficiency fan motors to maximize the cooling ability of the system and reduce energy consumption. While providing sample safety, the freezer design makes energy savings possible for laboratories.



DW-86L829



DW-86L579

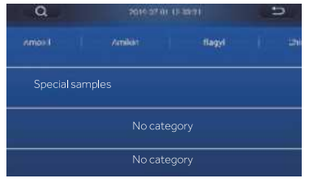


Large Intelligent LCD Screen Visual Management

10-inch high-performance LCD capacitive screen, sensitive touch operation; intuitive display of inside temperature, ambient temperature, input voltage and other data and temperature curves.

Inventory Management System

The single version of the inventory management allows users who do not have a racking system within the freezer to easily record item locations, entry and exit records.



Single version (standard)



Professional version(optional)

In instances where customers use racking systems, the optional professional version of the inventory management is available. Freezer racks, boxes, and vials can easily record item locations and entry and exit records, facilitate item inventory and statistics, realize multi-screen interaction and reduce errors through secondary verification.

The freezer comes with the single version as standard.

Equipped with Multiple Interfaces

·Standard USB interface, capable of storing data for 10 years
·Standard remote alarm terminal RS485 port







Multiple Options for Safe Management and Control Systems

Standard password lock, optional fingerprint module, punch card module, face recognition, realizing safe and secure multi-user management.

Standard Low Energy ULT Freezer with LCD Touchscreen

Optional IoT System Realizes Real-time Monitoring

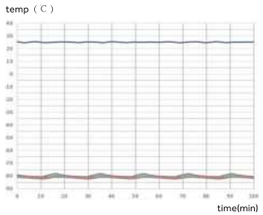
The IoT APP can monitor the operating status of the equipment anytime and anywhere. Equipped with multiple alarm functions and able to self-diagnose system faults to ensure sample safety. (Contact your local area representative to check local availability.)



Safe and Secure with Multiple Alarms

Multiple alarm functions include high temperature alarm, low temperature alarm, sensor failure alarm, power failure alarm, low battery alarm, door ajar alarm and high ambient temperature alarm.





Precise Temperature Control Ensures Safe Storage

Adjustable temperature set-point between -40°C ~ -86°C and the ability to monitor temperature curves in real time, equipped with sophisticated temperature safety alarm system to ensure product safety.

Ergonomic Design



Narrow Door Design

The freezer can pass through an 750mm wide door when the door is open



New Handle Design

Adopting exclusive slide design, easy to open and close the door



Pressure Equalization Port

Equipped with pressure equalization port, realize easy opening
Adopts chromium plating, rust-proof



Porthole

Two portholes as standard, allows for independent testing of cabinet temperature



Filter Design

Tool-free removable filter design, easy and quick to clean the filter



Detachable Inner Door Design

Tool-free detachable inner door, realizing easy and quick defrost

Specifications

	Model		DW-86L419	DW-86L579	DW-86L729	DW-86L829
Technical Data	Cabinet Type		Upright	Upright	Upright	Upright
	Climate Class		N	N	N	N
	Cooling Type		Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual	Manual	Manual
	Refrigerant		HC	HC	HC	HC
	Sound Level (dB(A))		47	47	52	52
Performance	Cooling Performance (°C)		-86	-86	-86	-86
	Temp Range (°C)		-40~-86	-40~-86	-40~-86	-40~-86
Control	Controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display		LCD Touchscreen	LCD Touchscreen	LCD Touchscreen	LCD Touchscreen
Electrical Data	Power Supply (V/Hz)		220-240/50	220-240/50	220-240/50	220-240/50
	Electrical Current (A)		5	5.5	9	10
Dimensions	Capacity (L/Cu.Ft)		419/14.8	579/20.45	729/25.75	829/29.3
	Net/Gross Weight (approx)	kg	255/286	300/330	350/385	380/410
		lbs	562.2/630.5	661.4/727.5	771.6/848.8	837.7/903.9
	Interior Dimensions (W*D*H)	mm	465*716*1310	620*716*1310	766*716*1310	870*716*1310
		in	18.3*28.2*51.6	24.4*28.2*51.6	30.2*28.2*51.6	34.3*28.2*51.6
	Exterior Dimensions (W*D*H)	mm	830*980*1980	903*980*1960	1049*980*1980	1153*980*1980
		in	32.7*38.6*78.0	35.6*38.6*77.2	41.3*38.6*78.0	45.4*38.6*78.0
	Packing Dimension (W*D*H)	mm	890*1090*2130	975*1095*2130	1120*1090*2130	1240*1080*2130
		in	35.0*42.9*83.9	38.4*43.1*83.9	44.1*42.9*83.9	48.8*42.5*83.9
	Container Load (20'/40'/40'H)		12/26/26	12/24/24	10/22/22	5/11/11
Alarms	High/Low Temp		Y	Y	Y	Y
	Hot Condenser		Y	Y	Y	Y
	Power Failure		Y	Y	Y	Y
	High/Low Voltage		Y	Y	Y	Y
	Sensor Error		Y	Y	Y	Y
	Low Battery		Y	Y	Y	Y
	High Ambient Temp		Y	Y	Y	Y
	Door Ajar		Y	Y	Y	Y
Accessories	Caster		Y	Y	Y	Y
	Foot		Y	Y	Y	Y
	Porthole		Y/2	Y/2	Y/2	Y/2
	Shelves/ Inner Doors		3/2	3/4	3/4	3/4
	USB Interface		Y	Y	Y	Y
	Remote Alarm (Dry contacts)		Y	Y	Y	Y
	5V Power Supply Port		Y	Y	Y	Y
	Temp Recorder		Optional	Optional	Optional	Optional
	RS485 Port		Y	Y	Y	Y
	CO_2 Backup System		Optional	Optional	Optional	Optional
	LN_2 Backup System		Optional	Optional	Optional	Optional
Certification	CE		Y	Y	Y	Y
	Energy star		/	Y	Y	Y

Product appearance and specifications are subject to change without notice

Standard Low Energy ULT Freezer with LED Display

This product line is designed and manufactured for long term storage of various biological products, including viruses, germs, erythrocytes and leucocytes. Applications can be found in blood banks, hospitals, epidemic prevention services, research institutes, biological engineering institutes, laboratories in electronic and chemical plants.



Advantages

- World leading energy-efficient
- Hydrocarbon refrigeration system
- Slim cabinet design
- Reliable sample protection
- Malfunction alarms
- Excellent insulation performance



Insulation and System Design

- Special V-I-P (Vacuum Insulation Panel) insulation system reduces the heat gain by 25%
- High efficiency HC refrigeration system improves the overall efficiency by 45%
- Four individual insulated inner doors reduce the cold air loss to the minimum
- Heated Pressure Equalization Port makes re-accessing the unit fast
- About 50 dba sound level

Safe and Reliable Storage

- Superior temperature uniformity
- Dependable fans, compressors and other system related components

Alarms (Visual and Audible)

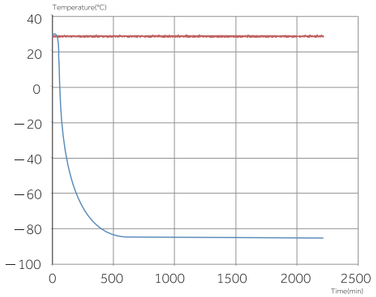
- Adjustable High/Low temperature alarm
- Sensor error
- Low battery
- Door ajar
- Power failure
- Hot condenser
- High ambient
- Remote alarm contact

Standard Low Energy ULT Freezer with LED Display

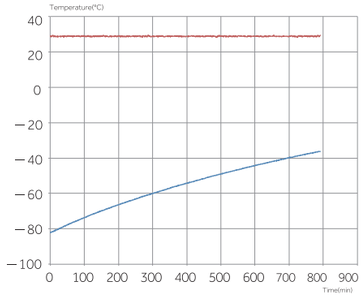
Extended Warm up Time During Power Failure

- Warm up time measures the time taken for temperature to rise up (from -80°C to -50°C) at 25°C ambient when the power is interrupted.
- Haier has the longest warm up time when compared with other major brands in the market.

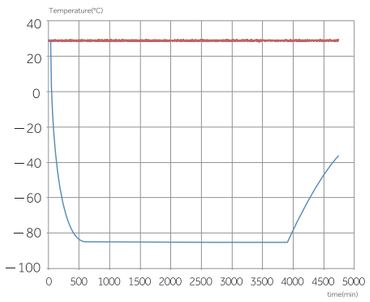
TYPICAL PERFORMANCE CHARACTERISTICS AT 25 °C AMBIENT



Temperature Cool Down Curve



Temperature Recover Curve



Comprehensive Curve





4 Individual Removable Foam Inner Doors

- 4 individual inner doors can be opened independently to minimize frost buildup inside the chamber.
- Unique door seal design for the minimum loss of cold temperature during a door opening.
- Compatibility with existing racking system from competitors.
- Stainless steel handle to ensure proper strength for door latching.
- Some interior door handles have been upgraded to stainless steel for more comfortable door opening experience



Excellent Doors Seals

- Total of five gaskets to safeguard the freezer temperature, including four seals for the exterior door, one for each inner door





- Optimized slideway design, easier to open and close the door



Pressure Equalization Port

- Heated port with spring-assisted mechanism to prevent icing on the vent.
- Allows re-accessing the freezer after initial door opening.
- Adopts chromium plating, rust-proof

Temperature Recorder (Optional)

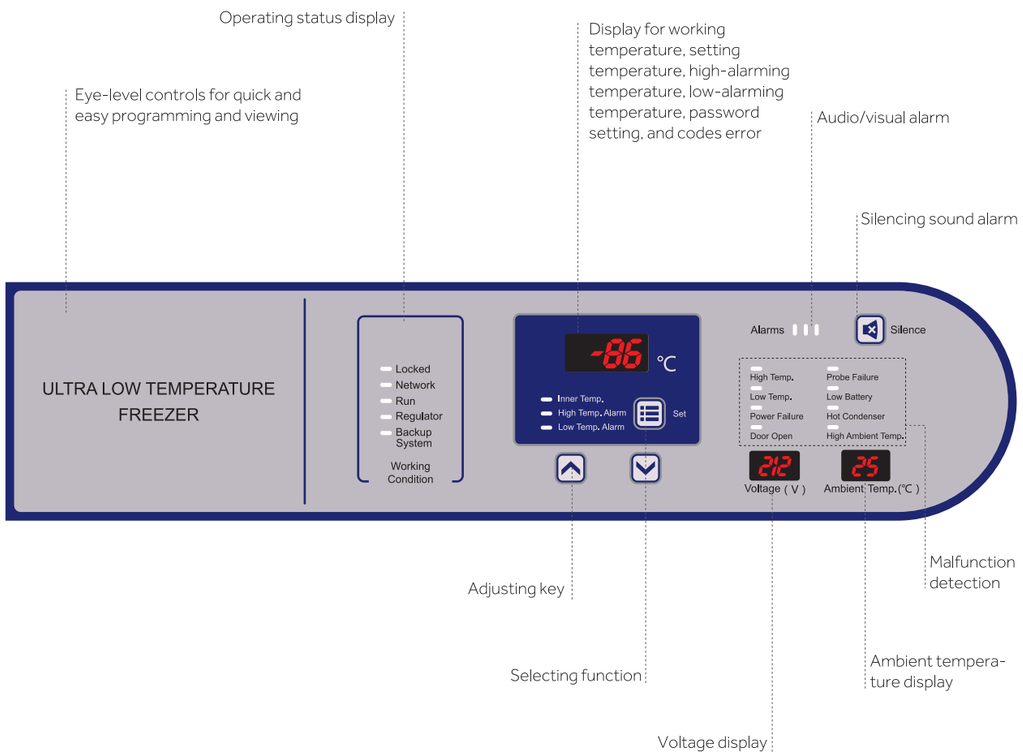
- Front-mounted.
- For independent temperature monitoring.

High Efficiency Refrigeration Components



Two port holes for ease of temperature monitoring

Salvum Ultimate Standard Low Energy ULT Freezer with LED Display



Specifications

Alarm	Alarm Triggering Condition
High Temperature	Temperature reaches the warm alarm limit
Low Temperature	Temperature reaches the low alarm limit
Power Failure	Equipment loses power
Door Ajar	Door opening time secedes set time, settable between 0 and 20 minutes
Sensor Error	E0.Ambient sensor fails E1.Condenser sensor fails E2.Main cabinet temperature control sensor fails E3.Heat exchanger sensor fails E4.Heat exchanger temperature fails
Low Battery	Battery capacity runs low or battery switch is not turned on
Hot Condenser	1. Condensers filter element is clogged 2. Ambient temperature is too high
High Ambient Temperature	Ambient temperature exceeds 32°C

Field proven reliablity

- Unique insulated inner door design for four separate storage compartments to minimize frost buildup inside the chamber
- Specialized control system design for a well-balanced operation of cascade refrigeration system
- Positive field proven reliability record

Safety

- Malfunction alarms including high and low temperature, power failure, sensor error, clean -filter, and extremely high ambient
- Capable of producing two types of alarm outputs: audible buzzer and visible flashing light
- Multiple built-in system protection features including user-settable protection code for controls, user settable delay to start, voltage compensation system, and protection against extreme high voltages
- Door open feature standard and USB port for temperature data downloading standard on upright models
- Remote alarm contacts

Installation & Application

- Wide range operating voltage system from 185V to 260 V designed to allow units installed in areas with poor voltage condition
- Suitable for 10°C to 32°C ambient temperature
- Input voltage and ambient temperature shown simultaneously for ease of monitor-ing environmental conditions
- Robust door latch designed for secure door closing
- Compact casters for ease of maneuvering

Low sound level

- Specialized refrigeration system design using whisper quiet fan and compressors
- Freezer chassis designed to absorb vibration and sound

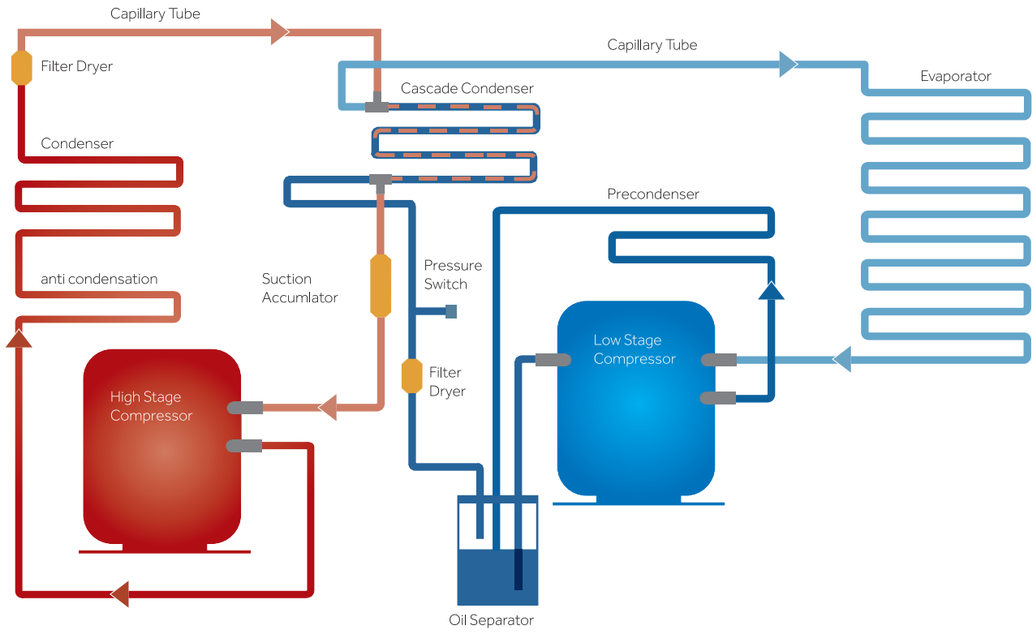
Energy saving

- Unique door seal design for the minimum loss of cold temperature during a door opening
- High performance VIP insulation panels to minimize cabinet heat gain and to improve temperature stability
- Patented cabinet insulation system designed for optimal performance of cold storage temperature and minimal frost buildup
- Unique design of independent insulated inner door systems for independent access of storage space to provide the maximum protection of stored samples

Key design features

- Microprocessor-controlled system designed for controllable range of -40°C to -86°C for cabinet space with 1°C increment
- Large LED display for cabinet temperature, set temperature, ambient temperature, and input voltage
- Settable high temperature and low temperature alarms
- Automatic clean-filter alarm and sensor error alert
- Adjustable storage shelf height
- Optional temperature recorder, storage racks and storage boxes

Heat Exchange Circulation System



Filter dryer
- Filtration and drying device for water and debris

Capillary tube for high stage
- Expansion device for high stage liquid refrigerant

Capillary tube for low stage
- Expansion device for low stage refrigerant

High stage condenser
- Extra-large air cooled condenser dissipates product heat content efficiently.

Low stage evaporator
- Heat exchanger for expanded low stage refrigerant

Ultra low noise compressor
- Compressor provides reliable performance with ultra low noise
- Specially designed low stage evaporator yields excellent temperature uniformity and recovery after loading and door opening.
- Both high and low stage compressors are industrial grade hermetically sealed compressor designed for low temperature application. Sound level is extremely low.

Cascade condenser
- Heat exchanger between the high and low temperature stage in the system

Temprite oil separator
- Temprite oil separator can effectively separate oil and water to improve the refrigeration performance

Suitable for clinical, medical, scientific research, quarantine and other departments to store items under low temperature conditions. Applicable for universities, hospitals, disease prevention and control centers, blood stations, scientific research institutes, electronics and chemical enterprise laboratories and biomedical engineering research institutes. For storage of biological products and biological samples such as red and white blood cells, viruses, bone and bacteria. Also used for electronic devices and other materials used for cryogenic tests.



DW-86L100J

Energy Efficient, Safe and Reliable
High efficiency HC refrigeration system, optimised for energy efficiency.

Compact Design
810mm cabinet height makes it easy to place on or under counter, saving storage space. Stackable design.

Ergonomic Design
Ergonomic handle design ensures easy one-hand door opening.

Quiet Operation
Optimized noise reduction cabinet and system design, emits sound level of only 46.8dB.

VIP insulation and multilayered sealing design

70mm insulating layer with 25mm VIP and 4 layers of gasket improves energy efficiency and reduces heat loss to deliver excellent warm up times in event of power failure.



Optional IoT Module

Real time monitoring of cabinet temperature, temperature setting, high and low temperature alarm value, temperature curve, alarm log and event log.

- User-settable parameters such as set point and alarms.
- Real-time cabinet temperature display, alarm information, power supply and compressor start/stop state.
- Standard USB port capable of storing
  >15 years of operating data for compliance.





Filter is easy to remove and clean without the need for tools.



Ergonomic design for easy door opening and closing. Lockable and equipped with 4 keys as standard with the ability to add a padlock for extra security when required.



Double stainless-steel inner doors to prevent cooling loss when opening the outer door, easy to clean.

4 casters + 2-foot locks, easy to move, lock and level.







Microprocessor control system

- Microcomputer electronic thermostat, LED temperature display, display precision 1°C, adjustable cabinet temperature set point -40°C~-86°C.
- Cabinet temperature/voltage/ambient temperature checking are available.
- Multiple alarm functions: high temperature alarm, low temperature alarm, sensor fault alarm, power failure alarm, low battery power alarm, open door alarm and high ambient temperature alert.
- Sound and light alarm mode, attachable to remote alarm interface.
- Battery backup alarm function operates continuously for >24hrs in the event of a power outage.
- Standard configuration: RS485 port and USB interface.
- Standard 5V power supply available for test equipment.
- Optional IoT module.

Superior thermal insulation performance

70mm super thick insulation layer design, aviation vacuum insulation material VIP, thickness of 25 mm or more, 4 layers of silicone seal, superior thermal insulation and energy saving effect.

Porthole

Portholes as standard, allows for independent testing of cabinet temperature.

Security lock

Standard door lock and padlock to ensure sample security and prevent unauthorised access.

USB data storage

Capable of storing more than 15 years of data.

Specifications








	Model		DW-86L338J	DW-86L338JA		DW-86L388J	DW-86L486E	DW-86L490J	DW-86L490JA	DW-86L578J	DW-86L578JA		DW-86L628E
Technical Data	Cabinet Type		Upright			Upright	Upright	Upright		Upright			Upright
	Climate Class		N			N	N	N		N			N
	Cooling Type		Direct Cooling			Direct Cooling	Direct Cooling	Direct Cooling		Direct Cooling			Direct Cooling
	Defrost Mode		Manual			Manual	Manual	Manual		Manual			Manual
	Refrigerant		HC			HC	HC	HC		HC			HC
	Sound level (dB(A))		50			50	49	50		50			49
Performance	Cooling Performance (°C)		-86			-86	-86	-86		-86			-86
	Temperature Range (°C)		-40~-86			-40~-86	-40~-86	-40~-86		-40~-86			-40~-86
Control	Controller		Microprocessor			Microprocessor	Microprocessor	Microprocessor		Microprocessor			Microprocessor
	Display		LED			LED	LED	LED		LED			LED
Electrical Data	Power Supply (V/Hz)		220~240/50	120/60	208~230/60	220~240/50	220~240/50	220~240/50	208~230/60	220~240/50	120/60	208~230/60	220~240/50
	Electrical Current (A)		7.5	12	7.5	7.5	10	8	8	7.5	12	9	11
Dimensions	Capacity (L/Cu.Ft)		338/11.9			388/13.7	486/17.1	490/17.3		578/20.4			626/22.1
	Net/Gross Weight (approx)	kg	238/278			255/286	290/310	295/335		300/330			301/323
		lbs	524.7/612.9			562.2/630.5	639.3/683.4	650.4/738.5		661.4/727.5			664.0/712.0
	Interior Dimension (W*D*H)	mm	465*630*1165			465*716*1310	590*630*1310	590*630*1310		620*716*1310			760*630*1310
		in	18.3*24.8*45.9			18.3*28.2*51.6	23.3*24.8*51.6	23.2*24.8*51.6		24.4*28.2*51.6			29.9*24.8*51.6
	Exterior Dimension (W*D*H)	mm	823*900*1871			830*980*1980	953*900*1980	873*900*1980		903*980*1960			1035*900*1980
		in	32.4*35.4*73.6			32.7*38.6*78.0	37.5*35.4*78.0	34.4*35.4*78.0		35.6*38.6*77.2			40.7*35.4*78.0
	Packing Dimension (W*D*H)	mm	887*995*2040			890*1090*2130	1020*1020*2130	920*990*2130		970*1085*2130			1110*1005*2130
		in	34.9*39.2*80.3			35.0*42.9*83.9	40.2*40.2*83.9	35.2*39.0*83.9		38.2*42.7*83.9			43.7*39.6*83.9
	Container load (20'/40'/40'H)		12/26/26			12/26/26	10/22/22	12/26/26		12/24/24			12/24/24
Alarms	High/Low Temperature		Y			Y	Y	Y		Y			Y
	Hot Condenser		Y			Y	Y	Y		Y			Y
	Power Failure		Y			Y	Y	Y		Y			Y
	Sensor Error		Y			Y	Y	Y		Y			Y
	Low Battery		Y			Y	Y	Y		Y			Y
	High Ambient Temperature		Y			Y	Y	Y		Y			Y
	Door Ajar		Y			Y	Y	Y		Y			Y
Accessories	Caster		Y			Y	Y	Y		Y			Y
	Foot		Y			Y	Y	Y		Y			Y
	Porthole		Y/2			Y/2	Y/2	Y/2		Y/2			Y/2
	Shelves/Inner doors		3/2			3/2	3/4	3/4		3/4			3/4
	USB Interface		Y			Y	Y	Y		Y			Y
	Remote Alarm (Dry contacts)		Y			Y	Y	Y		Y			Y
	5V Power Supply Port		Y			Y	Y	Y		Y			Y
	Temperature Recorder		Optional			Optional	Optional	Optional		Optional			Optional
	RS232/485 Port		Optional			Optional	Optional	Optional		Optional			Optional
	CO_2 Backup System		Optional			Optional	Optional	Optional		Optional			Optional
	LN_2 Backup System		Optional			Optional	Optional	Optional		Optional			Optional
Certifications	CE		Y	/	/	Y	Y	Y	/	Y	/	/	Y
	UL		/	Y	Y	/	/	/	Y	/	Y	Y	/
	ENERGY STAR		/	/	/	/	/	/	/	Y	Y	/	/

· Product appearance and specifications are subject to change without notice
· DW-86L338J/490J/578/628/959 stainless steel interior optional

Specifications







	Model		DW-86L728J	DW-86L728JA	DW-86L828J	DW-86L828JA	DW-86L100J	DW-86W100J	DW-86W420J	DW-86W420JA
Technical Data	Cabinet Type		Upright		Upright		Upright	Chest	Chest	
	Climate Class		N		N		N	N	N	
	Cooling Type		Direct Cooling		Direct Cooling		Direct Cooling	Direct Cooling	Direct Cooling	
	Defrost Mode		Manual		Manual		Manual	Manual	Manual	
	Refrigerant		HC		HC		HC	HC	HC	
	Sound level (dB(A))		50		50	51.5	46.8	49	50	
Performance	Cooling Performance (°C)		-86		-86		-86	-86	-86	
	Temperature Range (°C)		-40~-86		-40~-86		-40~-86	-40~-86	-40~-86	
Control	Controller		Microprocessor		Microprocessor		Microprocessor	Microprocessor	Microprocessor	
	Display		LED		LED		LED	LED	LED	
Electrical Data	Power Supply (V/Hz)		220~240/50	120/60	208~230/60	220~240/50	208~230/60	220~240/50	120/60	220~240/50	208~230/60
	Electrical Current (A)		10	18	10	10	10	3	6.5	4	7.5
Dimensions	Capacity (L/Cu.Ft)		728/25.7		828/29.2		100/3.5	100/3.5	420/14.8	
	Net/Gross Weight (approx)	kg	345/385		380/410		108/132	138/160	310/357	
		lbs	760.6/848.8		837.7/903.9		238/291	304.2/352.7	683.4/787.0	
	Interior Dimension (W*D*H)	mm	766*716*1310		870*716*1310		330*481*630	470*450*480	1367*462*652	
		in	30.2*28.2*51.6		34.3*28.2*51.6		13*19*25	18.5*17.7*18.9	53.8*18.2*25.7	
	Exterior Dimension (W*D*H)	mm	1049*980*1980		1145*980*1980		770*660*810	769*825*1120	2130*870*1020	
		in	41.3*38.6*78.0		45.1*38.6*78.0		30*26*32	30.3*32.5*44.1	83.9*34.3*40.2	
	Packing Dimension (W*D*H)	mm	1120*1090*2130		1240*1080*2130		865*755*1020	860*880*1310	2230*930*1180	
		in	44.1*42.9*83.9		48.8*42.5*83.9		34.1*29.7*40.2	33.9*34.6*51.6	87.8*36.6*46.5	
	Container load (20'/40'/40'H)		10/22/22		5/11/11		32/64/64	14/28/56	12/26/26	
Alarms	High/Low Temperature		Y		Y		Y	Y	Y	
	Hot Condenser		Y		Y		Y	Y	Y	
	Power Failure		Y		Y		Y	Y	Y	
	High/Low Voltage		/		/		Y	/	/	
	Sensor Error		Y		Y		Y	Y	Y	
	Low Battery		Y		Y		Y	Y	Y	
	High Ambient Temperature		Y		Y		Y	Y	Y	
	Door Ajar		Y		Y		Y	Y	Y	
Accessories	Caster		Y		Y		Y	Y	Y	
	Foot		Y		Y		Y	Y	Y	
	Porthole		Y/2		Y/2		Y/1	Y/1	Y/1	
	Shelves/Inner doors		3/4		3/4		1/2	-/1	-/3	
	USB Interface		Y		Y		Y	Y	Y	
	Remote Alarm		Y		Y		Y	Y	Y	
	5V Power Supply Port		Y		Y		Y	N/A	N/A	
	Temperature Recorder		Optional		Optional		/	Optional	Optional	
	Rs232/485 Interface		Optional		Optional		NA/Y	Optional	Optional	
	CO_2 Backup System		Optional		Optional		Optional	Optional	Optional	
	LN_2 Backup System		Optional		Optional		Optional	Optional	Optional	
Certifications	CE		Y	/	/	Y	/	Y	/	Y	/	Y	/
	UL		/	Y	Y	/	Y	/	Y	/	Y	/	Y
	ENERGY STAR		/	Y	/	/	Y	/	/	/	/	/	/

Product appearance and specifications are subject to change without notice

Flexible, Portable Mini-ULT Freezer

Suitable for pharmaceutical, clinical and medical research use, for the long-term storage of samples and products under ultra-low temperature conditions.

Advantage



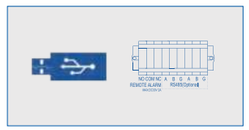
Microprocessor Control System
Microprocessor control, with temperature display precision at 0.1°C. Internal temperature is adjustable from of -40°C ~ -86°C



Auto-cascade Hydrocarbon (HC) Refrigeration Technology
Utilizing auto-cascade hydrocarbon compressor, with superior refrigeration and energy saving effect

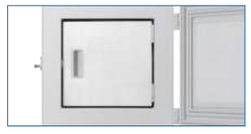


Excellent Doors Seals
Total six gaskets to safeguard the freezer temperature, including a 70mm insulation layer, a 25mm vacuum VIP and 4 layers of silicone seal



Multiple Ports
Enables users to download historical temperature data (up to 15 years) Equipped with remote alarm function and RS485 port





Stainless Steel Inner Door
Prevents loss of internal air to keep samples safe



Quick Access Filter Design
Tool-free removable filter design, easy and quick to clean the filter

Internal Lock
Standard internal lock with 4 keys for multiple users



Ergonomic Design
Unique hook slide handle design, allows users to open and close the door with one hand



Porthole
One porthole as standard, allows for independent testing of cabinet temperature

DW86L51J

Advantage



DW-80WZ15

HC Energy Saving
High quality HC high-efficiency compressor with optimized refrigeration system, which can save 50% on power consumption.

One Unit for Multiple Applications
*Vehicle-mounted transportation with 24V(DC) power supply
*Long-term storage with 110V power supply.

Superior Uniformity
Built-in evaporator, fast cool down refrigeration, the temperature is safe, secure and reliable with the uniformity of ±3°C at key characteristic points.

Ergonomic Design

Light Weight
The whole unit weighs 27kg, easy to carry.

Superior Insulation Performance
25mm VIP + 70mm thick LBA foam insulation layer design, dual seal strips for better insulation.

Safety Lock Catch
Simple adjustable mechanical lock with lock catch, and it can be equipped with an external lock to guarantee the safety of sample transportation and storage.

Metal Handle
Hidden metal handle, stylish and comfortable, safe and durable, easy to carry.

Specifications

Model			DW-80WZ15		DW-86L51J	
Technical Data	Cabinet Type		Chest		Upright	
	Climate Class		N		N	
	Cooling Type		Direct Cooling		Direct Cooling	
	Defrost Mode		Manual		Manual	
	Refrigerant		HC		HC	
	Sound Level (dB(A))		60		46.8	
Performance	Cooling Performance (°C)		-80		-86	
	Temperature Range (°C)		-60~-80		-40~-86	
Control	Controller		Temperature Controller		Microprocessor	
	Display		LED		LED	
Electrical Data	Power Supply (V/Hz)		220/50, DC 24	110/60, DC 24	120/60	220~240/50
	Electrical Current (A)		2.5, 12	4.5, 12	7.5	3
Dimensions	Capacity (L/Cu.Ft)		15/0.53		51/1.8	
	Net/Gross Weight (approx)	(kg)	27/33		77/90	73/86
		(lbs)	59.52		169.8/198.4	160.9/189.6
	Exterior Dimension (W*D*H)	(mm)	690*320*500		532*640*806	
		(in)	27.2*12.6*19.7		20.9*25.2*31.7	
	Interior Dimension (W*D*H)	(mm)	260*180*330		330*481*316	
		(in)	10.2*7.1*13.0		13*16.5*12.4	
	Packing Dimension (W*D*H)	(mm)	805*430*725		570*735*1100	
		(in)	31.7*17.0*28.5		22.4*28.9*43.3	
	Cabinet Width (Without Handle and Hinge)		/		470	
	Container Load (20'/40'/40'H)		105/210/210		60/126/126	
Alarms	High/Low Temperature		Y		Y	
	Hot Condenser		N		Y	
	Power Failure		Y		Y	
	High/Low Voltage		N		Y	
	Sensor Error		Y		Y	
	Low Battery		N		Y	
	High Ambient Temperature		N		Y	
	Door Ajar		N		Y	
	Start-up Delay		/		Y	
Accessories	Caster		N		Y	
	Foot		Y		Y	
	Porthole		N		Y/1	
	Shelves/Basket		N/N		1/1	
	USB Interface		N		Y	
	Remote Alarm		N		Y	
	RS232/485 Port		N		NA/Standard	
Other	Certification		CE	UL	UL	CE

*Haier Biomedical reserves the right to change products and specifications without prior notice.

Controlled Rate Freezer

Suitable for primary cells and cooling cells that are highly sensitive to temperature changes.

Product Advantages

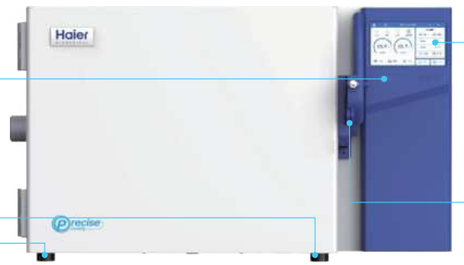
Precise Temperature Control

- Fine temperature control, the temperature rises and fall rate can be controlled in a large range, can achieve the cooling rate of 0.1~99°C/min
- Stable temperature control, double solenoid valve design and special jet ring design, stable temperature control, effectively reduces cell damage
- Precise temperature control, ADRC control algorithm, temperature fluctuation range is ±0.5°C
- 21 CFR Part 11–compliance
  Use of electronic records and signatures during the manufacturing process, that may help improve operational efficiency, improve system security, and decrease the number of records with defects

Ergonomic Design

- 7-inch touch LCD screen, easy to operate
- Liquid nitrogen allowance warning: Real-time display of liquid nitrogen allowance, timely warning when it is lower than 20%
- Single handle press lock, simple and labor-saving, locking function, and the safety of the test process is guaranteed
- Equipped with a real-time temperature curve printer and electronically archived temperature records

Product Functions

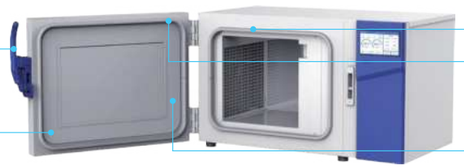


USB Interface
Easier to connect external modules such as printer and barcode reader

Adjustable Feet
Convenient to adjust the height of machine

Temperature Record
Information traceability: the frozen temperature curve and data can be transmitted to the computer for display, and PDF files can be generated synchronously for printing and archiving

Handle
Easy to open and close the door, the user process is safer

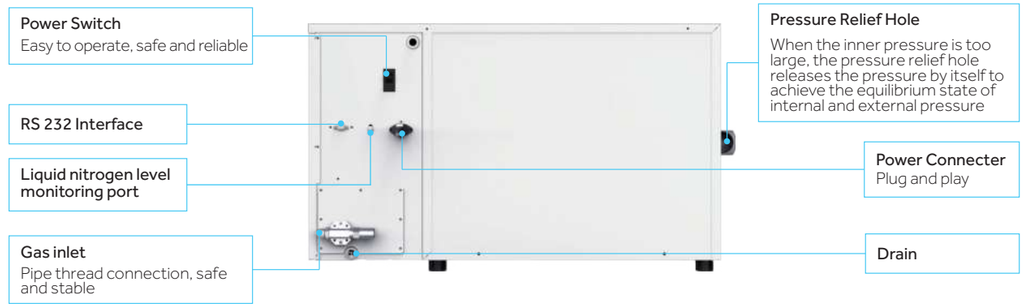


Lock
Ergonomic design, easy to operate

Side-opening Door
Convenient access of frozen samples, suitable height

Double Layer Sealing Structure
Good sealing performance

Superior Insulation Performance
Environmental friendly polyurethane foam material has good thermal insulation performance



Power Switch
Easy to operate, safe and reliable

RS 232 Interface

Liquid nitrogen level monitoring port

Gas inlet
Pipe thread connection, safe and stable

Pressure Relief Hole
When the inner pressure is too large, the pressure relief hole releases the pressure by itself to achieve the equilibrium state of internal and external pressure

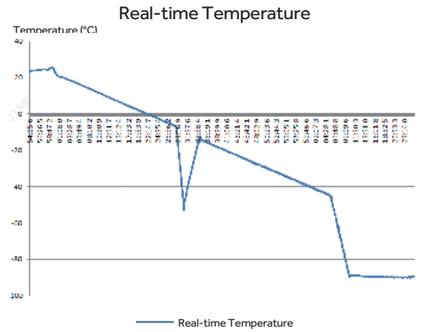
Power Connecter
Plug and play

Drain

Product Performance



ADRC control algorithm, more accurate temperature control, temperature fluctuation range is ±0.5°C



Double solenoid valve design and special jet ring design to realize the cooling rate of 0.1~99°C/min
The heating rate is 0.1~12°C/min by heater design

One-click Freezing



Various program timer settings, one-click freezing of samples

Specifcations

Model	CJ-L19	CJ-L37	CJ-L54
Effective Volume(L)	19	37	54
Temperature Range(℃)	-180~50		
Cooling Rate(℃/min)	0.1~99.9		
Heating Rate(℃/min)	0.1~12		
Temperature Uniformity(℃)	＜2		
Power Supply (V/Hz)	220~50/60		
Display Screen	7 "colorful LCD touch screen		
Refrigerant	Liquid nitrogen		
Liquid Nitrogen Monitoring	Alarm reminder for liquid nitrogen less than 20%		
Exterior Dimensions (W*D*H mm)	775*571*527	941*571*527	1093*571*527
Interior Dimensions (W*D*H mm)	170*340*330	330*340*330	485*340*330
Packing Dimensions (W*D*H mm)	890*710*705	1050*700*705	1200*710*705
Net/Gross Weight (Kg)	66/96	73/105	84.5/118
Serial Port Form	USB Interface/RS232 serial port		
Accessories	1 Printer, 2 Sample probe		
Certification	CE		

Optional Freezing Rack

BE No.	Description	Dimensions (W*D*H mm)	Vials/Bags Per Rack	Number of Racks Model		
				CJ-L19	CJ-L37	CJ-L54
BE0ZM6000	2/5ml freezing rack(set of 1)	308*327*300	810(2ml vial) 486(5ml vial)		1	1+1
TBD	2/5ml freezing rack(set of 1)	143*326*300	550(2ml vial) 330(5ml vial)	1		
BE0ZM5000	50ml freezing rack(sets of 3)	100*153*259	13(25/50ml bag)	3	6	9
BE0ZMA000	250ml freezing rack(set of 1)	160*240*256	8(250/500ml bag)	1	2	3
BE0ZMC000	100ml freezing rack(sets of 2)	112*164*301	10(100ml bag)	2	4	6



Vials Freezing Rack



Bag Freezing Rack



Bag Freezing Box

PC Software(with PC)



- Optimized profile design and easy to operate.
- Real-time acquisition of freezing curve, sample temperature, operating steps, etc.
- Remote control of controllable rate freezer.
- Update and enhance the creation of freezing programs.
- Realize the comparative analysis of historical data, output running records and print program reports.

Self-pressurized LN_2 Storage



Model	YDZ-100/1.5
Volume of LN_2 (L)	100
Static Evapouration (L/Day)	1.3
LN_2 Output (L/Min)	4
Height (mm)	1185
Outside Diameter (mm)	606
Empty Weight (kg)	75
Full Weight (kg)	157
Pressure Parameters (MPa)	1. Standard working pressure 0.09 2. Maximum working pressure 0.15 3. First stage safety valve relief pressure 0.15 4. Second stage safety valve release pressure 0.24 5. Pressure gauge range 0~0.25

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CO_2 Backup System

Advantage

- Small footprint, light and easy for installation
- User adjustable temperature setting
- Simple to program and operate
- Flexible – Can be installed on any ULT freezer, which has a port hole
- The CO_2 injection pipe is designed in combination of filter, to prevent the blockage of CO_2 back-up system



Safety

- Liquid CO_2 test button to ensure the backup system is working
- Low CO_2 alarm system alerts the user when liquid CO_2 bottle is low in liquid level
- Ultra-low sound level compressors



Reliability

- Stainless steel covering, more elegant
- Stainless steel input pipe design, allows for flexibility and ease of cylinder positioning
- Durable battery lasts up to 48 hours



Specifications

Model		HBX-IC
Technical Data	Climate Class	N
	Cooling Type	Direct cooling
	Refrigerant	CO_2
Performance	Cooling Performance (°C)	-70
	Temperature Range (°C)	-40~-70
Control	Controller	Thermostat
	Display	LED
Electrical Data	Power Supply (V/Hz)	220-240/50 208-230/60 115/60
	Power (W)	20
	Electrical Current (A)	0.25
Dimensions	Net/Gross Weight (approx)	11.2/14 24.7/30.86
	Exterior Dimensions (W*D*H)	200*400*160 7.8*15.7*6.3
	Packing Dimensions (W*D*H)	550*390*330 21.7*15.4*13.0
Alarms	CO_2 Margin Insufficient Alarm	Y
	Low Battery Alarm	Y
	Sensor Error Alarm	Y
	Main Power Off Alarm	Y
	Charge Indicator	Y
	CO_2 Injection Test Button	Y
Accessories	Foot	4
Others	Certification	CE/UL

Product appearance and specifications are subject to change without notice

LN_2 Backup System

LN_2 backup cooling system is an independent refrigeration system generally used for a -150°C mechanical cryo freezer. When there is a loss of power or the temperature of the freezer rises to the high alarm set point, the LN_2 backup system can be automatically activated to inject LN_2 into the chamber to maintain the freezer temperature. The backup system operates on a rechargeable battery when there is a loss of mains power.



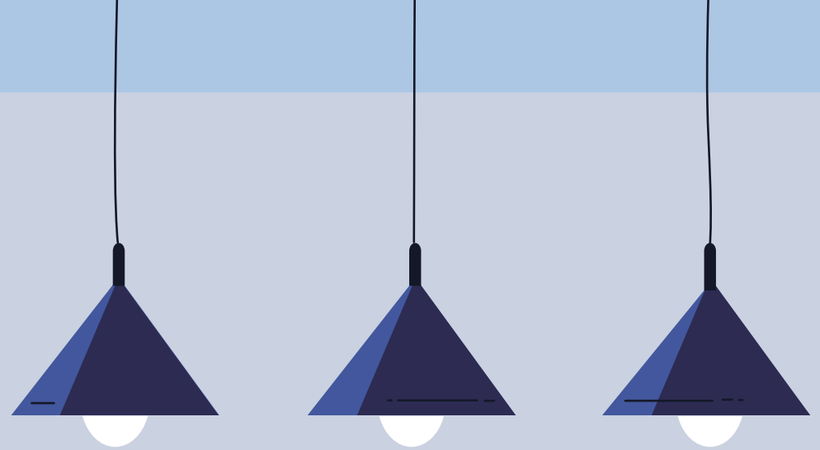
Features

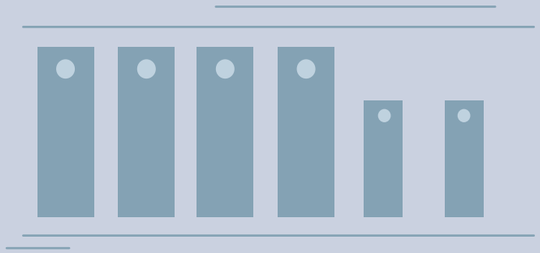
- Interlocked design to turn off the LN_2 injection when the door is opened
- Protection circuit to prevent over-charging battery
- Light weight and portable design, suitable for installation on top of a freezer
- Alarm functions to include low battery and sensor error

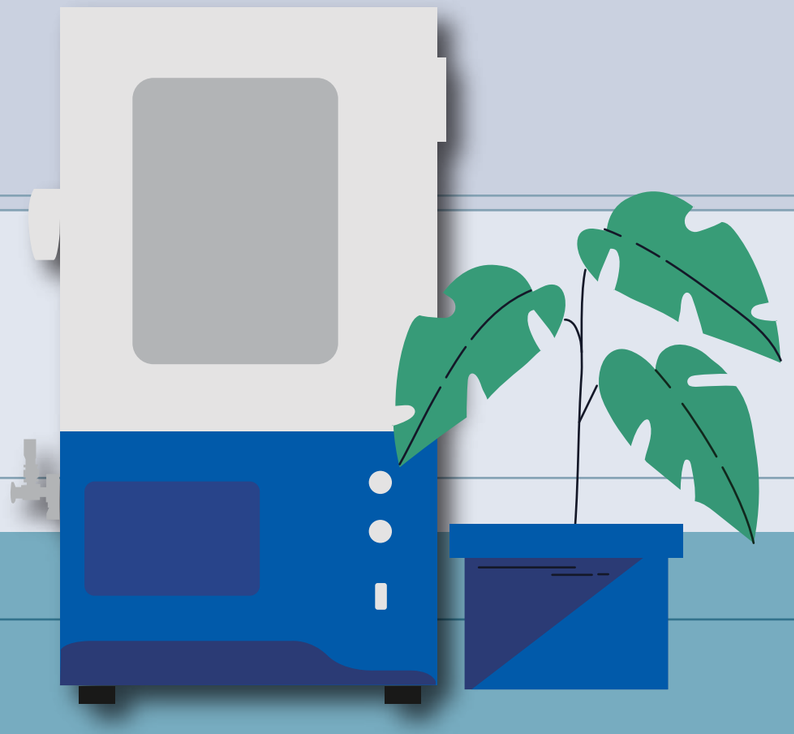
Specifications

Model		HBX-IIA
Technical Data	Cabinet Type	Horizontal
	Cooling Type	Direct cooling
	Refrigerant	LN_2
Performance	Cooling performance (°C)	-135
	Temperature Range (°C)	-90~-135
Control	Controller	Thermostat
	Display	LED
Electrical Data	Power Supply (V/Hz)	220-240/50 208-230/60 115/60
	Power (W)	20
	Electrical Current (A)	0.05
Dimensions	Net/Gross Weight (approx)	15/17 33.1/37.5
	Exterior Dimensions (W*D*H)	360*305*445 14.2*12.0*17.5
	Packing Dimensions (W*D*H)	450*375*720 17.7*14.8*28.3
Alarms	Low Battery Alarm	Y
	Sensor Error Alarm	Y
	Main Power Off Alarm	Y
	Charge Indicator	Y
Others	Certification	CE/UL

Product appearance and specifications are subject to change without notice









Freeze Dryer

Freeze Dryer

Applicable to biological research, medical laboratories for drying of biotechnological and pharmaceutical products, e.g. tissues and tissue extracts, bacteria, vaccines, and sera, also suitable to food research, chemical industry and other related scenarios for efficient lyophilization of samples.



DG-65Z04-10A

Product Advantages

Automatic parameter storage
Intelligent storage of the freeze-drying parameters, without setting them separately each time

The integrated design and totally enclosed environment make the sample pollution-free
The whole working cabin is closed, the freeze-drying process is isolated from the outside environment

Multiple alarm functions
Multiple alarms including cold trap cooling overtime, vacuum pump oil replacement reminder, temperature sensor fault/cold trap temperature sensor fault, vacuum sensor fault, condenser sensor fault, ambient temperature sensor fault, abnormal refrigeration, motor overcurrent, condenser dirty blockage, vacuum alarm, heating lamp life less than 10% alarm

The refrigeration efficiency is greatly improved
The evaporator is located in the freezing chamber, which directly cools the sample and improves the refrigeration efficiency, it can reach-60°C within 25 minutes

IoT real-time management
Separate account, authority management, configuration record function, data traceability, real-time monitoring of equipment status

High sublimation speed and high drying efficiency
Excellent temperature uniformity, free from external influences, more energy-saving and environment-friendly

Friendly Design



Automatic lifting shelves without manual operation



Vaccum pump port, convenient for oil change



The filter can be easily replaced



The design of glass door ensures the working situation in the drying chamber visible at a glance

Product Parts



Rotary Vane Vacuum Pump DRV10

Oil Filter

Product Advantages

- Built in oil check valve to ensure no oil return in the pump
- No spring rotating disc, low noise, low vibration, and long service life
- Superior product structure, easy disassembly and assembly, fast and convenient maintenance
- Built in oil pump for forced oil supply, achieving long-term continuous and stable operation of the pump below atmospheric pressure
- The combination of various cooling methods such as air cooling, oil cooling, and water cooling ensures good cooling effect, achieving long-term stable operation of the product and stable evacuation performance

Freeze Dryer

Specifications

Model		DRV10
Power Supply (V/Hz)		220/50
Pumping Speed (m³/h)		9.9
Ultimate Pressure	Gas Ballast Off (Pa)	$5*10^{-1}$
	Gas Ballast On (Pa)	5
Motor Power (kw)		0.4
Required Oil (L)		1.1
Air Inlet		KF25
Air Outlet		KF25
Sound Level (db)		65
Weight (kg)		25

Model	DG-65Z04-10A
Ice Condenser Temperature (°C)	-65
Condensation Efficiency	4kg/24h
Sound Level (dB(A))	≤60
Weight (kg)	145 (equipment)+25 (pump)
Ultimate vacuum (Pa/mbar)	$5/5*10^{-2}$
Maximum Condensation (kg)	4
Power (w)	950
Power Supply (V/Hz)	220/50
Dry Chamber Interior Dimesion (W*D*H)(mm)	404*374*398
Dry Chamber Capacity (L)	60
Freeze Cabinet Capacity (L)	13
Area (m^2)	0.1
Shelves	3 layers
Material Tray Diameter (mm)	Φ200
Maximum Spacing Between Material Trays (mm)	70
Exterior Dimension (W*D*H)(mm)	480*793*883 (without pump)
Packing Dimension (W*D*H)(mm)	665*900*1400 (include pump)
Temperature Curve Display	Yes
Vacuum Pump Maintenance Reminder	Yes
Screen	10.1 inch touch screen
Notepad	Yes
Account Management	Yes
USB	Yes
IoT	Yes
Flask	/
Penicillin Bottle	/
Certification	CE

*Haier Biomedical reserves the right to change products and specifications without prior notice.

Applicable to biological research, medical laboratories for drying of biotechnological and pharmaceutical products, e.g. tissues and tissue extracts, bacteria, vaccines, and sera. The product is also suitable to food research, chemical industry and other related scenarios for efficient lyophilization of samples.



DG-65Z04-10AR

Product Advantages

Automatic Parameter Storage
Intelligent storage of the freeze-drying parameters, without setting them separately each time

IoT Real-time Management
Separate account, authority management, configuration record function, data traceability, real-time monitoring of equipment status

Real Time Monitoring of Freeze-drying Status
Check the sample freeze-drying curve at any time, and it can be adjusted immediately and in time if there are any risks

The Refrigeration Efficiency is Greatly Improved
The evaporator is located in the freezing chamber, which directly cools the sample and improves the refrigeration efficiency, it can reach-60°C within 25 minutes

Multiple Alarm Functions
Multiple alarms, including cold trap cooling overtime, vacuum pump oil replacement reminder, temperature sensor fault/cold trap temperature sensor fault, vacuum sensor fault, condenser sensor fault, ambient temperature sensor fault, abnormal refrigeration, motor overcurrent, condenser dirty blockage, vacuum alarm, heating lamp life less than 10% alarm

Freeze Dryer

Friendly Design



Standard

Able to pre-freeze, suitable for both plate and bottle samples



Multi Manifold

Able to pre-freeze, suitable for both plate and bottle samples, it's convenient for adding or taking samples during the freeze-drying process



Pressure Plug

Able to pre-freeze, suitable for bottled samples. After freeze-drying, it can be vacuum plugged manually



Gland Multi Manifold

Able to pre-freeze and vacuum plug, it's convenient for adding or taking samples during the freeze-drying process

Product Parts

Rotary Vane Vacuum Pump DRV10

Oil Filter

Specifications

Model		DRV10
Power Supply (V/Hz)		220/50
Pumping Speed (m^3/h)		9.9
Ultimate Pressure	Gas Ballast Off (Pa)	$5*10^{-1}$
	Gas Ballast On (Pa)	5
Motor Power (kw)		0.4
Required Oil (L)		1.1
Air Inlet		KF25
Air Outlet		KF25
Sound Level (db)		65
Weight (kg)		25

Model	DG-65Z04-10AR
Ice Condenser Temperature (°C)	-65°C/-85°C (optional)
Condensation Efficiency	4kg/24h
Sound Level (dB(A))	≤60
Weight (kg)	80 (equipment)+25 (pump)
Ultimate vacuum (Pa/mbar)	$5/5*10^{-2}$
Maximum Condensation (kg)	4
Power (w)	950
Power Supply (V/Hz)	220/50
Freeze Cabinet Capacity (L)	13
Area (m^2)	0.1
Shelves	3 layers (extensive)
Material Tray Diameter (mm)	Φ200
Maximum Spacing Between Material Trays (mm)	70
Exterior Dimension (W*D*H)(mm)	480*793*730 (without pump)
Packing Dimension (W*D*H)(mm)	665*900*920 (include pump)
Temperature Curve Display	Yes
Vacuum Pump Maintenance Reminder	Yes
Screen	10.1 inch touch screen
Notepad	Yes
Account Management	Yes
USB	Yes
IoT	Yes
Penicillin Bottle	Optional
Certification	CE

*Haier Biomedical reserves the right to change products and specifications without prior notice.

Haier Biomedical
Intelligent Protection of Life Science

Lab Consumables Storage Solutions

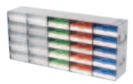
Freezer Storage Racks

Haier Biomedical offers a full line of freezer storage racks to help make efficient use of space in chest and upright freezers, deep freezers, and ultra-low temperature freezers.
Normally, freezer racks may have horizontal access (for upright freezers) or vertical openings (for chest freezers). For optimal storage, client can choose racks designed to fit the particular freezer model or product.



Product Features

- Manufactured using advanced capacitor energy storage resistance welding to product solid weld with smooth finish
- Various specifications for different storage requirements-frozen storage tube (box), SBS frozen storage tube (box), centrifugal tube, etc
- Handle is designed to reduce frost and ice build-up around handle
- Customised racking is available for different types of storage containers or models of freezer, contact us for more information

Rack Type		CAT.NO.	Material	Rack Layout (Rows*Columns)	Box Type	Maximum Box Dimensions (mm)	Rack Dimensions (D*W*H)(mm)	Packing Dimensions (D*W*H)(mm)
Sliding-drawer freezer rack		433001	SUS201	5*5	2 inch	133*133*53	686*141*291	730*160*310
		433002	SUS304	5*5	2 inch	133*133*53	686*141*291	730*160*310
		433003	SUS201	5*4	2 inch	133*133*53	552*141*291	590*160*310
		433004	SUS304	5*4	2 inch	133*133*53	552*141*291	590*160*310
		433005	SUS201	5*3	2 inch	133*133*53	417*141*291	460*160*310
		433006	SUS304	5*3	2 inch	133*133*53	417*141*291	460*160*310
		433007	SUS201	4*4	2 inch	133*133*53	552*141*240	590*160*250
		433008	SUS304	4*4	2 inch	133*133*53	552*141*240	590*160*250
		434040	SUS304	4*5	2 inch	133*133*53	686*141*233	720*160*320
		434041	SUS304	3*3	2 inch	133*133*53	421*141*175	455*160*190
		433009	SUS304	3*5	3 inch	133*133*94	686*141*291	730*160*310
		433010	SUS304	3*4	3 inch	133*133*94	552*141*291	590*160*310
		433011	SUS304	7*5	For 0.5ml tube	133*133*37	686*141*291	730*160*310
Side-access freezer rack		434036	SUS304	6*4	2 inch	133*133*53	558*140*320	610*160*335
		433012	SUS304	5*5	2 inch	133*133*53	686*141*291	730*160*310
		433013	SUS304	5*4	2 inch	133*133*53	552*141*291	590*160*310
		433037	SUS304	5*3	2 inch	133*133*53	417*141*291	460*160*310
		433014	SUS304	3*5	3 inch	133*133*94	686*141*291	730*160*310
		433015	SUS304	3*4	3 inch	133*133*94	552*141*291	590*160*310
		433016	SUS304	4*4	2 inch	133*133*53	552*141*240	590*160*250
SBS freezer rack		433017	SUS304	5*7	For 1.0ml/2ml sbs tube	86*128*50.8	686*141*291	730*160*310
		433018	SUS304	7*7	For 0.5ml sbs tube	86*128*38.5	686*141*291	730*160*310
		433019	SUS304	5*6	For 1.0ml/2ml sbs tube	86*128*50.8	552*141*291	590*160*250
		433020	SUS201	5*7	For 1.0ml/2ml sbs tube	86*128*50.8	686*141*291	730*160*310
		433021	SUS201	7*7	For 0.5ml sbs tube	86*128*38.5	686*141*291	730*160*310
		433022	SUS201	5*6	For 1.0ml/2ml sbs tube	86*128*50.8	552*141*291	590*160*250
Chest-type freezer rack		433023	SUS304	6 layer	2 inch	133*133*53	141*141*332	160*160*350
		433025	SUS304	8 layer	2 inch	133*133*53	141*141*442	160*160*480
		433026	SUS304	10 layer	2 inch	133*133*53	141*141*552	160*160*560
		433028	SUS304	12 layer	2 inch	133*133*53	141*141*662	160*160*680
Centrifugal tube freezer rack		433029	SUS304	5*22*2 layer	15ml centrifuge tube	/	686*141*291	730*160*310
		433030	SUS304	3*16*2 layer	50ml centrifuge tube	/	686*141*291	730*160*310

Haier Biomedical ULT Freezer Model	CAT.NO.	Rack Type	Box Type	Rack Layout (Rows*Columns)	Freezer Rack Quantity	Freezer Box Quantity	Cryo Tube Quantity (2ml)
DW-86L338J/ DW-86L338JA	433013 (middle, 2 layers)	Side-access freezer rack	2 inch	5*4	6	120	12000
	433003/433004 (middle, 2 layers)	Sliding-drawer freezer rack	2 inch	5*4	6	120	12000
	433016 (top and bottom layers)	Side-access freezer rack	2 inch	4*4	6	96	9600
	433007/433008 (top and bottom layers)	Sliding-drawer freezer rack	2 inch	4*4	6	96	9600
DW-86L388J/ 418S/418ST/419	433012	Side-access freezer rack	2 inch	5*5	12	300	30000
	433001/433002	Sliding-drawer freezer rack	2 inch	5*5	12	300	30000
DW-86L486E	433013	Side-access freezer rack	2 inch	5*4	16	320	32000
	433003/433004	Sliding-drawer freezer rack	2 inch	5*4	16	320	32000
DW-86L490J/490JA	433013 (top 2 layers)	Side-access freezer rack	2 inch	5*4	8	160	16000
	433003/433004 (top 2 layers)	Sliding-drawer freezer rack	2 inch	5*4	8	160	16000
	433016 (bottom 2 layers)	Side-access freezer rack	2 inch	4*4	8	128	12800
	433007/433008 (bottom 2 layers)	Sliding-drawer freezer rack	2 inch	4*4	8	128	12800
DW-86L628E	433013	Side-access freezer rack	2 inch	5*4	20	400	40000
	433003/433004	Sliding-drawer freezer rack	2 inch	5*4	20	400	40000
DW-86L578J/578JA/ 578S/578ST/579/579BP/ 579BPT/578BPST	433012	Side-access freezer rack	2 inch	5*5	16	400	40000
	433001/433002	Sliding-drawer freezer rack	2 inch	5*5	16	400	40000
DW-86L728J/728JA/ 728S/728ST/728SAT/729 /729BP/729BPT/728BPST	433012	Side-access freezer rack	2 inch	5*5	20	500	50000
	433001/433002	Sliding-drawer freezer rack	2 inch	5*5	20	500	50000
DW-86L828J/828JA/ 828S/828ST/829/829BP/ 829BPT/828W/828BPST	433012	Side-access freezer rack	2 inch	5*5	24	600	60000
	433001/433002	Sliding-drawer freezer rack	2 inch	5*5	24	600	60000
DW-86L959BP/ 959BPT/959W	433012	Side-access freezer rack	2 inch	5*5	28	700	70000
	433001/433002	Sliding-drawer freezer rack	2 inch	5*5	28	700	70000
DW-86L100J	433005/433006	Sliding-drawer freezer rack	2 inch	5*3	4	60	6000
DW-86W420J/420JA	433026	Chest-type freezer rack	2 inch	10 layer	27	270	27000
DW-86W100J	433025	Chest-type freezer rack	2 inch	8 layer	9	72	7200
DW-150W200	433026	Chest-type freezer rack	2 inch	10 layer	12	120	12000
DW-150W209/ 150W209A	433026	Chest-type freezer rack	2 inch	10 layer	12	120	12000
	433028	Chest-type freezer rack	2 inch	12 layer	12	144	14400
DW-86L51J	433005/433006	Sliding-drawer freezer rack	2 inch	5*3	2	30	3000

Barcode Cryogenic Tubes and Storage Boxes

Haier Biomedical can provide a range of high quality cryogenic storage tubes , which can withstand the extremes of cryogenic conditions while protecting the valuable samples. Meanwhile the Haier Biomedical cryogenic storage tubes have high compatibility with above freezer storage racks and ULT freezers, meeting the client's one-stop demands.



Product Features

- Rigorous cytoxicology-testing ensures pyrogen, RNase, DNase and endotoxins levels are less than 0.005EU/mL
- Complying with ANSI/SLAS international standards, suitable for a variety of automated storage and processing equipment
- Laser etching process and three-code information integration technology are adopted to ensure the security and redundancy to provide an extra layer of protection
- The snap design of the base is easy to use and prevents scratches after freezing
- Designed and manufactured to prevent leakage at -98kpa to meet the IATA dangerous goods PI650 standard

CAT.NO.	Description	Unit Quantity	Packing Specification
413001	0.5ml (ultra-low temperature volume 0.5ml), slender, external spin tube, bottom prefabricated QR code, side wall prefabricated digital code and 1D barcode: box side prefabricated digital code and 1D barcode, box bottom prefabricated QR code, 8*12 standard SBS layout	7680	96pcs/box, 80boxes/case
413002	0.75ml (ultra-low temperature volume 0.75ml), slender, external spin tube, bottom prefabricated QR code, side wall prefabricated digital code and 1D barcode: box side prefabricated digital code and 1D barcode, box bottom prefabricated QR code, 8*12 standard SBS layout	6720	96pcs/box, 70boxes/case
413003	1.0ml (ultra-low temperature volume 1.0ml), slender, external spin tube, bottom prefabricated QR code, side wall prefabricated digital code and 1D barcode: box side prefabricated digital code and 1D barcode, box bottom prefabricated QR code, 8*12 standard SBS layout	4800	96pcs/box, 50boxes/case
413004	2.0ml (ultra-low temperature volume 1.9ml), slender, external spin tube, bottom prefabricated QR code, side wall prefabricated digital code and 1D barcode: box side prefabricated digital code and 1D barcode, box bottom prefabricated QR code, 6*8 standard SBS layout	2400	48pcs/box, 50boxes/case
413005	2.0ml (ultra-low temperature volume 1.9ml), slender, external spin tube, bottom prefabricated QR code, side wall prefabricated digital code and 1D barcode: box side prefabricated digital code and 1D barcode, box bottom prefabricated QR code, 10*10 square layout	3000	100pcs/box, 30boxes/case
413006	0.5ml (ultra-low temperature volume 0.5ml), slender, external spin tube, bottom prefabricated QR code, side wall prefabricated digital code and 1D barcode	13200	220pcs/bag, 60bags/box
413007	1.0ml (ultra-low temperature volume 1.0ml), slender, external spin tube, bottom prefabricated QR code, side wall prefabricated digital code and 1D barcode	6000	150pcs/bag, 40bags/case
413008	2.0ml (ultra-low temperature volume 1.9ml), slender, external spin tube, bottom prefabricated QR code, side wall prefabricated digital code and 1D barcode	3500	70ticks/bag, 50bags/box
413009	Cryopreservation box, matching 0.5ml slender external rotation cryopreservation tube, prefabricated digital code and 1D barcode on the side of the box, prefabricated QR code at the bottom of the box, 8*12 standard SBS layout	80	80boxes/case
413010	Cryopreservation box, matching 0.75ml slender external rotation cryopreservation tube, prefabricated digital code and 1D barcode on the side of the box, prefabricated QR code at the bottom of the box, 8*12 standard SBS layout	70	70boxes/case
413011	Cryopreservation box, matching 1.0ml slender external rotation cryopreservation tube, prefabricated digital code and 1D barcode on the side of the box, prefabricated QR code at the bottom of the box, 8*12 standard SBS layout	50	50boxes/case
413012	Cryopreservation box, matching 2.0ml slender external rotation cryopreservation tube, prefabricated digital code and 1D barcode on the side of the box, prefabricated QR code at the bottom of the box, 6*8 standard SBS layout	50	50boxes/case
413013	Cryopreservation box, matching 2.0ml slender external rotation cryopreservation tube, prefabricated digital code and 1D barcode on the side of the box, prefabricated QR code at the bottom of the box, 10*10 standard SBS layout	30	30boxes/case

Universal Cryogenic Tubes and Storage Boxes



Product Features

- Detachable color label design, color classification of samples according to requirements
- Clear scale and large writing area
- Internal rotation and external rotation are designed to meet different sample storage requirements
- Multi-color tube cap design, according to the needs of the sample color classification
- 2D tube bottom prefabricated two-dimensional code, laser etching technology, wear and corrosion resistant
- Pipe wall prefabricated bar code and digital code, three codes in one, to meet different scene identification

CAT.NO.	Description	Unit Quantity	Packing Specification
423001	Paper freezer box, 2 inches 81 compartments, white, flip lid	50	50boxes/case
423002	Paper freezer box, 2 inches 100 compartments, white, flip lid	50	50boxes/case
421003	81-well PP freezer box, -121~90°C, monochrome box, white, yellow, red, blue, green optional, flat lid	50	50boxes/case
421004	100-well PP freezer box, -121~90°C, monochrome box, white, yellow, red, blue, green optional, flat lid	50	50boxes/case
422005	25-well PC freezer box, -196~121°C, monochrome box, purple, red, blue, green optional, flat lid	50	50boxes/case
422006	81-well PC freezer box, -196~121°C, monochrome box, purple, red, blue, green optional, flat lid	50	50boxes/case
422007	100-well PC freezer box, -196~121°C, monochrome box, purple, red, blue, green optional, flat lid	50	50boxes/case
422010	3-inch 81-well PC freeze storage box, -196~121°C, single color one box, white, red, blue, green optional, flat lid	20	20boxes/case
422008	Supporting 0.5ml external rotation cryopreservation tube, 100-well PC cryopreservation box, -196~121°C, blue (supporting H-ES05B; H-ES05D-TS)	50	50boxes/case
422009	Supporting 1.5ml external rotation cryopreservation tube, 100-well PC cryopreservation box, -196~121°C, blue (supporting H-ES15B; H-ES15D-TS)	50	50boxes/case
423010	0.5ml cryopreservation tube, external rotation, self-standing bottom, with scale, with white writing area, -196°C ~ 121°C	1000	100pcs/bag, 10bags/case
423011	1.5ml cryopreservation tube, external rotation, self-supporting bottom, with scale, with white writing area, -196°C ~ 121°C	1000	100pcs/bag, 10bags/case
423012	2ml cryopreservation tube, external rotation, self-supporting bottom, with O-ring, with scale, with white writing area, -196°C ~ 121°C	1000	100pcs/bag, 10bags/case
423013	5ml cryopreservation tube, external rotation, self-supporting bottom, with O-ring, with scale, with white writing area, -196°C ~ 121°C	1000	100pcs/bag, 10bags/case
423014	1ml cryopreservation tube, internal rotation, self-supporting bottom, with O-ring, with scale, with white writing area, -196°C ~ 121°C	1000	100pcs/bag, 10bags/case
423015	2ml cryopreservation tube, internal rotation, self-supporting bottom, with O-ring, with scale, with white writing area, -196°C ~ 121°C	1000	100pcs/bag, 10bags/case
423016	0.5ml cryopreservation tube (boxed), external rotation, self-supporting bottom, with scale, with white writing area, -196°C ~ 121°C	1200	100pcs/box, 12boxes/case
423017	1.5ml cryopreservation tube (boxed), external rotation, self-supporting bottom, with scale, with white writing area, -196°C ~ 121°C	1200	100pcs/box, 12boxes/case
423018	0.5ml 2D cryopreservation tube (bagged), external rotation, self-supporting bottom, with scale, bottom QR code, side barcode + digital code, -196°C~121°C	1000	100pcs/bag, 10bags/case
423019	1.5ml 2D cryopreservation tube (bagged), external rotation, self-supporting bottom, with scale, bottom QR code, side barcode + digital code, -196°C~121°C	1000	100pcs/bag, 10bags/case
423020	0.5ml 2D cryopreservation tube (boxed), external rotation, self-supporting bottom, with scale, bottom QR code, side barcode + digital code, -196°C~121°C	1200	100pcs/box, 12boxes/case
423021	1.5ml 2D cryopreservation tube (boxed), external rotation, self-supporting bottom, with scale, bottom QR code, side barcode + digital code, -196°C~121°C	1200	100pcs/box, 12boxes/case

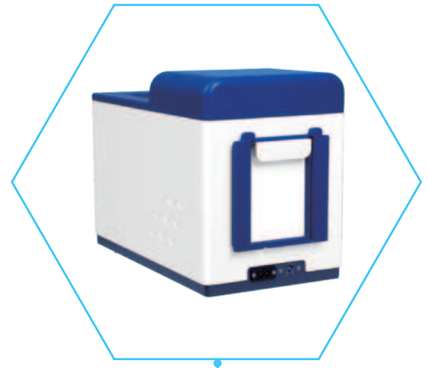
High Speed Batch Scanner

The Hoierh high speed batch scanner can be used to scan various coded, boxed prefabricated code cryogenic tubes to achieve high-speed identification and efficient management of samples.



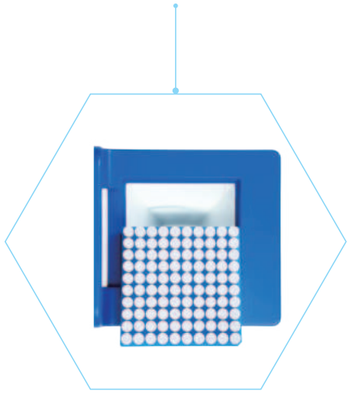


Detachable module design, compatible with SBS, square and other cryogenic boxes

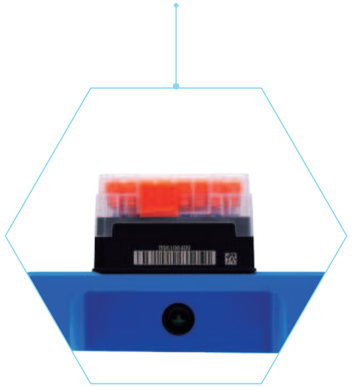


Ergonomic design: The scanner can be wall-mounted and stored safely using the attachment included

Intelligent induction of tube boxes and automatic light filling function, adaptable to multiple applications



Reading synchronously the bottom code of freezing tubes and of boxes



Classification		Model	Parameter	Sets/ Case	Package
High speed batch scanner		HS-SBS-001	Batch scanning, high-speed scanning, side code scanning, suitable for 10*10 /SBS and other specifications of prefabricated coded standard cryogenic tube/box of various brands	1	1 set/case
		HS-SBS-002	Batch scanning, high-speed scanning, side code scanning, suitable for 10*10 /SBS and other specifications of prefabricated coded standard cryogenic tube/box of various brands	1	1 set/case
Top batch scanner		HS-100-002	Batch scanning, high-speed scanning, top scanning, suitable for scanning of 10*10/9*9 cryogenic tube, centrifuge tube, etc. (two-dimensional code label is pasted on the top)	1	1 set/case

Single Tube Scanner

The Hoierh single tube scanner is flexible and quick to scan information





Wireless communication distance up to 30 meters



Support battery charging and replacement, can work for 20 hours or standby for 50 hours when fully charged



Excellent DPM code reading ability, suitable for all kinds of precision code recognition, fast and accurate

Classification		Model	Parameter	Sets/ case	package
Single tube scanner		HS-H-001	Handheld scanner, provide single cryogenic tube or cryogenic box, scanner recognition one-dimensional code/two-dimensional code function, plug and play	1	1 set/case
		HS-W-001	Wireless handheld scanner, provide single cryogenic tube or cryogenic box, scanner recognition one-dimensional code/ two-dimensional code function, plug and play	1	1 set/case
		HS-T-001	Desktop scanner, provide single cryogenic tube or cryogenic box, scanner recognition one-dimensional code/two-dimensional code function, plug and play	1	1 set/case

Batch Cover Opener

The Hoierh batch cover opener opens or closes the multi-channel cap which provides increased efficiency compared to manual operation and reduces the risk of contact with biochemical reagents and other safety risks





Simultaneously open up to 8 channels at one time



Convenient and fast removal of cover



Support design, convenient storage opened batch tube cover

Classification		Model	Parameter	Sets/ case	package
Batch cover opener		BQ-OP8	The 8-channel hand-held electric cover opener can open the prefabricated QR code cryogenic tube (8x12) with 8 cryogenic tube covers in a row, or (diamond layout 8x6) with 4 cryogenic tube covers in a row	1	1 set/case
		BQ-OP4	The 4-channel hand-held electric cover opener can open the prefabricated QR code cryogenic tube (4x12) with 4 cryogenic tube covers in a row, or (4x6) with 4 cryogenic tube covers in a row	1	1 set/case

Low Temperature Label Printer

The low-temperature printer allows users to print different labels that are durable, stable, and resistant to wear, ensuring the long-term safety of sample information.







Suitable for all kinds of experimental instruments, resistant to solvent and chemical corrosion, repeated freezing and thawing without falling off

Touch operation for quick adjustment of printer Settings





High performance printing, meet the high requirements of biobank processing

Classification	Product Number	Model	Supporting Printer	Parameter	Loading Capacity
Printer	i5100 300dpi	Printer i5100 300dpi	\	Thermal transfer printer, printing accuracy 300dpi, maximum printing speed 300mm/s	1 set/case
	BBP12	Brady BBP12 printer	\	Printing accuracy 300dpi, low-end printing	1 set/case
	i5100 600dpi	Printer i5100 600dpi	\	Thermal transfer printer, printing accuracy 600dpi, maximum printing speed 150mm/s	1 set/case
Ribbon	IP-R4302	Ribbon IP R4302	i5100 300dpi	60mm*300m/roll, used together with IP 300; Print about 4-5 rolls of labels (B490A or B490B)	1 roll/bag
	IP-R4902	Ribbon IP-R4902	i5100 300dpi	60mm*300m/roll, used together with IP 300; Print about 4-5 rolls of labels (B6422)	1 roll/bag
	R4313	Ribbon R4313	BBP11/BBP12	110mm*74m/roll, used with BBP11/BBP12 printer	1 roll/bag
Lable	THT-152-053-3-2A	B053 material (25.4*9.53mm)*2 two rows of labels	i5100 300dpi	Label for room temperature use. The label material is synthetic paper, and the use temperature range is -20°C-+80°C; Two labels in a row, 3000 pcs/roll, and the matching ribbon is IP-R4302	3000 pcs/roll
	THT-152-053-3-RP	B053 material 25.4*9.53mm one in a row	i5100 300dpi	Label for normal temperature use. The label material is synthetic paper, and the use temperature range is -20°C-+80°C; Two labels in a row, 4000pcs/roll, and the matching ribbon is IP-R4302; Customized, pre printed coding	4000 pcs/roll
	THT-163-6422-3	B6422 lable 25.4mm*9.53mm + D=9.53mm	i5100 300dpi	Apply to cryogenic tube below 2ml; Environment temperature above 40 °C	3000 pcs/roll
	THT-163-490-3	B490 material 25.4mm*9.53mm + D=9.53mm	i5100 300dpi	Apply to cryogenic tube below 2ml and pasted on the wall and round cover of the croygenic tube; Can withstand can be directly pasted after taking out the cryogenic tube in liquid nitrogen at room temperature	3000 pcs/roll
	THT-152-490-3	B490 material 25.4mm*9.53mm	i5100 300dpi	Apply to cryogenic tube below 2ml, only pasted on the wall of cryogenic tube; Can withstand can be directly pasted after taking out the cryogenic tube in liquid nitrogen at room temperature	3000 pcs/roll
	THT-151-490-3	B490 material 15.24mm*10.16mm+D=8.26mm	i5100 300dpi	Apply to cryogenic tube below 2ml and pasted on the wall and round cover of the croygenic tube; Can withstand can be directly pasted after taking out the cryogenic tube in liquid nitrogen at room temperature	3000 pcs/roll

Haier Biomedical

Intelligent Protection of Life Science

PRESERVATION



Biomedical Freezer

-60°C Biomedical Freezer

A versatile low-temperature freezer installed in hospitals, blood stations, diseases control & prevention centers, research institutions, bioscience laboratories and medical laboratories. It is suitable for storing a wide variety of biological products including viruses, bacteria, red blood cells, white blood cells, skin, bone and semen as well as ocean-going supplies and electronic devices. It can also provide a low-temperature environment for testing of special materials.

The secondary application is for the storage of fishery products such as tuna, Australian lobster, salmon, South American shrimps, Argentina red shrimp, top-quality beef, kanpachi, octopus, yellowtail, bonito fish,grouper, and fugu rubripes. This is a requirement for fishery products for human consumption and hence these freezers are popular among professional oceanic fisherman, seafood distributors, speciality seafood stores and sushi restaurants and commercial food manufacturers.



DW-60W258



German Made Energy Efficient Compressor



Digital Temperature Control display



Dual-seal Design



Efficient and Reliable Fan



Quickly freeze sea food products to retain their original taste, structure and freshness.



Low noise output, noise cancelling technology yields a smoother operation and a sound level of less than 43dB(A).



Multiple alarm system includes temperature alarm, and sensor error alarm.



HC refrigerant system is optimized to improve refrigeration efficiency by 30 %, and save energy by about 50%.

Single compressor auto cascade refrigeration system provides high efficient cooling power. 100m Insulation ensure optimal thermal protection and energy efficiency.



Dual seal design retains cold and reduces condensation.



304 stainless steel is suitable for both laboratory and is certified food safe for commercial kitchen environments.

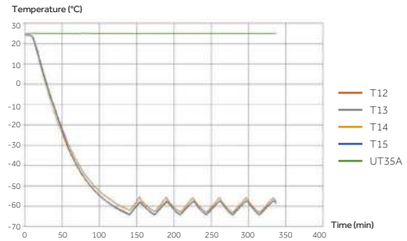


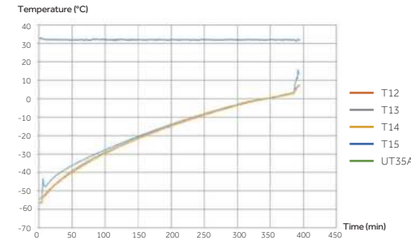
Key lock product protection and lockable casters for ease of moving and safe installation.



An easy to use, waterproof digital controller

Temperature Curve





Specifications

Model			DW-60W138	DW-60W258	DW-60W388
Technical Data	Cabinet Type		Chest	Chest	Chest
	Climate Class		N	N	N
	Cooling Type		Direct Cooling	Direct Cooling	Direct Cooling
	Refrigerant		HC	HC	HC
	Sound Level ((dB(A))		43	43	43
Performance	Cooling Performance (°C)		-60	-60	-60
	Temperature Range (°C)		-30~-60	-30~-60	-30~-60
Control	Controller		Microprocessor	Microprocessor	Microprocessor
	Display		LED	LED	LED
Electrical Data	Power Supply (V/Hz)		220~240/50	220~240/50	220~240/50
	Power (W)		370	410	420
	Electrical Current (A)		4.5	5.5	6.5
Dimensions	Capacity (L/Cu.Ft)		138/4.9	258/9.1	388/13.7
	Net/Gross Weight (approx)	kg	62/75	88/108	105/130
		lbs	137/165	194/238	232/287
	Interior Dimensions (W*D*H)	mm	580*445*620	1000*445*620	1450*445*620
		in	22.8*17.5*24.4	39.4*17.5*24.4	57.1*17.5*24.4
	Exterior Dimensions (W*D*H)	mm	790*770*950	1210*770*950	1655*770*950
		in	31.1*30.3*37.4	47.6*30.3*37.4	65.2*30.3*37.4
	Packing Dimensions (W*D*H)	mm	815*800*990	1255*800*990	1695*800*990
		in	32.1*31.5*39	49.4*31.5*39	66.7*31.5*39
	Container Load (20'/40'/40'H)		28/56/56	22/46/46	14/28/28
Alarms	High/Low Temp		Y	Y	Y
	Sensor Error		Y	Y	Y
Accessories	Caster		Y	Y	Y
	Porthole		Y	Y	Y
Certification	CE		Y	Y	Y

Product appearance and specifications are subject to change without notice

-40°C Biomedical Freezer (Chest)

This product is designed to store vaccines, blood plasma and many other biological materials. Suitable for scientific research institutes, blood stations, hospitals, centers for disease control and prevention, and material science, electronics and chemical laboratories.



DW-40W138J/255J/380J

Product Features

Temperature Control

- Microcomputer control, digital temperature display, display precision is 0.1°C. Adjustable temperature set point -20°C--40°C
- User settable temperature alarms

Safety System

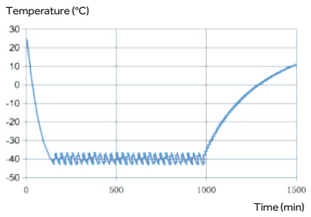
- Multiple alarms: high/low temperature alarm/sensor error alarm/power failure alarm. Optional high ambient warning and remote alarm contacts
- Battery backed-up alarm will alert for more than 24 hours in case of power failure
- Equipped with overcurrent protector for safety

Refrigeration System

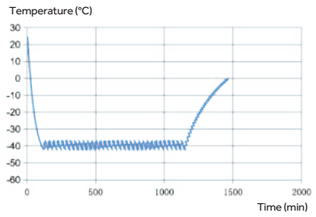
- Durable, market-leading brand compressors and EBM condensing fan ensure a high refrigeration efficiency and maximizes temperature performance
- High density insulation layer delivers superior insulation performance
- Evaporator and condenser design delivers excellent refrigeration efficiencies
- Non-toxic, environmentally-friendly hydrocarbon refrigerants

Temperature Curve

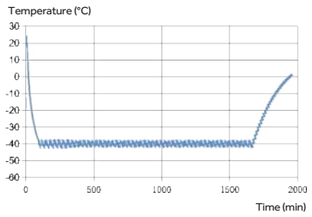
DW-40W138J



DW-40W255J



DW-40W380J



Specifications

Model			DW-40W138J	DW-40W255J	DW-40W380J
Technical Data	Cabinet Type		Chest	Chest	Chest
	Climate Class		SN N	SN N	SN N
	Cooling Type		Direct Cooling	Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual	Manual
	Refrigerant		HC	HC	HC
	Sound Level (dB(A))		42	42	42
Performance	Cooling Performance (°C)		-40	-40	-40
	Temperature Range (°C)		-20~-40	-20~-40	-20~-40
Control	Controller		Microprocessor	Microprocessor	Microprocessor
	Display		LCD	LCD	LCD
Electrical Data	Power Supply (V/Hz)		220~240/50	220~240/50	220~240/50
	Power (W)		260	370	450
Dimensions	Capacity (L/Cu.Ft)		138/3.9	255/9.0	380/13.4
	Net/Gross Weight (approx)	kg	52/65	76/96	90/115
		lbs	114.6/143.3	167.5/211.6	198.4/253.5
	Interior Dimension (W×D×H)	mm	580*445*620	1000*445*620	1450*445*620
		in	22.8*17.5*24.4	39.4*17.5*24.4	57.1*17.5*24.4
	Exterior Dimension (W×D×H)	mm	790*770*950	1210*770*950	1655*770*950
		in	31.1*30.3*37.4	47.6*30.3*37.4	65.2*30.3*37.4
	Packing Dimension (W×D×H)	mm	840*810*1000	1260*810*1000	1710*815*990
		in	33.1*31.9*39.4	49.6*31.9*39.4	67.3*32.1*39.0
	Container Load (20'/40'/40'H)		28/56/56	16/36/54	12/28/28
Alarms	High/Low Temperature		Y	Y	Y
	Remote Alarm		Optional	Optional	Optional
	Power Failure		Y	Y	Y
	Sensor Error		Y	Y	Y
	Low Battery		N	N	N
	High Ambient Temperature		Optional	Optional	Optional
	Dirty Condenser		N	N	N
	Door Ajar		N	N	N
Accessories	Casters		Y(4)	Y(4)	Y(4)
	Leveling Feet		N	N	N
	Porthole		Y, 1 left side, (25mm) Diameter	Y, 1 left side, (25mm) Diameter	Y, 1 left side, (25mm) Diameter
	Inner Doors		N	N	N
	Drawers		N	N	N
	Shelves		N	N	N
	StorageBasket		1	2	6
	USB Interface		Optional	Optional	Optional
	RS485		Optional	Optional	Optional
	NFC		N	N	N
	Temperature Recorder		N	N	N
Others	Certificate		CE	CE	CE

*Haier Biomedical reserves the right to change products and specifications without prior notice.

-40°C Biomedical Freezer (Upright)

Suitable for the storage of plasma, biological material, reagents and other essential items. Used within hospitals, disease prevention, academia and commercial laboratories.



DW-40L298J

Product Features

HC Energy-saving

High efficiency hydrocarbon compressor and refrigeration technology for a lower energy consumption

Superior Uniformity

With the optimized system design, the temperature uniformity of the characteristic point is ± 3°C, and the uniformity of the whole temperature zone is controlled within ± 5°C

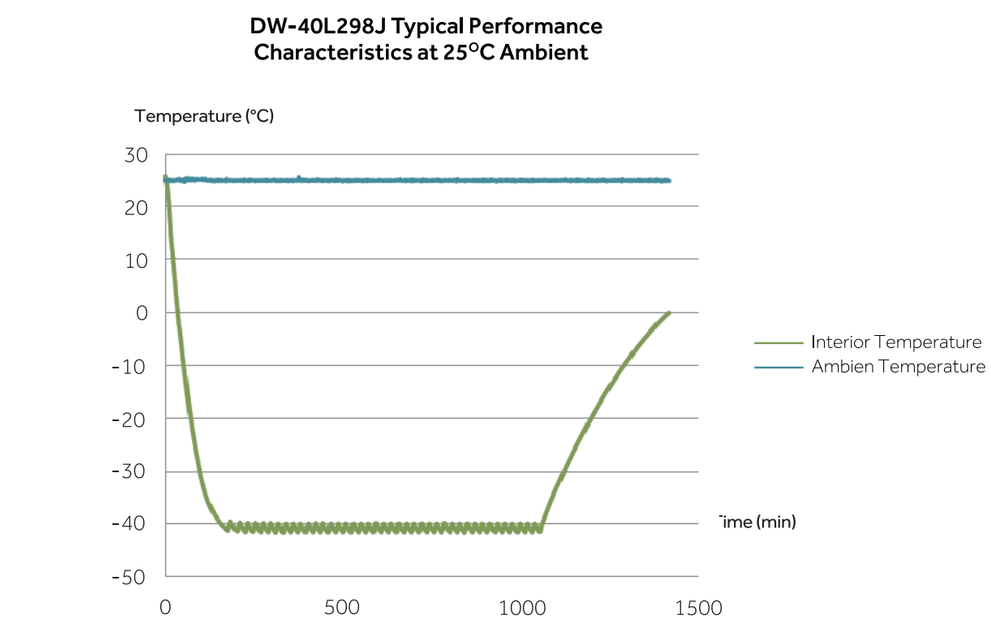
Environmental Protection

Hydrocarbon refrigerant, LBA foam polyurethane insulation layer

Adjustable Shelves

Built-in evaporator and adjustable shelves provides large available interior space. Users can store items of different sizes as needed

Temperature Curve



-40°C Biomedical Freezer (Upright)

Model			DW-40L92	DW-40L262		DW-40L298J	DW-40L298JA	DW-40L568J
Technical Data	Cabinet Type		Upright	Upright		Upright		Upright
	Climate Class		SN N	SN N		SN N		SN N
	Cooling Type		Direct Cooling	Direct Cooling		Direct Cooling		Direct Cooling
	Defrost Mode		Manual	Manual		Manual		Manual
	Refrigerant		HC	R290	R404a	HC		R290
	Sound Level (dB(A))		29	41	44	40	42	45
Performance	Cooling Performance (℃)		-40	-40		-40		-40
	Temperature Range (℃)		-20~-40	-20~-40		-20~-40		-20~-40
Control	Controller		Microprocessor	Microprocessor		Microprocessor		Microprocessor
	Display		LCD	LCD		LED		LCD
	Power Supply (V/Hz)		220~240/50/60	220~240/50/60	115/60	220~240/50	208~230/60	220~240/50
Electrical Data	Power (W)		340	310	600	350	270	340
	Capacity (L/Cu.Ft)		92/3.3	262/9.3		298/10.5		568/20.1
Dimensions	Net/Gross Weight (approx)	kg	46/51	88/93		119/147		190/215
		lbs	101.4/112.4	194.0/205.0		262.3/324.1		418.9/474
	Interior Dimension (W×D×H)	mm	435*410*635	480*465*1430		541*443*1218		610*755*1260
		in	17.1*16.1*25.0	18.9*18.3*56.3		21.3*17.4*48.0		24/29.7/49.6
	Exterior Dimension (W×D×H)	mm	640*610*810	700*705*1665		770*710*1828		848*951*1780
		in	25.2*24.0*31.9	27.6*27.8*65.6		30.3*28.0*72.0		33.4/37.4/70.1
	Packing Dimension (W×D×H)	mm	660*700*910	775*760*1880		840*770*2000		910*1040*1930
		in	26.0*27.6*35.8	30.5*29.9*74.0		33.0*30.3*78.7		35.8*40.9*76.0
	Container Load (20'/40'/40'H)		48/108/108	21/45/45		21/42/42		10/22/22
Alarms	High/Low Temperature		Y	Y		Y		Y
	Remote Alarm		Y	Y		Y		Y
	Power Failure		Y	Y		Y		Y
	Sensor Error		Y	Y		Y		Y
	Low Battery		N	N		Y		N
	High Ambient Temperature		N	Y		Y		Y
	Dirty Condenser		N	N		N		N
	Door Ajar		Y	Y		Y		Y
Accessories	Casters		Y(4)	Y(4)		Y(4)		Y(4)
	Leveling Feet		Y(2)	Y(2)		Y(2)		Y(2)
	Porthole		Y, 1 Left Side, (25mm)Diameter	Y, 1 Left Side, (25mm)Diameter		Y, 1 Left Side, 1 Right Side, (25mm)Diameter		Y, 2 Rears, (25mm)Diameter
	Inner Doors		N	N		2		2
	Drawers		3- Plastic Drawers	7- Plastic Drawers		6- Plastic Drawers, Optional		16- Plastic Drawers, Optional
	Shelves		N	N		3- Adjustable Wire Shelves		3- Adjustable Wire Shelves
	Shelf Dimensions (W×D)(mm)		N	N		518*373		569*665
	Max. Load per Shelf (kg)		N	N		20		38
	USB Interface		Optional	Optional		Optional		Optional
	RS485		Optional	Optional		Optional		Optional
	NFC		N	N		N		N
	Temperature Recorder		N	N		Optional		Optional
Others	Certificate		CE	CE	/	CE	CE	CE

*Haier Biomedical reserves the right to change products and specifications without prior notice.

-40°C Biomedical Freezer (Double Doors Type)

Suitable for the storage of plasma, biological material, reagents and other essential items. Used within hospitals, disease prevention, academia and commercial laboratories.



DW-40L418D/528D

Product Features

HC Energy-saving

High efficiency hydrocarbon compressor and refrigeration technology for a lower energy consumption

Superior Uniformity

With the optimized system design, the temperature uniformity of the characteristic point is ± 3°C, and the uniformity of the whole temperature zone is controlled within ± 5°C

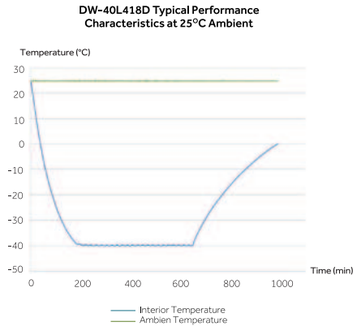
Environmental Protection

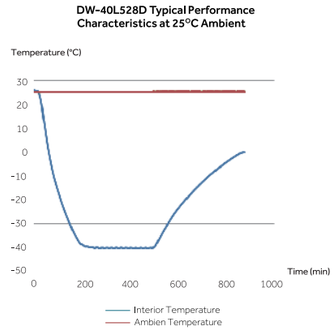
Hydrocarbon refrigerant, LBA foam polyurethane insulation layer

Adjustable Shelves

Built-in evaporator and adjustable shelves provides large available interior space. Users can store items of different sizes as needed

Temperature Curve





Specifications

	Model		DW-40L418D	DW-40L528D	DW-40L528DA
Technical Data	Cabinet Type		Upright (Double Door)	Upright (Double Door)	
	Climate Class		SN N	SN N	
	Cooling Type		Direct Cooling	Direct Cooling	
	Defrost Mode		Manual	Manual	
	Refrigerant		HC	HC	
	Sound Level (dB(A))		40	39	42
Performance	Cooling Performance (°C)		-40	-40	
	Temperature Range (°C)		-20~-40	-20~-40	
Control	Controller		Microprocessor	Microprocessor	
	Display		LED	LED	
	Power Supply (V/Hz)		220~240/50	220~240/50	208~230/60
Electrical Data	Power (W)		370	375	280
	Capacity (L/Cu.Ft)		418/14.8	531/18.8	
Dimensions	Net/Gross Weight (approx)	kg	141/169	147/178	
		lbs	310.8/372.6	324.1/392.4	
	Interior Dimension (W×D×H)	mm	554*620*1230	704*620*1230	
		in	21.8*24.4*48.4	27.7*24.4*48.4	
	Exterior Dimension (W×D×H)	mm	790*845*1878	940*845*1878	
		in	31.1*33.3*73.9	37.0*33.3*73.9	
	Packing Dimension (W×D×H)	mm	860*930*2040	1005*940*2040	
		in	33.9*36.6*80.3	39.6*37.0*80.3	
	Container Load (20'/40'/40'H)		12/24/26	10/22/24	
Alarms	High/Low Temperature		Y	Y	
	Remote Alarm		Y	Y	
	Power Failure		Y	Y	
	Sensor Error		Y	Y	
	Low Battery		Y	Y	
	High Ambient Temperature		Y	Y	
	Dirty Condenser		N	N	
	Door Ajar		Y	Y	
Accessories	Casters		Y(4)	Y(4)	
	Leveling Feet		Y(2)	Y(2)	
	Porthole		Y, 1 Left Side, 1 Right Side, (25mm)Diameter	Y, 1 Left Side, 1 Right Side, (25mm)Diameter	
	Inner Doors		N	N	
	Drawers		12- Plastic Drawers, Optional	10- Plastic Drawers, Optional	
	Shelves		3- Adjustable Wire Shelves	3- Adjustable Wire Shelves	
	Shelf Dimensions (W×D)(mm)		530*528	680*537	
	Max. Load per Shelf (kg)		28	37	
	USB Interface		Optional	Optional	
	RS485		Optional	Optional	
	NFC		N	N	
	Temperature Recorder		Optional	Optional	
Others	Certificate		CE	CE	CE

*Haier Biomedical reserves the right to change products and specifications without prior notice.

-40°C Smart Frequency Conversion Biomedical Freezer



DW-40L818BP

Product Features

- **High-efficiency and energy-saving compressor and system**
  Optimized refrigeration system with a high efficiency inverter compressor to reduce energy consumption
- **Green and environmentally friendly**
  Hydrocarbon refrigerant, energy saving and environmental protection, built with Urethane foam insulation complies with European ROHS regulation
- **Superior temperature uniformity in a large storage space**
  Built-in evaporator design, and the shelf height can be adjusted according to the size of the stored articles, so as to realize the efficient use of large space in the cabinet.
  The temperature uniformity is ±3°C with the setting temperature of -40°C.
- **Low sound level**
  Noise level less than 45 dB, providing a more comfortable environment

Ergonomic Design

Microprocessor-controlled system
Microprocessor control, with temperature display precision at 0.1°C. Internal temperature is adjustable from -20°C to -40°C.

Multiple alarm functions
Including high/ low temperature, sensor error, power failure, low battery, high ambient, and door ajar alarms. Alarm mode is sound and flash. And the remote alarm interface is available

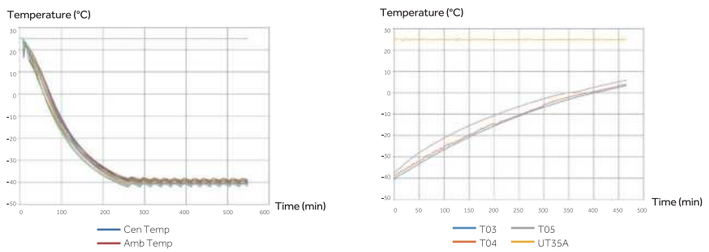
Configuration
Standard: RS485 interface
Optional: Temperature recorder , USB interface, 10-inch touch screen Stainless steel shelves, Blood basket,Plastic blood bag drawers

Safe and secure
Equipped with key lock, padlock, optional electronic lock, providing multiple safeguards for sample safety

Porthole
Two portholes as standard, allows for independent testing of cabinet temperature

Temperature Curve

DW-40L818BP



-40°C Biomedical Freezer

Application Range

Used in the blood banks, hospitals, disease control centers, research institutes, electronic, chemical and other industries, cryopreservation of plasma, biologics and other products, and cold tests for components and materials.

Product Features

High-efficiency and Energy-saving Compressor and System
Optimized refrigeration system with a high efficiency inverter compressor to reduce energy consumption.

Green and Environmental Friendly
Hydrocarbon refrigerant, energy saving and environmental protection, built with urethane foam insulation complies with European ROHS regulation.

Low Sound Level
Noise level less than 42dB, providing a more comfortable environment.

Superior Temperature Uniformity
The temperature uniformity is ±3 ° C with the setting temperature of -40°C.

IntelligentControl
10-inch high-performance touch screen,sensitive touch operation. Users can check the real-time operating status

Ergonomic Design

Microprocessor-controlled System
Microprocessor control, with temperature display precision at 0.1° C. Internal temperature is adjustable from -20°C to -40°C.

Multiple Alarm Functions
Including high/ low temperature, sensor error, power failure, low battery, high ambient, and door ajar alarms. Alarm mode is sound and flash. And the remote alarm interface is available.

Super-large Capacity
Large capacity (700 2-inch box) to accommodate the multiple storage needs.

Configuration
Standard: 10-inch touch screen, RS485 interface , 2 coated steel wired shelves.
Optional: Temperature recorder, Printer, USB interface, NCF, IoT module, Stainless steel shelves, Plastic blood bag drawers

Safe and Secure
Equipped with key lock, padlock, optional electronic lock, providing multiple safeguards for sample safety.

-40°C Biomedical Freezer

Product Parts



Document holding compartment for storing size A4 paper and pens

10-inchtouchscreen

NFC clocking-in function (optional)

Optional USB port allows users to download temperature data saved up to 10 years for compliance and auditing purposes

Casters and leveling legs for ease of maneuvering and positioning

DW-40L959BPT



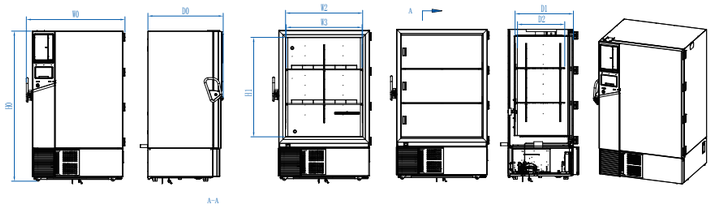
Shelf height can be adjusted according to the size of the stored articles, so as to realize the efficient use of large space in the cabinet (SUS304 stainless shelves as optional)

Pressure equalization port for easy door opening

Ergonomic handle design: easy access to storage space, built in lock and padlock features

Two standard portholes allow ease of temperature testing

Product Dimension Drawings



Ramark
W0=Total Width
W1=Freezer Width
W2=Inner Cabinet Width
W3=Inner Cabinet Shelf Width
D0=Total Depth
D1=Inner Cabinet Depth
D2=Inner Cabinet Shelf Depth
H0=Total Height
H1=Inner Cabinet Height

Model \ Code	W0	W1	W2	W3	D0	D1	D2	H0	H1
DW-40L959BPT	1296mm	1196mm	1016mm	1008mm	998mm	716mm	641mm	1980mm	1310mm

Specifications

	Model		DW-40L818BPT	DW-40L818BP	DW-40L959BPT	DW-40L959BP
Technical Data	Cabinet Type		Upright	Upright	Upright	Upright
	Climate Class		SN N	SN N	SN N	SN N
	Cooling Type		Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual	Manual	Manual
	Refrigerant		HC	HC	HC	HC
	Sound Level (dB(A))		44	44	42	42
Performance	Cooling Performance (°C)		-40	-40	-40	-40
	Temperature Range (°C)		-20~-40	-20~-40	-20~-40	-20~-40
Control	Controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display		Touch Screen LCD	LED	Touch Screen LCD	LED
	Power Supply (V/Hz)		100-230/50/60	100-230/50/60	100-230/50/60	100-230/50/60
Electrical Data	Power (W)		795	795	800	800
	Capacity (L/Cu.Ft)		818/28.9	818/28.9	959/33.9	959/33.9
Dimensions	Net/Gross Weight (approx)	kg	210/240	251/287	350/400	350/400
		lbs	463.0/529.1	553.4/632.7	771.6/881.8	771.6/881.8
	Interior Dimension (W×D×H)	mm	750*755*1460	750*755*1460	1016*716*1310	1016*716*1310
		in	29.5/29.7/57.5	29.5/29.7/57.5	40.0*28.2*51.6	40.0*28.2*51.6
	Exterior Dimension (W×D×H)	mm	988*951*1980	988*951*1980	1296*998*1980	1296*998*1980
		in	38.9/37.4/78.0	38.9/37.4/78.0	51.0*39.3*78.0	51.0*39.3*78.0
	Packing Dimension (W×D×H)	mm	1040*1035*2110	1040*1035*2110	1358*1098*2127	1358*1098*2127
		in	40.9*40.7*83.1	40.9*40.7*83.1	53.5*43.2*83.7	53.5*43.2*83.7
	Container Load (20'/40'/40'H)		10/22/22	10/22/22	8/16/16	8/16/16
Alarms	High/Low Temperature		Y	Y	Y	Y
	Remote Alarm		Y	Y	Y	Y
	Power Failure		Y	Y	Y	Y
	Sensor Error		Y	Y	Y	Y
	Low Battery		Y	Y	Y	Y
	High Ambient Temperature		Y	Y	Y	Y
	Dirty Condenser		N	N	N	N
	Door Ajar		Y	Y	Y	Y
Accessories	Casters		Y(4)	Y(4)	Y(4)	Y(4)
	Leveling Feet		Y(2)	Y(2)	Y(2)	Y(2)
	Porthole		Y, 2 Rears, (25mm)Diameter	Y, 2 Rears, (25mm)Diameter	Y, 2 Rear, (25mm)Diameter	Y, 2 Rear, (25mm)Diameter
	Inner Doors		3	3	3	3
	Drawers		30- Plastic Blood Bag Drawers, Optional	30- Plastic Blood Bag Drawers, Optional	21- Plastic Blood Bag Drawers, Optional	21- Plastic Blood Bag Drawers, Optional
	Shelves		5- Adjustable Wire Shelves	5- Adjustable Wire Shelves	2- Adjustable Wire Shelves	2- Adjustable Wire Shelves
	Shelf Dimensions (W×D)(mm)		706*665	706*665	1000*641	1000*641
	Max. Load per Shelf (kg)		50	50	65	65
	USB Interface		Optional	Optional	Optional	Optional
	RS485		Y	Y	Y	Y
	NFC		Optional	Optional	Optional	Optional
	Temperature Recorder		Optional	Optional	Optional	Optional
Others	Certificate		CE	CE	CE	CE

*Haier Biomedical reserves the right to change products and specifications without prior notice.

-30°C Biomedical Freezer (Forced Air Cooling)

Typical Installation and Application

Large capacity, double door biomedical freezer, designed and manufactured for the low temperature storage of plasma, biological products and other items.



DW-30L1280F

Product Parts

Microcomputer control, LED digital temperature display with inside temperature accuracy of 0.1°C

Optional : LCD Touchscreen



Supersized double outer doors, 70mm insulation layer

Safe lock

Electronic mortise lock design, with NFC clocking-in function (fingerprint optional)



Low noise

Casters and foots

4 omnidirectional casters + 2 level legs, easy to move, lock and level



Bottom strainer drawable design

Easy to clean



Optimized system

Ensures fast cool down, reaches -30°C within 3 hours

Standard USB port

Capable of storing more than 15 years of data

-30°C Biomedical Freezer (Forced Air Cooling)

Key Features

Intelligent Defrosting: Prolongs the Defrosting Cycle, Safeguarding the Stability of the Storage Temperature

Compared with traditional timed defrosting, the intelligent defrosting technology reduces the defrosting frequency by half, effectively draws down the temperature fluctuation caused by defrosting during the sample storage cycle by intelligently identifying the amount of frost on the evaporator.

Dual Independent Refrigeration Systems: Superior Safety

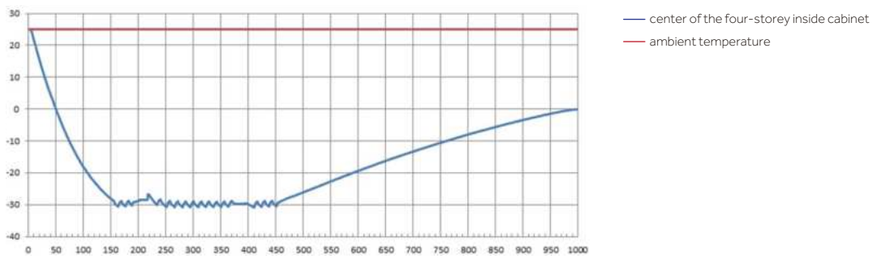
If one system fails, the other one would reach -25°C quickly, which doubles the safety of the sample; With air cooling technology, the inside uniformity can reach ±3°C (±5°C during the defrosting period).

Advanced Defrosting Technology Optimised Safety

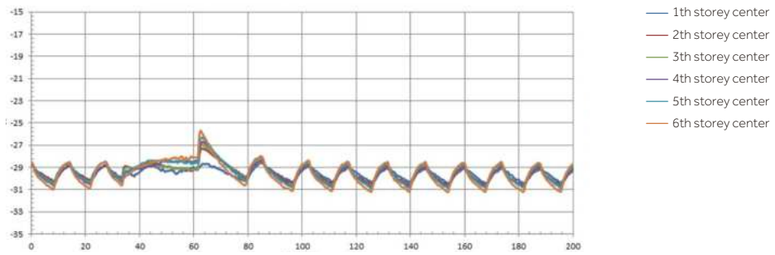
The automatic hot gas defrosting technology eliminates the risk of electrical leakage which can occur with heated wire defrosting techniques.

Green Hydrocarbon Refrigeration

The DW-30L1280F utilises HC refrigeration technology which is energy-efficient and has a zero impact on the ozone layer. The energy consumption of this model is 8kW/24H.



Center Temperature Curve Graph



Defrosting Curve Graph

Application Range

Applied for the storage of critical and temperature sensitive biological samples, laboratory products and medical products. Suitable for blood banks, hospitals, disease control centers, research laboratories.



DW-30L520F

-30°C Biomedical Freezer (Forced Air Cooling)

Product Features

Forced Air and Auto Defrost Design
-30°C storage temperature with automatic defrost cycles guided by time and temperature, ensure maximum temperature stability and minimize energy consumption

Superior Temperature Uniformity
The temperature uniformity is ±3°C with the setting temperature of -30°C

High-efficiency and Energy-saving Compressor and System
High-efficiency hydrocarbon compressor, optimized refrigeration system and low power consumption

Green and Environmentally Friendly
Hydrocarbon refrigerant, energy saving and environmental protection, built with LBA foam insulation, the GWP is close to 0

Microprocessor-controlled System
Microprocessor control, with temperature display precision at 0.1°C. Internal temperature is adjustable from -10°C to-30°C

Configuration
- Standard: 4 layer adjustable shelves
- Optional: 10-inch touch screen, USB interface, NFC, chart recorder, stainless steel self, blood basket

Safe and Secure
Designed with key lock, padlock, optional electronic lock, providing multiple safeguards for sample safety

Multiple Alarm Functions
Including high/low temperature alarm, sensor error alarm, power failure alarm, low battery alarm, door ajar alarm, high ambient temperature alarm, condenser dirty alarm. Alarm mode is sound and flash

Low Noise Design
Noise-reduction features and structure noise reduction design

Exceptional cooling
Air-forced cooling combined with automatic defrost technology for high-performance cooling

Access port
Designed with two standard access ports on the left and right sides of the freezer, convenient for users to conduct independent testing

Adjustable shelves
4 adjustable shelves, (optional: stainless steel shelf, plastic blood bag drawers

Safe and secure
Designed with key lock, padlock, optional electronic lock, providing multiple safeguards for sample safety



Microprocessor temperature control, LED display panel (optional: 10-inch touch screen)
LED displays cabinet temperature with 0.1°C resolution, ambient temperature, and input voltage

Optional : LCD Touchscreen



Feet and casters
4 back-and-forth casters and 2 adjustable feet for easy moving and leveling



-30°C Biomedical Freezer (Forced Air Cooling)

Specifications

Model			DW-30L520F	DW-30L1280F
Technical Data	Cabinet Type		Upright	Upright (Double Door)
	Climate Class		SN N	N
	Cooling Type		Forced Air Cooling	Forced Air Cooling
	Defrost Mode		Automatic Defrost	Automatic Defrost
	Refrigerant		HC	HC
	Sound Level (dB(A))		44 / 45	46
Performance	Cooling Performance (°C)		-30	-30
	Temperature Range (°C)		-10~-30	-10~-30
Control	Controller		Microprocessor	Microprocessor
	Display		LED	LED
	Power Supply (V/Hz)		220~240/50 / 208~230/60	220~240/50
Electrical Data	Power (W)		650 / 495	900
	Capacity (L/Cu.Ft)		520/18.4	1280/45.2
Dimensions	Net/Gross Weight (approx)	kg	210/252	420/480
		lbs	463.0/555.6	925/1057
	Interior Dimension (W×D×H)	mm	610*755*1006	1320*752*1260
		in	24/29.7/39.6	52/29.6/49.6
	Exterior Dimension (W×D×H)	mm	848*1011*1780	1520*1065*1996
		in	33.4/39.8/70.1	59.8/41.9/78.6
	Packing Dimension (W×D×H)	mm	900*1060*1920	1580*1100*2100
		in	35.4*41.7*75.6	62.2*43.3*82.7
	Container Load (20'/40'/40'H)		10/22/22	6/14/14
Alarms	High/Low Temperature		Y	Y
	Remote Alarm		Y	Y
	Power Failure		Y	Y
	Sensor Error		Y	Y
	Low Battery		Y	Y
	High Ambient Temperature		Y	Y
	Dirty Condenser		Y	Y
	Door Ajar		Y	Y
Accessories	Casters		Y(4)	Y(4)
	Leveling Feet		Y(2)	Y(2)
	Porthole		Y, 1 Left Side, 1 Right Side, (25mm)Diameter	Y, 1 Left Side, 1 Right Side, (25mm)Diameter
	Inner Doors		N	N
	Drawers		16- Plastic Blood Bag Drawers, Optional	48- Plastic Blood Bag Drawers, Optional
	Shelves		4- Adjustable Wire Shelves	12- Adjustable Stainless Steel Shelves
	Shelf Dimensions (W×D)(mm)		580*670	569*673
	Max. Load per Shelf (kg)		39	40
	USB Interface		Optional	Y
	RS485		Y	Y
	NFC		Optional	Y
	Temperature Recorder		Optional	N
Others	Certificate		CE /	CE

*Haier Biomedical reserves the right to change products and specifications without prior notice.

-30°C Smart Frequency Conversion Biomedical Freezer

Typical Installation and Application

Suitable for sample storage within blood banks, hospitals, disease control centres, research institutes, electronic, chemical and other industries, cryopreservation of plasma, biologics and other products, also suitable for cold tests for components and materials.



DW-30L818BP

Key Features

Energy-efficient Variable Frequency Inverter Technology
Optimized refrigeration system with a high-efficiency inverter compressor to reduce energy consumption.

Large Capacity Storage with Excellent Temperature Uniformity
The unit offers a large storage space with adjustable shelves, the built-evaporator ensures quick temperature pull down times and excellent temperature uniformity of ±3°C.

Low Noise
Sound reduction design lowers the sound level to 37dB(A) at 220V/50Hz.

Environment Friendly
1) HC refrigeration system contains zero chlorine and fluorine, which is better for the environment.
2) Urethane foam insulation complies with European ROHS regulation.

-30°C Smart Frequency Conversion Biomedical Freezer

Product Advantages



Microprocessor Control System

- Microprocessor-based temperature control.
- Large LED displays cabinet temperature with 0.1 °C resolution with adjustable temperature setting from -10 °C to -30 °C.
- Cabinet temperature, ambient temperature and voltage are shown on the panel.
- Alarm conditions include high and low temperature, sensor error, power failure, low battery, door ajar and high ambient.
- Alarm modes are audible and flashing lights. Remote alarm terminals are available.
- Battery supports display and alarm system for forty-eight hours after power outage.
- Optional features are IoT module, USB port, temperature recorder and NFC swipe card functions.

Insulation

- 70 mm thick insulation.
- Inner doors for better thermal efficiency.

Porthole

Two standard portholes allow ease of temperature testing.

Security Lock

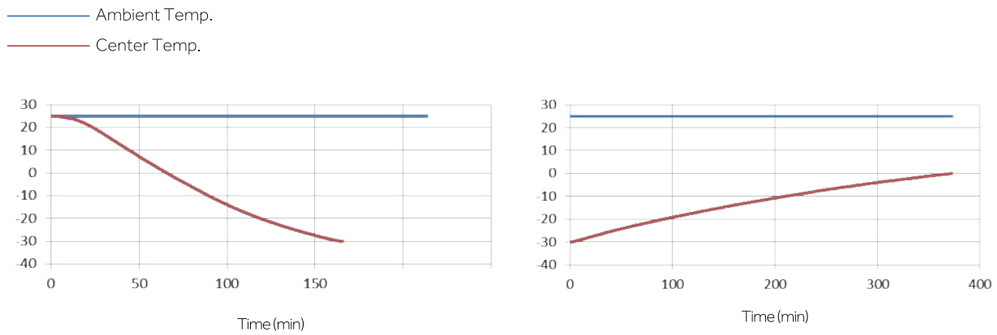
Lock is standard. Magnetic lock is optional for added protection and security

Temperature Recorder

Optional temperature recorder for temperature recording and compliance.



Typical Performance Characteristics at 25°C ambient



-30°C Biomedical Freezer (Direct Cooling)

Typical Installation and Application

For use in blood banks, hospitals, research institutions, electronics, chemical and other industries, for the preservation of plasma and biological products and cryogenic test of components and materials.



DW-30L818

Key Features

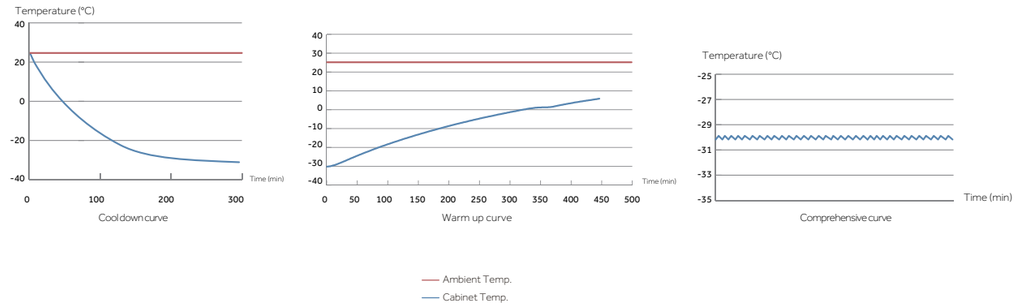
Energy Efficient Hydrocarbon (HC) Refrigeration System
Optimized refrigeration system, utilising high-efficiency HC compressor significantly reduces energy consumption.

Greener By Design
HC refrigerants are natural non-toxic and more environmentally friendly than HFC refrigerants. This alongside the HC compressor technology and LBA foamed polyurethane insulation layer, make this unit greener and in-line with European ROHS directives and environmental protection guidelines.

Large Capacity, Superior Uniformity
Built-in evaporator for faster cooling speed and uniform temperature throughout the cabinet, ±3°C. Large internal space with adjustable shelves for flexible configuration.

Low Noise
Optimized system and cabinet design ensures low noise emissions, less than 44dB.

Typical Performance Characteristics at 25°C ambient



-30°C Biomedical Freezer (Direct Cooling)

Product Advantages

Ergonomic Handle Design: easy access to storage space, built in lock and padlock features.

Easy to clean and Corrosion Resistant
Electric zinc plate powder sprayed internal liner and large round corner design and coated steel plate exterior design ensure reliable corrosion prevention which is easy to clean.

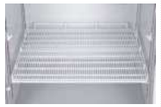


DW-30L818



Double Seal Design Provides better insulation and saves energy.

Inner doors prevent rapid loss of cold air, saving energy and reducing temperature fluctuations.



Flexible Internal Storage
Equipped with 5 plastic coated steel wire shelves with optional stainless steel shelves, which are adjustable to meet the different requirements of users.



Plastic blood bag drawer (optional): 25 blood bags (450ml/bag) can be loaded for one drawer, a totally 750 blood bags for 30 drawers. (Note: The dimension of one blood bag is 125*26*190mm)

4 multi-directional casters and 2 lockable feet make it easy to move, level and lock in place.

Microcomputer electronic thermostat, LCD digital display of inside temperature, with 0.1°C display accuracy.

Specifications

Model			DW-30L818	DW-30L818BP
Technical Data	Cabinet Type		Upright	Upright
	Climate Class		SN N	SN N
	Cooling Type		Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual
	Refrigerant		HC	HC
	Sound Level (dB(A))		44	37
Performance	Cooling Performance (°C)		-30	-30
	Temperature Range (°C)		-10~-30	-10~-30
Control	Controller		Microprocessor	Microprocessor
	Display		LCD	LED
	Power Supply (V/Hz)		220-240/50	100-230/50/60
Electrical Data	Power (W)		380	680
	Capacity (L/Cu.Ft)		818/28.9	818/28.9
Dimensions	Net/Gross Weight (approx)	kg	205/235	251/287
		lbs	451.9/518.1	553.4/632.7
	Interior Dimension (W×D×H)	mm	750*755*1460	750*755*1460
		in	29.5/29.7/57.5	29.5/29.7/57.5
	Exterior Dimension (W×D×H)	mm	988*951*1980	988*951*1980
		in	38.9/37.4/78.0	38.9/37.4/78.0
	Packing Dimension (W×D×H)	mm	1040*1035*2110	1040*1035*2110
		in	40.9*40.7*83.1	40.9*40.7*83.1
	Container Load (20'/40'/40'H)		10/22/22	10/22/22
Alarms	High/Low Temperature		Y	Y
	Remote Alarm		Y	Y
	Power Failure		Y	Y
	Sensor Error		Y	Y
	Low Battery		N	Y
	High Ambient Temperature		Y	Y
	Dirty Condenser		N	N
	Door Ajar		Y	Y
Accessories	Casters		Y(4)	Y(4)
	Leveling Feet		Y(2)	Y(2)
	Porthole		Y, 2 Rears, (25mm)Diameter	Y, 2 Rears, (25mm)Diameter
	Inner Doors		3	3
	Drawers		30- Plastic Blood Bag Drawers, Optional	30- Plastic Blood Bag Drawers, Optional
	Shelves		5- Adjustable Wire Shelves	5- Adjustable Wire Shelves
	Shelf Dimensions (W×D)(mm)		706*665	706*665
	Max. Load per Shelf (kg)		47	50
	USB Interface		Optional	Optional
	RS485		Optional	Y
	NFC		N	Optional
	Temperature Recorder		Optional	Optional
Others	Certificate		CE	CE, UL, ENERGY STAR

BP suffix - Variable frequency invertor compressor
Product appearance and specifications are subject to change without notice

-30°C Biomedical Freezer (Direct Cooling)

Typical Installation and Application

Suitable for blood banks, hospitals, disease control centers, research institutes, electronic, chemical and other industries. Used for the cryopreservation of plasma, biologics and other products, and cold tests for components and materials.



DW-30L298J

Key Features

Adjustable storage shelf height
Built-in evaporator design, and the shelf height can be adjusted according to the size of the stored articles, so as to ensure the efficiency and use of the large space in the cabinet

Multiple alarm functions
High/Low temperature/door ajar/power failure/sensor error/high ambient temperature alarm and also equipped with remote alarm interface, alarm mode is sound and flash

High-efficiency and energy-saving compressor and system
High-efficiency hydrocarbon compressor, optimized refrigeration system and low power consumption

Green and environmental friendly
Hydrocarbon refrigerant, energy saving and environmental protection, built with LBA foam insulation, complies with European RoHS Directive

Superior temperature uniformity

Ergonomic Design

Multiple alarms
Alarm functions include high, low temperature, sensor error, power failure, high ambient, and door ajar
Alarm mode is sound and flash

Configuration
Standard: 3 coated steel wired shelves, remote alarm interface
Optional: stainless steel partition board, drawer, temperature recorder, RS485 or USB (one out of two)

Low noise design
Noise-reduction features and structure noise reduction design

Microprocessor-controlled system
Microprocessor control, with temperature display precision at 0.1°C. Internal temperature is adjustable from -10°C to -30°C

Access ports
Two access ports as standard, allows for independent testing of cabinet temperature

Safe and secure
Equipped with key lock, padlock providing multiple safeguards for sample safety

Microprocessor temperature control, LCD temperature display, with display accuracy being 0.1°C

Porthole
Equipped with two standard portholes on the left and right sides of the freezer, convenient for users to conduct independent testing

Feet and Casters
4 back-and-forth casters and 2 adjustable feet for easy moving and leveling



Adjustable Shelves
The adjustable shelves ensure the maximum usage efficiency of the internal space, and users can store items of different sizes as needed

Improved Handle Design
Lockable handle with unique key prevents other Haier freezer owner's access to your precious samples, also comes with space for a padlock for that extra security

-30°C Biomedical Freezer (Direct Cooling)

Specifications

Model			DW-30L298J
Technical Data	Cabinet Type		Upright
	Climate Class		SN N
	Cooling Type		Direct Cooling
	Defrost Mode		Manual
	Refrigerant		HC
	Sound Level (dB(A))		41
Performance	Cooling Performance (℃)		-30
	Temperature Range (℃)		-10--30
Control	Controller		Microprocessor
	Display		LCD
Electrical Data	Power Supply (V/Hz)		220-240/50
	Power (W)		330
Dimensions	Capacity (L/Cu.Ft)		298/10.5
	Net/Gross Weight (approx)	kg	125/140
		lbs	275.6/308.6
	Interior Dimension (W×D×H)	mm	541*443*1218
		in	21.3*17.4*48.0
	Exterior Dimension (W×D×H)	mm	770*710*1828
		in	30.3*28.0*72.0
	Packing Dimension (W×D×H)	mm	840*770*2000
		in	33.1*30.3*78.7
	Container Load (20'/40'/40'H)		21/42/42
Alarms	High/Low Temperature		Y
	Remote Alarm		Y
	Power Failure		Y
	Sensor Error		Y
	Low Battery		N
	High Ambient Temperature		Y
	Dirty Condenser		N
	Door Ajar		Y
Accessories	Casters		Y(4)
	Leveling Feet		Y(2)
	Porthole		Y, 1 Left Side, 1 Right Side, (25mm)Diameter
	Inner Doors		N
	Drawers		6- Plastic Drawers, Optional
	Shelves		3- Adjustable Wire Shelves
	Shelf Dimensions (W×D)(mm)		518*373
	Max. Load per Shelf (kg)		20
	USB Interface		Optional
	RS485		Optional
	NFC		N
	Temperature Recorder		Optional
Others	Certificate		CE

*Haier Biomedical reserves the right to change products and specifications without prior notice.

Typical Installation and Application

Suitable for blood banks, hospitals, disease control centers, research institutes, electronic, chemical and other industries. Used for the cryopreservation of plasma, biologics and other products



DW-30L528D

Key Features

High-efficiency and energy-saving compressor and system

High-efficiency hydrocarbon compressor, optimized refrigeration system and low power consumption

Adjustable storage shelf height

Built-in evaporator design, and the shelf height can be adjusted according to the size of the stored articles, so as to realize the efficient use of large space in the cabinet

Green and environmental friendly

Hydrocarbon refrigerant, energy saving and environmental protection, built with LBA foam insulation, complies with European RoHS Directive

Multiple alarm functions

High/Low temperature/door ajar/power failure/sensor error/high ambient temperature alarm and also equipped with remote alarm interface, alarm mode is sound and flash

Superior temperature uniformity

The temperature uniformity is ±3°C with the setting temperature of -30°C

-30°C Biomedical Freezer (Direct Cooling)

Ergonomic Design

Microprocessor-controlled system

Microprocessor control, with temperature display precision at 0.1°C. Internal temperature is adjustable from -10°C to -30°C. Alarm functions include high, low temperature, sensor error, power failure, high ambient, and door ajar. Alarm mode is sound and flash

Configuration

Standard: 3 coated steel wired shelves, remote alarm interface
Optional: stainless steel shelves, plastic blood bag drawer, plastic drawer, temperature recorder, RS485 or USB (one out of two)

Low noise design

Noise-reduction features and structure noise reduction design

Safe and secure

Equipped with key lock, padlock providing multiple safeguards for sample safety

Porthole

Two portholes as standard, allows for independent testing of cabinet temperature



DW-30L528D

Specifications

Model			DW-30L528D	
Technical Data	Cabinet Type		Upright (Double Door)	
	Climate Class		SN N	
	Cooling Type		Direct Cooling	
	Defrost Mode		Manual	
	Refrigerant		HC	
	Sound Level (dB(A))		39	43
Performance	Cooling Performance (°C)		-30	
	Temperature Range (°C)		-10~-30	
Control	Controller		Microprocessor	
	Display		LCD	
Electrical Data	Power Supply (V/Hz)		220~240/50	115/60
	Power (W)		460	420
Dimensions	Capacity (L/Cu.Ft)		531/18.8	
	Net/Gross Weight (approx)	kg	180/205	
		lbs	396.8/451.9	
	Interior Dimension (W×D×H)	mm	704*620*1230	
		in	27.7*24.4*48.4	
	Exterior Dimension (W×D×H)	mm	940*845*1878	
		in	37.0*33.3*73.9	
	Packing Dimension (W×D×H)	mm	1005*940*2040	
		in	39.6*37.0*80.3	
	Container Load (20'/40'/40'H)		10/22/24	
Alarms	High/Low Temperature		Y	
	Remote Alarm		Y	
	Power Failure		Y	
	Sensor Error		Y	
	Low Battery		N	
	High Ambient Temperature		Y	
	Dirty Condenser		N	
	Door Ajar		Y	
Accessories	Casters		Y(4)	
	Leveling Feet		Y(2)	
	Porthole		Y, 1 Left Side, 1 Right Side, (25mm)Diameter	
	Inner Doors		N	
	Drawers		10- Plastic Drawers, Optional	
	Shelves		3- Adjustable Wire Shelves	
	Shelf Dimensions (W×D)(mm)		680*537	
	Max. Load per Shelf (kg)		37	
	USB Interface		Optional	
	RS485		Optional	
	NFC		N	
	Temperature Recorder		Optional	
Others	Certificate		CE	UL

*Haier Biomedical reserves the right to change products and specifications without prior notice.

-30°C Biomedical Freezer

Application Range

Used in the blood banks, hospitals, disease control centers, research institutes, electronic, chemical and other industries, cryopreservation of plasma, biologics and other products, and cold tests for components and materials.



DW-30L698

Product Advantages

Superior Temperature Uniformity

The temperature uniformity is ±3° C with the setting temperature of -30°C

Green and Environmental Friendly

Hydrocarbon refrigerant, energy saving and environmental protection, built with LBA foam insulation, complies with European RoHS requirements

Microprocessor Controller

Microprocessor control, with temperature display precision at 0.1 ° C . Internal temperature is adjustable from -10°C to -30°C with 1°C control accuracy

High-efficiency and Energy-saving Compressor and System

High-efficiency hydrocarbon compressor, optimized refrigeration system and low power consumption

Multiple Alarm Functions

High/Low temperature/door ajar/power failure/sensor error/high ambient temperature alarm and also equipped with remote alarm interface, alarm mode is sound and flash

Compact Footprint

Combine a small footprint with large storage capacity to provide fexible, reliable and convenient sample storage

Optimal Design

New Generation Appearance

A redesigned control panel features a revamped layout and updated icons, significantly improving user experience

Low Noise Design

Noise-reduction features and structure noise reduction design

Safe and Secure

Upgraded handle design for one-handed use, with a lockable feature for added security. Can also be paired with a padlock for multi-user convenience

Porthole

Two portholes as standard, allows for independent testing of cabinet temperature

Adjustable Storage Shelf Height

Built-in evaporator design, and the shelf height can be adjusted according to the size of the stored articles, so as to ensure the efficient use of large space in the cabinet

Configuration

Standard: 5 coated steel wired shelves, remote alarm interface, USB (115V60Hz)
Optional: stainless steel shelves, blood basket, drawer, temperature recorder,RS485,USB(220V50Hz)

-30°C Biomedical Freezer

Product Parts



Newly designed control panel with rearranged layout and icons greatly enhances usability

4 universal casters and 2 levelling feet allows for easy movement and locks safely into place

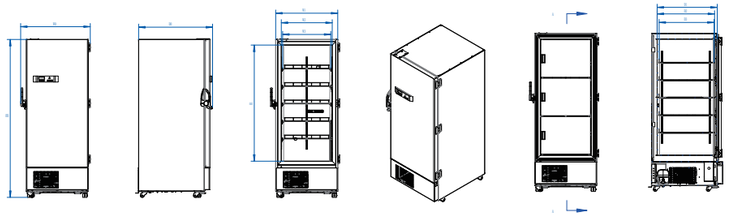
5 adjustable shelves, optional stainless steel shelf

Improved handle design for one-handed operation Lockable handle with mechanical lock, and also can be equipped with padlock, convenient for multiple users

3 inner door design prevents rapid loss of cold when opening the door, saving energy and ensuring smaller temperature fluctuations in the freezer

DW-30L698

Product Dimensions



Ramark
W0=Total Width
W1=Freezer Width
W2=Inner Cabinet Width
W3=Inner Cabinet Shelf Width
D0=Total Depth
D1=Inner Cabinet Width
D2=Inner Cabinet Shelf Width
H0=Total Height
H1=Inner Cabinet Height

CODE / MODEL	W0	W1	W2	W3	D0	D1	D2	D3	H0	H1
DW-30L698	874mm	780mm	640mm	604mm	930mm	755mm	722mm	691mm	1984mm	1458mm

Specifications



Model			DW-30L698	
Technical Data	Cabinet Type		Upright	
	Climate Class		SN N	
	Cooling Type		Direct Cooling	
	Defrost Mode		Manual	
	Refrigerant		HC	
	Sound Level (dB(A))		41	43
Performance	Cooling Performance (°C)		-30	
	Temperature Range (°C)		-10~-30	
Control	Controller		Microprocessor	
	Display		LED	
Electrical Data	Power Supply (V/Hz)		220~240/50	115/60
	Power (W)		400	500
Dimensions	Capacity (L/Cu.Ft)		698/24.7	
	Net/Gross Weight (approx)	kg	180/225	
		lbs	396.8/496	
	Interior Dimension (W*D*H)	mm	640*755*1458	
		in	25.2*29.7*57.4	
	Exterior Dimension (W*D×H)	mm	874*930*1984	
		in	34.4*36.6*78.1	
	Packing Dimension (W*D*H)	mm	950*1060*2110	
		in	37.4*41.7*83.0	
	Container Load (20'/40'/40'H)		10/22/22	
Alarms	High/Low Temperature		Y	
	Remote Alarm		Y	
	Power Failure		Y	
	Sensor Error		Y	
	Low Battery		Y	
	High Ambient Temperature		Y	
	Dirty Condenser		N	
	Door Ajar		Y	
Accessories	Casters		Y(4)	
	Leveling Feet		Y(2)	
	Porthole		, 2 Rears, (25mm)Diameter	
	Inner Doors		3	
	Drawers		24- Plastic Blood Bag Drawers, Optional	
	Shelves		5- Adjustable Wire Shelves	
	Shelf Dimensions (W×D)(mm)		610*655	
	Max. Load per Shelf (kg)		40	
	USB Interface		Optional	Y
	RS485		Optional	
	NFC		N	
	Temperature Recorder		Optional	
Others	Certificate		CE	UL, ENERGY STAR

*Haier Biomedical reserves the right to change products and specifications without prior notice.

-25°C Biomedical Freezer

The Haier Biomedical -25°C biomedical freezer maxmize storage space. Integrated cold shelf and evaporator design provides maximum refrigeration efficiency.



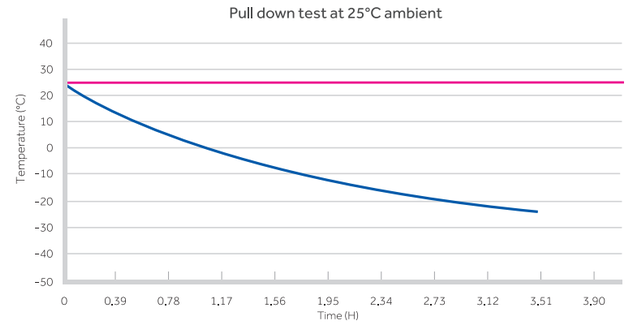
DW-25L92/262

Key Features

- Chemically stable, HC commercially available and environmently safe refrigerant
- High-density foam insulation for rigidity and stable storage temperature
- Microprocessor control, digital display, adjustable temperature range: -10°C~-25°C
- LCD digital display for clear observation
- Wide voltage tolerance design with applicable voltage range of 187~242 V/AC

Safety

- Multiple malfunction alarms including high low temperature, sensor error
- Two types of alarm indications: audible buzzing and visible flashing light
- Door lock for storage safety
- Storage drawer



Specifications

Model			DW-25L92		DW-25L262	
Technical Data	Cabinet Type		Upright		Upright	
	Climate Class		SN N		SN N	
	Cooling Type		Direct Cooling		Direct Cooling	
	Defrost Mode		Manual		Manual	
	Refrigerant		HC		HC	
	Sound Level (dB(A))		27	28	34	
Performance	Cooling Performance (°C)		-25		-25	
	Temperature Range (°C)		-10~-25		-10~-25	
Control	Controller		Microprocessor		Microprocessor	
	Display		LCD		LCD	
Electrical Data	Power Supply (V/Hz)		220~240/50	115/60	220~240/50	115/60
	Power (W)		255	125	255	125
Dimensions	Capacity (L/Cu.Ft)		92/3.2		262/9.3	
	Net/Gross Weight (approx)	kg	46/51		88/93	
		lbs	101.4/112.4		194.0/205.0	
	Interior Dimension (W×D×H)	mm	435*410*635		480*465*1430	
		in	17.1*16.1*25.0		18.9*18.3*56.3	
	Exterior Dimension (W×D×H)	mm	640*610*810		700*705*1665	700*705*1730
		in	25.2*24.0*31.9		27.6*27.8*65.6	27.6*27.8*68.1
	Packing Dimension (W×D×H)	mm	660*700*910		775*760*1880	
		in	26.0*27.6*35.8		30.5*29.9*74.0	
	Container Load (20'/40'/40'H)		48/102/102		21/45/45	
Alarms	High/Low Temperature		Y		Y	
	Remote Alarm		Y		Y	
	Power Failure		Y		Y	
	Sensor Error		Y		Y	
	Low Battery		N		N	
	High Ambient Temperature		Y		Y	
	Dirty Condenser		N		N	
	Door Ajar		Y		Y	
Accessories	Casters		Y(4)		Y(4)	
	Leveling Feet		Y(2)		Y(2)	N
	Porthole		Y, 1 Left Side, (25mm)Diameter		Y, 1 Left Side, (25mm)Diameter	
	Inner Doors		N		N	
	Drawers		3- Plastic Drawers		7- Plastic Drawers	
	Shelves		N		N	
	Shelf Dimensions (W×D)(mm)		N		N	
	Max. Load per Shelf (kg)		N		N	
	USB Interface		Optional		Optional	
	RS485		Optional		Optional	
	NFC		N		N	
	Temperature Recorder		N		N	
Others	Certificate		CE	UL	CE	UL

Product appearance and specifications are subject to change with out notice

Haier Biomedical
Intelligent Protection of Life Science

PRESERVATION

Spark Free Refrigerator/Freezer

Typical Installation

Spark free refrigerators are installed typically in many different laboratories and research facilities to store chemical or experimental reagents that are flammable, explosive, evaporative or corrosive.



HLR-310SF/FL

Product Advantages

ATEX II C-T6 E.U. Explosion Proof Certification

Explosion proof features include antistatic liner, gasket, explosion proof fan motor, over current and voltage protection. ATEX II C-T6 explosion proof certification for Haier's laboratory refrigerator ensures safety in your work place.

3~16°C Setting Temperature Range

Smart temperature control system limits the temperature variance within ±3°C. Adjustable set point for the range of 3°C ~16°C, factory default set temperature is 5°C, controlling the temperature inside the chamber is 2~8°C.

One-touch Search for Historic Data

The highest and lowest historic temperature data is saved and can be checked with one keystroke.

High Efficiency HC Cooling Technology

The hydrocarbon refrigeration system operates at a much higher efficiency and reduces the energy consumption by about 50 percent.



Ergonomic Design

High Strength Glass Shelves

Tempered glass shelves hold 40 kg of products per shelve.

Low Noise

Noise cancelling technology reduces the sound level to less than 40 dB(A) for a much-improved environment.



Dual Lock Design with Multiple Alarm Systems

A mortise lock is standard on the door. Standard alarms include high and low temperature, door ajar, and sensor errors.



Cabinet Structure



Glass Shelve



ATEX Certification Label



Explosion Proof Cabinet/Fan







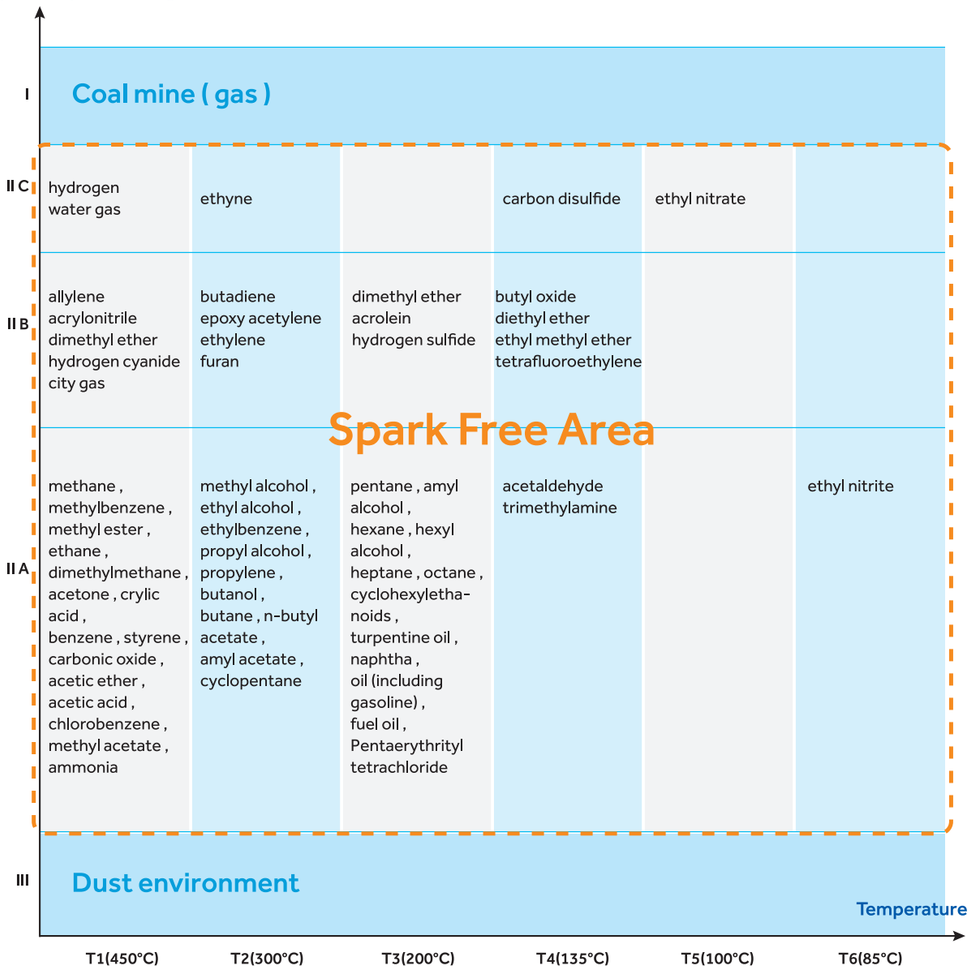


Spark Free Refrigerator

Application Range

Haier spark free refrigerators are ATEX certified in the application range II 3G Ex ic nA II T6, which means the appliances can be found in the whole II zone environment (including II A and II B, II C), a typical environment within many biochemistry laboratories.

Explosive-proof Rating



Warning: Do not store open containers of volatile substances in this refrigerator.

Specifications

	Model		HLR-118SF	HLR-310SF	HLR-310FL(115V)	HLR-310FL(220V)
Technical Data	Type		Under-Counter	Upright	Upright	Upright
	Climate Class		N	N	N	N
	Cooling Type		Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling
	Defrost Mode		Auto	Auto	Auto	Auto
	Refrigerant		R600a	R600a	R600a	R600a
	Sound Level (dB(A))		40	40	40	40
Performance	Temperature Range (°C)		3~16°C Adjustable	3~16°C Adjustable	3~16°C Adjustable	3~16°C Adjustable
	Ambient Temperature (°C)		16~32	16~32	16~32	16~32
Control	Controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display		LED	LED	LED	LED
Electrical Data	Power Supply (V/Hz)		220-240/50	220-240/50	115/60	220-240/50
	Power (W)		55	210	210	210
	Electrical Current (A)		1.2	1.26	1.26	1.26
	Power Consumption (kWh/24h)		0.56	1.05	1.05	1.05
Dimensions	Capacity (L/Cu.Ft)		118/4.2	310/10.9	310/10.9	310/10.9
	Net/Gross Weight (approx)	kg	44/49	72/83	72/83	72/83
		lbs	97/108	158.7/183	158.7/183	158.7/183
	Interior Dimensions (W*D*H)	mm	515*415*630	560*500*1290	560*500*1290	560*500*1290
		in	20.3*16.3*24.8	22.0*19.7*50.8	22.0*19.7*50.8	22.0*19.7*50.8
	Exterior Dimensions (W*D*H)	mm	597*635*810	605*598*1840	605*598*1840	605*598*1840
		in	23.5*25*31.9	23.8*23.6*73.6	23.8*23.6*73.6	23.8*23.6*73.6
	Packing Dimensions (W*D*H)	mm	700*710*930	680*690*1940	680*690*1940	680*690*1940
		in	26.8*27.2*35.8	26*26.4*79.5	26*26.4*79.5	26*26.4*79.5
	Container Load (20'/40'/40'H)		48/96/96	24/51/51	24/51/51	24/51/51
Alarms	High/Low Temperature		Y	Y	Y	Y
	Sensor Error		Y	Y	Y	Y
	Door Ajar		Y	Y	Y	Y
Accessories	Caster		2	4	4	4
	Foot		2	2	2	2
	Shelves/Baskets		2/1	4/0	4/0	4/0
	Water Tray		1	1	1	1
	Padlock Adapter Kit/Quantity		/	1	1	1
	Built-in Key Door Lock/Quantity		1	1	1	1
Certification	CE		Y	Y	Y	Y
	ATEX		Y	Y	Y	Y

Product appearance and specifications are subject to change without notice

Combined Refrigerator and Freezer with Spark-free Interior

Application Range

Used for storage of volatile, unstable, low boiling point (flammable and explosive) compounds/dangerous other items that require a low temperature in pharmaceutical factories and laboratories etc.



HLRF-319SF

Product Advantages

High Performance

Refrigerator: Forced-air cooling system with cycle defrost, temperature uniformity ±3°C

Freezer: Cold wall cooling system, manual defrost, temperature uniformity ±5°C

Optional USB interface, RS485 & printer, easy to gettemperature record

Microprocessor Controller with Digital Display

Refrigerator temperature 2~8°C with resolution of 0.1°C

Freezer temperature -30~-10°C with resolution of 1°C

Multiple alarm functions with remote alarm contact to ensure safe monitoring

Multipurpose and Space Efficient

One cabinet with two independent chambers, both are self-contained and independently controlled with individual doors

Stainless Steel Interior

The interior of refrigerator and freezer are both made of stainless steel, which is easy to clean and corrosion-proof

Environment Friendly

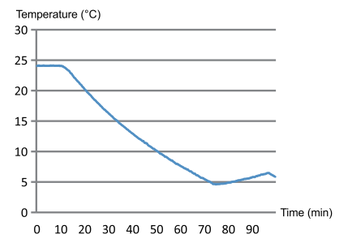
Hydrocarbon refrigerant (R600a for refrigerator/R290 for freezer) and CFC-free polyurethane insulation for reduced global warning potential

ATEX Certified

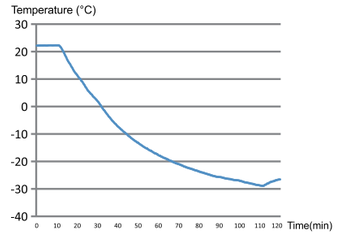
Low Energy Consumption: 1.5 kWh/24h

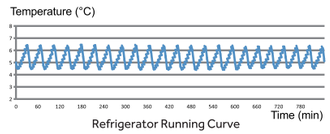
25°C Ambient Temperature Curve

Refrigerator Cool Down Curve

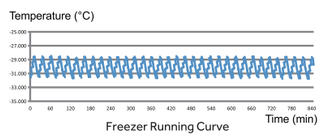


Freezer Cool Down Curve





Refrigerator Running Curve



Freezer Running Curve

Combined Refrigerator and Freezer with Spark-free Interior



HLRF-319SF

Specifications

Model			HLRF-319SF
Technical Data	Cabinet Type		Upright
	Climate Class		N, 16~32°C
	Cooling Type		Refrigertor: Forced Air Cooling/Freezer: Direct Cooling
	Defrost Mode		Refrigerator: Auto/Freezer: Manual
	Refrigerant		Refrigerator: R600a/Freezer: R290
	Sound Level (dB(A))		43
Performance	Temperature Range (°C)		Refrigerator: 2~8/Freezer: -10~-30
Control	Controller		Microprocessor
	Display		LED
Electrical Data	Power Supply (V/Hz)		220-240~/50
	Power (W)		230
	Electrical Current (A)		1.5
	Power Consumption (kWh/day)		1.5
Dimensions	Capacity (L/Cu.Ft)		Refrigerator: 219/7.7; Freezer: 100/3.5
	Net/Gross Weight (approx)	kg	130/140
		lbs	319.7/352.7
	Interior Dimensions (W*D*H)	mm	Refrigerator: 605*510*720/Freezer: 515*465*440
		in	Refrigerator: 23.8*20*28.3/Freezer: 20.2*18.3*17.3
	Exterior Dimensions (W*D*H)	mm	735*660*1810
		in	28.9*26.0*71.3
	Packing Dimensions (W*D*H)	mm	775*720*1930
		in	30.5*28.3*76
	Container Load (20'/40'/40'H)		21/43/43
Alarms	High/Low Temperature		Y
	Sensor Error		Y
	Power Failure		Y
	Door Ajar		Y
	Low Battery		Y
	Remote Alarm		Y
Accessories	Caster		Y/4
	Foot		Y/2
	Porthole		N
	Shelves		Refrigerator: 3; Freezer: 2
	Stylus Printer		Optional (printer or RS485, either-or)
	RS485		Optional (printer or RS485, either-or)
	USB Interface		Optional
Other	Certification		CE, ATEX

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-30°C Spark Free Freezer

Typical Installation

It can be used for safe storage of potentially flammable items and other temperature sensitive samples at low temperatures. Applications found within life science, medical, electronics and chemical industries.



DW-30L298SF

Product Advantages

Explosion Proof Interior

SF series freezers feature standard interior design. FL series freezers feature antistatic interior design, All metal parts are grounded reliably and interior design is explosion proof. Certificates include China anti-explosion proof and EU explosion proof ATEX II C-T6

Superior Temperature Uniformity

The temperature uniformity is ±3° C with the setting temperature of -30°C

Low Noise Design

Noise-reduction features and structure noise reduction design

High-efficiency and Energy-saving Compressor and System

High-efficiency hydrocarbon compressor, optimized refrigeration system and low power consumption

Green and Environmental Friendly

Hydrocarbon refrigerant, energy saving and environmental protection, built with LBA foam insulation, complies with European RoHS Directive

Multiple Alarm Functions

High, Low temperature, door ajar, power failure, sensor error, high ambient temperature alarm and also equipped with remote alarm interface, alarm mode is sound and flash



DW-30L298SF DW-30L298FL





Ergonomic Design

Microprocessor-controlled System

Microprocessor control with LCD temperature display precision at 0.1° C. Internaltemperature is adjustable from -10°C to -30°C

Adjustable Shelves

The adjustable shelves ensure the maximum usage efficiency of the internal space, and users can store items of different sizes as needed

Rich Configuration

Standard: DW-30L298SF interior material is PCM with 3 plastic coated wire shelves, DW-30L298FL interior material is SUS with 3 chrome-plated wire shelves

Optional: stainless steel shelves, drawer, temperature recorder, RS485 or USB (one out of two)

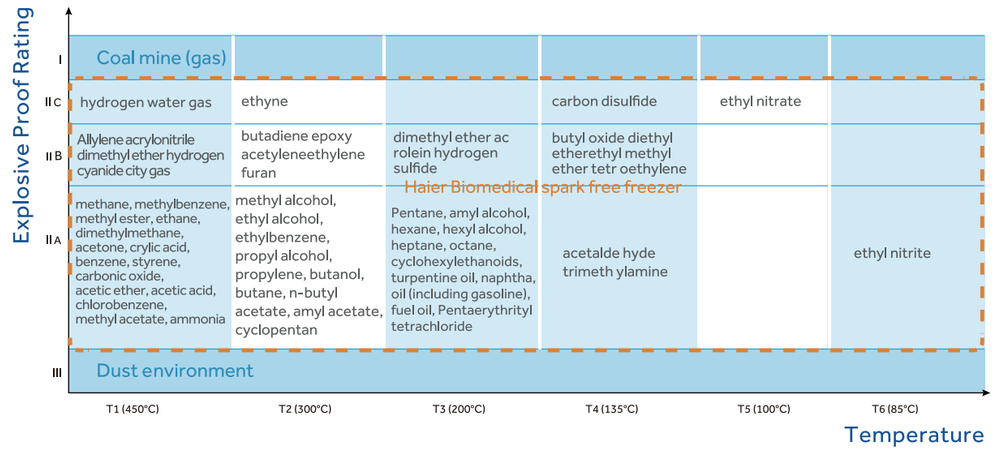
Improved Handle Design

The ergonomic chamfer design of the handle ensures smooth operation and maximum durability

Feet and Casters

4 back-and-forth casters and 2 adjustable feet out of two) for easy moving and leveling

Application Range



Haier Biomedical spark free freezer

-30°C Spark Free Freezer

Key Features

Microprocessor-controlled system

- Microprocessor electronic thermostat, LCD temperature display to an accuracy of 0.1°C;
- Adjustable set point of between -10~-30°C;
- Alarm functions include a high and low temperature alarm, sensor error alarm and power failure alarm;
- Audible and visual alarm;
- Display/Alarm is battery backed up for 24 hours in the event of a power failure.

Good thermal insulation

The super-thick insulation layer and removable door gasket design improves the thermal insulation and energy-saving effects to enhance the reliability of the freezer.

Warning sticker

The SF series adopts the non-anti-static liner and front-operated yellow warning sticker to warn users about safe operation requirements and ensure safe use.

Configuration

Six plastic drawers (DW-30L278SF)
Six drawers made of anti-static materials.(DW-30L278FL)
Adjustable PCM with3 plastic coated wire shelves
Adjustable SUS with 3 chrome-plated wire shelves

Caster

Caster and levelling feet design, easy to move and fix in place.

Specifications

	Model		DW-25L92SF	DW-30L298SF	DW-30L298FL
Technical Data	Cabinet Type		Upright	Upright	Upright
	Climate Class		SN N	SN N	SN N
	Cooling Type		Direct Cooling	Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual	Manual
	Refrigerant		HC	HC	HC
	Sound Level (dB(A))		27	41	41
Performance	Cooling Performance (°C)		-25	-30	-30
	Temperature Range (°C)		-10~-25	-10~-30	-10~-30
Control	Controller		Microprocessor	Microprocessor	Microprocessor
	Display		LED	LCD	LCD
Electrical Data	Power Supply (V/Hz)		220~240/50	220~240/50	220~240/50
	Power (W)		255	330	330
Dimensions	Capacity (L/Cu.Ft)		92/3.2	298/10.5	298/10.5
	Net/Gross Weight (approx)	kg	46/51	125/140	125/140
		lbs	101.4/112.4	275.6/308.6	275.6/308.6
	Interior Dimension (W×D×H)	mm	435*410*635	541*443*1218	541*443*1218
		in	17.1*16.1*25.0	21.3*17.4*48.0	21.3*17.4*48.0
	Exterior Dimension (W×D×H)	mm	597*635*810	770*710*1828	770*710*1828
		in	23.5*25*32.9	30.3*28.0*72.0	30.3*28.0*72.0
	Packing Dimension (W×D×H)	mm	680*690*940	840*770*2000	840*770*2000
		in	26.8*27.1*37.0	33.1*30.3*78.7	33.1*30.3*78.7
	Container Load (20'/40'/40'H)		48/102/102	21/42/42	21/42/42
Alarms	High/Low Temperature		Y	Y	Y
	Remote Alarm		Y	Y	Y
	Power Failure		N	Y	Y
	Sensor Error		Y	Y	Y
	Low Battery		N	N	N
	High Ambient Temperature		N	Y	Y
	Dirty Condenser		N	N	N
	Door Ajar		Y	Y	Y
Accessories	Casters		Y(4)	Y(4)	Y(4)
	Leveling Feet		Y(2)	Y(2)	Y(2)
	Porthole		N	N	N
	Inner Doors		N	N	N
	Drawers		3- Plastic Drawers	6- Plastic Drawers, Optional	6- Permanent Anti-Static Plastic Drawers, Optional
	Shelves		N	3- Adjustable Wire Shelves	3- Adjustable Wire Shelves
	Shelf Dimensions (W×D)(mm)		N	518*373	518*373
	Max. Load per Shelf (kg)		N	20	20
	USB Interface		N	Optional	Optional
	RS485		N	Optional	Optional
	NFC		N	N	N
	Temperature Recorder		N	N	N
Others	Certificate		ATEX explosion proof certificate,CE	ATEX explosion proof certificate,CE	ATEX explosion proof certificate,CE

Product appearance and specifications are subject to change without notice

Haier Biomedical
Intelligent Protection of Life Science

Laboratory Refrigerator

Typical Installation

Used to store chemicals, reagents and consumables within laboratories and research facilities.

Product Advantages

Precise Control of Temperature

Adjustable set temperature range is 3°C to 16°C. A smart temperature control system keeps the internal temperature variation within ±3°C inside the chamber.

High Efficiency HC Cooling Technology

The hydrocarbon refrigeration system operates at a much higher efficiency and reduces the energy consumption by about 50 percent.



Ergonomic Design

One-touch Search for Historic Data
The highest and lowest historic temperature data is saved and can be checked with one key stroke.

Precise Control of Temperature
Adjustable set temperature range is 3°C to 16°C. A smart temperature control system keeps the internal temperature variation within ±3°C inside the chamber.

High Strength Glass Shelves
Tempered glass shelves hold 24kg of products per shelf.

Automatic Door Closing Function

Low Noise
Noise cancelling technology reduces the sound level to less than 40 dB(A) for an improved working environment.

High Efficiency HC Cooling Technology
The hydrocarbon refrigeration system operates at a much higher efficiency andreduces the energy consumption by about 50 percent.

Dual Lock Design with Multiple Alarm Systems
A mortise lock is standard on the door with option to add a padlock for additional security. Standard alarms include high and low temperature, door opening, and sensor errors.


Cabinet Structure


Glass Shelve


Fan/Interior Light


Display Board

Specifications

Model			HLR-310F
Technical Data	Type		Upright
	Climate Class		N
	Cooling Type		Forced Air Cooling
	Defrost Mode		Auto
	Refrigerant		R600a
	Sound Level (dB(A))		40
Performance	Temperature Range (°C)		3-16 Adjustable
	Ambient Temperature (°C)		16-32
Control	Controller		Microprocessor
	Display		LED
Electrical Data	Power Supply (V/Hz)		220-240/50
	Power (W)		225
	Electrical Current (A)		1.6
Performance Characteristics	Temperature Sensor		NTC
	Power Consumption (kWh/24h)		1.05
Dimensions	Capacity (L/Cu.Ft)		310/10.9
	Net/Gross Weight	kg	72/83
		lbs	158.7/183
	Interior Dimensions (W*D*H)	mm	560*500*1290
		in	22.0*19.7*50.8
	Exterior Dimensions (W*D*H)	mm	605*598*1840
		in	23.8*23.6*73.6
	Packing Dimensions (W*D*H)	mm	680*690*1940
		in	26.8*27.1*74.4
	Container Load (20'/40'/40'H)		24/51/51
Alarms	High/Low Temperature		Y
	Sensor Error		Y
	Door Ajar		Y
	Audible and Visual Alarm		Y
Accessories	Caster		4
	Foot		2
	Porthole		Y
	Shelves		4
	Temperature Setting Mode		Password Protection
Material	Exterior Material		Painted Steel
	Interior Material		Polystyrene
	Door Thickness (mm)		45
	Cabinet Thickness (mm)		35
	No. of Shelves		4
Others	Certification		CE

Product appearance and specifications are subject to change without notice

Fluid Warming Cabinet

Application

Heating applications include warming of liquid medicine, nutrient solution, rinsing liquid and physiological saline. Installations can be found in operating rooms, ICU, emergency rooms, wards and other related areas.

Product Features

- Fast heating speed: variable power PTC heating module with fast heating speed and energy saving.
- UV sterilization: UV light sterilization in the cabinet with a variety of optional sterilization methods for effective prevention of possible contamination.
- Multiple overheat protections: electronic control + mechanical temperature control + overheat protection, multiple temperature control to ensure heating safety.
- Environmentally friendly: no compressor or external fan, extremely quiet with no disturbance to the airflow in the operating room and no effect on temperature, reduces risks of cross-contamination.



Product Advantages

- Fast and efficient heating.
- Standard UV sterilization for effective sterilization and other sterilization options available.
- Multiple over heating protections to ensure product viability.
- Two-sensor.

Ergonomic Design

- Large and clear 7-inch LCD touch screen.
- Easy to clean stainless steel interior and flat external surfaces.
- Multiple alarms for over-heating protection.



Internal Structure



7 Inch LCD Screen



UV Sterilization Lamp

Specifications

	Model		HYR-111
Technical Data	Cabinet Type		Upright, One Glass Door
	Climate Class		SN
	Warming Type		Forced Air Warming
	Sound Level (dB(A))		42
Performance	Temperature Range (°C)		26°C~50°C, Above Ambient Temperature
Control	Controller		Microprocessor
	Display		LCD Touch Screen
Electrical Data	Power Supply (V/Hz)		220/50
	Power(W)		130
	Power Consumption (kWh/24h)		0.59
Dimensions	Capacity (L/Cu.Ft)		111/3.9
	Net/Gross Weight (approx)	kg	58/68
		lbs	127.6/149.6
	Interior Dimensions (W*D*H)	mm	477*528*462
		in	18.67*20.67*18.1
	Exterior Dimensions (W*D*H)	mm	597*682*833
		in	23.37*26.7*32.61
	Packing Dimensions (W*D*H)	mm	700*775*960
		in	27.6*30.5*37.8
	Container load (20'/40'/40'H)		46/94/94
Alarms	High/Low Temperature		Y
	Sensor Error		Y
	Door Ajar		Y
Accessories	Caster		Y
	Foot		Y
	Porthole		Y
	Shelves		Y

Product appearance and specifications are subject to change without notice

Haier Biomedical
Intelligent Protection of Life Science

Transportation



Temperature Range 0~25°C

Scope of Application

This product is applicable for international aviation cold chain transportation of drugs, vaccines, medicines, biological products, raw materials, high-end fresh food and other products which require strict temperature control.



Product Advantages

- Robust construction with advanced technology to ensure reliable quality and stable performance
- Prevent internal temperature deviation and ensure the temperature uniformity under extreme environmental temperature changes
- Superior internal temperature uniformity
- Cost-effective performance

Specifications

Model			RKN-AT1
Power	Supports automatic switching between external AC power supply and built-in battery power supply, which is convenient to use and simple to operate		
	Recharging power supply		100-240V AC, 50-60Hz
	Maximum charging time (h)		10 (fast charging)
	Maximum power during charging (w)		1,100
Temperature Control Performance	The temperature management system, developed independently, achieves accurate temperature control through compressor refrigeration and electric heating innovative air circulation system to effectively balance the temperature difference		
	Temperature range		0°C~+25°C (+32°F to +77°F)
	Internal temperature tolerance		At set temperature +2°C~+10°C (+35.6°F to +50°F), Tolerance +/-3°C (+/-5.4°F) At set temperature +10°C~+20°C (+50°F to +68°F), Tolerance +/-5°C (+/-9°F)
	Battery capacity		When the ambient temperature is 25°C (77°F), the set temperature is 5°C (41°F), the container can operate for more than 50 hrs.
	Operating ambient temperature		-20°C~+43°C (-4°F to +109.4°F)
	Storage ambient temperature		-40°C~+55°C (-40°F to +131°F)
Dimensions	Internal effective volume		2m³ (70.6 foot³)
	Exterior dimensions (L*W*H)	mm	2005*1534*1620
		in	78.9*60.4*63.8
	Interior dimensions (L*W*H)	mm	1294*1273*1264
		in	50.9*50.1*49.8
	Door opening (L*H)	mm	1294*1264
		in	50.9*49.8
Weight	Tare weight	kg	650
		lbs	1433
	Operational maximum gross weight	kg	1588
		lbs	3500
	Maximum payload	kg	938
		lbs	2067
Data Recording	Data recording function: internal and external temperature, door opening times, alarm information through USB port		
Others	Applicable Aircraft Models: A300, A310, A330, A340, A380, B747, B767, B777, DC10, IL86, MD11, L1011 as key examples		
Note	Tare weight and maximum payload might vary due to load variations and maintenance		

Product appearance and specifications are subject to change without notice

Transport Cooler for Biological Products

Temperature Range 0~10°C

Active Cooling Solution



HZY-8Z/8ZA



HZY-15Z/15ZA

- Accurate control of the temperature between 2-6°C
- PCM ice raft
- Constant temperature range (4±1°C)
- Complete process with cold chain monitoring
- Replace the traditional Insulation method with haier's transport cooler for transport
- Blood from blood transfusion department to clinical blood transfusion point

Low Noise

- The ultra-quiet fan is equipped with air outlets on both sides, noise level less than 34 dB providing a more comfortable environment.



Air Duct Structure

Easy to Clean

- The inner liner adopts aluminium oxidation process to make it smooth inside and easy to clean.



Internal Structure

Product Features

Semiconductor for active cooling, energy saving and environmental protection.

- Connect to power to cool unit to temperature, during transportation (without power) the unit will hold temperature. Small and easy to carry.

2~6 °C precise temperature control, suitable for storage of biological products such as blood, medicines and reagents etc.

- Temporary blood storage to ensure blood safety at clinical blood stations.

Embedded with 4 °C phase change PCM ice pack for cold storage, providing long insulation after power off to ensure blood safety during the transportation.



4 °C PCM Ice Pack

- The PCM ice pack uses a 4°C phase change material with a freezing point greater than 2°C to ensure the low temperature preservation of blood and other biological samples.
- At 25 °C under no load, the time for temperature inside the box rises to 10 °C is more than 1 hour.
- At 25 °C under full load, the time for temperature inside the box rises to 10 °C is more than 2 hour.

Multiple Fault Alarms, Making It Safer to Use.

- High/low temperature alarm, power failure alarm, and sensor error alarm.

The Power Supply Is Configured with Cigarette Lighter Plug, Easy for Vehicle Transportation.

- The power supply is configured to fit the vehicles internal power plug, easy for vehicle transportation.

Passive Cooling Solution

- Multi-function handle with casters for easy transportation
- Multi dimensional binding of orders and blood, and whole process with cold chain monitoring
- From blood collection vehicle/blood donation house to blood center/blood station from blood center/blood station to hospital

Product Features

- LCD screen, real-time display of inside temperature, battery level and other information.
- Electromagnetic lock as standard, ability to scan QR code to open the unit, safeguarding the stored items.
- 4°C ice pack ensures cool storage temperatures with zero freezing to keep blood within safe storage temperature guidelines during transportation.



HZY-5B



HZY-35B

Product Features

- Real-time display of inside temperature.
- Integrated cold storage ice pack box, easy to access ice pack.
- Rotational moulding shell, anti-knocking, easy to carry.
- Multifunctional handle, sided casters, easy to be transported on flat road.

Transport Cooler for Biological Products

Specifications





	Model	HZY-5B	HZY-8Z	HZY-15Z
Technical Data	Storage Temperature (°C)	/	2~6	2~6
	Operating Temperature (°C)	2~10	2~10	2~10
Dimensions	Net / Gross Weight (kg)	2/3	4/5	6/8
	Exterior Dimensions (W*D*H mm)	285*186*200	320*265*260	520*300*270
	Interior Dimensions (W*D*H mm)	220*118*126	230*140*170	430*150*180
	Packing Dimensions (W*D*H mm)	357*277*287	393*362*367	595*375*404
	Blood Bag Capacity	5	8	15
Alarms	Foam material	High density foam	Polyurethane Cycloisopentane	Polyurethane Cycloisopentane
	Refrigeration method	Passive cooling	Semiconductor active refrigeration	Semiconductor active refrigeration
	Warm up time	3 hours (32°C ambient temperature load situation)	2 hours (32°C ambient temperature load situation)	2 hours (32°C ambient temperature load situation)
	Shell/liner	ABS/ABS	ABS/aluminium plate	ABS/aluminium plate
	Alarm	Low Battery	High temperature,sensor error, power off	High temperature,sensor error, power off
	Battery	Lithium Battery	Rechargeable lithium battery	Rechargeable lithium battery
Certification	CE	/	Y	Y

Specifications





		HZY-8ZA	HZY-15ZA	HZY-35B
Technical Data	Storage Temperature (°C)	2~6	2~6	/
	Operating Temperature (°C)	2~10	2~10	2~10
Dimensions	Net / Gross Weight (kg)	4/5	6/8	9/12
	Exterior Dimensions (W*D*H mm)	320*265*260	520*300*270	550*328*370
	Interior Dimensions (W*D*H mm)	230*140*170	430*150*180	450*232*295
	Packing Dimensions (W*D*H mm)	393*362*367	595*375*404	674*455*490
	Blood Bag Capacity	8	15	35
Alarms	Cold Chain Monitoring	Y	Y	/
	NFC Unlock	/	Y	/
	Foam material	Polyurethane Cycloisopentane	Polyurethane Cycloisopentane	Polyurethane Cycloisopentane
	Refrigeration method	Semiconductor active refrigeration	Semiconductor active refrigeration	Passive cooling
	Warm up time	2 hours (32°C ambient temperature load situation)	2 hours (32°C ambient temperature load situation)	6 hours (43°C ambient temperature load situation)
	Shell/liner	ABS/aluminium plate	ABS/aluminium plate	HDPE/HDPE
	Alarm	High temperature,sensor error, power off	High temperature,sensor error, power off	/
	Battery	Rechargeable lithium battery	Rechargeable lithium battery	Button battery
Certification	CE	/	/	Y

Product appearance and specifications are subject to change without notice

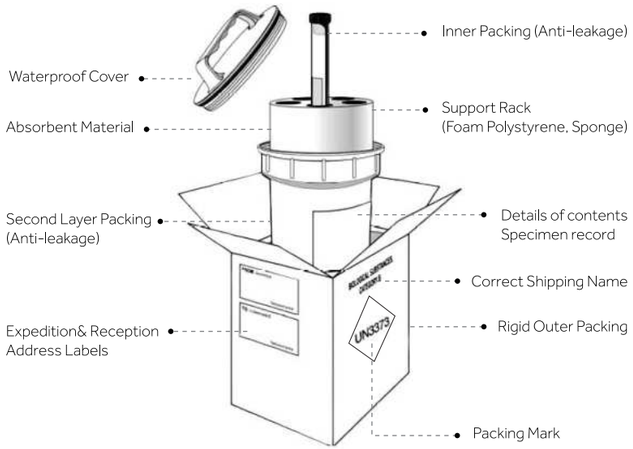
Transport Cooler for Infectious Products

The virus is high-risk specimen, and if there is a collision during the transportation or transmission, there will be a risk of leakage and re-infection. A solution is urgently needed to ensure the viability of the samples and the safety of transport personnel.

Packaging System

Three-layer packaging:

- Main container
  Test tube with cap (user configures according to business)
- Auxiliary container
  ≥95kPa pressure sealed tank (EPS or EPE bracket for fixing test tube, 16 hole D10 test tube and 2 hole D15 test tube)
- Outer packaging
  Transfer box (ice row, foam used to fix sealed container, activated carbon and other adsorbed substances, sample labeling)



Active Cooling



HZY-8Z (Specimen)



HZY-15Z (Specimen)

Product Advantages

Active semiconductor cooling, energy saving and environment friendly
Active semiconductor cooling, energy saving and environmental protection, built-in cooling function, cooling after power on.

Precise temperature control
Precise temperature control at 2°C~6°C is suitable for the temporary storage of biological products such as serum and blood specimens.

Built-in, 4°C phase change PCM, ice row cooling, long-term insulation after power failure, to ensure the safety of specimen
Under the condition of no load at 25°C, the temperature of the air in the box rising to 10°C takes 1 hour; under the loading condition of 25°C, the air temperature in the box rising to 10°C takes 2 hours.

Multiple fault alarms, safer to use
High and low temperature alarm, power failure alarm, sensor error alarm.

The power supply is equipped with a car cigarette lighter plug, which is convenient for vehicle transport
The power supply can support 12V and 100~240V conversion, so the container can be put into the car to plug in and transfer.

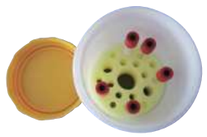
Auxiliary Container



HZY-8Z (Specimen)



HZY-15Z (Specimen)



Pressure sealed tank (EPS or EPE holder for fixing test tubes, 16-hole D10 test tube and 2-hole D15 test tube)

The pressure-sealed tank remains intact at the temperature of the refrigerant used, as well as the temperature and pressure that may occur after loss of refrigeration. Under the condition of no leakage, it can withstand the internal pressure of 95kPa, and can ensure that it will not be damaged in the temperature range of -40°C to + 55°C.

Transport Cooler for Infectious Products

Passive Cooling



UN2814 transport cooler
HZY-10B (P620)

Product Advantages

Passive cooling, long heat preservation time, suitable for air transportation;
At 32°C ambient temperature, the temperature inside the box (pre-cooled in advance) rising to 10°C takes 8 hours (P620).

PCM ice row, frozen at 4°C, to ensure the safety of specimen storage;

The shell is made of aluminum-magnesium alloy, with high strength; Meeting the P620 packaging requirements of Class A infectious substances(HZY-10B).

Auxiliary Container





HZY-10B (P620)

Pressure sealed tank (EPS or EPE holder for fixing test tubes, 16-hole D10 test tube and 2-hole D15 test tube)

The pressure-sealed tank remains intact at the temperature of the refrigerant used, as well as the temperature and pressure that may occur after loss of refrigeration. Under the condition of no leakage, it can withstand the internal pressure of 95kPa, and can ensure that it will not be damaged in the temperature range of -40°C to + 55°C.

Specifications

Model	HZY-8Z (Specimen)	HZY-15Z (Specimen)
Use	Transfer of biological specimens, etc	Transfer of biological specimens, etc
Type	Active cooling, portable	Active cooling, portable
Internal dimensions (W*D*H mm)	230*140*170	430*150*180
External dimensions (W*D*H mm)	320*265*260	520*300*270
Loading quantity	1 transport tank	2 transport tanks
Effective volume	6L, 1 built-in specimen seal can	12L, 2 built-in specimen seal cans
Specimen seal can dimension (mm)	H160*D130	H160*D130
Tube storage capacity	16 pcs D10 test tubes (small), 2 pcs D15 test tubes (large)	
Net weight (kg)	3.5	6
Controller	Microprocessor control	Microprocessor control
Temporary storage temperature (°C)	2-6	2-6
Transfer temperature (°C)	2-10	2-10
Holdover time (25°C, no load) (h)	1	1
Holdover time (25°C, full load) (h)	2	2
External material	ABS, high-density EPS foam filling	ABS, high-density EPS foam filling
Internal material	Aluminum plate	Aluminum plate
Door material	ABS, high-density EPS foam filling	ABS, high-density EPS foam filling
Cold storage	PCM ice-pack for cold storage	PCM ice-pack for cold storage
Cooling type	Optimized semiconductor cooling	Optimized semiconductor cooling
Cooling fan	ADDA fan	ADDA fan
Temperature control and display	Microprocessor control, dual sensors for control and display, display accuracy 0.1 °C	
Alarms	Sensor failure alarm, high temperature alarm, power failure alarm	

Specifications

Model	HZY-10B (P620)
Purpose	Disease control centers, hospitals, etc. are used for transport of infectious substance specimens (air transportation)
Type	Passive cooling
Internal dimensions (W*D *H mm)	345*225*182
External dimensions (W* D* H mm)	430*312*272
Loading quantity	2 transport tanks
Effective volume	14L with 2 built-in specimen sealed tanks
Specimen sealed tank size (mm)	H160*D130
Number of test tubes (Single tank)	16 test tubes D10 (small), 2 test tubes D15 (large)
Net weight (kg)	8
Transport temperature (°C)	2-10
Thermal insulation time (32°C full load) (h)	8
Cabinet material	Aluminum magnesium alloy box shell
Thermal insulation material	EPP foam liner
Cool storage mode	PCM ice pack cold storage

Vaccine Transport Cooler



The vaccine transport cooler is superior and efficient, having dual capabilities for cold storage and temperature preservation, which is environmentally friendly and energy saving. The performance of the cooler and holdover time of temperature preservation is influenced by the temperature of the stored items.

6 Liter/12 Liter/20 Liter/ 30 Liter

Scope of Application › Suitable for vaccine cold chain transportation.

Product Design and Advantages

- Both inside and outside of the boxes are made of PP (high strength plastic) material, non-toxic and harmless, safe for direct food contact.
- The wall of the box is filled with fluorine-free polyurethane foam insulation material without adding any chemical material, environment-friendly and odor-free.
- The body of the unit is designed with handles on both sides to facilitate manual handling & is manufactured with anti-ultraviolet materials.
- Equipped with professional sealing ring design, with good heat insulation and refrigeration effect.

Specifications






Model	QBLL0606	QBLL0812	QBLL0820	QBLL0830
Temperature Range (°C)	2-8	2-8	2-8	2-8
Volume (L)	6	12	20	30
Exterior Dimension (mm)	330*240*275	420*245*300	440*262*308	580*310*360
Interior Dimension (mm)	238*143*195	335*170*240	375*215*250	475*245*295
Net Weight (Kg)	1.8	2.4	3.5	4.5
Material	PP	PP	PP	PP
Cold Source Configuration	6 pieces QB004 ice boxes	6 pieces QB004 ice boxes	10 pieces QB004 ice boxes	6 pieces QB010 ice boxes

Remark: QB004 and QB010 are models of ice packs, the dimension of QB004 is 160*90*30mm and the dimension of QB010 is 280*120*30mm



- High strength material, anti-collision, non-toxic and harmless, UV resistant.
- The outer-unit body is equipped with an integrated handle, which is firmly installed and durable.
- Real-time display of temperature inside the cooler, making the temperature monitoring more intuitive.
- Specially positioned ice packs, partitioned storage, easy to operate.
- Professional & innovative sealed design ensuring zero cold leakage to achieve safe, secure and reliable long-term cooling preservation.

Typical Application

Cold chain transportation for samples, reagents, blood products, specimens and drugs.

Specifications

Model	FS-12LS	FS-18LS	FS-35LS	FS-54LS	FS-100L	FS-110L
Temperature Range (°C)	0-10	0-10	0-10	0-10	0-10	0-10
Duration (h)	≥24	≥24	≥24	≥24	≥24	≥24
Exterior Dimensions (W*D*H)(mm)	440*262*308	440*262*308	570*305*365	615*395*450	680*500*540	832*515*524
Interior Dimensions (W*D*H)(mm)	325*170*225	363*203*244	475*245*270	520*310*355	580*400*440	732*421*425
Qty of Icepacks (Pcs)	4	4	4	4	4	6
Net Weight (kg)	6.2	6.5	9.5	18.5	22	19

Note: -25~-15°C and 15~25°C are available with optional ice packs, The standard ice packs can only achieve 0~10°C temperature storage.

Temperature Range -20~10°C



ALG50

- Low voltage battery protection
- LED lighting
- Widescreen LCD display
- Real-time voltage display
- Detachable temperature sensor
- Standard basket



BCD60

- Low voltage battery protection
- LED lighting
- Detachable temperature sensor
- Widescreen LCD display
- Real-time voltage display



BCD115

- Low voltage battery protection
- LED lighting
- Detachable temperature sensor
- Widescreen LCD display
- Real-time voltage display

Specifications

Model		ALG50	BCD60	BCD115
Capacity (L)		50	60	115
Climate Type		T, ST, SN, N	T, ST, SN, N	T, ST, SN, N
Net Weight (Kg)		16.7	24.0	28.6
Operating Temperature (°C)		-20~ +10 (at 25°C)	-18~ +10 (at 32°C)	-18~ +10 (at 32°C)
Power (W)		55	70	70
Refrigerant		R134a	R134a	R134a
Insulation Material		C5H10/C-Pentane	C5H10/C-Pentane	C5H10/C-Pentane
Exterior Dimensions (W*D*H)	mm	630*404*530	621*485*569	811*482*672
Packing Dimensions (W*D*H)	mm	715*450*625	718*578*638	906*575*745
Voltage Power Supply		AC110-240V, 50/60Hz	AC110-240V, 50/60Hz	AC110-240V, 50/60Hz
		DC 12V/24V	DC 12V/24V	DC 12V/24V
Power Consumption (kWh/24h)		0.23	0.25	0.25

Active Cooling

Product Advantages

DC Frequency Conversion Technology

DC frequency conversion compressor, superior energy efficiency.

Tilt Protection Function

Electronic gyroscope in board, effective protection for compressors.

Integrated Main Body

Rotational molding body better adapted to complex transport environments.

Multiple Power Supply

Supports AC and DC power.



HZY-40Z

Unique Designs

- The body and door use integrated roto molding.
- Using environmental LBA CFC-free foaming materials, thermal insulation performance is increased by up to 5%.
- The body is equipped with a handle for easy carry.
- Optional: Casters to facilitate transport.
- Optional: Electromagnetic lock, with password lock equipped; more secure.
- Forced air cooling method, the temperature is more uniform.
- Built-in UVC ultraviolet lamp for regular disinfection.
- 3 in 1 wide temperature range , multiple functions within one unit, greater cost savings.

Specifications

Model	Exterior Dimension (W*D*H)(mm)	Interior Dimension (W*D*H)(mm)	Capacity (L)	Door	Foam Materials	Compressor	Basket Load Bearing(KG)	Working Mode	Outer Shell/ Inner Liner	Condenser/ Evaporator
HZY-40Z	800*550*505	338*348*285	33	Rotational moulding integrated forming foam door	LBA	DC variable frequency compressor	≤35	Forced air cooling and heating	Rotational moulding	Microchannel/ Fin type

Controller	Refrigerant	Light	UV Lamp	Net Weight (KG)	Temperature Range (°C)	Power Supply	Max power (W)	Power Consumption (Kwh/24h)	Electro-magnetic Lock	USB
Microprocessor	HFC	LED 1W	UVC 1W	42	-20 to 22	AC 110-240V 50/60Hz DC12/24V	90	1.5	Optional coded lock	Optional

Intelligent Control Cold Chain Transport Cooler

Product Advantages

Check the insulation status at any time

Real-time upload setting parameters, operation parameters, operation curve, alarm record and event record. Monitor the operation of the transport cooler through the UCool system to visualize the complete process and traceability of information.

Stable performance, long service life

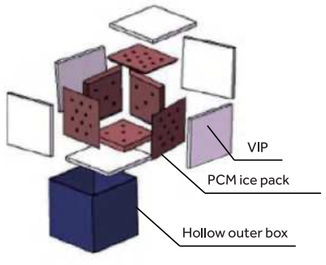
The product adopts VIP insulation technology which has an insulation performance of 5-8 times that of polyurethane foam, and significant extended time temperature control that handles the changing transportation conditions and environment; It has long service life by adopting nanometer core material.

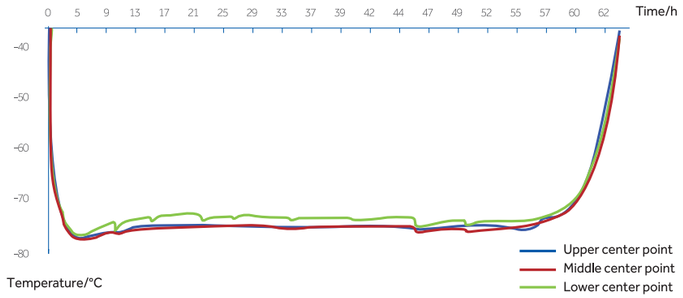
Light weight, easy to carry

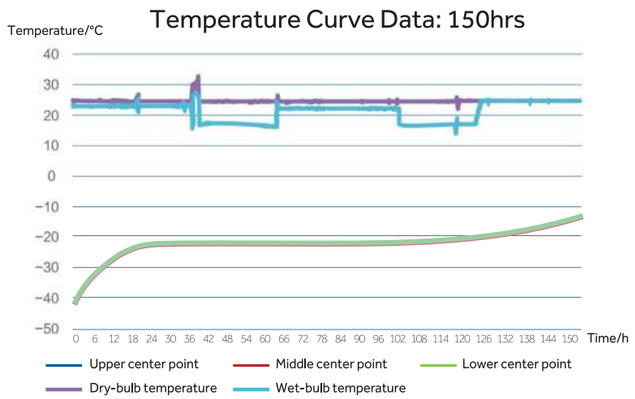
Lightweight with ergonomic design is easy to carry.



Intelligent Control Cold Chain Transport Cooler







Specifications

Model	BW25-8A	BW25-12A	BW50-12A	BW25-18A	BW25-36A	BW50-36A	BW25-64A
Temperature Range (°C)	-25~-15/2-8/15-25/-90~-60	-25~-15/2-8/15-25/-90~-60	-25~-15/2-8/15-25/-90~-60	-25~-15/2-8/15-25/-90~-60	-25~-15/2-8/15-25/-90~-60	-25~-15/2-8/15-25/-90~-60	-25~-15/2-8/15-25/-90~-60
Exterior Dimensions (W*D*H)(mm)	455*295*295	410*345*355	470*400*410	510*350*355	515*450*460	575*510*510	590*525*525
Packing Dimensions (W*D*H)(mm)	546*381*389	504*436*444	560*492*500	607*439*447	609*541*549	665*597*605	679*611*619
Interior Net Dimensions (W*D*H)(mm)	310*215*215	270*270*270	270*270*270	370*270*270	370*370*370	370*370*370	440*440*440
Payload Size (with ice pack)(mm)	270*175*175 (8L)	230*230*230 (12L)	230*230*230 (12L)	330*230*230 (18L)	330*330*330 (36L)	330*330*330 (36L)	400*400*400 (64L)
Net Weight (kg)	4	4.8	9.8	5.6	8.2	16.4	11
Gross Weight (kg)	6	6.8	12.5	8.2	11.2	20	14.8
Recorder Monitoring	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Heat Insulating Material	VIP	VIP	VIP	VIP	VIP	VIP	VIP
Insulation Thickness (mm)	25	25	50	25	25	50	25
Daily Consumption of Dry Ice (kg)	1.5	1.6	0.75	1.85	2.5	1.5	2.7
Safety Margin (kg)	1	1	1	1	2	2	2

Note: The safety margin is the minimum amount of dry ice required to keep the temperature in the box not higher than -70°C.

Logistics Cold Chain Transport Cooler

Moderna Vaccine Transport Solutions (-25 to -15°C)

(Size:5.5"L*2.2"W*2.5"H)

Model	BW25-8A	BW25-12A	BW50-12A	BW25-18A	BW25-36A	BW50-36A	BW25-64A	HZY-40Z
Refrigeration Principle	PCM	PCM	PCM	PCM	PCM	PCM	PCM	Compressor
Temperature Range (°C)	-25~-15	-25~-15	-25~-15	-25~-15	-25~-15	-25~-15	-25~-15	-20~-15
Extenal Size (mm)	455*295*295	410*345*355	470*400*410	510*350*355	515*450*460	575*510*510	590*525*525	800*550*505
Payload Size (mm)	270*175*175	230*230*230	230*230*230	330*230*230	330*330*330	330*330*330	400*400*400	377*348*285
Gross weight (kg)	6	6.8	12.5	8.2	11.2	20	14.8	61
Hold Over Time (h)	56h	48h	120h	68h	70h	150h	86h	6h
Qty of Moderna Vaccine (CAR)	10	16	16	28	56	56	114	58
Qty of Moderna Vaccine (Vials)	100	160	160	280	560	560	1140	580
Qty of Moderna Vaccine (Doses)	1000	1600	1600	2800	5600	5600	11400	5800

AstraZeneca Vaccine Transport Solutions (2 to 8°C)

(Size:135mmL*56mm"W*60mm"H)

Model	BW25-8A	BW25-12A	BW50-12A	BW25-18A	BW25-36A	BW50-36A	BW25-64A	HZY-40Z
Refrigeration Principle	PCM	PCM	PCM	PCM	PCM	PCM	PCM	Compressor
Temperature Range (°C)	2~8	2~8	2~8	2~8	2~8	2~8	2~8	2~8
Extenal Size (mm)	455*295*295	410*345*355	470*400*410	510*350*355	515*450*460	575*510*510	590*525*525	800*550*505
Payload Size (mm)	270*175*175	230*230*230	230*230*230	330*230*230	330*330*330	330*330*330	400*400*400	377*348*285
Gross weight (kg)	6	6.8	12.5	8.2	11.2	20	14.8	61
Hold Over Time (h)	60h	50h	130h	72h	72h	168h	96h	6h
Qty of Moderna Vaccine (CAR)	10	16	16	28	56	56	114	58
Qty of Moderna Vaccine (Vials)	100	160	160	280	560	560	1140	580
Qty of Moderna Vaccine (Doses)	1000	1600	1600	2800	5600	5600	11400	5800

Chinese COVID-19 Vaccine Transport Solutions (2 to 8°C)

Model	BW25-8A	BW25-12A	BW50-12A	BW25-18A	BW25-36A	BW50-36A	BW25-64A	HZY-40Z
Refrigeration Principle	PPCM	PCM	PCM	PCM	PCM	PCM	PCM	Compressor
Temperature Range (°C)	2~8	2~8	2~8	2~8	2~8	2~8	2~8	2~8
Extenal Size (mm)	455*295*295	410*345*355	470*400*410	510*350*355	515*450*460	575*510*510	590*525*525	800*550*505
Payload Size (mm)	270*175*175	230*230*230	230*230*230	330*230*230	330*330*330	330*330*330	400*400*400	377*348*285
Gross weight (kg)	6	6.8	12.5	8.2	11.2	20	14.8	61
Hold Over Time (h)	60h	50h	130h	72h	72h	168h	96h	6h
Qty of SinoVac Vaccine (Doses)	60	60	60	128	280	280	400	240
Qty of CNBG Vaccine (Doses)	68	110	110	154	315	315	618	240

Haier Biomedical
Intelligent Protection of Life Science

PHARMACY REFRIGERATOR

Pharmacy Refrigerator

Chromatography Refrigerator

Used for biochemical chromatographic analysis in laboratories, universities and other facilities.

Product Advantages

Professional Chromatography Refrigerator

- Large volume of 1100L
- Waterproof sockets provides power for mixers, shakers and other lab tools
- Robust frame and clamp securely hold experimental apparatus
- UV lamp ensures thorough sterilization within the chamber
- Corrosion-proof and easy-to-clean stainless steel interior for longevity



Top-mounted key lock for convenience

Adjustable perforated stainless steel shelves promote better circulation and flexible storage

Two access ports (one on each side wall)

Microprocessor controller, digital display with 0.1°C resolution; hermetically sealed compressor, forced-air circulation with auto defrost to ensure a cabinet temperature between 2~8°C

4 swivel casters with 2 leveling feet for easily movement and positioning in place

Double-layer tempered glass door with heater prevents condensation even at 32 ° C, 80% RH ambient, self-closing mechanism, magnetic door gasket for positive seal

Hydrocarbon refrigerant (R290) and CFC -free polyurethane insulation- environmentally friendly

Multiple alarm functions for safer monitoring, audible & visual alert with mute function, including standard remote alarm modules

USB, RS485 & printer for easy data export and external connection

Energy-efficient interior LED lighting provides bright, high color illumination at lower heat output

Product Specification

Model			HYC-1100C
Technical Data	Cabinet Type		Upright, glass door
	Climate Class		N, 16~32°C
	Cooling Type		Forced air cooling
	Defrost Mode		Auto
	Refrigerant		R290
	Sound Level (dB(A))		43
Performance	Temperature Range (°C)		2~8
Control	Controller		Microprocessor
	Display		LED
Electrical Data	Power Supply (V/Hz)		220~240/50/60
	Power (W)		600
	Electrical Current (A)		2.7
Dimensions	Capacity (L/Cu.Ft)		1100/38.8
	Net/Gross Weight (approx)	(kg)	340/380
		(lbs)	750/838
	Interior Dimension (W*D*H)	(mm)	1315*570*1525
		(in)	43.1*18.7*50.0
	Exterior Dimension (W*D*H)	(mm)	1420*630*1980
		(in)	46.6*20.7*65.0
	Packing Dimension (W*D*H)	(mm)	1525*900*2100
		(in)	50.0*29.5*68.9
	Container load (20'/40'/40'H)		7/14/14
Alarms	High/Low Temperature		Y
	High ambient temperature		Y
	Door Ajar		Y
	Power Failure		Y
	Low Battery		Y
	Sensor Error		Y
	Communication failure		Y
	Remote Alarm		Y
Accessories	Caster		4
	Foot		2
	Porthole		2
	Clamp fit		2 sets
	Shelves/Drawers		1 supporting frame + 2 adjustable shleves
	Printer		Optional
	Chart recorder		Optional
	USB Interface		Yes
	RS485		Optional

*Haier Biomedical reserves the right to change products and specifications without prior notice.

New Generation Pharmacy Refrigerator

Used for storage of medicines, vaccines, reagents, biological products and other items that require a temperature between 2-8°C in hospitals, pharmacies, pharmaceutical factories, clinics and laboratories as key examples.



HYC-1030GT

Product Advantages

Ergonomic & innovative design, 7" touch screen, easy to check the cabinet temperature, alarm & event records; authority management is standard to avoid unauthorized access or change in settings

Triple-paned tempered glass door with frame heater to reduce condensation even at 32°C, 80% RH ambient; self-closing door with 90° stop; magnetic gaskets to ensure a positive seal

Multiple alarm functions for safer monitoring, audible/visual alert with mute function; remote alarm contact is equipped as standard

Anti-freezing thermostat is available to protect store items from freezing, which is DIN13277 compliance

Energy efficient interior LED lighting, side-mounted for complete clear visibility of the internal area

Standard USB module to easily record and export cabinet temperature and alarm data; Standard RS485 port and remote alarm contact for ease of external connection; optional printer to efficiently export cabinet temp data

Microprocessor controller, smart inverter compressor, optimized air-cooling technology with auto defrost to ensure excellent cooling performance, defrost water to evaporate automatically

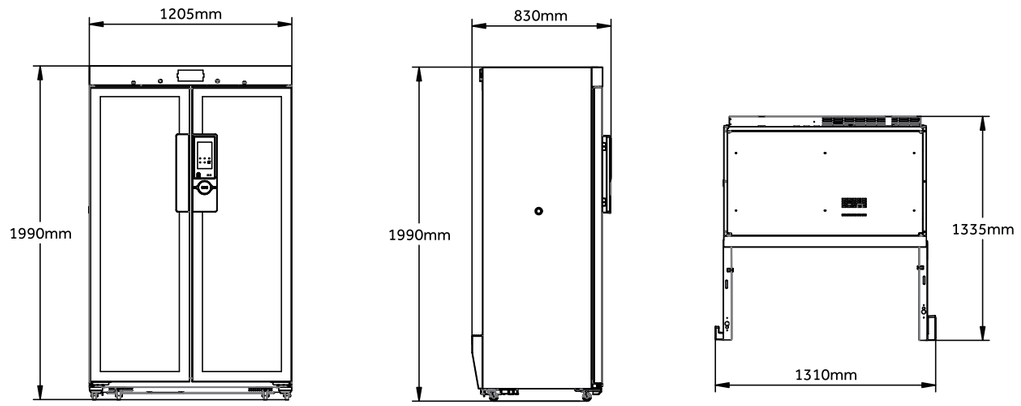


Two 25mm probe access ports on each side wall to accept user-provided monitoring equipment

Adjustable plastic-coated wire shelves for improved circulation and flexible storage, 4 swivel casters with 2 leveling feet for easy movement and fixing

Electromagnetic lock is standard to avoid unauthorized access

Cabinet Temperature



New Generation Pharmacy Refrigerator

Used for storage of medicines, vaccines, reagents, biological products and other items that require a temperature between 2-8°C in hospitals, pharmacies, pharmaceutical factories, clinics and laboratories etc.

Product Advantages

- Low energy consumption: 2.5 kWh/day ①
- Excellent performance: temperature uniformity ≤±1°C ②
- Quiet operation: 39dB (A)
- Intelligent anti-condensation: triple-paned tempered glass door with door frame heater, effectively reduces condensation even at 32° C, 80% RH ambient temperature
- Optional USB, RS485 and printer, easy to export temperature data; all events and alarms will be recorded by the USB module
- Eco-friendly hydrocarbon refrigerant (R290)and CFC-free polyurethane insulation for reduced global warming
- Hermetically sealed compressor, forced-air circulation and automatic defrost to ensure high cooling performance
- Microprocessor controller, display with resolution of 0.1°C



- Self-closing door with magnetic gasket for positive seal
- Multiple alarm functions for safer monitoring

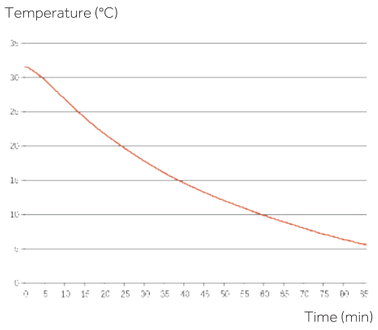
* ①&②: Tested by TUV according to DIN13277



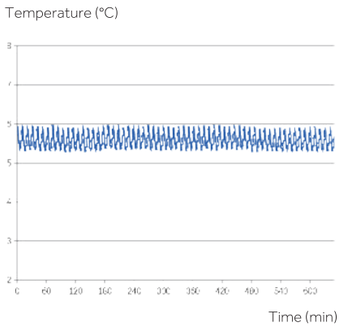
HYC-1031GD

Cabinet Temperature

HYC-1031GD
Cooling down (ambient 32°C)

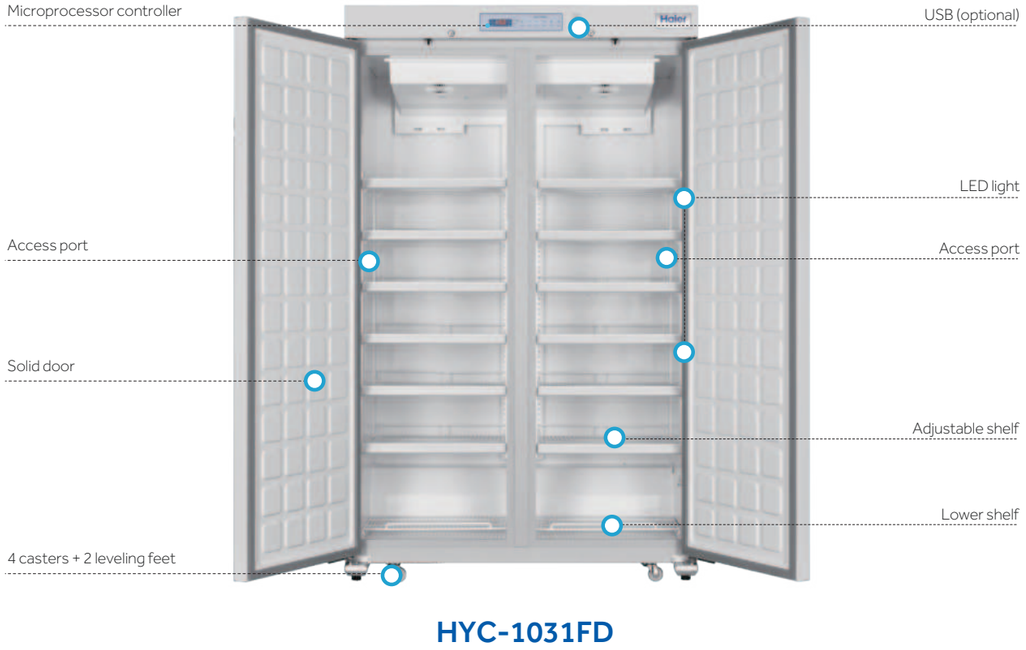


HYC-1031GD
Stability (ambient 25°C)



New Generation Pharmacy Refrigerator

Used for storage of medicines, vaccines, reagents, biological products and other items that require a temperature between 2-8° C in hospitals, pharmacies, pharmaceutical factories, clinics and laboratories etc.



HYC-1031FD

Product Advantages



Eco-friendly hydrocarbon refrigerant (R290) and CFC- free polyurethane insulation for reduced global warming potential.

Hermetically sealed compressor, forced-air circulation with auto defrost to ensure high cooling performance, temperature uniformity≤±1.5 °C; anti-freezing thermostat is available to protect store items from freezing.

Self-closing door hinge with 90° stop； Magnectic gaskets to ensure a positive seal.

Energy efficient interior LED lighting, side-mounted to enlighten full space.

Optional USB module to easily record and export cabinet temperature and alarm data; optional RS485 port for easily external connection; optional printer to easily export cabinet temp data .

Two 25mm probe access port on each side wall to accept user-provided monitoring equipment.

Multiple alarm functions for safer monitoring, audible/visual alert with mute function; remote alarm contact is equipped as standard.

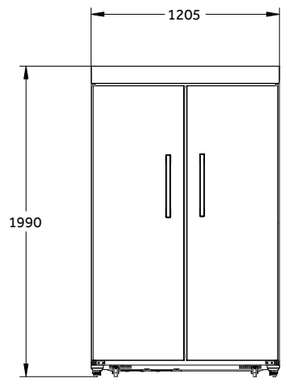
Convenient security with a top-mounted unique-key lock.

4 swivel casters with 2 leveling feet for easily movement and fxing.

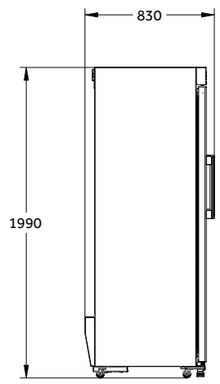
Microprocessor controller, digital display with 0.1° C resolution; easy to check the min/max temperature in the past 24 hours.

Adjustable plastic-coated wire shelves for improved circulation and fexible storage.

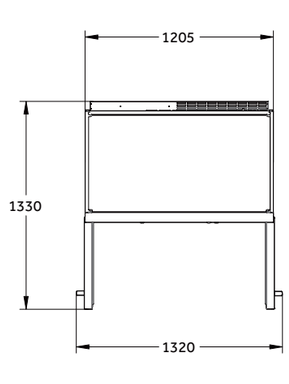
Product Dimension



Front view



Side view



Top view

New Generation Pharmacy Refrigerator

Specifications

Model			HYC-1030GT	HYC-1031GD	HYC-1031FD
Technical Data	Cabinet Type		Upright, Glass Door	Upright, Glass Door	Upright, Solid Door
	Climate Class		N, 16~32°C	N, 16~32°C	N, 16~32°C
	Cooling Type		Forced Air Cooling	Forced Air Cooling	Forced Air Cooling
	Defrost Mode		Auto	Auto	Auto
	Refrigerant		R600a	R290	R290
	Sound Level (dB(A))		37	39	39
Performance	Temperature Range (°C)		2~8	2~8	2~8
Control	Controller		Microprocessor	Microprocessor	Microprocessor
	Display		LED	LED	LED
Electrical Data	Power Supply (V/Hz)		220~240/50/60	220~240/50/60	220~240/50/60
	Electrical Current (A)		2.2	2.2	2.2
Performance Characteristics	Temperature Sensor		NTC	NTC	NTC
	Power Consumption (kWh/24h)		2.2	2.48	2.48
Dimensions	Capacity (L/Cu.Ft)		1030 / 36.4	1031/36.4	1031 / 36.4
	Net/Gross Weight (approx)	(kg)	265/275	255/265	255/265
		(lbs)	584/606	562/584	562/584
	Interior Dimensions (W*D*H)	(mm)	1115*590*1670	1115*590*1670	1115*590*1670
		(in)	43.9*23.2*65.7	43.9*23.2*65.7	43.9*23.2*65.7
	Exterior Dimensions (W*D*H)	(mm)	1205*830*1990	1205*800*1990	1205*830*1990
		(in)	47.4*32.7*78.3	47.4*31.5*78.3	47.4*32.7*78.3
	Packing Dimensions (W*D*H)	(mm)	1310*925*2150	1310*925*2150	1310*925*2150
		(in)	51.6*36.4*84.6	51.6*36.4*84.6	51.6*36.4*84.6
	Container Load (20'/40'/40'H)		10/21/21	10/21/21	10/21/21
Alarms	High/Low Temperature		Y	Y	Y
	High Ambient Temperature		Y	Y	Y
	Door Ajar		Y	Y	Y
	Power Failure		Y	Y	Y
	Low Battery		Y	Y	Y
	Sensor Error		Y	Y	Y
	Communication Failure		Y	Y	Y
	Condenser Heat		Y	Y	Y
	Remote Alarm		Y	Y	Y
	Audible and Visual Alarm		Y	Y	Y
Accessories	Caster		4	4	4
	Foot		2	2	2
	Porthole		2	2	2
	Shelves/Drawers		14/-	14/-	14/-
	Printer		Optional	Optional	Optional
	Chart Recorder		N/A	N/A	N/A
	USB Interface		Standard	Optional	Optional
	RS485		Optional	Optional	Optional
	Electromagnetric Lock		Standard	N/A	N/A
	Plastic Basket		Optional	Optional	Optional
Material	Exterior Material		Painted Steel	Painted Steel	Painted Steel
	Interior Material		Painted Steel	Painted Steel	Painted Steel
	Door Thickness (mm)		50	50	50
	Cabinet Thickness (mm)		45	45	45
	Shelves Material		Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic
	No. of Shelves		12+2	12+2	12+2
Others	Certification		CE, DIN13277 (Optional)	CE, DIN13277 (Optional)	CE, DIN13277 (Optional)

*Haier Biomedical reserves the right to change products and specifications without prior notice.

Used for storage of medicines, vaccines, reagents, biological products and other items that require a temperature between 2-8° C in hospitals, pharmacies, pharmaceutical factories, clinics and laboratories etc.

Product Advantages

- Eco-friendly hydrocarbon refrigerant (R600a) and CFC- free polyurethane insulation for reduced global warming potential
- Triple-paned tempered glass door with frame heater to reduce condensation even at 32° C, 80% RH ambient; self-closing door hinge; magnetic gaskets to ensure a positive seal
- Hermetically sealed compressor, forced-air circulation with auto defrost to ensure superior cooling performance, temperature uniformity ≤ ±1.5°C; and a anti-freezing thermostat is available to protect store items from freezing
- Energy efficient interior LED lighting, side-mounted to enlighten full space
- Optional USB module to easily record and export cabinet temperature and alarm data; optional RS485 port for effortless external connection; and optional printer to export cabinet temperature data
- A ϕ 25mm probe access port is standard on side wall to accept user-provided monitoring equipment
- Multiple alarm functions for safer monitoring, audible/visual alert with mute function; remote alarm contact is equipped as standard
- 4 swivel casters with 2 leveling feet for easy movement and fixing
- Convenient security with a top-mounted unique-key lock
- Microprocessor controller, digital display with 0.1°C resolution; easy to check the min/max temperature in the past 24 hours; password protect function is available to avoid unauthorized setting.
- Adjustable plastic-coated wire shelves for improved circulation and flexible storage



HYC-461GD

New Generation Pharmacy Refrigerator

Specifications

Model			HYC-461GD
Technical Data	Cabinet Type		Upright, Glass Door
	Climate Class		N, 16~32°C
	Cooling Type		Forced Air Cooling
	Defrost Mode		Auto
	Refrigerant		R600a
	Sound Level (dB(A))		37
Performance	Temperature Range (°C)		2~8
Control	Controller		Microprocessor
	Display		LED
Electrical Data	Power Supply (V/Hz)		220~240/50
	Electrical Current (A)		1.7
Performance Characteristics	Temperature Sensor		NTC
	Power Consumption (kWh/24h)		1.85
Dimensions	Capacity (L/Cu.Ft)		461/16.3
	Net/Gross Weight (approx)	(kg)	115/125
		(lbs)	254/276
	Interior Dimensions (W*D*H)	(mm)	500*590*1670
		(in)	19.7*23.2*65.7
	Exterior Dimensions (W*D*H)	(mm)	595*800*1990
		(in)	23.4*31.5*78.3
	Packing Dimensions (W*D*H)	(mm)	720*930*2100
		(in)	28.3*36.6*82.7
	Container Load (20'/40'/40'H)		18/37/37
Alarms	High/Low Temperature		Y
	High Ambient Temperature		Y
	Door Ajar		Y
	Power Failure		Y
	Low Battery		Y
	Sensor Error		Y
	Communication Failure		Y
	Condenser Heat		Y
	Remote Alarm		Y
Accessories	Caster		4
	Foot		2
	Porthole		2
	Shelves/Drawers		6/-
	Printer		Optional
	USB Interface		Optional
	RS485		Optional
Material	Exterior Material		Painted Steel
	Interior Material		Polystyrene
	Door Thickness (mm)		50
	Cabinet Thickness (mm)		45
Others	Certification		CE, DIN13277 (Optional)

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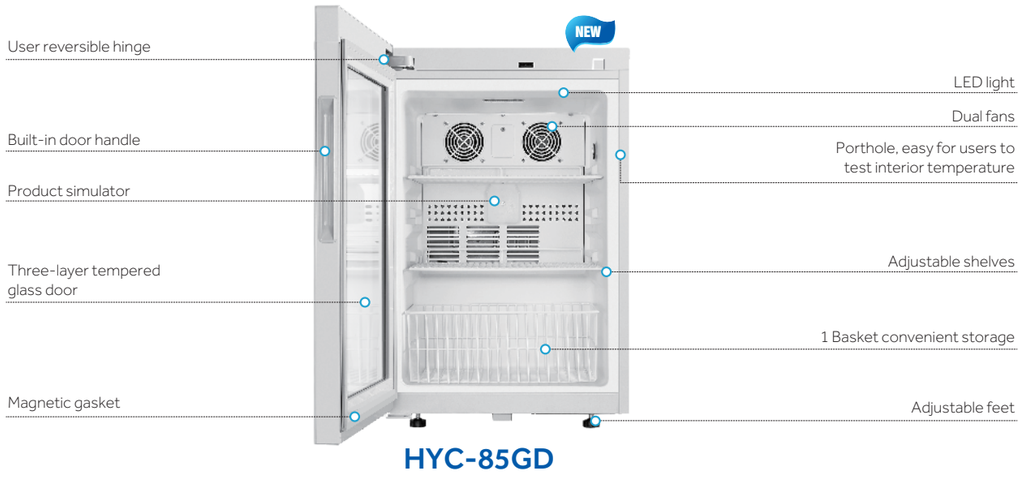
Used for storage of medicines, vaccines, reagents, biological products and other items that require a temperature between 2-8°C in hospitals, pharmacies, pharmaceutical factories, clinics and laboratories etc.

Product Advantages

- User reversible door hinge
- Intelligent anti-condensation: triple-paned tempered glass door with door frame heater, effectively reduces condensation even at 32°C, 80% RH ambient temperature
- Excellent performance: temperature uniformity ≤±1°C ①
- Optional USB and RS485, easy to export temperature data
- Quiet operation: 35dB (A)
- Eco-friendly hydrocarbon refrigerant (R600a) and CFC-free polyurethane insulation for reduced global warming
- Magnetic gasket for positive seal
- Hermetically sealed compressor, forced-air circulation and automatic defrost to ensure high cooling performance
- Multiple alarms for safer monitoring
- Microprocessor controller, display with resolution of 0.1°C

* ①Tested by TUV according to DIN13277

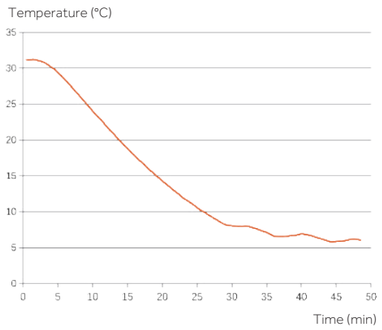
New Generation Pharmacy Refrigerator



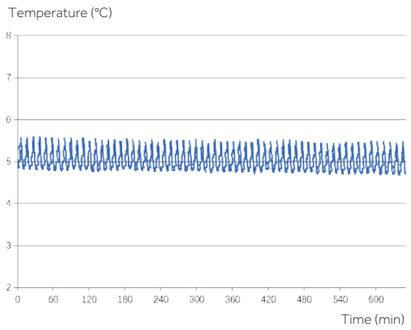
HYC-85GD

Cabinet Temperature

HYC-85GD
Cooling down (ambient 32°C)



HYC-85GD
Stability (ambient 25°C)



Specifications

Model			HYC-85GD
Technical Data	Cabinet Type		Counter-Top / Under-Counter, Glass Door
	Climate Class		N, 16~32°C
	Cooling Type		Forced Air Cooling
	Defrost Mode		Auto
	Refrigerant		R600a, 45g
	Sound Level (dB(A))		35
Performance	Temperature Range (°C)		2~8
Control	Will the fan stop automatically when opening the door		Y
	Controller		Microprocessor
	Display		LED
Electrical Data	Power Supply (V/Hz)		220~240/50
	Electrical Current (A)		0.98
Performance Characteristics	Temperature Sensor		NTC
	Power Consumption (kWh/24h)		0.99
Dimensions	Capacity (L/Cu.Ft)		85/3.0
	Net/Gross Weight (approx)	(kg)	36 / 41
		(lbs)	79.4 / 90.4
	Interior Dimensions (W*D*H)	(mm)	405*405*555
		(in)	15.9*15.9*21.9
	Exterior Dimensions (W*D*H)	(mm)	495*550*740
		(in)	19.5*21.7*29.1
	Packing Dimensions (W*D*H)	(mm)	590*650*830
		(in)	23.2*25.6*32.7
	Container Load (20'/40'/40'H)		54/120/180
Alarms	High/Low Temperature		Y
	High Ambient Temperature		Y
	Door Ajar		Y
	Power Failure		Y
	Low Battery		Y
	Sensor Error		Y
	Communication Failure		Y
	Condenser Heat		N
	Remote Alarm		Y
	Audible and Visual Alarm		Y
Accessories	Caster		2
	Foot		2
	Porthole		1
	Shelves/Basket		2/1
	USB Interface		Optional
	RS485		Optional
Material	Exterior Material		Painted Steel
	Interior Material		Polystyrene
	Door Thickness (mm)		50
	Cabinet Thickness (mm)		45
	Shelves Material		Steel Wire, Coated with Plastic
Others	Certification		CE, UKCA, DIN13277 (Optional)

*Haier Biomedical reserves the right to change products and specifications without prior notice.

RFID Refrigerator

Smart Management of Medicine and Reagents Starts with IoT Technology

Perform statistical analysis of market data and medicine or reagents usage to report on market trends providing highly useful feedback to production and sales.



HYC-509R



Smart IoT System Makes Storage Management Simple, Precise and Effective

RFID based smart IoT management system permits automatic management of stored products are automatically



Smart RFID label



Smart RFID shelf



Industrial-grade IoT Network Module Group

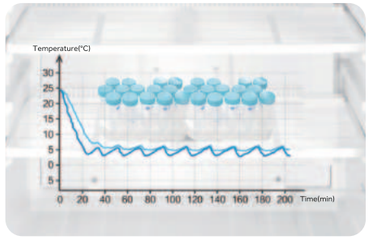


Authorized Management for Material Flow at Controllable Risk

NFC authorized management system is traceable.



Statistical Analysis of Test Data, Precise Verification and Scientific Instruction



Precise Temperature Control Ultimate Safety of Test Reagents

2°C - 8°C storage temperature,real-time monitoring of cabinet temperature



Intelligent Accurate Recording

Intelligent touch screen for quick check of warehouse in-and-out records

Manage Market Data to Support Scientific Production Scheduling

Perform statistical analysis of market data and medicine or reagents usage to report on market trends providing highly useful feedback to production and sales.

Effective Management of Sales Channels

Sales channels can provide timely feedback information to improve shipping, refilling, dispatching and inventory control, to provide continuity on supply and to optimize inventory level.

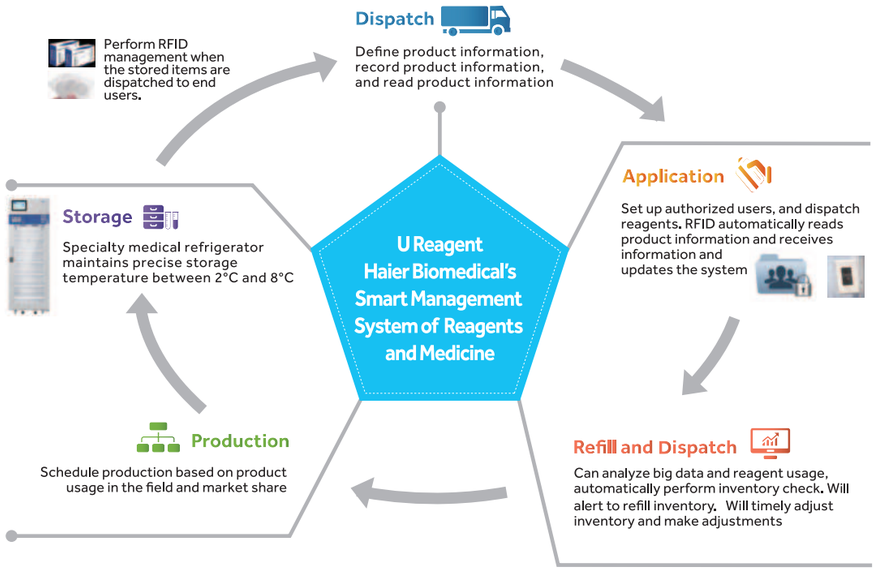
Reagent Handling Process is Traceable and Controllable

Shipping and receiving processes of reagents are automatically monitored and controlled for authorized users. Every box of reagents is traceable.

Yes

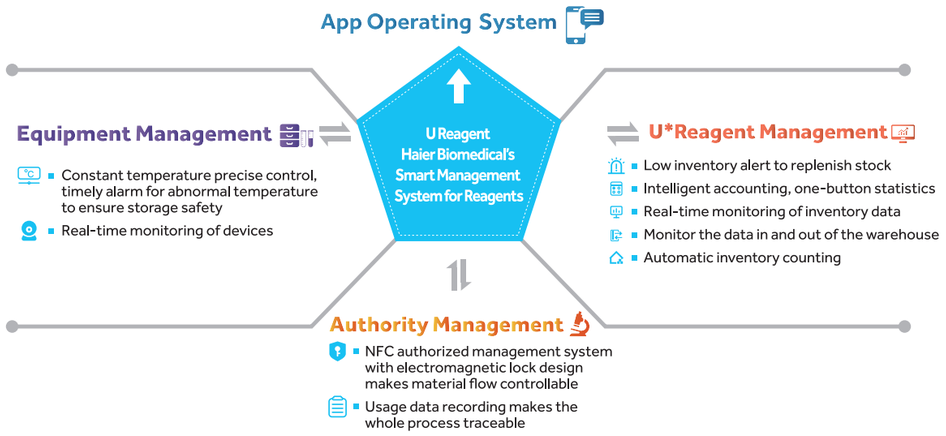
Smart Management of Products

(It is suitable for manufacturing industry)



From storage to use, the entire process is automatically and smartly controlled

(It is suitable for pharmaceutical factories, laboratories and hospitals)



Product Specification

	Model		HYC-509R
Technical Data	Cabinet Type		Upright, Single Glass Door
	Climate Class		N
	Cooling Type		Forced Air Cooling
	Defrost Mode		Auto
	Refrigerant		R600a
	Sound Level (dB(A))		40
Performance	Temperature Range (°C)		2~8
Control	Controller		Microprocessor
	Display		Touchscreen + LED
Electrical Data	Power Supply (V/Hz)		220~240/50/60
	Electrical Current (A)		2
	Power Consumption (kWh/day)		6
Dimensions	Capacity (L/Cu.Ft)		509/17.97
	Net/Gross Weight (approx)	(kg)	180/215
		(lbs)	396/473
	Interior Dimensions (W*D*H)	(mm)	593*585*1500
		(in)	23.21*22.9*58.8
	Exterior Dimensions (W*D*H)	(mm)	693*813*1981
		(in)	27.1*31.9*77.7
	Packing Dimensions (W*D*H)	(mm)	835*915*2170
		(in)	32.9*36.0*85.4
	Container Load (20'/40'/40'H)		14/28/28
Alarms	High/Low Temperature		Y
	High Ambient Temperature		Y
	Remote Alarm		Y
	Power Failure		Y
	Low Battery		Y
	Door Ajar		Y
Accessories	Caster		Y
	Foot		Y
	Porthole		Y
	Shelves/Drawers		6
	USB Interface		Y
Others	Certification		CE

*Haier Biomedical reserves the right to change products and specifications without prior notice.

Advanced Pharmacy Refrigerator with Touchscreen



HYC-1099TF HYC-509T HYC-1099T HYC-509TF

Product Advantages

- Microprocessor controller, 7-inch touch screen, easy to check the cabinet temperature graph, alarm & event records and other information; authority management is standard to avoid unauthorized access or incorrect settings
- Excellent cooling performance, temperature uniformity ≤±2° C; anti-freezing thermostat is equipped as standard, DIN13277 compliance
- Double-paned tempered glass door with electronic heater to reduce condensation even at 32°C, 80% RH ambient; self-closing door hinge with 90 ° stop; magnetic gaskets to ensure a positive seal (Solid door type is also available upon request)
- Electromagnetic lock is standard to avoid unauthorized access
- Energy efficient interior LED lighting
- Standard USB module to conveniently record and export cabinet temperature and alarm data; standard RS485 port and remote alarm contact for efficient external connection; optional printer to export cabinet temperature data
- Eco-friendly hydrocarbon refrigerant (R600a) and CFC-free polyurethane insulation for reduced global warming
- Hermetically sealed compressor, forced-air circulation with auto defrost to ensure high cooling performance
- Multiple alarm functions for safer monitoring, audible/visual alert with mute function; remote alarm contact is equipped as standard
- Adjustable plastic-coated wire shelves for improved circulation and flexible storage; fully extendable ABS drawer with divider is optional
- 25mm probe access port on side wall to accept user-provided monitoring equipment
- 4 universal casters with 2 leveling feet

Advanced Pharmacy Refrigerator with LED Display



HYC-1099F HYC-509 HYC-1099 HYC-509F

Product Advantages

- Double-paned tempered glass door with electronic heater to reduce condensation even at 32°C, 80% RH ambient; self-closing door hinge with 90 ° stop; magnetic gaskets to ensure a positive seal
- Microprocessor controller, digital display with 0.1°C resolution; easy to check the min/max temperature in the past 24 hours
- Adjustable plastic-coated wire shelves for improved circulation and flexible storage; fully extendable ABS drawer with divider is optional
- Convenient security with a top-mounted unique-key lock; electromagnetic lock is optional to avoid unauthorized access
- Eco-friendly hydrocarbon refrigerant (R600a) and CFC-free polyurethane insulation for reduced global warming
- Energy efficient interior LED lighting
- Standard USB module to conveniently record and export cabinet temperature and alarm data; Standard RS485 port and remote alarm contact for efficient external connection; optional printer to export cabinet temperature data
- Multiple alarm functions for safer monitoring, audible/visual alert with mute function; remote alarm contact is equipped as standard
- Excellent cooling performance, temperature uniformity ≤±2° C; anti-freezing thermostat is equipped as standard, DIN13277 compliance
- Hermetically sealed compressor, forced-air circulation with auto defrost to ensure high cooling performance
- 25mm probe access port on side wall to accept user-provided monitoring equipment
- 4 universal casters with 2 leveling feet

Advanced Pharmacy Refrigerator with Touchscreen

Advanced Pharmacy Refrigerator with LED Display

Specifications

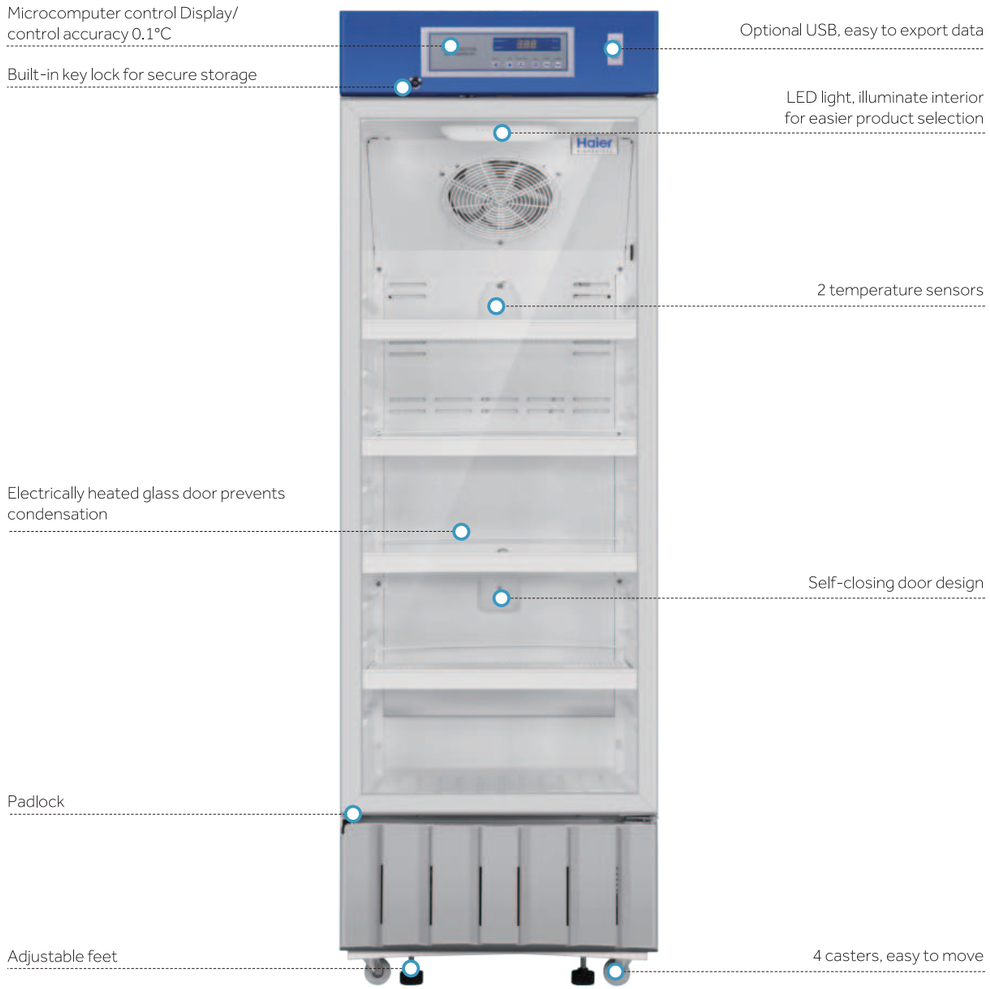


	Model		HYC-509T	HYC-509TF	HYC-1099T	HYC-1099TF	HYC-509	HYC-509F	HYC-1099	HYC-1099F
Technical Data	Cabinet Type		Upright, Single Glass Door	Upright, Single Solid Door	Upright, Double Glass Door	Upright, Double Solid Door	Upright, Single Glass Door	Upright, Single Solid Door	Upright, Double Glass Door	Upright, Double Solid Door
	Climate Class		N	N	N	N	N	N	N	N
	Cooling Type		Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling
	Defrost Mode		Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto
	Refrigerant		R600a	R600a	R600a	R600a	R600a	R600a	R600a	R600a
	Sound Level (dB(A))		40	40	43	43	40	40	43	43
Performance	Temperature Range (°C)		2~8	2~8	2~8	2~8	2~8	2~8	2~8	2~8
Control	Will the fan stop automatically when opening the door		Y	Y	Y	Y	Y	Y	Y	Y
	Controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display		Touchscreen	Touchscreen	Touchscreen	Touchscreen	LED	LED	LED	LED
Electrical Data	Power Supply (V/Hz)		220~240/50/60	220~240/50/60	220~240/50/60	220~240/50/60	220~240/50/60	220~240/50/60	220~240/50/60	220~240/50/60
	Electrical Current (A)		1.85	1.75	2.5	2.25	1.85	1.75	2.5	2.25
Performance Characteristics	Temperature Sensor		PT100 + NTC	PT100 + NTC	PT100 + NTC	PT100 + NTC	PT100 + NTC	PT100 + NTC	PT100 + NTC	PT100 + NTC
	Power Consumption(kWh/24h)		5.9	5.3	6.8	6	5.9	5.3	6.8	6
	Capacity (L/Cu.Ft)		509/17.97	509/17.97	1099/38.5	1099/38.5	509/17.97	509/17.97	1099/38.5	1099/38.5
	Net/Gross Weight (approx)	kg	180/215	175/210	340/400	330/390	180/215	175/210	340/400	330/390
		lbs	396/473	385/462	748/1000	726/858	396/473	385/462	748/1000	726/858
Dimensions	Interior Dimensions (W*D*H)	mm	593*585*1500	593*585*1500	1295*585*1500	1295*585*1500	593*585*1500	593*585*1500	1295*585*1500	1295*585*1500
		in	23.21*22.9*58.8	23.21*22.9*58.8	50.7*22.9*58.8	50.7*22.9*58.8	23.21*22.9*58.8	23.21*22.9*58.8	50.7*22.9*58.8	50.7*22.9*58.8
	Exterior Dimensions (W*D*H)	mm	693*813*1981	693*813*1981	1395*813*1981	1395*813*1981	693*813*1981	693*813*1981	1395*813*1981	1395*813*1981
		in	27.1*31.9*77.7	27.1*31.9*77.7	54.7*31.9*77.7	54.7*31.9*77.7	27.1*31.9*77.7	27.1*31.9*77.7	54.7*31.9*77.7	54.7*31.9*77.7
	Packing Dimensions (W*D*H)	mm	835*915*2170	835*915*2170	1550*895*2100	1550*895*2100	835*915*2170	835*915*2170	1550*895*2100	1550*895*2100
		in	32.9*36.0*85.4	32.9*36.0*85.4	61.0*35.3*82.7	61.0*35.3*82.7	32.9*36.0*85.4	32.9*36.0*85.4	61.0*35.3*82.7	61.0*35.3*82.7
	Container Load (20'/40'/40'H)		14/28/28	14/28/28	7/15/15	7/15/15	14/28/28	14/28/28	7/15/15	7/15/15
Alarms	High/Low Temperature		Y	Y	Y	Y	Y	Y	Y	Y
	High Ambient Temperature		Y	Y	Y	Y	Y	Y	Y	Y
	Door Ajar		Y	Y	Y	Y	Y	Y	Y	Y
	Power Failure		Y	Y	Y	Y	Y	Y	Y	Y
	Low Battery		Y	Y	Y	Y	Y	Y	Y	Y
	Sensor Error		Y	Y	Y	Y	Y	Y	Y	Y
	Communication Failure		Y	Y	Y	Y	Y	Y	Y	Y
	Remote Alarm		Y	Y	Y	Y	Y	Y	Y	Y
	Audible and Visual Alarm		Y	Y	Y	Y	Y	Y	Y	Y
Accessories	Condesenser Overheat		Y	Y	Y	Y	Y	Y	Y	Y
	Caster		Y	Y	Y	Y	Y	Y	Y	Y
	Foot		Y	Y	Y	Y	Y	Y	Y	Y
	Porthole		Y	Y	Y	Y	Y	Y	Y	Y
	Test Hole		Y	Y	Y	Y	6/Optional	6/Optional	12/Optional	12/Optional
	Shelves/Drawers		6/Optional	6/Optional	12/Optional	12/Optional	Steel Wire Dipping Plastic	Steel Wire Dipping Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic
	Drawer Material		Steel Wire Dipping Plastic	Steel Wire Dipping Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Y	Y	Y	Y
	USB Interface		Y	Y	Y	Y	Y	Y	Y	Y
Material	Exterior Material		Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel
	Interior Material		Painted Steel; Optional Stainless Steel	Painted Steel; Optional Stainless Steel	Painted Steel; Optional Stainless Steel	Painted Steel; Optional Stainless Steel	Painted Steel; Optional Stainless Steel	Painted Steel; Optional Stainless Steel	Painted Steel; Optional Stainless Steel	Painted Steel; Optional Stainless Steel
	Door Thickness (mm)		50	50	50	50	50	50	50	50
	Cabinet Thickness (mm)		Left and Right 50 Up and Down 70	Left and Right 50 Up and Down 70	Left and Right50 Up and Down70	Left and Right50 Up and Down70	Left and Right 50 Up and Down 70	Left and Right 50 Up and Down 70	Left and Right 50 Up and Down 70	Left and Right 50 Up and Down 70
	Shelves Material		Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic
	No. of Shelves		6	6	12	12	6	6	12	12
Others	Certification		CE, UKCA, DIN13277 (Optional)	CE, UKCA, DIN13277 (Optional)	CE, UKCA	CE, UKCA	CE, UKCA, DIN13277 (Optional)	CE, UKCA, DIN13277 (Optional)	CE, UKCA	CE, UKCA

*Haier Biomedical reserves the right to change products and specifications without prior notice.

Standard Pharmacy Refrigerator

The product is used to store biological drugs and items at a temperature of 2-8°C. Typically used within pharmacy, pharma production, public health, hospitals and other life science laboratories.



HYC-309

Superior performance

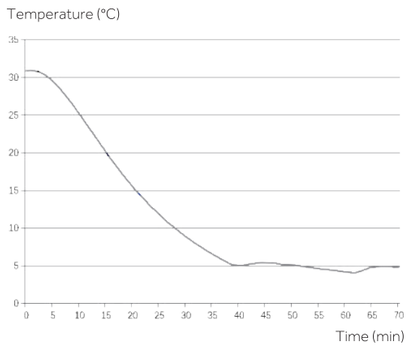
- Microcomputer controller, display/control accuracy 0.1°C
- Temperature range 2~8°C, temperature uniformity ±2°C
- Energy-efficient conversion compressors and non-toxic, environmentally-friendly hydrocarbon refrigerant
- Self-closing door design
- Electrically heated glass door prevents condensation
- Multiple interface options - USB, RS485 and printer

Safe and reliable

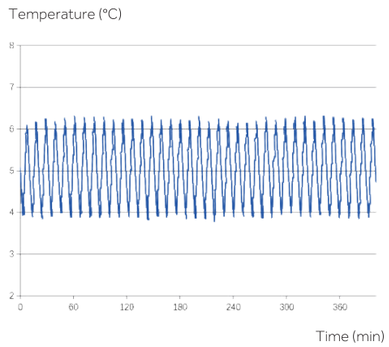
- Key lock and provision for padlock to ensure safe and secure product storage
- Multiple alarms: High/Low temperature alarm, high ambient temperature alarm, door ajar alarm, power failure, low battery, sensor error, comms error and remote alarm contacts
- Alarm mode: Audible/visual and remote alarm with battery back-up which continuously alarms for up to 48 hours in the event of a power failure

Temperature Curve

HYC-309
Cooling down (ambient 32°C)



HYC-309
Stability (ambient 25°C)



Standard Pharmacy Refrigerator

New and improved Haier Biomedical pharmacy refrigerators now offer an improved temperature profile and more user-friendly control features.



HYC-390

Technical Advantages

- Accurate temperature control maintains 2°C to 8°C throughout the unit with an adjustable increment at 0.1°C
- Improved user interface includes a data storage capacity of up to 10 years
- Oversized air–cooled condenser improves the robustness of the refrigeration system, reliability and refrigeration efficiency

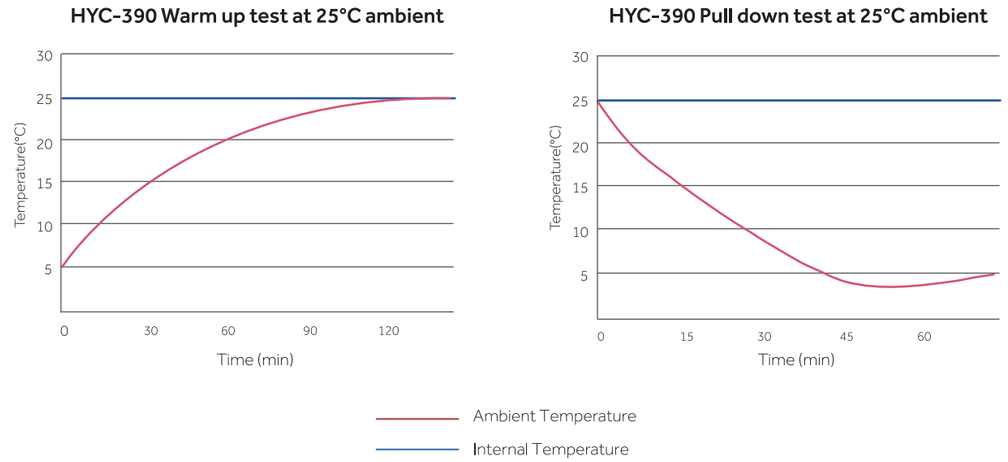
Ergonomic Design

- The temperature data of the newly improved storage management system is downloadable from the USB port
- Traceability of temperature data
- Heated double-pane glass door allows a clear view of stored products without condensation at 32°C and 85% relative humidity ambient conditions
- LED interior light saves energy and provides bright lighting of interior for easy product location and identification
- Shelves with label holders meet demands required for quick and effective product archiving and retrieving

Safety

- Microprocessor control with digital display
- Temperature uniformity within 3°C
- Malfunction alarms include high/low temperature, door ajar, sensor error, power failure, low battery and remote alarm interface

Temperature Curve



Standard Pharmacy Refrigerator

Used for storage of biological products, vaccines, drugs, reagents, etc., the unit is widely used in pharmacies, pharmaceutical factories, hospitals, CDC, laboratories as key examples.



HYC-410

Superior Performance

- Microcomputer controller, LED temperature display, accuracy 0.1°C
- Fin type evaporator and double fan system, temperature uniformity ±2°C
- R600a hydrocarbon refrigerant, LBA foaming agent, energy saving and environmental protection
- Optimized system and structure design, noise down to 41 dB(A)
- Panoramic glass door, LED lighting, goods are clear at a glance
- Heated door to prevent condensation
- Standard with 1 test hole, convenient for user to test interior temperature

Safe

- Equipped with built-in lock and security latch to accommodate a padlock, ensuring safe and reliable storage
- Multiple alarms: High and low temperature, sensor error, power failure, low battery, door ajar, high ambient temperature and communication fault alarm
- Alarm mode: audible buzzer and flashing light, remote alarm. The alarm will continue for 24 hours after power failure

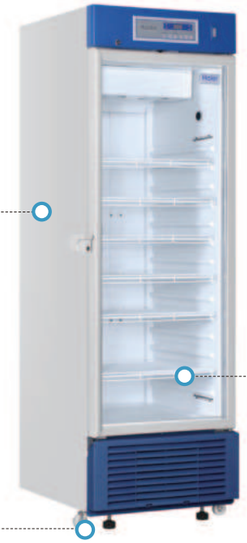
Product Details

Material:

HIPS adsorption liner, sprayed steel case

Caster and foot:

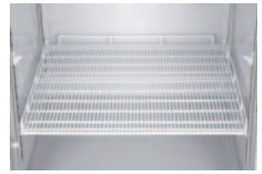
Standard equipped with 4 universal casters and 2 adjustable feet, the refrigerator is easy to move and stabilize



HYC-410

Shelves:

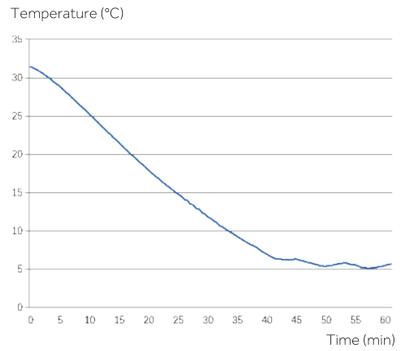
Standard with 6 shelves



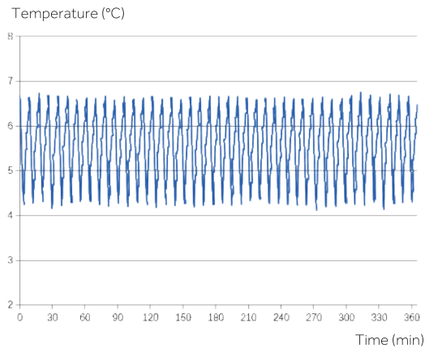
*Optional: USB, printer, RS485/232 interface

Product Performance

HYC-410
Cooling down (ambient 32°C)



HYC-410
Stability (ambient 25°C)



Standard Pharmacy Refrigerator

The product is applicable to pharmacies, pharmaceutical factories, quarantine stations, health centers and hospitals, used to store biological products and those need to be stored at a temperature between 2-8°C.



220V/50HZ 115V/60HZ

HYC-639

Energy saving
70mm thick foam layer, optimized refrigeration system, low power consumption, less than 6 kWh per day

Environmentally-friendly
Hydrocarbon refrigerant, truly completely environmental protection refrigeration system.
Polyurethane insulation layer, the whole series adopts European ROHS directive materials, for environmental protection

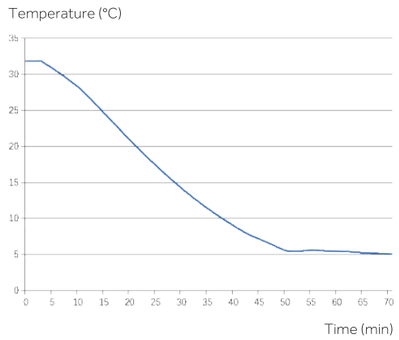
Better uniformity
Finned evaporator, double fan system.
The temperature is more uniform, the characteristic point temperature uniformity is ±2°C

Low noise
Optimized system and structure noise reduction design

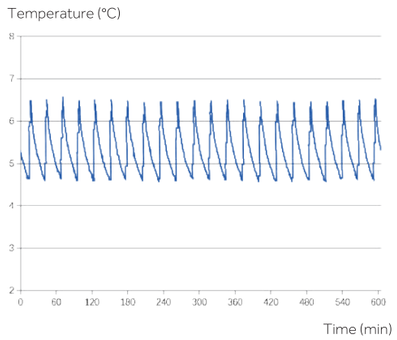
Multi-channel sensor, reliable and safe
Equipped with upper display sensor, lower display sensor, defrosting sensor, control sensor, ambient temperature sensor, condenser dirty sensor

Typical Performance Characteristics in 32°C Ambient Temp

HYC-639
Cooling down (ambient 32°C)



HYC-639
Stability (ambient 25°C)



Microprocessor control system:
Microcomputer electronic temperature controller, LED temperature display, the display accuracy is 0.1°C
Multiple alarm functions, such as high temperature alarm, low temperature alarm, sensor error alarm, power failure alarm, low battery alarm, door ajar, condenser dirty alarm, high ambient temperature alarm as key examples.
Audio and visual alarm. The equipment can be connected to the remote alarm interface

Insulation
70mm-thick foam insulation layer to provide better insulation

Porthole
Standard equipped with a porthole to facilitate the user to test interior temperature

Security lock
Equipped with safety lock , safe storage of drugs

Temperature recorder
Standard equipped with USB port, the printer and RS485 interface are optional



Material
The inner liner is equipped with spraying steel plate for easy cleaning

Casters and levelling leg design
Standard equipped with 4 universal casters and 2 adjustable feet to move and stabilize the equipment

Shelves
Standard equipped with 4 shelves

Standard Pharmacy Refrigerator

The Haier Biomedical pharmacy refrigerators are suitable for pharmacies, drug stores, pharmaceutical companies, hospitals, clinics and other pharmaceutical storage areas such as storage and logistics.



HYC-1378

Durable and Reliable - Key Features

- Energy efficient hydrocarbon (HC) refrigeration system
- Permanently lubricated cooling fan for safety and longevity
- Forced-air cooling with optimized air distribution system designed to achieve maximum temperature uniformity and stability
- Optimized refrigeration system design for more effective cooling and speedy recovery
- Temperature uniformity within ±2°C
- Chamber temperature range 2~8°C
- Microprocessor control with large digital display. Adjustable temperature with an increment of 0.1°C
- Wide voltage tolerance suitable for regions with an unstable voltage supply
- Designed for ambient temperature 10°C~32°C with humidity below 85%

Safety

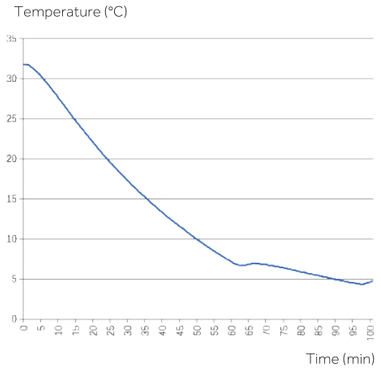
- Equipped with a complete temperature alarm system featuring audible buzzer and visible flashing light
- Capable of alerting failures due to high or low temperature, sensor error, door ajar, remote alarm, power failure and low battery

Ergonomic Design

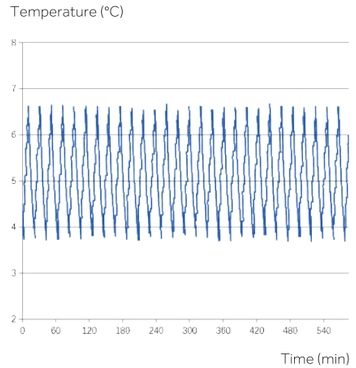
- Optimized space utilization design with multi-level and adjustable shelf height to accommodate the different storage requirements of varied sized pharmaceutical products.
- Safety lock to prevent unauthorized access
- Caster design and levelling feet
- Interior light

Product Performance

HYC-1378
Cooling down (ambient 32°C)



HYC-1378
Stability (ambient 25°C)



Under-Counter Pharmacy Refrigerator

Easy to Install, Ergonomic and Reliable

Haier Biomedical are pioneers in under-counter pharmacy refrigerator design and manufacturing, offering ultra-low noise system, safety lock, complete alarm system for sample safety and protection.





HYC-118 HYC-118A

Reliability and Key Features

- Energy efficient hydrocarbon (HC) refrigeration system
- Permanently lubricated cooling fan for safety and longevity
- Forced-air cooling with optimized air distribution system designed to achieve maximum temperature uniformity and stability
- Optimized refrigeration system design for more effective cooling and speedy recovery
- Temperature uniformity within ±3°C
- Chamber temperature range 2~8°C
- Microprocessor control, digital display and temperature adjustment with an increment of 0.1°C
- Designed for ambient temperature 10~32°C with humidity below 70%

Safety

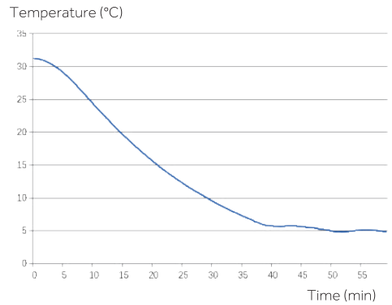
- Equipped with a complete temperature alarm system featuring audible buzzer and visual flashing light
- Capable of alerting failures due to high and low temperature, sensor error, door ajar, power failure, and remote alarm interface

Ergonomic Design

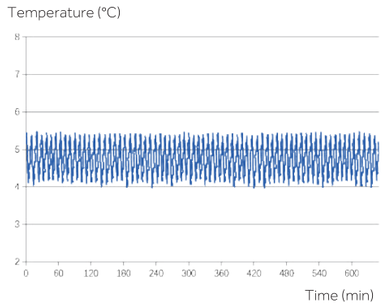
- Interior LED light
- Safety lock to prevent unauthorized access

Product Performance

HYC-118A
Cooling down (ambient 32°C)



HYC-118A
Stability (ambient 25°C)



Pharmacy Refrigerator

Specifications









Model			HYC-390F	HYC-610	HYC-639	HYC-290	HYC-309	HYC-390	HYC-410
Technical Data	Cabinet Type		Upright, Single door	Upright, Single Door	Upright, Single Door	Upright, Single Door	Upright, Single Door	Upright, Single Door	Upright, Single Door
	Climate Class		N	N	ST	ST	N	N	N
	Cooling Type		Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling
	Defrost Mode		Auto	Auto	Auto	Auto	Auto	Auto	Auto
	Refrigerant		R600a	R600a	R600a	R600a	R600a	R600a	R600a
	Sound Level (dB(A))		43	43 / 45	43	43	41	43	41
Performance	Temperature Range (°C)		2~8	2~8	2~8	2~8	2~8	2~8	2~8
Control	Will the fan stop automatically when opening the door		Y	Y	Y	Y	Y	Y	Y
	Controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display		LED	LED	LED	LED	LED	LED	LED
Electrical Data	Power Supply (V/Hz)		220~240/50/60 / 115/60	220~240/50/60 / 115/60	220~240/50	220~240/50/60 / 115/60	220~240/ 50/60	220~240/50/60 / 115/60	220~240/50
	Electrical Current (A)		1 / 1.5	3 / 6.2	2.15	1.8 / 2.2	1.9	1.8 / 2.4	2.0
Performance Characteristics	Temperature Sensor		Digital Sensor	Digital Sensor	NTC	Digital Sensor	NTC	Digital Sensor	NTC
	Power Consumption(kWh/24h)		1.5 / 2.5	6.6 / 5.5	6	4.4 / 5.1	4.5	43	5.5
	Capacity (L/Cu.Ft)		390/13.8	610/21.6	639/22.6	290/10.2	309/10.9	390/13.8	410/14.5
	Net/Gross Weight (approx)	(kg)	106/129	204/227	200/240	105/127	77/87	116/139	116/139
		(lbs)	233.8/284.5	449.7/500.4	551.15/639.33	231.6/280.1	170/192	255.8/306.6	255.7/306.4
Dimensions	Interior Dimension (W*D*H)	(mm)	530*555*1380	680*640*1400	620*706*1520	530*555*1080	525*500*1290	530*555*1380	530*590*1380
		(in)	20.9*21.9*54.3	26.8*25.2*55.1	24.4*27.8*59.8	20.9*21.9*42.5	20.7*19.7*50.8	20.9*21.9*54.3	20.9*22.8*54.3
	Exterior Dimension (W*D*H)	(mm)	665*710*1965	780*840*1945	760*897*1993	665*710*1665	600*630*1840	665*710*1965	665*710*1965
		(in)	26.2*28.0*77.4	30.7*33.1*76.6	29.9*35.3*78.5	26.2*28.0*65.6	23.6*24.8*72.4	26.2*28.0*77.4	26.2*28.0*77.4
	Packing Dimension (W*D*H)	(mm)	710*810*2130	885*965*2110	910*1030*2170	700*810*1810	680*690*1940	710*810*2130	710*810*2130
		(in)	27.6*31.9*83.9	34.8*38.0*83.1	35.8*40.6*85.4	27.6*31.9*71.3	26.8*27.1*74.4	27.6*31.9*83.9	27.6*31.9*83.9
	Container Load (20'/40'/40'H)		22/44/44	12/26/26	12/24/24	22/44/44	24/51/51	22/44/44	22/44/44
Alarms	High/Low Temperature		Y	Y	Y	Y	Y	Y	Y
	Remote Alarm		Y	Y	Y	Y	Y	Y	Y
	Power Failure		Y	Y	Y	Y	Y	Y	Y
	Sensor Error		Y	Y	Y	Y	Y	Y	Y
	Low Battery		Y	Y	Y	Y	Y	Y	Y
	Door Ajar		Y	Y	Y	Y	Y	Y	Y
	Audible and Visual Alarm		Y	Y	Y	Y	Y	Y	Y
Accessories	Caster		Y	Y	Y/4	Y	Y	Y	4
	Foot		Y	Y	Y/2	Y	Y	Y	2
	Porthole		Y	Y	Y	Y	Y	Y	Y
	Shelves/Drawers		7/-	6/-	4/-	5/-	6/-	7/-	6 /-
	USB Interface		Optional / Y	Optional	Y	Optional / Y	Optional	Optional / Y	Optional
	Printer		Optional	/	Optional	Optional	Optional	Optional	Optional
Material	Exterior Material		Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel
	Interior Material		Polystyrene	Stainless Steel	Painted Steel, Optional Stainless Steel	Polystyrene	Polystyrene	Polystyrene	Polystyrene
	Door Thickness (mm)		40	40	30	40	40	40	45
	Cabinet Thickness (mm)		40	50	70	40	38	40	40
	Shelves Material		Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic
	No. of Shelves		7	6	4	5	5	7	6
	Temperature Recorder		/	Optional	Optional	/	/	/	N/A
Other	Certificate		CE / UL	CE / UL	CE, UKCA	CE / UL	CE, UKCA	CE / UL	CE, ENERGY STAR

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Pharmacy Refrigerator

Specifications





	Model		HYC-940		HYC-940F	HYC-1378	
Technical Data	Cabinet Type		Upright, Double Glass Door		Upright, Double Solid Door	Upright, Double Door	
	Climate Class		N		N	N	
	Cooling Type		Forced Air Cooling		Forced Air Cooling	Forced Air Cooling	
	Defrost Mode		Auto		Auto	Auto	
	Refrigerant		R290		R290	R290	
	Sound Level (dB(A))		43	45	43	43	45
Performance	Temperature Range (°C)		2-8		2-8	2-8	
Control	Will the fan stop automatically when opening the door		Y		Y	Y	
	Controller		Microprocessor		Microprocessor	Microprocessor	
	Display		LED		LED	LED	
Electrical Data	Power Supply (V/Hz)		220~240/50/60	115/60	220~240/50/60	220~240/50/60	115/60
	Electrical Current (A)		3.5	7.5	2.7	3	7.5
Performance Characteristics	Temperature Sensor		NTC		NTC	NCT	
	Power Consumption(kWh/24h)		11		11	11	12.47
Dimensions	Capacity (L/Cu.Ft)		890/31.4		890/31.4	1378/48.7	
	Net/Gross Weight (approx)	(kg)	227/279		207/259	310/360	
		(lbs)	500.4/615.1		456.4/571.1	683.4/793.7	
	Interior Dimension (W*D*H)	(mm)	1030*590*1425		1030*590*1425	1320*700*1500	
		(in)	40.6*23.2*56.1		40.6*23.2*56.1	52.0*27.6*59.1	
	Exterior Dimension (W*D*H)	(mm)	1130*755*1980		1130*755*1980	1440*950*1980	
		(in)	44.5*29.7*78.0		44.5*29.7*78.0	56.7*37.4*78.0	
	Packing Dimension (W*D*H)	(mm)	1250*850*2170		1250*850*2170	1620*1040*2140	
		(in)	49.2*33.5*85.4		49.2*33.5*85.4	63.8*41.0*84.3	
	Container Load (20'/40'/40'H)		10/22/22		10/22/22	6/14/14	
Alarms	High/Low Temperature		Y		Y	Y	
	Remote Alarm		Y		Y	Y	
	Power Failure		Y		Y	Y	
	Sensor Error		Y		Y	Y	
	Low Battery		Y		Y	Y	
	Door Ajar		Y		Y	Y	
	Audible and Visual Alarm		Y		Y	Y	
Accessories	Caster		Y		Y	Y	
	Foot		Y		Y	Y	
	Porthole		Y		Y	Y	
	Shelves/Drawers		12/-		12/-	12/-	
	USB Interface		Optional		Optional	Y	
	Printer		Optional		Optional	Optional	
	Chart Recorder		N/A		N/A	Optional	
Material	Exterior Material		Painted Steel		Painted Steel	Painted Steel	
	Interior Material		Painted Steel		Painted Steel	Painted Steel	
Other	Certificate		CE	UL	CE	CE	UL

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Pharmacy Refrigerator

Specifications






Model			HYC-68		HYC-68A		HYC-118		HYC-118A	
Technical Data	Cabinet Type		Upright, Solid Door		Upright, Glass Door		Upright, Solid Door		Upright, Glass Door	
	Climate Class		N		N		N		N	
	Cooling Type		Forced Air Cooling		Forced Air Cooling		Forced Air Cooling		Forced Air Cooling	
	Defrost Mode		Auto		Auto		Auto		Auto	
	Refrigerant		R600a		R600a		R600a		R600a	
	Sound Level (dB(A))		41		41		41		41	
Performance	Temperature Range (°C)		2~8		2~8		2~8		2~8	
Control	Will the fan stop automatically when opening the door		Y		Y		Y		Y	
	Controller		Microprocessor		Microprocessor		Microprocessor		Microprocessor	
	Display		LED		LED		LED		LED	
Electrical Data	Power Supply (V/Hz)		220~240/50	115/60	220~240/50	115/60	220~240/50/60	115/60	220~240/50/60	115/60
	Electrical Current (A)		0.85	2.5	0.85	1.7	1.4		1.5	
Performance Characteristics	Temperature Sensor		NTC		NTC		NTC		NTC	
	Power Consumption(kWh/24h)		0.6		0.9	0.67	0.42		1.7	1.94
	Temperature Sensor or Not		Y		Y		Y		Y	
Dimensions	Capacity (L/Cu.Ft)		68/2.4		68/2.4		118/4.2		118//4.2	
	Net/Gross Weight (approx)	(kg)	38/40		38/40		41/46		46/51	
		(lbs)	83.8/88.2		83.8/88.2		90.5/101.5		101.5/112.5	
	Interior Dimension (W*D*H)	(mm)	415*385*505		415*385*505		515*415*630		515*415*630	
		(in)	16.3*15.2*19.9		16.3*15.2*19.9		20.3*16.3*24.8		20.3*16.3*24.8	
	Exterior Dimension (W*D*H)	(mm)	495*580*660		495*580*660		597*635*810		597*635*810	
		(in)	19.5*22.8*26.0		19.5*22.8*26.0		23.5*25.0*31.9		23.5*25.0*31.9	
	Packing Dimension (W*D*H)	(mm)	570*670*750		570*670*750		700*710*930		700*710*930	
		(in)	22.5*26.4*29.5		22.5*26.4*29.5		27.6*28.0*36.6		27.6*28.0*36.6	
	Container Load (20'/40'/40'H)		102/207/207		102/207/207		48/96/96		48/96/96	
Alarms	High/Low Temperature		Y		Y		Y		Y	
	Remote Alarm		Y		Y		Y		Y	
	Power Failure		Y		Y		Y		Y	
	Sensor Error		Y		Y		Y		Y	
	Low Battery		Y		Y		Y		Y	
	Audible and Visual Alarm		Y		Y		Y		Y	
	Door Ajar		Y		Y		Y		Y	
Accessories	Caster		N		N		Y/2		Y/2	
	Foot		Y/2		Y/2		Y/2		Y/2	
	Porthole		Y		Y		Y		Y	
	Shelves/Drawers		2/1		2/1		3/1		3/1	
	USB Interface		Optional		Optional		/		/	
Material	Exterior Material		Painted Steel		Painted Steel		Painted Steel		Painted Steel	
	Interior Material		Polystyrene		Polystyrene		Polystyrene		Polystyrene	
	Drawers Material		Steel Wire Dipping Plastic		Steel Wire Dipping Plastic		Steel Wire Dipping Plastic		Steel Wire Dipping Plastic	
	Door Thickness (mm)		30		30		40		40	
	Cabinet Thickness (mm)		30		30		40		40	
	Shelves Material		Steel Wire, Coated with Plastic		Steel Wire, Coated with Plastic		Steel Wire, Coated with Plastic		Steel Wire, Coated with Plastic	
	No. of Shelves		2		2		3		3	
Other	Certificate		CE, UKCA	UL	CE, UKCA	UL	CE,UKCA	UL	CE,UKCA	UL

*Haier Biomedical reserves the right to change products and specifications without prior notice.

Combined Refrigerator and Freezer

Scope of Application

This product is designed to store frozen plasma, biomaterials, vaccines, electronic devices and low temperature tests of special materials, in blood stations, hospitals, epidemic prevention stations, universities, scientific research institutes, electronic chemical industry and other enterprise laboratories.



HYCD-282

HYCD-282A

Multipurpose and Space Efficient

- One cabinet with two independent chambers, both are self-contained and independently controlled with individual doors
- Refrigerator chamber is equipped with a double-paned glass viewing window and LED interior lighting

Environment Friendly

Hydrocarbon refrigerant (R600a for refrigerator/ R290 for freezer) and CFC-free polyurethane insulation for reduced global warning

Stainless Steel Interior

The interior of refrigerator and freezer are both made of stainless steel, which is easy to clean and corrosion-proof

Microprocessor Controller with Digital Display

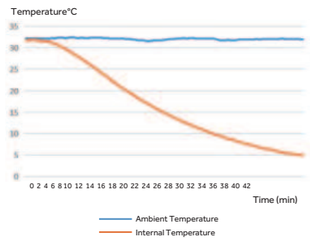
- Refrigerator temperature 2~8°C with resolution of 0.1°C
- Freezer temperature -40~-10°C with resolution of 1°C
- Multiple alarm functions with remote alarm contact to ensure safe monitoring

High Performance

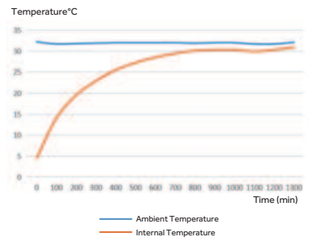
- Refrigerator: Forced-air cooling system with cycle defrost, temperature uniformity±3°C
- Freezer: Cold wall cooling system, manual defrost, temperature uniformity±5°C
- Standard USB port & optional printer, easy to get temperature record

Product Performance

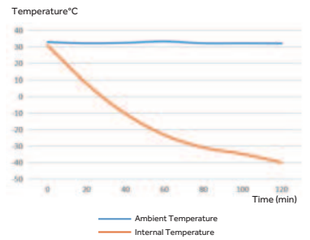
Refrigerator Cool Down Curve



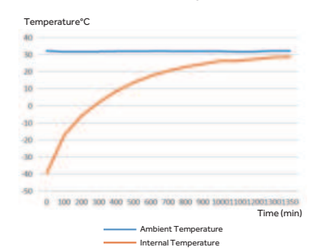
Refrigerator Warm Up Curve



Freezer Cool Down Curve



Freezer Warm Up Curve



Combined Refrigerator and Freezer

Specifications

	Model		HYCD-282		HYCD-282A	
Technical Data	Cabinet Type		Refrigerator	Freezer	Refrigerator	Freezer
			Upright		Upright	
	Climate Class		N		N	
	Cooling Type		Forced air cooling	Direct cooling	Forced air cooling	Direct cooling
	Defrost Mode		Auto	Manual	Auto	Manual
	Refrigerant		HC	HC	HC	HC
	Sound Level (dB(A))		43		43	
Performance	Temperature Range (°C)		Refrigerator: 2~8 / Freezer: -10~-40		Refrigerator: 2~8 / Freezer: -10~-40	
Control	Controller		Microprocessor		Microprocessor	
	Display		LED		LED	
Electrical Data	Power Supply (V/Hz)		220~240/50/60		220~240/50/60	
	Power (W)		410		410	
	Electrical Current (A)		2.5		2.5	
Dimensions	Capacity (L/Cu.Ft)		185/6.5	97/3.4	185/6.5	97/3.4
	Net/Gross Weight (approx)	kg	145/160		145/160	
	Interior Dimensions (W*D*H)	mm	Refrigerator:605*510*720 / Freezer: 515*465*440		Refrigerator:605*510*720 / Freezer: 515*465*440	
	Exterior Dimensions (W*D*H)	mm	735*660*1810		735*660*1810	
	Packing Dimensions (W*D*H)	mm	795*740*2010		795*740*2010	
	Container Load (20'/40'/40'H)		21/43/43		21/43/43	
Alarms	High/Low Temperature		Y		Y	
	Door Ajar		Y		Y	
	Remote Alarm		Y		Y	
	Power Failure		Y		Y	
	Sensor Error		Y		Y	
	Low Battery		Y		Y	
	High Ambient Temp		Y		Y	
Accessories	Caster		Y/4		Y/4	
	Foot		Y/2		Y/2	
	Porthole		Y/2		Y/2	
	Shelves/Drawers		3/1	1/2	3/1	1/2
	Stylus Printer		Optional		Optional	
	USB Interface		Y		Y	
Others	Certification		CE		CE	
Compressor Type			Frequency Conversion Compressor		Frequency Conversion Compressor	
Compressor Quantity			2		2	

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Main Application

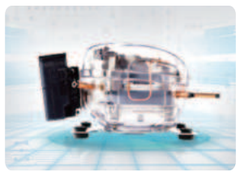
This product is designed to store blood plasma, biological products, vaccines, medicines and chemical reagents.



HYCD-469



Temperature Control



Security Guaranteed



Variable Frequency Hydrocarbon Refrigeration System



Data Storage

Combined Refrigerator and Freezer

Key Features

Temperature Control

•Refrigerator temperature ranges from 2°C to 8°C

•Freezer temperature ranges adjustable from -10°C to -40 °C

•Microprocessor temperature control accuracy 0.1°C (refrigerator) and 1°C (freezer)

Safety

•Separate doors for refrigerator and freezer with independent lock catches, dual padlocks available to ensure product safety

•Multiple alarm functions including high or low temperature, sensor error, high ambient temp, power failure and remote alarm

•Two types of alarm indicators: audible buzzer and visible flashing light

Refrigerator System

•Refrigerator and freezer have independently controlled variable frequency refrigeration systems, standalone displays as well as separate on and off controls

•Robust compressor system operating with environmentally friendly hydrocarbon refrigerant

•Refrigerator with high quality and high efficiency cooling fan provides better temperature uniformity and stability

Ergonomic Design

•Large LED screen display for excellent user interface experience

•USB port automatically saves temperature data for up to 10 years for convenient inquiry and record keeping

•Optional printer to simultaneously print out temperatures of the refrigerator and the freezer

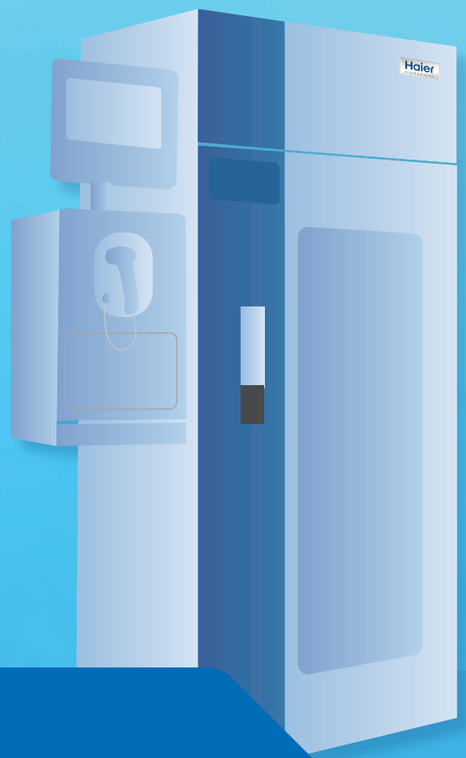
•Four casters and two levelling legs design for ease of maneuvering

Specifications

	Model		HYCD-319A (115V)		HYCD-469		HYCD-469A		HYCD-469A (115V)	
Technical Data	Cabinet Type		Refrigerator	Freezer	Refrigerator	Freezer	Refrigerator	Freezer	Refrigerator	Freezer
			Upright		Upright		Upright		Upright	
	Climate Class		N		N (16-32°C)		N (16-32°C)		N (16-32°C)	
	Cooling Type		Forced Air Cooling	Direct Cooling	Forced Air Cooling	Direct Cooling	Forced Air Cooling	Direct Cooling	Forced Air Cooling	Direct Cooling
	Defrost Mode		Auto	Manual	Auto	Manual	Auto	Manual	Auto	Manual
	Refrigerant		HC	HC	HC	HC	HC	HC	HC	HC
	Sound Level (dB(A))		50		45		45		52	
Performance	Temperature Range (°C)		2~8	-15~-40	2~8	-10~-40	2~8	-10~-40	2~8	-15~-40
Control	Controller		Microprocessor		Microprocessor		Microprocessor		Microprocessor	
	Display		LED		LED		LED		LED	
Electrical Data	Power Supply (V/Hz)		115/60		220-240/50/60		220-240/50/60		115/60	
	Power (W)		450		640		640		640	
	Electrical Current (A)		6		3		3		7	
Dimensions	Capacity (L/Cu.Ft)		200/7.06	100/3.53	269/9.5	200/7.1	269/9.5	200/7.1	245/8.65	200/7.1
	Net/Gross Weight (approx)	kg	145/160		176/207		176/207		176/207	
		lbs	319.7/352.7		388.0/456.4		388.0/456.4		388.0/456.4	
	Interior Dimensions (W*D*H)	mm	605*510*720	515*465*440	593*585*800	553*545*660	593*585*800	553*545*660	593*585*800	553*545*660
		in	23.8*20*28.3	20.2*18.3*17.3	23.3*23.0*31.5	21.8*21.5*26.0	23.3*23.0*31.5	21.8*21.5*26.0	23.3*23.0*31.5	21.8*21.5*26.0
	Exterior Dimensions (W*D*H)	mm	735*660*1810		738*834*1975		738*834*1975		738*834*1975	
		in	28.9*26.0*71.3		29.1*32.8*77.8		29.1*32.8*77.8		29.1*32.8*77.8	
	Packing Dimensions (W*D*H)	mm	795*740*2010		840*910*2170		840*910*2170		840*910*2170	
		in	31.3*29.1*79.1		33.1*35.8*85.4		33.1*35.8*85.4		33.1*35.8*85.4	
	Container Load (20'/40'/40'H)		21/43/43		14/28/28		14/28/28		14/28/28	
Alarms	High/Low Temperature		Y		Y		Y		Y	
	Sensor Error		Y		Y		Y		Y	
	Power Failure		Y		Y		Y		Y	
	Door Ajar		Y		Y		Y		Y	
	Remote Alarm		Y		Y		Y		Y	
	High Ambient Temperature		Y		Y		Y		Y	
	Low Battery		Y		Y		Y		Y	
Accessories	Caster		Y/4		Y		Y		Y	
	Foot		Y/2		Y		Y		Y	
	Porthole		Y/2		Y		Y		Y	
	Shelves/Drawers		3/1	1 (For supporting the upper drawer)/2 (without sliding rack)	3/0	3/0 (Max 3 Drawers optional, without sliding rack)	3/0	3/0 (Max 3 Drawers optional, without sliding rack)	3/0	3/0 (Max 3 Drawers optional, without sliding rack)
	USB Interface		Y		Y		Y		Y	
Others	Certification		UL		CE		CE		UL	

*Haier Biomedical reserves the right to change products and specifications without prior notice.

Haier Biomedical
Intelligent Protection of Life Science







Blood Bank Solutions

Automated Blood Management Refrigerator



HXC-429TR



HXC-629TR

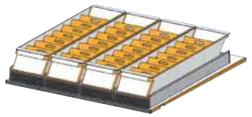


HXC-1369TR

Information Flow



Place the blood bag with RFID tag in blood basket



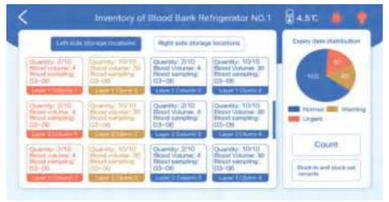
Using built-in RFID read & write board of the refrigerator to read blood bag information

RFID Tag Information



Server

RFID Tag Information



Refrigerator Screen APP

Microcomputer Control

The temperature inside the unit is controlled within 4±1°C with temperature control accuracy of 0.1°C and the large high-definition LCD touch screen display makes it convenient to observe.

Multiple Fault Alarms

High/low temperature alarm, power failure alarm, door ajar, sensor error alarm, and low battery alarm. It is configured with remote alarm interface with two alarm modes (sound buzzer alarm and light flashing alarm).

Inverter Compressor

High efficiency and energy saving, low noise and long service life.

Speed Control Condenser Fan

High efficiency and energy saving, low noise and long service life.

Three-layer Glass Foam Door

With large viewing three-layer glass foam door design, surface glass with LOW-E film to reduce heat transfer efficiency with no condensation at 25°C and 85% humidity environment.

Double Protection of Mechanical Door Lock and Electromagnetic Lock

Electromagnetic lock can realize NFC card punching unlocking and fingerprint unlocking function.

Standard USB Port

With optional disc temperature recorder.

Operation Instructions

Blood Bag Inbound:

Card swiping to open the door >> Blood Bag Inbound >> Close the door >> Automatic Inventory Checking >> Outbound/inbound and inventory information pop-up display and upload

Blood Bag Outbound:

Card swiping to open the door >> Blood Bag Outbound >> Close the door >> Automatic Inventory Checking >> Outbound/inbound and inventory information pop-up display and upload

Specifications

Product Model No.	Voltage (V/Hz)	Internal Temperature (°C)	External Dimension (W*D*H mm)	Internal Dimension (W*D*H mm)	Effective Volume (L)	NW / GW (Kg)	Stainless Steel Shelf (layers)	Loading Capacity (400 ml blood bag)
HXC-429TR	230V-50/60Hz	4±1	625*940*1830	505*680*1315	429	190/230	5	120
HXC-629TR	230V-50/60Hz	4±1	765*940*1980	645*680*1455	629	235/280	6	192
HXC-1369TR	230V-50/60Hz	4±1	1545*940*1980	1425*680*1455	1369	430/490	12	384

Automated Blood Management Refrigerator

Scope of Application

Suitable for blood transfusion departments, operating rooms, and emergency rooms, etc. of the hospitals

Product Advantages

Drastically Improves the Speed of Delivery

Innovative blood bank system, enables the blood to be advanced to the operating room to achieve 1-minute rapid blood collection.

Reduce Waste and Improve Efficiency

Electronic blood matching within 1 minute, reducing the cross matching time and reagent consumption. Quick and precise blood matching, combined with intelligent lighting indicators guide, guarantees the accurate identification and safe use of blood, without waste.







Intelligent Blood Management System

Allows integration and coordination of blood recovery within hospitals and blood allocation between hospitals and even across regions through the blood network cloud platform. Enabling the rational use of blood upon demand, thus reducing resource consumption.



Intelligent Blood Management System

Quickly and accurately identify blood bag location using onboard blood information management system.

The patient's blood matching information is shown and a blood bag automatically selected and a request for the bag is sent.

The system reads the blood information and light up indicators guide the user to the correct blood bag location.

Blood information is cross-checked and blood is issued. Inventory is automatically updated within the blood management system.

Specifications

Model			HXC-149R	HXC-429R	HXC-629R	HXC-629RB
Technical Data	Type		Drawer-Type	Drawer-Type	Drawer-Type	Drawer-Type
	Climate Class		N	N	N	N
	Cooling Type		Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling
	Defrost Mode		Auto	Auto	Auto	Auto
	Refrigerant		R600a	R600a	R600a	R600a
	Sound Level (dB(A))		40	41	41	41
Performance	Temperature Range (°C)		4±1	4±1	4±1	4±1
	Ambient Temperature (°C)		16-32	16-32	16-32	16-32
Control	Controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display		LCD	LCD	LCD	LCD
Electrical Data	Power Supply (V/Hz)		220-240/50 230/50/60	220-240/50 230/50/60	220-240/50 230/50/60	115/60
	Power (W)		250	280	300	300
	Electrical Current (A)		1.5	1.8	1.9	3
	Power Consumption (kWh/24h)		2.6	2.9	3.1	3.6
Construction	Capacity (L/Cu.Ft)		149/5.3	429/15.1	629/22.2	629/22.2
	Blood Storage Capacity (450ml blood bags)		18	60	88	88
	Net/Gross Weight (approx)	kg	129/179	245/280	295/335	295/335
		lbs	283.8/ 393.8	539/616	649/737	649/737
	Interior Dimensions (W*D*H)	mm	505*560*610	505*680*1315	645*680*1455	645*680*1455
		in	19.7*32.3*23.8	19.7*26.5*51.3	25.2*26.5*56.7	25.2*26.5*56.7
	Exterior Dimensions (W*D*H)	mm	625*820*1425	925*940*1830	1065*940*1980	1065*940*1980
		in	24.4*30.2*55.6	36.1*36.7*71.4	41.5*36.7*77.2	41.5*36.7*77.2
	Packing Dimensions (W*D*H)	mm	740*945*1575	725*985*1940	875*995*2090	875*995*2090
		in	28.9*36.9*61.4	28.3*38.4*75.7	34.1*38.8*81.5	34.1*38.8*81.5
	Container load (20'/40'/40'H)		18/36/36	18/35/35	12/26/26	12/26/26
Alarms	High/Low Temperature		Y	Y	Y	Y
	Power Failure		Y	Y	Y	Y
	Sensor Error		Y	Y	Y	Y
	Low Battery		Y	Y	Y	Y
	Door Ajar		Y	Y	Y	Y
Accessories	Caster		4	4	4	4
	Foot		2	2	2	2
	Porthole		Y	Y	Y	Y
	Drawers		9	30	44	0/44
	USB Interface		Y	Y	Y	Y
	Temperature Recorder		Y	Y	Y	Y
	Remote Alarm		Y	Y	Y	Y
	RS485		Y	Y	Y	Y
Certifications	CE		Y /	Y /	Y /	/
	UL		/ Y	/ Y	/ Y	Y

R suffix - RFID with IoT model for blood bag management

Product appearance and specifications are subject to change without notice

Automated Blood Management Refrigerator

Scope of Application

Suitable for blood transfusion departments, operating rooms, and emergency rooms

Product Advantages

Reduce Waste and Improve Efficiency

Rapid, electronic cross matching, the RFID electronic tagged blood bag's position illuminates for quick retrieval. Request blood at bedside, allocate, collect and transfer whilst monitoring the temperature across the whole process.

Multi-mode Operation

- Blood transfusion department mode: write the blood bag information into the RFID tag, read the tag information through the antenna board, and view the blood type, expiration date and other information
- Forward mode: operating room, emergency, ICU and other scenes
- Temporary storage mode: surgical blood preparation is temporarily stored. It can be re stored if it is not used up

Intelligent Blood Management System

Allows integration and coordination of blood recovery within hospitals and blood allocation between hospitals and even across regions through the blood network cloud platform. Enabling the rational use of blood upon demand, thus reducing resource consumption.

Drastically Improves the Speed of Delivery

Innovative blood bank system, enables the blood to be advanced to the operating room to achieve 1-minute rapid blood collection

Safe and Security

Each drawer is equipped with an independent electronic lock to ensure that only the unique and correct blood bag can be taken out in each blood collection operation

Ergonomic Design

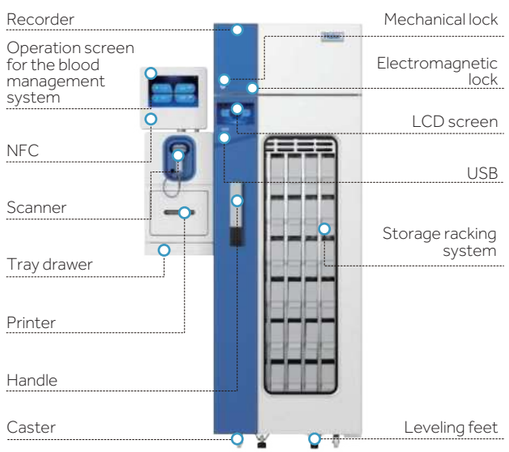
Ozone Sterilization

Standard ozone module, according to the actual need to set regular disinfection time, without manual disinfection

Automatic Inventory

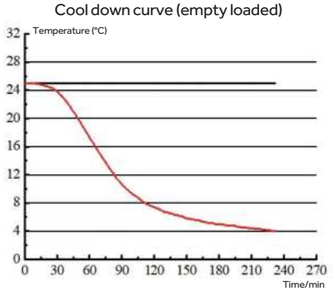
Automatic inventory and blood bag information at a glance



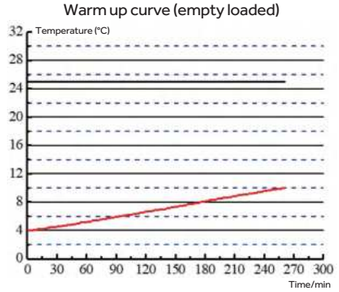


Product Performance

Cool down curve (empty loaded)



Warm up curve (empty loaded)



Specifications

	Model		HXC-429RV	HXC-629RV
Technical Data	Type		Drawer-Type	Drawer-Type
	Climate Class		N	N
	Cooling Type		Forced Air Cooling	Forced Air Cooling
	Defrost Mode		Auto	Auto
	Refrigerant		R600a	R600a
	Sound Level (dB(A))		41	41
Performance	Temperature Range (°C)		4±1	4±1
	Ambient Temperature (°C)		16-32	16-32
Control	Controller		Microprocessor	Microprocessor
	Display		LCD	LCD
Electrical Data	Power Supply (V/Hz)		220-240/50	220-240/50
	Power (W)		280	300
	Electrical Current (A)		1.8	1.9
	Power Consumption (kWh/24h)		2.9	/
Dimensions	Capacity (L/Cu.Ft)		429/15.1	629/22.2
	Blood Storage Capacity (450ml blood bags)		36	48
	Net/Gross Weight (approx)	kg	245/280	295/335
		lbs	539/616	649/737
	Interior Dimensions (W*D*H)	mm	505*680*1315	645*680*1455
		in	19.7*26.5*51.3	25.2*26.5*56.7
	Exterior Dimensions (W*D*H)	mm	925*940*1830	1065*940*1980
		in	36.1*36.7*71.4	41.5*36.7*77.2
	Packing Dimensions (W*D*H)	mm	725*985*1940	875*995*2090
		in	28.3*38.4*75.7	34.1*38.8*81.5
	Container Load (20'/40'/40'H)		18/35/35	12/26/26
Alarms	High/Low Temperature		Y	Y
	Power Failure		Y	Y
	Sensor Error		Y	Y
	Low Battery		Y	Y
	Door Ajar		Y	Y
Accessories	Caster		4	4
	Foot		2	2
	Porthole		Y	Y
	Drawers		36	48
	USB Interface		Y	Y
	Temperature Recorder		Y	Y
Others	Certification		CE	CE

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Unattended Self-service Blood Distribution Refrigerator

Self-Service Blood Distribution with Smart IoT Technology

Self-service blood distribution for blood transfusion departments

- After blood cross matching is completed for the blood bags, specified blood collection permissions will be allocated to the different blood using departments to achieve self-help blood distribution; self-help blood collection at night can save labor cost and improve efficiency.

Mobile blood storage points set up by blood stations

- The refrigerators may be used as mobile blood storage points in hospitals to guarantee the applications of emergency blood use, achieve zero waiting for blood use, and guarantee the timely blood use of patients.



HXC-629ZZ

Product Advantages

Electronic checking and bar code management

- Blood bag warehouse-in and warehouse-out management can be achieved by scanning the blood donation codes and the product codes on the bags.
- The system can take the specified blood bags for the work staff accurately after identifying the operators and checking the blood bags to be error-free.



A drawer corresponds to a lock

Safe and reliable, making blood collection process traceable

- Equipped with fingerprint module and NFC card punching module, providing dual permission modes to open the electromagnetic lock;
- Each drawer is equipped with an independent electronic lock to ensure that only the unique and correct blood bag can be taken out in each blood collection operation;
- The camera module can take photos of the operators automatically and transmit them to the platform to achieve operation information traceability.



Self-service printing

Ergonomic Design

- Smart dual screen setting realizes simple and intuitive LCD screen display and better user-machine interactions.
- Upon checking of the warehouse-out blood bag's information, self-help printing of Blood Collection Sheet for Clinical Blood Transfusion and Blood Distribution Record Sheet is available.

User-machine interaction, making management visual

- The intelligent blood management system can display the blood donation codes, product codes, blood types, blood quantities, expiry dates and other information of the stored blood bags in real time, realizing one-key query of the stock blood information.
- It can clearly show the storage location of the blood bag with the closest expiry date and follow the first-in-first-out management practices.

Real-time control of freezer temperature

- Double temperature control composed of 6 high precision sensors and mechanical thermostat against low temperature makes control more accurate and maintains the refrigerator temperature constant at 4±1°C.

Specifications

Model			HXC-629ZZ
Technical Data	Type		Drawer-Type
	Climate Class		N
	Cooling Type		Forced air cooling
	Defrost Mode		Auto
	Refrigerant		R600a
	Sound Level(dB(A))		41
Performance	Temperature Range (°C)		4±1
	Ambient Temperature (°C)		16-32
Control	Controller		Microprocessor
	Display		LCD
Electrical Data	Power Supply(V/Hz)		220-240V~ 50/60Hz
	Power(W)		300
	Electrical Current(A)		1.9
Dimensions	Capacity (L/Cu.Ft)		629/22.2
	Blood Storage Capacity (450ml blood bags)		72
	Net/Gross Weight (approx)	kg	305/350
		lbs	671/770
	Interior Dimensions (W*D*H)	mm	645*680*1455
		in	25.2*26.5*56.7
	Exterior Dimensions (W*D*H)	mm	1290*940*1980
		in	50.3*36.7*77.2
	Packing Dimensions (W*D*H)	mm	1420*1030*2090
		in	55.9*40.6*81.5
	Container Load (20'/40'/40'H)		8/16/16
Alarms	High/Low Temperature		Y
	Power Failure		Y
	Sensor Error		Y
	Low Battery		Y
	Door Ajar		Y
	Remote Alarm		Y
Accessories	Caster		6
	Foot		2
	Porthole		Y
	Baskets		/
	Shelves/Drawers		0/72
	Inner doors		/
	USB Interface		Y
	Temperature Recorder		N
Others	Certification		CE

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Unattended Self-service Blood Distribution Refrigerator

Scope of Application

Self-service blood bank refrigerator suitable for blood stations, haematology departments and other hospital areas to provide secure and convenient access to blood.

Product Advantages

Electronic Checking and Bar Code Management

- Blood bag inventory management (in/out) is achieved by scanning the bags' blood donation codes and product codes
- The system ensures error-free blood bag collection by accurately checking blood bag and operator information

Ergonomic Design

- The intelligent, dual-screen LCDs have been designed for better user-machine interactions
- Users can print Blood Collection Sheets for Blood Transfusion and Blood Distribution Records after blood check-out

Visual and Clear Management via User Interface

- The intelligent blood management system can display the blood donation codes, product codes, blood types, blood quantities, expiry dates and other information of the stored blood bags in real time, realizing one-key query of the stock blood information
- It can clearly show the storage location of the blood bag with the closest expiry date and follow the first-in-first-out management practices

Real-time Control of Freezer Temperature

Six high-precision sensors and a mechanical thermostat accurately control the temperature in real-time to maintain the refrigerator temperature at 4 ±1°C

Safe, Reliable and Traceable

- Equipped with fingerprint and NFC access modules providing dual permission modes to open the electromagnetic lock
- Each drawer is equipped with an independent electronic lock to ensure that only the unique and correct blood bag can be taken out in each blood collection operation
- The camera module can take photos of the operators automatically and transmit them to the platform to achieve operation information trace- ability



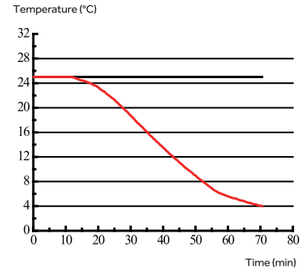
A drawer corresponds to a lock



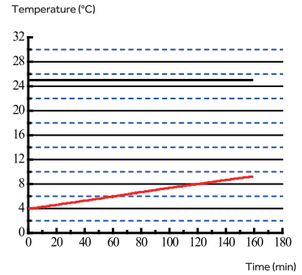
HXC-149ZZ

Product Performance

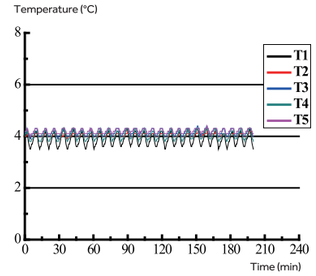
Cool down curve (empty loaded)



Warm up curve (empty loaded)



Stable operating curve (empty loaded)



Specifications

Model			HXC-149ZZ
Technical Data	Type		Drawer-Type
	Climate Class		N
	Cooling Type		Forced Air Cooling
	Defrost Mode		Auto
	Refrigerant		R600a
	Sound Level (dB(A))		40
Performance	Temperature Range (°C)		4±1
	Ambient Temperature (°C)		16-32
Control	Controller		Microprocessor
	Display		LCD
Electrical Data	Power Supply (V/Hz)		220-240/50
	Power (W)		240
	Electrical Current (A)		1.4
Dimensions	Capacity (L/Cu.Ft)		149/5.26
	Blood Storage Capacity (450ml blood bags)		12
	Net/Gross Weight (approx)	kg	129/179
		lbs	283.8/ 393.8
	Interior Dimensions (W*D*H)	mm	505*560*610
		in	19.7*32.3*23.8
	Exterior Dimensions (W*D*H)	mm	625*820*1425
		in	24.4*30.2*55.6
	Packing Dimensions (W*D*H)	mm	740*945*1575
		in	28.9*36.9*61.4
	Container Load (20'/40'/40'H)		18/36/36
Alarms	High/Low Temperature		Y
	Power Failure		Y
	Sensor Error		Y
	Low Battery		Y
	Door Ajar		Y
	Remote Alarm		Y
Accessories	Caster		4
	Foot		2
	Porthole		Y
	Baskets		/
	Shelves/Drawers		0/12
	Inner doors		/
	USB Interface		Y
	Temperature Recorder		optional
Others	Certification		CE

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Advanced Blood Bank Refrigerator with LCD Touchscreen



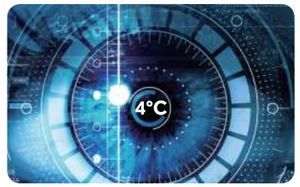
HXC-1369T HXC-629T HXC-429T HXC-149T

Product Advantages



Control Interface

- The simple and intuitive high-definition LCD touch screen can display temperature graph, working status, events and alarm record.



Microprocessor Control

- A dual control system of six high-precision sensors and mechanical thermostat ensures that the temperature inside the cabinet is maintained at 4±1°C.



Stable and Reliable Operation

- The refrigeration system is powered with a high-quality, energy-efficient inverter compressor and variable speed fan motors. Temperature control responses quickly and reliably for a more uniform temperature using less power and lower noise.



Multiple Safety Protection

- Multiple alarms include high and low temperature, power failure, door ajar, sensor error, and low battery. Sound buzzer, visual flashing light and remote contacts are standard alarm features. Built-in battery provides power to the alarm system in the event of a main power failure. Fingerprint and standard NFC swipe card module are optional.
- Optional fingerprint and standard NFC swipe card module.

Advanced Blood Bank refrigerator with LED Display



HXC-1369 HXC-629 HXC-429 HXC-149

Product Advantages



With Multiple Temperature Control to Guarantee Constant and Precise Temperature

- The inside temperature is constant within 4±1°C, the digital temperature display resolution at 0.1°C.
- Equipped with 6 high-precision sensors and a mechanical thermostat which enables more accurate air cooling and temperature control to ensure uniform temperature inside the unit, maintained within the specified temperature range. The multi-layer inner door design reduces thermal loss after door openings and further ensures the temperature stability inside the cabinet.



With Multiple Safety Guarantees to Provide Worry-Free Service

- Equipped with complete alarm function, including alarm on high and low temperature, power failure, door ajar, sensor error, and low battery. Two alarm modes including audible buzzer and visual lights with remote alarm interface.
- Back-up battery design ensures alarm and temperature readings continue to operate in the event of a main power failure.
- NFC swipe card module, with safer storage management.



Standard USB Interface

- Ability to record temperature data for ten years by using the USB interface, an optional disc temperature recorder is also available

Specifications

	Model		HXC-149	HXC-429	HXC-629	HXC-629B	HXC-1369	HXC-149T	HXC-279T	HXC-429T	HXC-629T	HXC-629TB	HXC-1369T
Technical Data	Type		Basket-Type	Basket-Type	Basket-Type	Basket-Type	Basket-Type	Drawer-Type	Basket-Type	Drawer-Type	Drawer-Type	Drawer-Type	Drawer-Type
	Climate Class		N	N	N	N	N	N	N	N	N	N	N
	Cooling Type		Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling
	Defrost Mode		Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto
	Refrigerant		R600a	R600a	R600a	R600a	R600a	R600a	R600a	R600a	R600a	R600a	R600a
	Sound Level (dB(A))		39	40	40	41	41	39	40	40	40	41	41
Performance	Temperature Range (°C)		4±1	4±1	4±1	4±1	4±1	4±1	4±1	4±1	4±1	4±1	4±1
	Ambient Temperature (°C)		16-32	16-32	16-32	16-32	16-32	16-32	16-32	16-32	16-32	16-32	16-32
Control	Controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display		LED	LED	LED	LED	LED	LCD	LCD	LCD	LCD	LCD	LCD
Electrical Data	Power Supply (V/Hz)		220-240/50 | 230/50/60	220-240/50 | 230/50/60	220-240/50 | 230/50/60	115/60	220-240/50 | 230/50/60	220-240/50 | 230/50/60	220-240/50/60	220-240/50 | 230/50/60	220-240/50 | 230/50/60	115/60	220-240/50 | 230/50/60
	Power (W)		240	245	255	255	400	240	295	245	255	255	400
	Electrical Current (A)		1.4	1.5	1.5	3	2	1.4	1.5	1.5	1.5	3	2
	Power Consumption (kWh/24h)		2.5	2.8	2.9	3.6	3.5	2.5	5.1	2.8	2.9	3.6	3.5
Dimensions	Capacity (L/Cu.Ft)		149/5.3	429	629	629/22.2	1369	149/5.3	279/9.85	429	629	629/22.2	1369
	Blood Storage Capacity (450ml blood bags)		60	195	312	312	624	60	135	195	312	312	624
	Net/Gross Weight (approx)	kg	97/125	169/204	187/217	187/217	345/410	108/136	113	182/217	212/252	212/252	380/445
		lbs	213.4/ 275	371.8/448.8	411.4/477.4	411.4/477.4	759/902	237.6/299.2	249	400.4/477.4	466.4/554.4	466.4/554.4	836/979
	Interior Dimensions (W*D*H)	mm	505*560*610	505*680*1315	645*680*1455	645*680*1455	1425*680*1455	505*560*610	505*410*1365	505*680*1315	645*680*1455	645*680*1455	1425*680*1455
		in	19.7*32.3*23.8	19.7*26.5*51.3	25.2*26.5*56.7	25.2*26.5*56.7	55.6*26.5*56.7	19.7*32.3*23.8	19.8*16.1*53.7	19.7*26.5*51.3	25.2*26.5*56.7	25.2*26.5*56.7	55.6*26.5*56.7
	Exterior Dimensions (W*D*H)	mm	625*820*1150	625*940*1830	765*940*1980	765*940*1980	1545*940*1980	625*820*1150	660*705*1750	625*940*1830	765*940*1980	765*940*1980	1545*940*1980
		in	24.4*30.2*44.9	24.4*36.7*71.4	29.8*36.7*77.2	29.8*36.7*77.2	60.3*36.7*77.2	24.4*30.2*44.9	26.0*27.8*68.9	24.4*36.7*71.4	29.8*36.7*77.2	29.8*36.7*77.2	60.3*36.7*77.2
	Packing Dimensions (W*D*H)	mm	720*920*1220	725*985*1940	875*995*2090	875*995*2090	1610*995*2090	720*920*1220	730*760*1940	725*985*1940	875*995*2090	875*995*2090	1610*995*2090
		in	28.1*35.9*47.6	28.3*38.4*75.7	34.1*38.8*81.5	34.1*38.8*81.5	62.8*38.8*81.5	28.1*35.9*47.6	28.7*30.0*76.4	28.3*38.4*75.7	34.1*38.8*81.5	34.1*38.8*81.5	62.8*38.8*81.5
	Container load (20'/40'/40'H)		18/38/76	18/35/35	12/26/26	12/26/26	7/14/14	18/38/76	24/48/48	18/35/35	12/26/26	12/26/26	7/14/14
Alarms	High/Low Temperature		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Power Failure		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Sensor Error		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Low Battery		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Door Ajar		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Dirty condenser		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Accessories	Caster		4	4	4	4	4	4	Y	4	4	4	4
	Foot		2	2	2	2	2	2	Y	2	2	2	2
	Porthole		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Baskets		6	15	24	24	48	6	15	15	24	24	48
	Shelves/Drawers		2/0	5/0	6/0	6/0	12/0	0/2	5/0	0/5	0/6	0/6	0/12
	Inner doors		2	5	6	6	12	0	5	0	0	0	0
	USB Interface		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Remote Alarm		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Temperature Recorder		Y | O	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Certifications	CE		Y | /	Y | /	Y | /	/	Y | /	Y | /	/	Y | /	Y | /	/	Y | /
	UL		/ | Y	/ | Y	/ | Y	Y	/ | Y	/ | Y	/	/ | Y	/ | Y	Y	/ | Y

T suffix - Advanced with touchscreen

Product appearance and specifications are subject to change without notice

4°C Blood Bank Refrigerator

Haier Biomedical's 4 °C Medical Blood Bank Refrigerator
High efficiency, energy-saving, safe and reliable, smart control.



HXC-106

Microprocessor Control System
The temperature range is 4±1°C, with temperature accuracy of 0.1°C.

Air Cooling Design
The temperature in all corners of the cabinet is maintained within the calibrated temperature range, and the test hole design is added to meet the actual needs of the user.

Multiple Fault Alarms
High and low temperature alarm, power failure alarm, door ajar alarm, sensor error alarm, low battery with a remote alarm interface, two alarm modes (sound beeping alarm and light flashing alarm).

Multiple Protection
Startup delay protection, stop interval protection, display panel password protection, power failure memory data protection, sensor error protection.

Remote Alarm Function
Can connect alarm to other rooms to achieve alarm function.

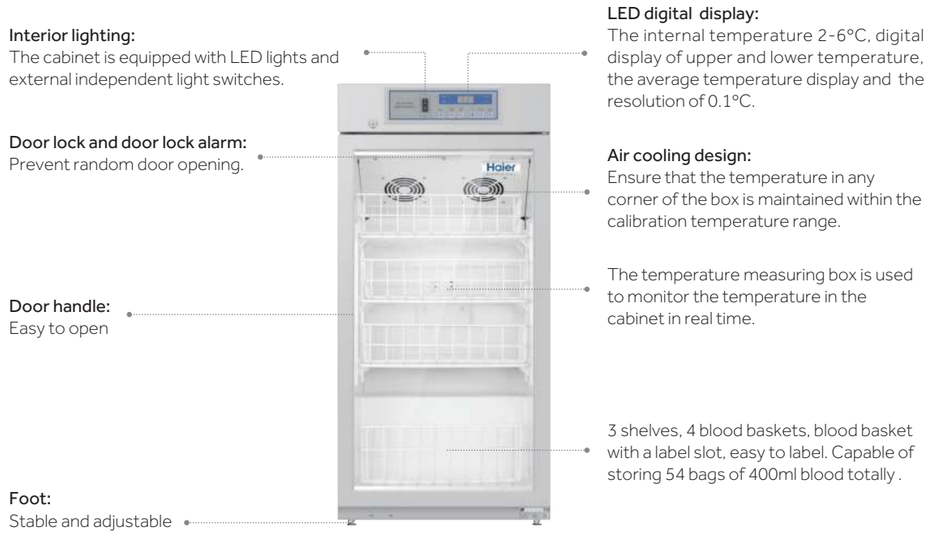
Automatic Evaporation of Condensed Water after Collection
Avoid the trouble of manual treatment of condensed water.

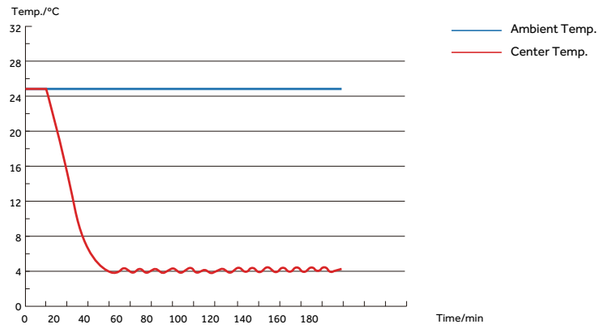
Product Features

Door design
Vertical single door design, double layer electric heated glass door and self - closing function.

Materials
The shell and inner liner are sprayed with steel plate, which is anticorrosive and bacteriostatic.

Compressor
Deeply optimized refrigeration system, international brand compressor, energy saving, low noise, long service life.





Temperature drop and insulation curve

4°CBlood Bank Refrigerator

The blood bank refrigerator is designed for blood collection housing, providing a safe and secure 2~6°C storage environment after the blood has been collected.



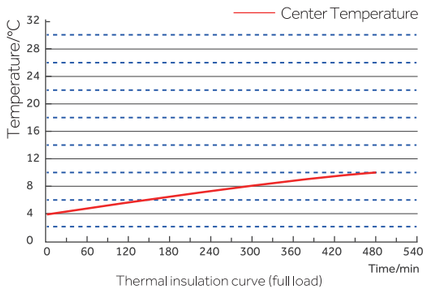
HXC-279

Safe storage and optimum operation experience

- 60mm thick foam layer, superior insulation, ensuring the temperature is stable in the refrigerator;
- Five shelves and five inner doors design minimizes the cold loss;
- 15 blood baskets with labels. The maximum blood storage capacity is 135 bags (400/450ml);

Long insulation time

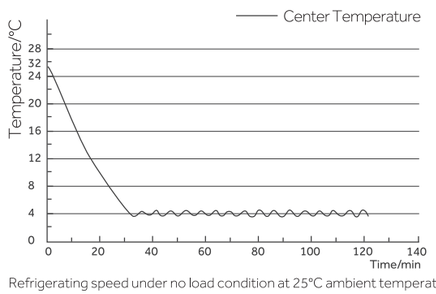
Under full load and power off conditions, holdover time for 4°C to 6°C is more than 150 minutes, more secure.



Thermal insulation curve (full load)

Rapid refrigeration, high efficiency

It can reach set temperature within 35 mins under no load condition at room temperature.



Refrigerating speed under no load condition at 25°C ambient temperature





Specifications

	Model		HXC-106	HXC-279
Technical Data	Type		Basket-Type	Basket-Type
	Climate Class		N	N
	Cooling Type		Forced Air Cooling	Forced Air Cooling
	Defrost Mode		Auto	Auto
	Refrigerant		HC	R134A
	Sound level (dB(A))		42	41
Performance	Temperature Range (°C)		4±1	4±1
	Ambient Temperature (°C)		10-38	16-32
Control	Controller		Microprocessor	Microprocessor
	Display		LED	LED
Electrical Data	Power Supply (V/Hz)		220~240/50/60	220/50
	Power (W)		253	400
	Electrical Current (A)		1.6	2.6
	Power Consumption (kWh/24h)		3.8	5.1
Dimensions	Capacity (L/Cu.Ft)		106/3.75	279/9.85
	Blood Storage Capacity(400ml blood bags)		54	135
	Net/Gross Weight (approx)	(kg)	49/52	113
		(lbs)	108.03/114.64	249
	Interior Dimensions (W*D*H)	(mm)	430*350*830	505*410*1315
		(in)	16.93*13.78*32.68	19.8*16.1*51.8
	Exterior Dimensions (W*D*H)	(mm)	500*514*1055	660*705*1700
		(in)	19.69**20.34*41.54	26.0*27.8*67.0
	Packing Dimensions (W*D*H)	(mm)	565*615*1145	730*760*1890
		(in)	22.24*24.21*45.08	28.7*30.0*74.4
	Container load (20'/40'/40'H)		36/72/72	24/48/48
Alarms	High/Low Temperature		Y	Y
	Power Failure		Y	Y
	Sensor Error		Y	Y
	Low Battery		Y	Y
	Door Ajar		Y	Y
Accessories	Caster		0	Y
	Foot		Y	Y
	Porthole		Y	Y
	Shelves/Baskets		3/4	5/0
	Inner doors		0	5
	Remote Alarm		Y	Y
	USB Interface		N	Y
Certification	CE		Y	/

Product appearance and specifications are subject to change without notice

Blood Bank Refrigerators

Applicable for the storage of blood and blood related products and other items that need to be stored at 2-6°C in hospitals and blood stations.



HXC-158



HXC-158B

Innovative Design

- Frequency Conversion Compressor
- Condensation Free Design
- Adjustable Shelf And Basket
- Intelligent Alarm

Product Advantages

Adjustable Shelves
The shelves are adjustable to any hright to fulfill different requirements

Three Types of Alarm
Audible buzzer, visible flashing light, remote alarm

Five Alarm Functions
High/low temperature, power failure, senor error, low battery, door ajar

Superior Performance
Adopting air cooling technology for the inside temperature uniformity and stability

Specifications

Model			HXC-158	HXC-158B
Technical Data	Type		Basket-Type	Drawer-Type
	Climate class		ST	ST
	Cooling type		Forced Air Cooling	Forced Air Cooling
	Defrost mode		Auto	Auto
	Refrigerant		HC	HC
	Noise (dB(A))		42	42
Performance	Temperature range (°C)		4±1	4±1
	Ambient temperature (°C)		10-38	10-38
Control	Controller		Microprocessor	Microprocessor
	Display		LED	LED
Electrical Data	Power supply (V/Hz)		220-240/50/60	220-240/50/60
	Power (W)		320	320
	Electrical current (A)		2.6	2.6
Dimensions	Capacity (L/Cu.Ft)		158/5.6	158/5.6
	Blood storage capacity (450ml blood bags)		84	84
	Net/Gross weight (approx)	kg	107/120	113/126
		lbs	235.9/264.6	249.1/277.8
	Interior dimensions (W*D*H)	mm	460*370*950	460*370*950
		in	18.1*14.6*37.4	18.1*14.6*37.4
	Exterior dimensions (W*D*H)	mm	560*570*1530	560*570*1530
		in	22.0*22.4*60.2	22.0*22.4*60.2
	Packing dimensions (W*D*H)	mm	645*675*1680	645*675*1680
		in	25.4*26.6*66.1	25.4*26.6*66.1
	Container load (20'/40'/40'H)		27/54/54	27/54/54
Alarms	High/Low temperature		Y	Y
	Power failure		Y	Y
	Sensor error		Y	Y
	Low battery		Y	Y
	Door ajar		Y	Y
	Remote alarm		Y	Y
Accessories	Caster		Y	Y
	Foot		Y	Y
	Test hole		Y	Y
	Shelves/Basket		4/4	-
	Drawers/Inner doors		-/2	4/-
	USB interface		Optional	Optional
	Temp recorder		Optional	Y
Others	Certification		CE	CE

Plasma Freezer

RFID Solution with Real-Time IoT Technology



DW-30L1280FT

- RFID radio frequency, accurate management of plasma information, with automatic inventory and quick inquiry function.
- Hydrocarbon refrigeration, efficient and quick.
- Mobile terminal bio-link APP ensures real-time monitoring.
- Multiple alarms, safe and reliable.
- 10-inch large screen, easy to operate and more intuitive display.
- NFC permission management system combined with an electromagnetic lock, controllable flow direction and traceable information.



10-inch large touch screen, easy to operate, intuitive display.

- The 10-inch large touch screen ensures an easier operating experience. Capable of displaying interior real-time temperature, ambient temperature, temperature set point, input voltage, network status, user login status, temperature curve and new message/notebook, etc. Query interface can display plasma donation code, product code, blood type, blood volume, period of validity, etc.



Equipped with IoT function, ensuring real-time temperature monitoring.

- Equipped with IoT function, capable of sending users the equipment alarm information in the form of text messages. Download bio-link APP to monitor and check cabinet temperature, alarms and event logs from anywhere at anytime.



Bottom air inlet system, low noise

- Equipped with a special filter, ensuring the cleanness and safety of interior air.



Multi-compartment Storage Basket

- Multi-compartment storage basket design, streamlines plasma storage and placement, easy to access.



Dual Cooling System, Frost Free

- Equipped with dual cooling system, if one system fails, the other system can maintain the interior temperature at -25°C for an extended period, safe and reliable.
- RFID read-write board can read plasma label information, providing inventory plasma information statistics. Supports automatic inventory, one-key inventory and plasma in-out stock storage information.

Specifications

Model	Voltage (V/Hz)	Interior Temperature (°C)	Exterior Dimension (W*D*H mm)	Interior Dimension (W*D*H mm)	Effective Volume (L)	N.W./G.W. (kg)	loading Qty (bag)
DW-30L1280FT	220~240/50	-10~-35	1520*1065*1980	1320*752*1260	1280	440/505	576

Plasma Apheresis System

Process is completely traceable with intelligent interconnection methods, this design improves the safety and security for the donor.



Identity Recognition
Built-in intelligent identity recognition system can identify a person immediately and accurately through multiple sources, such as face, ID card and fingerprint as key examples.

Intelligent identification, safe and effective error prevention system
Precise control and accurate identification of the anticoagulant bags, improved safety, reliability and security.

Smart IoT
Intelligent interconnection with the management system, data at a glance, clear and convenient.

Ergonomic
Suitable for plasma stations and mobile collections with limited space.

Ergonomic Design

- Intelligent connectivity which ensures automatic data collection and processing.
- The unit is small in size, movable and easy to use, which reduces the burden of users.
- Large color touch screen, easy to operate.
- Optimized system and structural noise reduction design, low operating noise.

The whole process of blood component (plasma) separation is traceable

- The whole process can be automatically monitored and managed.
- Automatic recording and uploading data.
- Precise control of data is immediate.



Data and identity protection system
The separator can collect information in multiple dimensions including ID card, face, fingerprint and bar code. Then the system will recognize the accurate information from the database, ensuring no inaccuracy of donor or recipient information is contaminated.



The monitor prevents manual process errors
The separator will emit an alarm sound and corresponding text prompt when there is any misaligned of anticoagulant. If this occurs the system is unable to carry out the next operation, which completely eliminates the risk of infusion error, and avoids any accident that endangers the safety of the plasma donor.



Maintain & Protect Blood
Centrifuge cup adopts new patented technology to gently protect blood activity so that blood is safer.



Automatic data processing
The separator can record and upload consumables and collect data automatically and intelligently without manpower, this improves efficiency and prevents errors, which saves medical staff precious time and reduces stress.



Comprehensive monitoring surveillance system
All-directional multi-angle monitoring plasma collection process. Exclusive design of blood pump and anticoagulation pump. Adaptive compensation function is more compatible with consumables from different manufacturers. No wearing parts. Stable flow. Accurate control of blood cell access ratio. Multi-level alarm system can find any errors.



Compatible with accurate capacity optimization
It can be used with 160ml anticoagulant bags to accurately match actual needs, which means cost reduction and environmentally friendly improvements. Consumables are versatile and compatible with multiple models.

Specifications

Model	Power supply (V/Hz)	Exterior dimensions (W*D*H) (mm)	Gross weight (kg)
XJ-II	220~/50	540*510*770	29

Parameters	Amount collected per cycle (g)	Total plasma collection (g)	Pump speed (ml/min)	Return speed (ml/min)	Anticoagulant (Citrate) to whole blood ratio	Centrifuge speed (r/mim)
Range	0~300	0~1000	20~100	20~100	1:12~1:16	7000
Preset	230	600	80	80	1:16	7000
Precision	1	1	≤2	≤2	<1	≤2.5%

This product is composed of a mainframe (Centrifuge, blood pump, anticoagulant pump, weighing scale, display screen, air detector, pressure detector, control panel) and a pressure cuff, excluding the matching disposable pipe consumables.

Plasma Blast Freezer

Mainly applicable to the quick-frozen treatment of plasma products in blood stations or medical institutions.

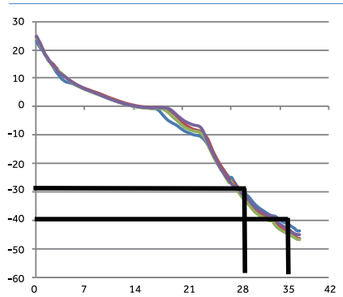


XSD-24FL

Features

- Traceability of each freezing cycle
- Maximum freezing efficiency
- Able to freeze all types and different sized plasma bags
- Easy-to-use interface
- Fast pre-cooling process
- Pneumatic lift
- Rollable, ready-to-plug in or external solution
- Night storage control
- Stainless steel plates
- Air cooled solutions

Performance Curve







Core temperature of plasma reaches -30°C within 30mins

Specifications

Model	Climate type	Power supply	Freezing capacity	Cooling method	Power cord	Dimension (head cover open) (mm)	Dimension (head cover close) (mm)	G.W/N.W (kg)
XSD-24FL	N	3N 400V/50hz/60hz	16 bags of 1000ml plasma or 24 bags of 500ml plasma	Forced air cooling	Crimp PTB	1455*915*1575	1455 *915*1375	480 /540

Standard Parts List

Picture	Description	Basic Solution	Premium Solution	List of Configuration	Features & Functions
	Blast Freezerr	●	●	1. XSD-24FL Blast Freezer 2. Analog sensor × 1 3. User's Manual × 1 4. Plug-in power cord × 1 5. Host computer software × 1 6. Dummy bag × 2	1. Rapid freezing of plasma, defrosting and locking 2. Pulls down the central temperature of blood bag to -30°C within 30mins 3. Standard software for host computer, to support query and printing of refrigeration data

Optional Parts List

Picture	Description	Basic Solution	Premium Solution	List of Configuration	Features & Functions
	Scanner	●	●	Wireless scanner × 1	1. Enables the user to input the barcode of blood bag 2. Wireless device for more convenient operation 3. Ensures accurate and quick scanning
	Pallet Cart	O	●	Pallet cart for plasma transfer × 1	1. Made of aluminum alloy sections, firm and durable 2. Universal wheels, for convenient operation
	Tray	O	●	Tray for plasma transfer × 1	1. Made of aluminum to ensure high thermal conductivity 2. Put in and take out conveniently and effectively plasma by using the tray
	Analog Sensor	O	●	Analog sensor × 1	Supports the accurate regulation of blood bag
	Dummy Bag	O	●	Dummy bag × 1	Equipped with internal temperature measuring tube, convenient for determining the temperature at the center of blood bag

Plasma Blast Freezer

Mainly applicable to the quick-frozen treatment of plasma products in blood stations or medical institutions.



XSD-48WFL

Product Advantages

Low rapid-freezing temperature

Rapid-freezing temperature can be reduced to -60°C, superior performance

Plate Rapid-Freezing, efficient Cooling

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

Data is printable and the information traceable

Plasma storage data and corresponding curves can be exported via USB, which is convenient for information traceability

Precise temperature control, control precision 1°C

PLC control module, the system is stable and reliable, temperature control precision 1°C, to ensure the safety of plasma

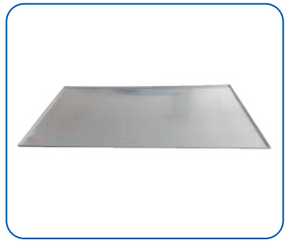
Efficient core components, energy saving

High efficiency compressor and dual-cooling system, better performance; Hydrocarbon refrigerant, energy saving and environmental protection

Optional Accessories

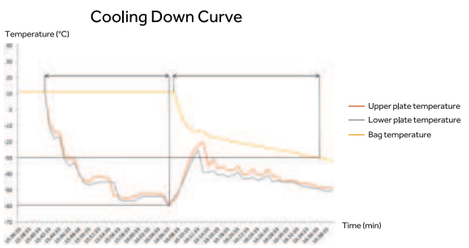


Trolley



Tray

Temperature Curve



Ergonomic Design

Flexible set up

The storage temperature, freezing time, and defrosting time can be flexibly set as required

Simple operation

All pre-cooling, freezing, defrosting procedures are controlled by PLC control module, simple operation, avoid wrong operation, ensure plasma safety

Rapid-freezing tray design

Rapid-freezing tray design, not only to improve the efficiency of plasma rapid-freezing, but also easy to save labor

Electric lifting system

Height control is more accurate and quieter than pneumatic lifting system

Password protection

Parameter setting is password protected to ensure plasma safety

Friendly interface

Friendly interface display design, clearer temperature observation

Specifications

Model	Cooling Type	Power Supply(V/Hz)	Cooling Method	Power Cord
XSD-48WFL	Forced Air Cooling	3N 380/50/60	Forced Air Cooling	Plug and play

External Dimensions (mm)		Weight (kg)		Plasma Bag Capacity		
Indoor machine	Outdoor machine	Indoor machine	Outdoor machine	1000ml bag	350ml bag	250ml bag
2040*880*1895	1500*860*1850	640/750	360*2/450*2	32	80	80

Product appearance and specifications are subject to change without notice

Plasma Blast Freezer

Mainly applicable to the quick-frozen treatment of plasma products in blood stations, plasma stations or medical institutions



XSD-24WFL

Ergonomic Design

Rapid-freezing tray design
Rapid-freezing tray design, not only to improve the efficiency of plasma rapid-freezing, but also reduces personnel hours

Simple operation
All pre-cooling, freezing, defrosting procedures are controlled by PLC control module, simple operation, avoid errors and ensures plasma safety

Electric lifting system
Height control is more accurate and quieter than pneumatic lifting system

Password protection
Parameter setting is password protected to ensure plasma safety

Flexible setup
The storage temperature, freezing time, and defrosting time can be flexibly set as required

User-friendly interface
Easy to use and view temperature data via clear and intuitive interface

Product Advantages

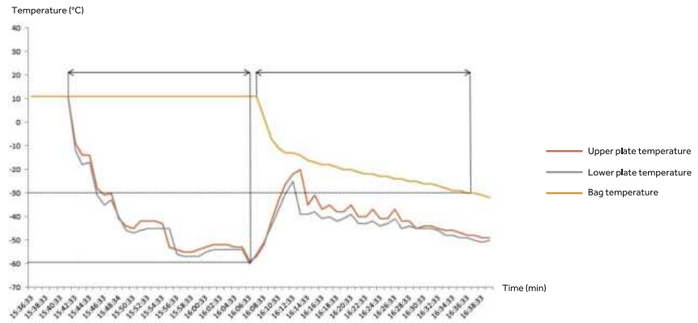
Plate rapid-freezing
Contact refrigeration of upper and lower cold plates. Blood bags are placed between the upper and lower cold plates to achieve rapid freezing through contact and heat conduction. The appearance of quick-frozen blood bags is smooth

Double stage cooling system
The refrigeration efficiency is 20% higher than that of single stage. Compared with single-stage compressor, double-stage compressor is more stable, more efficient and has a faster cooling speed at low temperature

Split-style design
Placing the fan and compressors outdoors reduces the noise and heat output for an improved operator environment

Intelligent screen
The 10-inch touch screen is convenient to view the temperature curve and data, record the rapid-freezing time in real time, and adjust the temperature parameters through the display screen, which is efficient and quick

Cooling Down Curve



Specifications

Model	Rapid-cooling Type	Power Supply (V/Hz)	Cooling Method	Power Cord	Exterior Dimensions (W*D*H)(mm)	Weight (Kg)
XSD-24WFL	Plate contact quick-freezing	3N 380/50/60	Forced Air Cooling	Plug and play	(Indoor machine / Outdoor machine) open status:1455*915*1665 close status:1455*915*1465/ 1700*1000*2200	(Indoor machine / Outdoor machine) 320/360

*Haier Biomedical reserves the right to change products and specifications without prior notice.

Platelet Incubator with Agitator

This incubator includes an integrated platelet agitator and is designed to create the optimal storage environment of platelets after collection. Suitable for hospitals, blood stations and research applications.



HXZ-149



HXZ-1369

Product Advantages

Data Traceability

- Real-time temperature monitoring, records and stores historical data, alarm records and events
- USB interface, convenient and safe data transfer

Energy Saving

Peltier technology, PID algorithm adjustment, energy saving 13% than the traditional compressor

Multiple Alarms

Multiple alarms including high and low temperature alarm, power failure alarm, sensor failure alarm, door ajar alarm, low battery alarm, abnormal alarm of oscillating motor, remote alarm ensures maximum safety

Superior Insulation Performance

60mm thickened foam layer. In the event of a power failure within a 25°C ambient and a full load, the warm up time from 22°C to 24°C in the center of the chamber is more than 4 hours

Reliable Oscillation

The agitator mechanism is equipped with an alarm and calibration device to ensure platelet quality

Peltier Technology

Semiconductor temperature control, internal temperature is maintained at 22°C±1°C

Low Noise

Semiconductor and EBM oscillating motor provide a quiet working environment

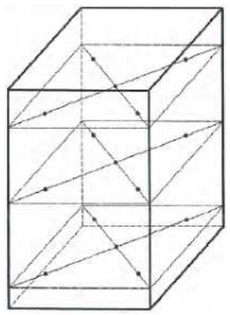
Ultraviolet Disinfection

The UV disinfection function helps maintain a sterile environment

Variable Agitation Speed

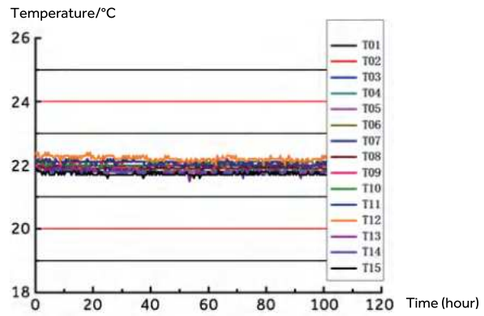
Slide to adjust agitation speed (30-80 cycles/ minute) to meet the customer needs

Product Performance



HXZ-149 15 test points

HXZ-149 Running temperature curve (Empty loaded)



Temperature uniformity: 22±1°C
Single point temperature fluctuation＜0.5°C

Specifications

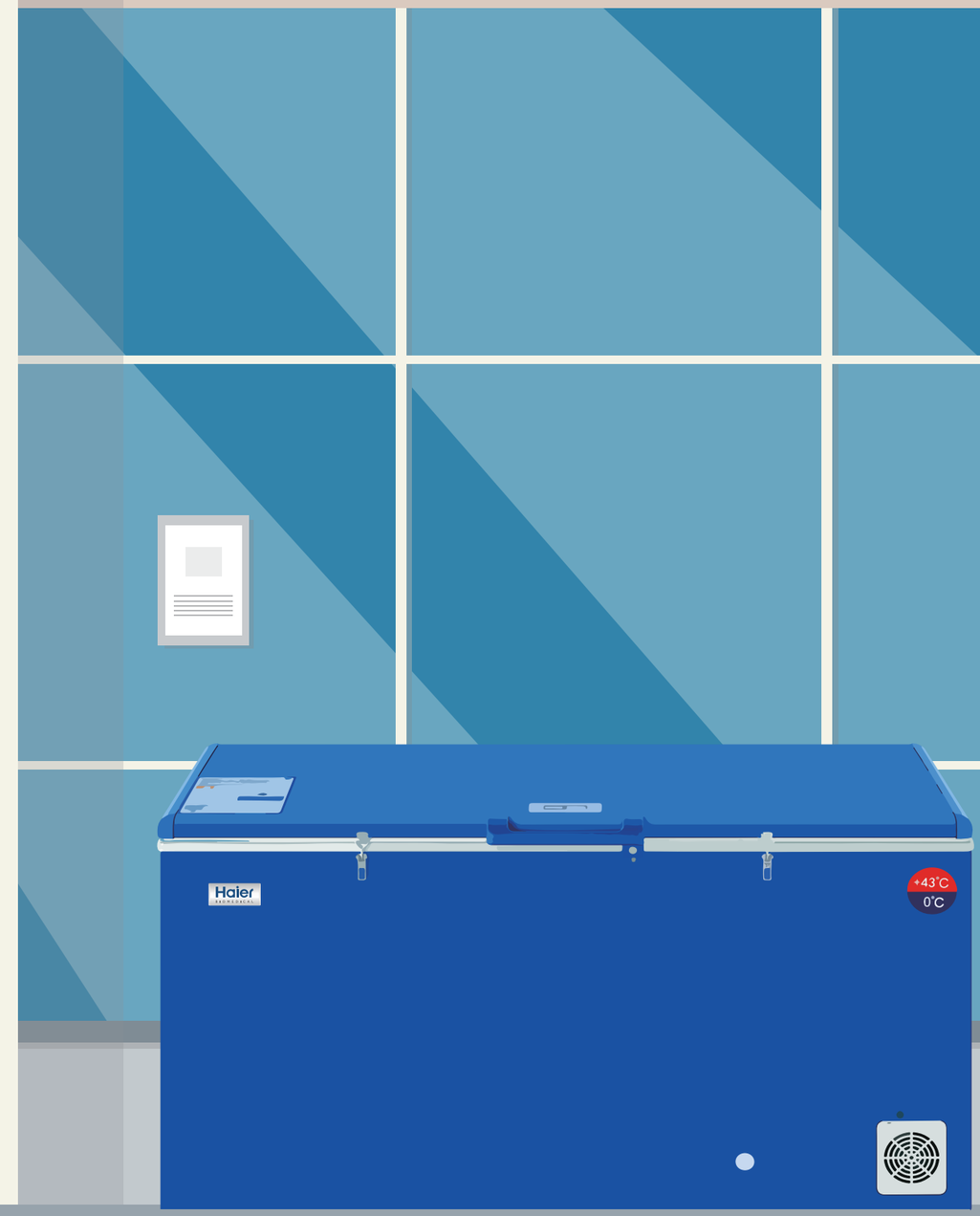
Model	HXZ-149	HXZ-1369
Temperature Range (°C)	20-24	20-24
Oscillation Range (mm)	50	50
Oscillation Frequency (times/min)	60	60
Power Supply (V/Hz)	200-240/50	200-240/50
Exterior Dimensions (mm)	625*795*1050	1545*915*1945
Interior Dimensions (mm)	505*560*610	1425*680*1455
Effective Capacity (L)	149	1369
Tray	9	18
Maximum Storage Capacity (300ml blood bags)	36	216
Net Weight(approx) (kg)	94/122	412/480

*Haier Biomedical reserves the right to change products and specifications without prior notice.

Haier Biomedical
Intelligent Protection of Life Science

Vaccine Storage





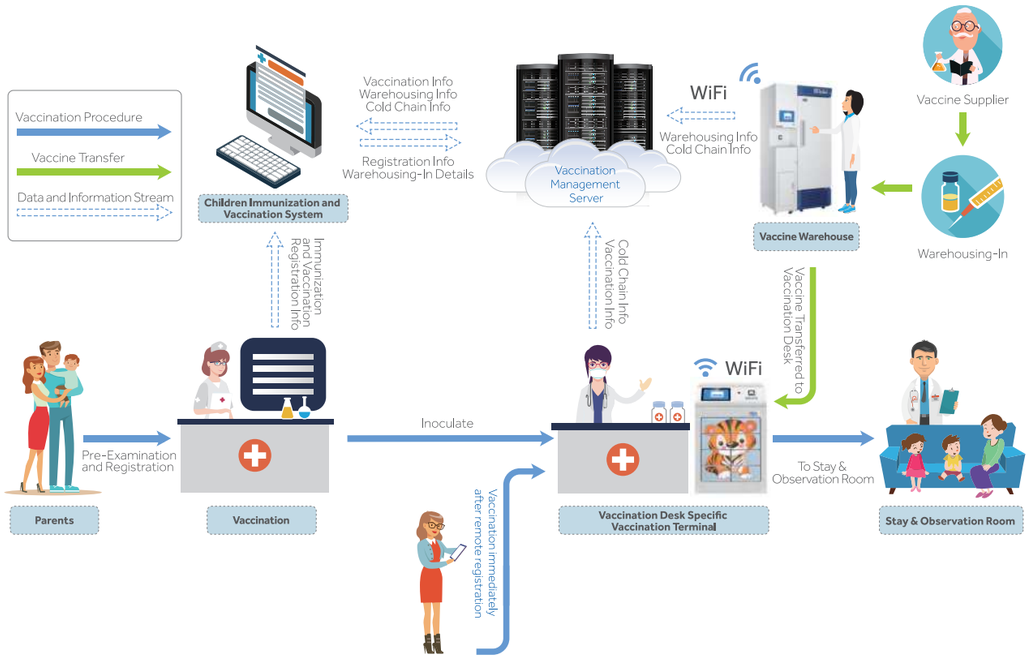
Smart Vaccine refrigerator

Haier Smart Vaccine

Haier Biomedical developed the Smart Vaccination Solution, by improving the conventional vaccination process, adopting advanced refrigeration technology, automation and intelligent vaccine delivery by incorporating IoT technologies. By connecting and leveraging the existing digital outpatient service system, the vaccination process can be managed as follows:

- After the vaccination record is scanned, the IoT based vaccination refrigerator will automatically and immediately eject the required vaccine.
- A 'double check' scan of the medical code to confirm a "Correct" & "Valid" vaccine prior to patient administration.
- Standardised vaccination process produces zero error.
- The vaccination records will be uploaded in real-time to the system. Records are traceable, making it possible to trace a specific vaccine code back to a specific child.

Smart Vaccine Safe Vaccination Solution



Safe, Worry-free and Intelligent Vaccine Management

3 Key Advantages

- Right patient-vaccine information management system (VIMS) confirms correct patient required for the vaccination
- Right vaccine-vaccine is automatically selected and delivered and double-checked by VIMS to ensure right medicine can and should be administered
- Exchange of vaccine, child and vaccination information, end-to-end visibility and transparency, plus immediate freezing of vaccines upon expiration or in question, ensure the high reliability of the vaccination programme.

Smart Vaccine Storage Solution

Vaccine storage management is an essential step to ensure vaccine safety. However, most of the vaccine storage refrigerators used by the vaccination stations are household refrigerators or ordinary medical refrigerators, without storage management functions, making it difficult to operate a first-in-first-out methodology. Haier's intelligent vaccine preservation refrigerator solves the problem of manual (pen and paper) vaccine management, which is time-consuming and laborious.

Smart Vaccine Refrigerator

Smart Vaccine Preservation Refrigerator and Smart Vaccination Refrigerator are provided with a VIMS (Vaccine Information Management System) software to improve the vaccination experience.

1 Smart Vaccine Preservation Refrigerator can improve the work efficiency of nurses by removing manual inventory-taking and warehouse operations by leveraging the classification based storage, electronic regulatory code based management, data and information stream management.



HYC- 361

Classification based storage

Each standard refrigerator is provided with 21 compartments in 7 layers. Each compartment can distinguish different lots of vaccines by applying specific first-in-first-out rules. Different kinds of vaccines can be stored upon such classification to effectively reduce the errors during the warehousing-in / out operations.



The smallest package units

The warehousing-in/out operations are verified based on the electronic regulatory codes to realize the full digitalization and automation of vaccine management, and guarantee the accuracy and validity of vaccine storage data.



Data and information streams

The data can be exchanged quickly between the vaccine warehouse and the vaccination desk. Vaccination program manager or disease control centre manager utilizes the vaccination management server, to monitor in real-time all vaccines stored by each vaccination station/centre.



2 The Smart Vaccination Refrigerator, used at vaccination stations, can reduce the workload of nurses during the dispensing and checking of vaccines. The automated accurate vaccine dispensing, minimum temperature fluctuation, reconfirmation of vaccine information, electronic information system, integrated nurse station and other functions ensure zero vaccination error.



HYC- 61

Automated accurate vaccine dispensing

The vaccine will be ejected automatically after the Vaccination Record is scanned; The Regulatory Code will be scanned automatically to reconfirm the information of vaccine, including the inventory, expiration dates and cold chain early warnings;
The time of dispensing can be shortened, and the rate of vaccination errors can be reduced effectively.



Reduce temperature fluctuation

The refrigerator is divided into 8 independent chambers, and the small door of each chamber can be opened for taking out the vaccine required as quick as possible, to minimize the door opening time. The internal temperature fluctuation can be minimized to ensure the safe storage of vaccines.



A Double Check

The warehousing-in/out and dispensing of vaccines can be verified by using the electronic regulatory codes. The vaccination can be conducted only after the vaccine to be used is verified by scanning the code.
This function can guarantee the accurate vaccination effectively.



Integrated nurse workstation

The queue management, vaccination management, vaccination information input, real-time cold chain control and authorization management are integrated into the vaccination desk vaccine refrigerator.
Multiple tasks are centralized to streamline the overall management.



Smart Vaccine refrigerator





Specifications

	Model		HYC-61	HYC-361	HYC-361 Scanner Cabinet
Technical Data	Cabinet Type		Upright	Upright	Upright
	Climate Class		N	N	N
	Cooling Type		Forced Air Cooling	Forced Air Cooling	/
	Defrost Mode		Manual+ Auto defrost	Manual+ Auto defrost	/
	Refrigerant		HC	HC	/
	Sound Level (dB(A))		≤41	≤41	/
Performance	Temperature Range (°C)		2~8	2~8	/
Control	Controller		Microprocessor	Microprocessor	/
	Display		10.1 inch touch screen	/	10.1 inch touch screen
Electrical Data	Power Supply (V/Hz)		220/50	220/50	/
	Power (W)		230	254	/
	Electrical Current (A)		1.5	1.6	/
	Power Consumption (kWh/24h)		1.8	1.5	/
Dimensions	Capacity (L/Cu.Ft)		61/2.15	361/12.75	/
	Net/Gross Weight (approx)	kg	80/90	116/139	36/42
		lbs	176/198	255.7/306.4	79.2/92.4
	Interior Dimensions (W*D*H)	mm	560*460*630	530*555*1380	/
		in	22*18.1*24.8	20.8*21.9*54.3	/
	Exterior Dimensions (W*D*H)	mm	600*600*935	980*680*1980	315*710*1965
		in	23.5*22.6*37.1	38.6*26.8*78	12.4*28*77.4
	Packing Dimensions (W*D*H)	mm	670*660*1110	1055*755*2110	420*744*2042
		in	26.4*26*43.7	41.6*29.8*83.1	16.5*29.3*80.4
	Container load (20'/40'/40'H)		54/102/102	23/46/46	/
Alarms	High/Low Temperature		Y	Y	/
	Remote Alarm		Y	Y	/
	Power Failure		Y	Y	/
	Sensor Error		Y	Y	/
	Door Ajar		/	Y	/
Accessories	Caster		Y	Y	/
	Foot		Y	Y	/
	Porthole		/	Y	/
	Shelves/Drawers		Y	Y	/
	USB Interface		/	Y	/
Certifications	Registeration certification for medical equipment		Y	Y	/
	CE		Y	Y	/

Product appearance and specifications are subject to change without notice

Solar Direct Drive Combined Refrigerator/Freezer

The combined refrigerator with freezer is designed to store vaccines, reagents and to freeze ice packs. Suitable for remote and sunny regions where power shortages are common. Freezers are only designed to freeze the ice packs and not applicable for the storage of vaccines.



HTCD-90

Temperature Control

- Electronic temperature controller, digital temperature display, the display precision is 0.1°C and the control range is 2~8°C
- Solar energy temperature display system, without the need for a battery backup system

High Performance

- World Health Organization Certified (PQS certification)
- Class A anti-freeze
- Low temperature thermal compensation to prevent vaccine freezing
- 140mm insulation provides excellent thermal efficiency
- Broad working ambient temperature range of 5~43°C , outstanding performance
- Internal and external double-door designs to ensure superior insulation performance

Ergonomic Design

- Intelligent control
- The height of the temperature display screen is moderate, and the inner temperature can be checked at any time
- Safety door lock
- Low DC voltage ensures personal safety
- Plug-and-play type quick plug, positive and negative pole error-proof
- External door handle with door lock design to prevent random opening of the door to ensure vaccine safety
- Built-in handgrips on both sides of the cabinet facilitate overall movement
- The daily freezing volume of the freezer is 2.4kg, meeting the daily requirement

Safety System

- Sensor error alarm, high and low temperature alarm
- Alarm mode: sound buzzer alarm and light flashing alarm
- Key components such as compressors and fans are designed for purpose to ensure the reliability and safety of stored items

Environmental Protection

- Environmentally friendly hydrocarbon refrigerant R600a and foam material LBA
- The shell is coated with cold rolled steel plate, and the inner liner is made of 1.0mm alumina, easy to recycle
- Ultra low GWP value
- Without any battery

Solar Direct Drive Combined Refrigerator/Freezer

Specifications

	Model		HTCD-90
Technical Data	Cabinet Type		Chest
	Ambient Temperature (°C)		5~43
	Cooling Type		Direct cooling
	Defrost Mode		Manual
	Refrigerant		HC
	Sound Level (dB(A))		＜38
Performance	Temperature Range (°C)		Freezer ≤-10 Refrigerator: 2~8
	Waterpack Storage Capacity (kg)		12.52
	Waterpack Freezing Capacity (kg/24h)		2.43
	Freezer Protection Level		A
Control	Controller		Microprocessor
	Display		Solar LED Temperature display
Electrical Data	Power supply (V)		24
	Maximal Current (A)		7
	Energy Consumption: Stable Running (kWh/24h)		0.86
	Energy Consumption: Cool Down Test (kWh/24h)		0.81
	Holdover time at 43°C		137hrs47mins
	Holdover time at 32°C		169hrs6mins
	Autonomy Time at 43°C		114hrs 56mins
	Solar Radiation Reference Period (kWh/m²/day)		3.5
Construction	Vaccine Storage Capacity (L/Cu.Ft)		37.5/1.3
	Gross Volume (L/Cu.Ft)		Refrigerator: 58/2.1 Freezer： 32 /1.1
	Net/Gross Weight (approx)	kg	83/113
		lbs	183.0/250.0
	Interior Dimensions (W*D*H)	mm	Cooling Chamber： 270*345*555 Freezer Chamber： 170*370*555
		in	Cooling Chamber: 10.6*13.6*21.9 Freezer Chamber: 6.7*14.6*21.9
	Exterior Dimensions (W*D*H)	mm	1128*720*875
		in	44.4*28.3*34.3
	Packing Dimensions (W*D*H)	mm	1190*770*1080
		in	46.9*30.3*42.5
Loading Quantities	Container Load (20'/40'/40'H)		26/56/56
Alarm	Sensor Error		Y
Accessories	Baskets		2
	Data Logger		Y
Certifications	CE		Y
	WHO/PQS		Y

Product appearance and specifications are subject to change without notice

Solar Direct Drive Vaccine Refrigerator

Applicable for the storage of biological products and items that need to be stored under the condition of 2~8°C within pharmacies, pharmaceutical factories, epidemic prevention stations, health centers and hospitals as key examples.





HTC-40/110/112

Solar Direct Drive Vaccine Refrigerator

Temperature Control

- Electronic temperature controller, digital temperature display, the display precision is 0.1°C and the control range is 2°C~8°C
- Solar power temperature display system, without the need of battery

Ergonomic Design

- Intelligent control, no adjustment required
- The height of the temperature display screen is moderate, and the inner temperature can be checked at any time
- Safety door lock
- Low DC voltage ensures personal safety
- Plug-and-play type quick plug, positive and negative pole error-proof
- External door handle with door lock design to prevent random door to ensure vaccine safety
- Built-in handgrips on both sides of the box body facilitate overall movement

Superior Performance

- World Health Organization Certified (PQS certification)
- Class A antifreeze
- Excellent hold-over times ensure the safety of vaccines
- Low temperature thermal compensation to prevent vaccine freezing
- 140mm insulation provides excellent thermal efficiency
- Wide working ambient temperature range of 5~43°C
- Internal and external double door design, better thermal insulation performance

Safety System

- Sensor error alarm, high and low temperature alarm
- Alarm mode: sound buzzer alarm and light flashing alarm
- Key components like compressors and fans are designed for purpose to ensure reliability and safety of stored items

Environmental Protection

- Environmentally friendly hydrocarbon refrigerant R600a and foam material LBA
- The shell is coated with cold rolled steel plate, and the inner liner is made of 1.0mm alumina, which is easy to recycle
- Ultra low GWP value
- Don't use any batteries

Specifications

	Model		HTC-40	HTC-110	HTC-112
Technical Data	Cabinet Type		Chest	Chest	Chest
	Ambient Temperature (°C)		5~43	5~43	5~43
	Cooling Type		Direct Cooling	Direct Cooling	Direct Cooling
	Refrigerant		HC	HC	HC
	Sound Level (dB(A))		＜30	＜30	<30
Performance	Temperature Range (°C)		2~8	2~8	2~8
	Freezer Protection Level		A	A	A
Control	Controller		Microprocessor	Microprocessor	Microprocessor
	Display		Solar LED temperature display	Solar LED temperature display	Solar LED temperature display
Electrical Data	Power supply (V)		24	24	24
	Maximal Current (A)		5	5	5
	Energy Consumption: Stable Running (kWh/24h)		0.69	0.58	0.59
	Energy Consumption: Cool Down Test (kWh/24h)		0.71	0.62	0.62
	Holdover time at 43°C		122hrs18mins	106hrs17mins	/
	Holdover time at 32°C		162hrs36mins	152hrs28mins	/
	Autonomy Time at 43°C		117hrs18mins	96hrs24mins	92hrs46mins
	Solar Radiation Reference Period (kWh/m²/day)		3.5	3.5	3.5
Dimensions	Vaccine Storage Capacity (L/Cu.Ft)		22.5/0.8	59/2.08	75/2.65
	Gross Volume (L/Cu.Ft)		40/1.4	110/3.88	110/3.88
	Net/Gross Weight (approx)	kg	57/82	75/105	75/105
		lbs	125.6/180.7	165/231.5	165/231.5
	Interior Dimensions (W*D*H)	mm	200*345*555	545*345*555	545*345*555
		in	7.9*13.6*21.85	21.5*13.6*21.9	21.5*13.6*21.9
	Exterior Dimensions (W*D*H)	mm	788*720*875	1128*720*875	1128*720*875
		in	31.0*28.3*34.4	44.4*28.3*34.4	44.4*28.3*34.4
	Packing Dimensions (W*D*H)	mm	850*770*1080	1190*770*1080	1190*770*1080
		in	33.4*30.3*42.5	46.9*30.3*42.5	46.9*30.3*42.5
	Container Load (20'/40'/40'H)		36/78/78	26/56/56	26/56/56
Alarm	Sensor Error		Y	Y	Y
Accessories	Baskets		2	4	4
	Data Logger		Y	Y	Y
Certifications	CE		Y	Y	Y
	WHO/PQS		Y	Y	Y

Product appearance and specifications are subject to change without notice

Solar Direct Drive Vaccine Refrigerator

Applicable for the storage of vaccines and reagents within clinics, health centres, hospitals, public health and research organisations in remote and sunny regions where power shortages are common.



HTC-120 HTC-240

Ergonomic Design

- Intelligent control
- High performance insulation with superior thermal efficiency
- Safety door lock
- Low DC voltage ensures personal safety

Temperature Control

- Electronic temperature controller, digital temperature display, the display precision is 0.1°C and the control range is 2°C~8°C
- Low temperature thermal compensation to prevent vaccine freezing

Safe and Reliable

- Plug-and-play type quick plug, positive and negative pole error-proof
- Solar powered display panel shows refrigerator and freezer interior temperature without the need for a battery backup

Superior Insulation Performance

- World Health Organization Certified (PQS certification)
- Excellent autonomy time ensures the safety of vaccines
- 140mm insulation provides excellent thermal efficiency
- Broad working ambient temperature range of 5~43°C
- Door construction, seals and door handles maximizes door sealing effectiveness to reduce thermal loss

Safety System

- Sensor error alarm, high and low temperature alarm
- Alarm mode: sound buzzer alarm and light flashing alarm
- Key components like compressors and fans are designed for purpose to ensure reliability and safety of stored items

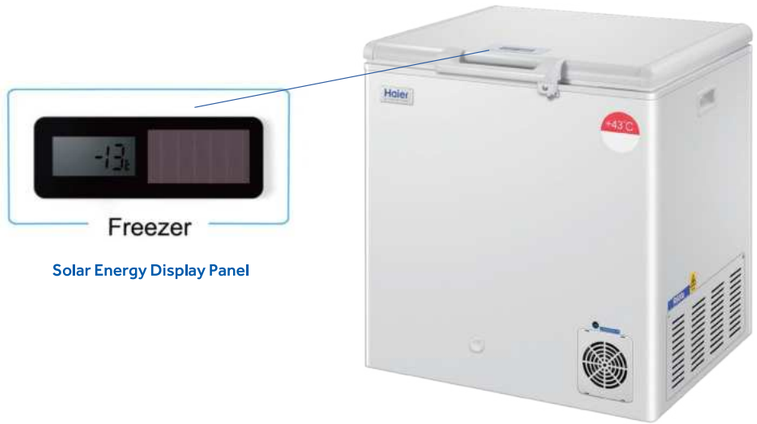
Specifications

	Model		HTC-120	HTC-240
Technical Data	Cabinet Type		Upright	Upright
	Ambient Temperature (°C)		5~43	5~43
	Cooling Type		Direct Cooling	Direct Cooling
	Defrost Mode		No electric heating defrost	No electric heating defrost
	Refrigerant		HC	HC
	Sound Level (dB(A))		≤43	≤43
Performance	Temperature Range (°C)		2~8	2~8
	Freezer Protection Level		A	A
Control	Controller		Microprocessor	Microprocessor
	Display		Solar LED Temperature display	Solar LED Temperature display
Electrical Data	Power supply (V)		24	24
	Maximal Current (A)		5	5
	Energy Consumption: Stable Running (kWh/24h)		0.44	0.35
	Energy Consumption: Cool Down Test (kWh/24h)		0.48	0.54
	Autonomy Time at 43°C		112hrs24mins	95hrs23mins
	Autonomy Time at 32°C		183hrs20mins	151hrs10mins
	Solar Radiation Reference Period (kWh/m²/day)		3.5	3.5
Dimensions	Vaccine Storage Capacity (L/Cu.Ft)		100/3.5	200/7.1
	Gross Volume (L/Cu.Ft)		120/4.2	240/8.5
	Net/Gross Weight (approx)	kg	130/160	150/185
		lbs	286/352	330/407.9
	Interior Dimensions (W*D*H)	mm	530*500*530	530*500*960
		in	20.9*19.7*20.9	20.9*19.7*37.8
	Exterior Dimensions (W*D*H)	mm	865*825*1422	865*825*1815
		in	34*32*56	34*32*71
	Packing Dimensions (W*D*H)	mm	980*920*1585	980*920*1980
		in	38.6*36.2*62.4	38.6*36.2*78
	Container Load (20'/40'/40'H)		12/24/24	12/24/24
Alarm	Sensor Error		Y	Y
Accessories	Baskets		Y	Y
	Shelves		3	4
	Data Logger		Y	Y
Certifications	CE		Y	Y
	WHO/PQS		Y	Y

Product appearance and specifications are subject to change without notice

Solar Direct Drive Vaccine Freezer

This product is desgined to freeze ice packs in remote and sunny regions where power shortages are common.



HTD-40

High Performance

- World Health Organization Certified (PQS certification)
- Equipped with ice pack pressing device, enabling the ice-pack plastered to the liner, speed up the water pack freezing
- The thickness of insulation layer is 140mm to better store the freezed ice-packs
- Broad working ambient temperature range of below 43°C, outstanding performance
- Internal and external double door design, superior insulation performance

Environmental Protection

- Environmentally friendly hydrocarbon refrigerant R600a and foam material LBA
- The shell is coated with cold rolled steel plate, and the inner liner is made of 1.0mm alumina, which is easy to recycle.
- Ultra low GWP value
- Without any battery

Ergonomic Design

- Intelligent control
- The height of the temperature display screen is moderate, and the inner temperature can be checked at any time
- Safety door lock
- Low DC voltage ensures personal safety
- Plug-and-play type quick plug, positive and negative pole error-proof
- Built-in handgrips on both sides of the box body facilitate overall movement
- Compressor indicator light, indicating the system work status
  Two-chamber design: Ice pack freezer and ice pack storage chamber

Temperature Control

- Electronic temperature controller, digital temperature display, the display precision is 0.1°C, during the day the temperature can reach -10°C
- Solar energy temperature display system, driven by natural light

Safety System

High performance key components (compressor, fan, controller, etc.), safe and reliable

Specifications

	Model		HTD-40
Technical Data	Cabinet Type		Chest
	Ambient Temperature (°C)		≤43
	Cooling Type		Direct Cooling
	Defrost Mode		Manual
	Refrigerant		HC
	Sound Level (dB(A))		<30
Performance	Temperature Range (°C)		<-10
	Waterpack Storage Capacity (kg)		20
	Waterpack Freezing Capacity (kg/24h)		2.4
Control	Controller		Microprocessor
	Display		Solar LED Temperature Display
Electrical Data	Power supply (V)		24
	Maximal Current (A)		5
	Energy Consumption: Stable Running (kWh/24h)		0.46
	Energy Consumption: Cool Down Test (kWh/24h)		0.50
	Autonomy Time at 43°C		5 days
	Solar Radiation Reference Period (kWh/m²/day)		3.5
Dimensions	Gross Volume (L/Cu.Ft)		48/1.7
	Net/Gross Weight (approx)	kg	65/85
		lbs	143.0/187.4
	Interior Dimensions (W*D*H)	mm	Waterpack Freezer: 135*370*310 Waterpack Storage Chamber: 265*370*555
		in	Waterpack Freezer: 5.3*14.6*12.2 Waterpack Storage Chamber: 10.4*0.6*0.5
	Exterior Dimensions (W*D*H)	mm	788*720*875
		in	31.0*28.3*34.3
	Packing Dimensions (W*D*H)	mm	850*770*1080
		in	33.4*30.3*42.5
	Solar Panel (L*W*D)	mm	1335*990*40
		in	52.6*39.0*1.6
	Container Load (20'/40'/40'H)		36/78/78
Alarm	Sensor Error		Y
Accessories	Baskets		2
Certifications	CE		Y
	WHO/PQS		Y

Product appearance and specifications are subject to change without notice

Solar Direct Drive Blood Refrigerator

Applicable for storing wholeblood, medicines, biological products and other laboratory products that need to be stored at 4°C.
Suitable for the storage of blood and blood articles in areas that have power shortages.

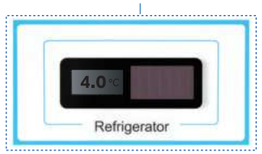




Lock Catch Designed to Match Padlock



Handgrip



Display Panel

- It is equipped with 16 blood baskets, each basket can hold 12 blood bags, and a total of 192 blood bags can be stored (350ml blood bags)
- Electronic temperature controller, digital temperature display, the display precision is 0.1°C and the control range is 2°C~8°C
- Excellent autonomy time ensures the safety of blood
- Broad working ambient temperature range of 5~43°C
- Solar direct drive refrigerator without battery
- Vertical structure, first-in first-out, easy operation
- Environmentally friendly hydrocarbon refrigerant R600a and foam material LBA
- Automatic drainage design

Specifications





Model		HTXC-120	HTXC-240
Technical Data	Cabinet Type	Upright	Upright
	Ambient Temperature (°C)	≤43	≤43
	Cooling Type	Direct Cooling	Direct Cooling
	Defrost Mode	No electric heating defrost	No electric heating defrost
	Refrigerant	HC	HC
	Sound Level (dB(A))	≤43	≤43
Performance	Temperature Range (°C)	2~8	2~8
	Freezer Protection Level	A	A
Control	Controller	Microprocessor	Microprocessor
	Display	Solar LED Temperature display	Solar LED Temperature display
Electrical Data	Power supply (V)	24	24
	Maximal Current (A)	5	5
	Energy Consumption: Stable Running (kWh/24h)	0.44	0.35
	Energy Consumption: Cool Down Test (kWh/24h)	0.48	0.54
	Autonomy Time at 43°C	112hrs24mins	95hrs23mins
	Autonomy Time at 32°C	183hrs20mins	151hrs10mins
	Solar Radiation Reference Period (kWh/m²/day)	3.5	3.5
Dimensions	Blood Storage Capacity (350ml Blood Bags)	108	144
	Gross Volume (L/Cu.Ft)	120/4.2	240/8.5
	Net/Gross Weight (approx) kg	130/160	150/185
	Net/Gross Weight (approx) lbs	286/352	330/407.9
	Interior Dimensions (W*D*H) mm	530*500*530	530*500*960
	Interior Dimensions (W*D*H) in	20.9*19.7*20.9	20.9*19.7*37.8
	Exterior Dimensions (W*D*H) mm	865*825*1422	890*825*1815
	Exterior Dimensions (W*D*H) in	34*32*56	35*32*71
	Packing Dimensions (W*D*H) mm	980*920*1585	985*920*1980
	Packing Dimensions (W*D*H) in	38.6*36.2*62.4	38.8*36.2*78
	Container Load (20'/40'/40'H)	12/24/24	12/24/24
Alarms	High/Low Temperature	Y	Y
	Sensor Error	Y	Y
Accessories	Shelves	3	4
	Data Logger	Y	Y
	Remote Temperature Monitoring Device(RTMD)	Optional	Optional
Certifications	CE	/	/
	WHO/PQS	/	/

Product appearance and specifications are subject to change without notice

Ice-Lined Refrigerator

The combined refrigerator with freezer is designed to store vaccines, reagents and to freeze ice packs. Suitable for vaccination stations, epidemic prevention stations, healthcare centers, pharmaceutical factories as key examples.Freezers are only designed to freeze the ice packs and not applicable for the storage of vaccines.



Solar Energy Display Panel



HBCD-90

Temperature Control

- Electronic temperature controller, digital temperature display, the display precision is 0.1℃ and the control range is 2~8℃
- Solar powered display panel shows interior temperature through natural light sources

Safety System

- Sensor error alarm, high/low temperature alarm
- Alarm mode: sound buzzer alarm and light flashing alarm
- Key components such as compressors and fans are designed for purpose to ensure the reliability and safety of stored items

Superior Performance

- Complies with WHO PQS specification E003/RF03.4
- Super long holdover time to ensure vaccine safety
- The daily frozen ice volume of the freezer is 4.0KG, which can meet the daily use
- Broad working ambient temperature range of 5~43℃ , outstanding performance

Ergonomic Design

- Intelligent control, no adjustment required
- The height of the temperature display screen is moderate, and the inner temperature can be checked at any time
- External door handle with door lock design to prevent random opening of the door to ensure vaccine safety
- Built-in handgrips on both sides of the cabinet facilitate overall movement

Environmental Protection

- Environmentally friendly hydrocarbon refrigerant R600a and foam material LBA
- The shell is coated with cold rolled steel plate, and the inner liner is made of 1.0mm alumina, easy to recycle
- Ultra low GWP value
- Without any battery

Specifications

Model			HBCD-90
Technical Data	Cabinet Type		Chest
	Ambient Temperature (℃)		5~43
	Cooling Type		Direct Cooling
	Defrost Mode		Manual
	Refrigerant		HC
	Sound Level (dB(A))		＜40
Performance	Temperature Range (℃)		Freezer ≤-10 Refrigerator: 2~8
	Waterpack Storage Capacity (kg)		16
	Waterpack Freezing Capacity (kg/24h)		4
	Freezer Protection Level		A
Control	Controller		Microprocessor
	Display		Solar LED Temperature display
Electrical Data	Power Supply (V/Hz)		220~240/50
	Power (W)		190
	Electrical Current (A)		1
	Power Consumption:stable running (kWh/24h)		0.9
	Power Consumption: cool down test (kWh/24h)		1
	Holdover Time at 43℃		63hrs48mins
	Holdover Time at 32℃		132hrs21mins
Dimensions	Vaccine Storage Capacity (L/Cu.Ft)		30/1.1
	Gross Volume (L/Cu.Ft)		Refrigerator:42/1.5 Freezer:32/1.1
	Net/Gross Weight (approx)	kg	105/135
		lbs	231/298
	Interior Dimensions (W*D*H)	mm	Refrigerator Chamber:279*273*556 Freezer Chamber:166*366*580
		in	Refrigerator Chamber:11*10.8*21.9 Freezer Chamber:6.5*14.4*22.8
	Exterior Dimensions (W*D*H)	mm	1128*717*872
		in	44.4*28.2*34.3
	Packing Dimensions (W*D*H)	mm	1190*770*1080
		in	47*30*42.5
	Container Load (20'/40'/40'H)		26/56/56
Alarms	High/Low Temperature		Y
	Sensor Error		Y
Accessories	Baskets		4
	Data logger		Y
	30 Days Temperature Logger		Optional
	Automatic Voltage Stabilizer		Optional
	Remote Temperature Monitoring Device (RTMD)		Optional
Certifications	CE		Y
	WHO/PQS		Y

Product appearance and specifications are subject to change without notice

Ice-Lined Refrigerator

Suitable for pharmacies, pharmaceutical factories, epidemic prevention stations, health centers, hospitals as key examples. Used to store biological products and items that need to be stored under the condition of 2~8°C.



Solar Energy Display Panel



HBC-150/260/80

Temperature Control

- Electronic temperature control, temperature digital display and the precision is 0.1°C, internal temperature range is 2°C~8°C
- Solar powered display panel shows interior temperature through natural light sources

Safety system

- Sensor error alarm, high/low temperature alarm
- Alarm mode: sound buzzer alarm and light flashing alarm
- All independent components are securely earthed
- Key components such as compressors and fans are QC approved

Superior performance

- World Health Organization Certified(PQS certification)
- Broad ambient temperature range of 5°C~43°C
- Broad voltage design, stable operation within ± 20% voltage range

Ergonomic design

- Intelligent control, no adjustment required
- High performance insulation with superior thermal efficiency
- Safety door lock

Specifications



	Model		HBC-80		HBC-150		HBC-260
Technical Data	Cabinet Type		Chest		Chest		Chest
	Ambient Temperature (°C)		5~43		5~43		5~43
	Cooling Type		Direct Cooling		Direct Cooling		Direct Cooling
	Refrigerant		HC		HC		HC
	Sound Level (dB(A))		<40		<40		<40
Performance	Temperature Range (°C)		2~8		2~8		2~8
	Freezer Protection Level		A		A		A
Control	Controller		Microprocessor		Microprocessor		Microprocessor
	Display		Solar LED Temperature Display		Solar LED Temperature Display		Solar LED Temperature Display
Electrical Data	Power Supply (V/Hz)		220~240/50	220~240/50/60	220~240/50	220~240/50/60	220~240/50/60
	Power (W)		110	140	120	150	165
	Electrical Current (A)		0.9	1.3	1	1.5	1.3
	Power Consumption:Stable Running (kWh/24h)		0.6	0.55	0.6	0.72	1.47
	Power Consumption:Cool Down Test (kWh/24h)		0.7	0.65	0.7	0.76	1.62
	Holdover Time at 43°C		59hrs58mins	57hrs34mins	60hrs50mins	57hrs55mins	62hrs
	Holdover Time at 32°C		98hrs26mins		96hrs23mins		117hrs24mins
Dimensions	Vaccine Storage Capacity (L/Cu.Ft)		61/2.2		122/4.3		211/7.5
	Gross Volume (L/Cu.Ft)		80/2.8		150/5.3		260/9.2
	Net/Gross Weight (approx)	kg	85/110		105/140		160/200
		lbs	187.6/242.7		231.7/308.9		353/441.3
	Interior Dimensions (W*D*H)	mm	500*366*560		840*366*560		1359*366*560
		in	19.7*14.4*22		33.1*14.4*22		53.5*14.4*22
	Exterior Dimensions (W*D*H)	mm	788*717*872		1128*717*872		1647*717*940
		in	31*28.2*34.3		44.4*28.2*34.3		64.8*28.2*37
	Packing Dimensions (W*D*H)	mm	850*770*1080		1190*770*1080		1720*770*1080
		in	33.5*30*42.5		47*30*42.5		67.7*30*42.5
	Container Load (20'/40'/40'H)		36/78/78		26/56/56		18/38/38
Alarms	High/Low Temperature		Y		Y		Y
	Sensor Error		Y		Y		Y
Accessories	Foot		/		/		Y
	Baskets(Standard/Max)		1/2		3/5		5/9
	Data logger		Y		Y		Y
	Automatic Voltage Stabilizer		Optional		Optional		Optional
	Remote Temperature Monitoring Device (RTMD)		Optional		Optional		Optional
Certifications	CE		Y		Y		Y
	WHO/PQS		Y		Y		Y

Product appearance and specifications are subject to change without notice

Ice-Lined Refrigerator

This product is applicable for the storage of biological products and items that need to be stored under the condition of 2~8°C. This product is used by pharmacies, pharmaceutical factories, epidemic prevention stations, health centers and hospitals as key examples.



HBC-120



HBC-240

Microprocessor Control System

- Microprocessor electronic temperature controller, LED temperature display, the temperature display precision is 0.1°C and the control range is 2°C~8°C
- Solar powered display panel shows refrigerator and freezer interior temperature

Superior Performance

- International Health Organization Certification (PQS certification)
- Extra-long holdover time (It can maintain the interior temperature with only 8hrs power supply per day)
- Broad working ambient range of 5~43°C
- Operates within wide voltage range, ±20% volt

Safe, Secure and Reliable

- Sensor error alarm, high and low temperature alarm
- Alarm mode: sound buzzer alarm and light flashing alarm
- All discrete units are properly grounded
- Key units like the compressor and the fan are safe and reliable

Ergonomic Design

- Intelligent control
- High performance insulation layer with superior thermal insulation
- Ergonomic designed safety lock

Specifications

	Model		HBC-120	HBC-240
Technical Data	Cabinet Type		Upright	Upright
	Ambient Temperature (°C)		5～43	5～43
	Cooling Type		Direct Cooling	Direct Cooling
	Refrigerant		HC	HC
	Sound Level (dB(A))		＜40	＜40
Performance	Temperature Range (°C)		2～8	2～8
	Freezer Protection Level		A	A
Control	Controller		Microprocessor	Microprocessor
	Display		Solar LED Temperature Display	Solar LED Temperature Display
Electrical Data	Power Supply (V/Hz)		220～240/50/60	220～240/50/60
	Power (W)		145	145
	Electrical Current (A)		1	1
	Power Consumption:Stable Running (kWh/24h)		0.35	0.35
	Power Consumption:Cool Down Test (kWh/24h)		0.4	0.4
	Holdover Time at 43°C		128hrs 48mins	87hrs14mis
	Holdover Time at 32°C		185hrs	165hrs
Dimensions	Vaccine Storage Capacity (L/Cu.Ft)		100/3.6	200/7.2
	Gross Volume (L/Cu.Ft)		120/4.3	240/8.5
	Net/Gross Weight (approx)	kg	128/160	152/186
		lbs	281.6/352	334.4/409.2
	Interior Dimensions (W*D*H)	mm	530*500*530	530*500*960
		in	20.87*19.69*20.87	20.87*19.69*37.8
	Exterior Dimensions (W*D*H)	mm	890*829*1425	890*829*1815
		in	35.04*32.64*56.10	35.04*32.64*71.46
	Packing Dimensions (W*D*H)	mm	980*920*1585	980*920*1980
		in	38.6*36.2*62.4	38.6*36.2*78
	Container Load (20'/40'/40'H)		12/24/24	12/24/24
Alarms	High/Low Temperature		Y	Y
	Sensor error		Y	Y
Accessories	Foot/Caster		Y	Y
	Shelves		3	4
	Data logger		Y	Y
	Automatic Voltage Stabilizer		Optional	Optional
	Remote Temperature Monitoring Device (RTMD)		Optional	Optional
Certifications	CE		Y	Y
	WHO/PQS		Y	Y

Product appearance and specifications are subject to change without notice

Vaccine & Icepack Freezer

This product is applicable for cryogenic storage of biological reagents in hospitals, CDC, health facilities and other units in areas with insufficient or unstable power supply.



HBD-86



HBD-265

Refrigeration System

- High quality compressor
- CFC-free high-density foam insulation
- Optimized refrigeration system design

Temperature Control

- Electronic temperature controller with digital display
- Internal temperature range is -15°C to -20 °C

Ergonomic Design

- Safety lock to safeguard against unauthorized access
- Internal configuration suitable for various sizes of storage baskets
- Drainage port for ease of cabinet cleaning
- LCD temperature display

Alarms

- Power failure alarm, high temperature alarm, sensor error alarm
- Two alarm modes: sound alarm and light alarm

Specifications

	Model		HBD-86	HBD-265
Technical Data	Cabinet Type		Chest	Chest
	Ambient Temperature		<43°C	<43°C
	Cooling Type		Direct Cooling	Direct Cooling
	Defrost Mode		/	Manual
	Refrigerant		HC	HC
	Sound Level (dB(A))		40.6	39.3
Performance	Temperature Range (°C)		-15~-25	-15~-25
Control	Controller		Microprocessor	Microprocessor
	Display		LCD	LCD
Electrical Data	Power Supply (V/Hz)		220~240/50/60	220~240/50/60
	Power (W)		120	210
	Electrical Current (A)		1.1	1.6
	Power Consumption: Cool Down Test (kWh/24h)		0.98	1.43
	Power Consumption: Stable Running (kWh/24h)		0.95	1.41
	Holdover Time at 43°C		More than 7hrs (up to -5°C)	11hrs25min (up to -5°C)
Construction	Gross Volume (L/Cu.Ft)		86/3	265/9.4
	Net/Gross Weight (approx)	kg	65/90	135/160
		lbs	143/198	297/352
	Interior Dimensions (W*D*H)	mm	500*366*560	1359*366*560
		in	19.7*14.4*22	53.5*14.4*22
	Exterior Dimensions (W*D*H)	mm	788*717*872	1647*717*940
		in	31*28.2*34.3	64.8*28.2*37
	Packing Dimensions (W*D*H)	mm	850*770*1080	1720*770*1080
		in	33.5*30*42.5	67.7*30*42.5
	Container Load (20'/40'/40'H)		36/78/78	18/38/38
Accessories	Foot		/	Y
	Baskets		3	9
	Automatic Voltage Stabilizer		optional	optional
Certifications	CE		Y	Y
	WHO/PQS		Y	Y

Product appearance and specifications are subject to change without notice

Walk-In Cold/Freezer Room



Haier Biomedical walk-in cold rooms are for storage of vaccines and other temperature sensitive products. The complete unit is also designed for installations in housed areas such as warehouses to meet specified temperature standards. These units have been installed in India, Guinea, Syria, Pakistan, Burundi, Zimbabwe and other regions across the world.

Specifications

Type	Freezer Room	Freezer Room	Cold Room	Cold Room	Cold Room	Cold Room	Cold Room	Combined Cold/Freezer Room	
								Cold Room	Freezer Room
Model	HRZK-40D	HRZK-20D	HRZK-10G	HRZK-15G	HRZK-20G	HRZK-30G	HRZK-40G	HRZK-40GD	
Defrost Mode	Electrical heating								
Refrigerant	CFC-Free								
Internal Temperature Range (°C)	-20	-20	2-8	2-8	2-8	2-8	2-8	2-8	-20
Evaporator Temperature (°C)	-25	-25	-7	-7	-7	-7	-7	-7	-25
Power Supply (V/Hz)	380/50	380/50	220/50	220/50	220/50	380/50	380/50	380/50	
Power (W)	5300	2630	1300	1750	1750	2520	2610	2520	2010
Refrigeranting Output (W)	4200	2060	1560	2230	2230	2950	3250	2950	1580
Capacity (m^3)	40	20	10	15	20	30	40	25	15
Condensation Temperature (°C)	43								
Density (Kg/Cbm)	40±2								
K-Value (m^2K)	0.22								
Insulation Thickness (mm)	100								
Certification	–	WHO/PQS							

Product appearance and specifications are subject to change without notice

Integral Cold Store Unit

- The cold room is suitable for a variety of applications; it can be used to freeze or refrigerate samples for healthcare, research, agriculture, and biotechnology purposes. In the walk-in cold room (WIC), the interior temperature can be controlled within a range of 2°C to 8°C. In the walk-in freezer (WIF), the temperature is set at -20°C.



Features of the Cold Room

- The set point of the cold room has an adjustable range of 0°C to 10°C (or -15°C to -25°C for the Freezer Room) with a resolution of 0.1°C.
- High-efficiency CFC-free polyurethane insulation foamed into place. With a density of 42kg/m^3, a thickness of 100mm and an insulation K-value of 0.22 W/(m^2)(K) or better.
- Internal and exterior surfaces are made up of hot-dipped galvanized steel sheet, coated in a white polyester coating. The floor is clad with non-slip material.
- Rooms are equipped with tungsten lighting.
- Rooms are equipped with shelving systems on 3 of their walls.
- Dual refrigeration system – while one system is working, the other one is reserved as a back-up.
- Forced air-cooling system
- Door equipped with a lock and heavy-duty hinges, with an internal safety release.
- CFC-free refrigerant
- Automatic defrosting
- A manual change-over switch is offered as standard, an automatic change-over switch is available as an optional extra.
- Temperature recorder and audible alarm system.

Technical Characteristics of the Refrigerating Unit

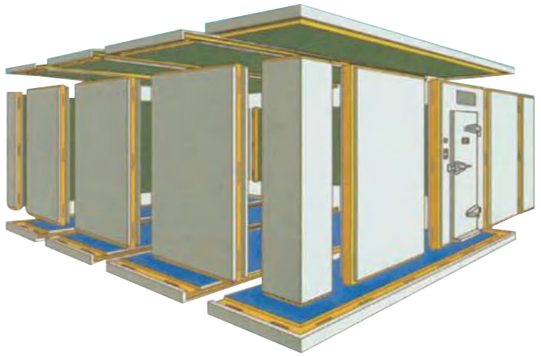
- An integrated condenser unit, called Mono block, integrating evaporator, condenser, compressor, electrical control units into one compact body, is used in cold storage rooms with temperature control of -5°C~5°C or -15°C~-20°C, in medical, clinical, agricultural and chemical industries where large scale cold storage is needed.
- Small compact structure.
- Comprises of TECUMSEH hermetic compressors, hight efficient, in-grooved copper tube and aluminium fin heat exchangers and leading brand refrigeration parts.
- The electronic control boards manage following parameters: automatic temperature setpoint and control, electric heater defrosting, protection devices for over loading, over-heating, lack of phase, high and low pressure.
- Safe, easy to use and is economical, low cost installation and operation.

Temperature Recorder

- Upper and lower limits +50°C to -30°C
- Accuracy ±1°C
- Resolution ±0.5°C
- Minimum acceptable recording period between chart changes is 7 days
- USB interface is included

Combined Cold Room

Applicable for storing large quantities of vaccines, reagents, medicines and other biological products. Suitable for CDCs, animal epidemic prevention and control centers, hospitals, biopharmaceutical companies, etc.



Technical Features:

• The integrated solution provider integrates cold storage, automation, informatization and environmental laboratory.

Environmental protection

• Uses R404a environmentally friendly refrigerant;
• Uses durable, environmentally-friendly poly-ethurane foam insulated walls to provide excellent insulation with a low ozone destruction coefficient.

Safety

• With equipment fault self-diagnosis function. With a variety of active protection and passive early warning functions, the operating status is monitored to ensure the safety of stored samples.

Modular

• The system is modular and solutions are customized according to individual requirements.

Energy saving

• The technology of liquid-subcooling and exhaust-precooling via defrosting water is adopted to save energy.

Smart

• The PLC control system can automatically control the start and stop of the refrigeration unit, the regular switching between the main and standby machines and the automatic fault switch. No manual operation is required for refrigeration and defrosting.

Scope of Application

This product is a complete vaccine storage solution. It consists of a cold room and power supply system. The cold room is powered directly by solar panels and does not require batteries .It uses inexhaustible solar energy to drive energy to the room, which is especially suitable for remote areas, or areas lacking power.



Product Advantages

Compared with traditional solar cold rooms, Haier Biomedical's SDD cold room does not use batteries

Traditional solar cold storage solutions: solar panel + battery + controller, high TCO.
Haier Biomedical's SDD cold room refrigeration system and electronic control components are all DC driven and can be directly powered by solar panels. They do not need any batteries.

No electricity bills

Haier Biomedical's SDD cold room completely uses DC power supply and does not use alternating current . It is calculated that a 10 m3 solar cold room can save 700 USD in electricity bills per year (the electricity bill is based on 0.14 USD/1kWh).

Compared with ordinary cold rooms using generators for power supply, Haier Biomedical's SDD cold room has less noise and no fuel costs.

Large operating voltage range

The solar power supply system has complete lightning protection and grounding devices. It can effectively prevent electrical components from being damaged by lightning strikes. The maximum power voltage of solar panels is 50V, and the working voltage of DC compressors is 32 – 60VDC, which is relatively wide.

The room complies with the requirements of the UN sustainable development strategy

As Haier Biomedical's SDD cold room is fully DC driven and does not use batteries, no fossil energy is used and no harmful gases are produced. In order to reduce our excessive dependence on fossil energy, Haier Biomedical's SDD cold room refrigeration system and electronic control components are all directly driven by solar panels and do not use batteries, truly achieving energy conservation and environmental protection.

Product Features

Temperature control

Electronic thermostat control, temperature digital display, temperature display accuracy 0.1°C, temperature control range is 2°C~8°C.
Large LCD display, 60 days of historical data can be viewed online.
The 7-inch display screen can more intuitively display the temperature, humidity and temperature curve in the warehouse.

Outstanding performance

Ultra-long hold-over time, at an ambient temperature of 32-50°C, the hold-over time is up to 285.16Hrs, ensuring the safety of vaccine storage; Condensed water collection, excellent dehumidification performance, prevents the vaccine box from getting wet; 200mm thick insulation layer is beneficial to heat preservation; Wide ambient temperature design, outstanding performance under ambient temperature of 5°C~43°C;PVC door curtain design to prevent cooling loss.

Safety system

Sensorfailure alarm, high and low temperature alarm, door opening alarm, and personnel safety alarm in the warehouse;Alarm mode:sound buzzer alarm,light fash alarm,Query alarm status,warehouse light status cold storage door status,High-performance key components (compressors, fans, etc.), safe and reliable.

Environmentally friendly design

Uses environmentally friendly refrigerant R1234yf, GWP=4,ODP=0 The main refrigeration system does not use batteries.

User-friendly design

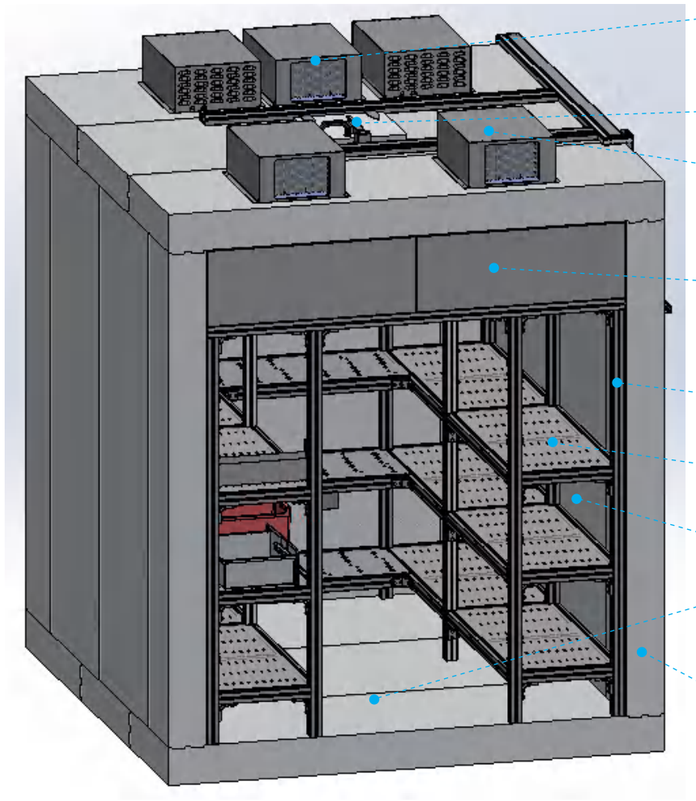
Intelligent and worry-free control method, no adjustment required Moderate display screen height. Safety locks and other User-friendly designs.Low DC voltage, ensuring personal safety; Plug and play, Positive and negative pole error prevention; Equipped with a remote monitoring system, staff can check the operation, temperature and other parameters on mobile phones, computers and other terminals Modular design:storage boards, water tanks, units, and shelves are Modularly designed and can be expanded to 10 to 40 cubic meters; Silent design in the cold room; condensation collection design.

Intelligent IoT Module

10 inch intelligent screen displays real-time temperature, humidity, power supply voltage, current and other power information for the past 2 hours, 24 hours, 7 days and one month; Data can also be uploaded to cloud servers.
The IoT module can automatically connect to the network, select time zones and collate times. It also has remote diagnostic function.

Cold Room

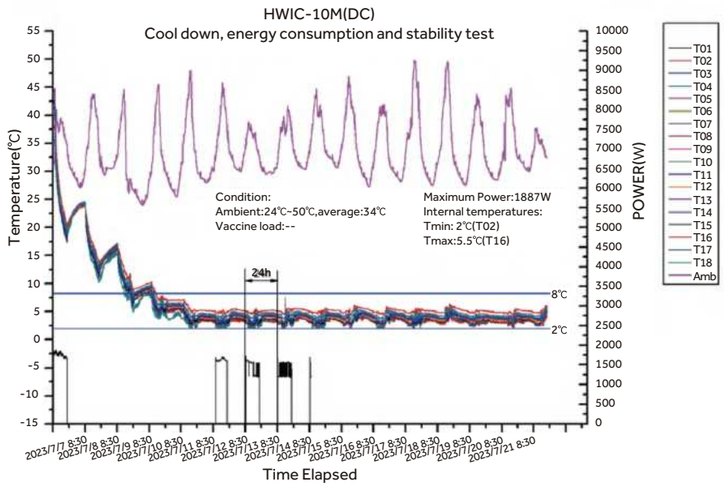
Product Parts



- Dehumidification unit Reduce inside humidity and accelerate cooling process
- Water level observation hole-Easy for observation
- Top compressor unit -Easy to connect with evaperator
- Top mounted cold storage water tank and evaporator inside the cold room-Designed for cold air to flow equally inside the room
- Aluminum support for water tank
- Aluminum and stainless-steel shelves
- 1mm embossed aluminum plate/3mm anti-slip aluminum plate excellent thermal conductivity to support temperature uniformity
- 200mm high-density insulation layer for long insulation performance

Product Performance

Cool down test



Cool down test

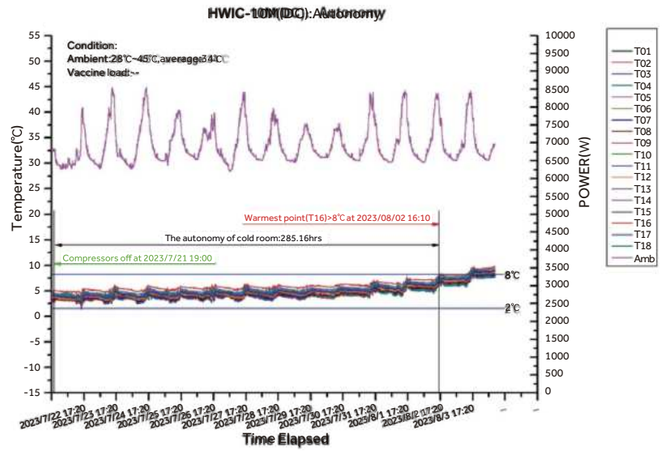
Test Conclusion:

1. Load inside cold room: No load;
2. The cooling time is about 6 days;
3. After stabilization, the temperature inside the cold room is

Tmin=2°C

Tmax=5.5°C

Autonomy



Test Conclusion:

1. Load inside cold room: No load;
2. At this ambient temperature, the time for highest temperature point to raise to 8°C: 285.16 hours (approximately 12 days)

Specifications

Model			HWIC-10M (DC)
Technical Data	Ambient Temperature (°C)		5~43
	Cooling Type		Direct cooling+forced air cooling
	Refrigerant		HFO
Performance	Temperature Range (°C)		2~8
Control	Controller		Microprocessor
	Display		LCD temperature display
Electrical Data	Power supply (V)		48Vdc*5
	Maximal Current (A)		7A*5
	Energy Consumption: stable running (kWh/24h)		14
	Energy Consumption: cool down test (kWh/24h)		17.5
	Holdover time at 28°C-45°C (Hrs)		285.16
	At a Solar Radiation Reference Period of (kWh/m2/day)		3.5
Dimensions	Gross Volume (L/Cu.Ft)		>10m³
	Interior Dimensions (W*D*H)	mm	2600*2200*2600
		in	102*86.6*102
	Exterior Dimensions (W*D*H)	mm	3000*2600*3250
		in	118*102*128
Alarms	High/Low Temperature		Y
	Sensor Error		Y
	Low Battery		Y
Optional	Shelves		Optional
	Number of shelves		3 Levels

*Haier Biomedical reserves the right to change products and specifications without prior notice.

Vaccine Safety Solutions



Vaccine Refrigerated Vehicle

- High chassis, excellent cross-country capacity.
- Euro-2 standard, easy and low-cost maintenance in African area with backup power.
- Complies with WHO/PQS standard requirements.
- Backup power supply.
- Heating system to use in -20°C ambient temperature.

Vaccine Stock Monitoring Solution

Monitoring the vaccine status of all vaccination sites nationwide, providing Enterprise Resource Planning (ERP) management for decision makers with timely and accurate information of vaccine inventory and temperatures.



- 7-inch touch screen.
- Internal Internet-enabled SIM card.
- Solar power USB, EHC power supply.
- External NTC temperature sensor.

Function:

- Manual entry of vaccine stock.
- Data acquisition of temperature.
- Receives immunization notifications.
- Checks inventory reports.
- Check inventory trend and alarm information.
- Information data and files of vaccines.
- Checking vaccine warehousing plans.
- Submitting information for invalid vaccines.
- Checking historical temperature curve.



U-COOL Remote Temperature Monitoring Device

Remote Temperature Recording:

- The external temperature sensor measures the temperature, records and stores the measured temperature values automatically, and transmits them to the cloud platform.

Application Scenarios:

- It can be used for real-time monitoring of storage and distribution of medicine, vaccine, blood, reagents, biological products, biological sample tissue, food and other items. The application scenarios include refrigerated trucks, incubators, cold rooms, cold packs, refrigerated cabinets, refrigerators, freezers and so on.

Cloud Platform Website http://ems.haierbiomedical.com

U-COOL



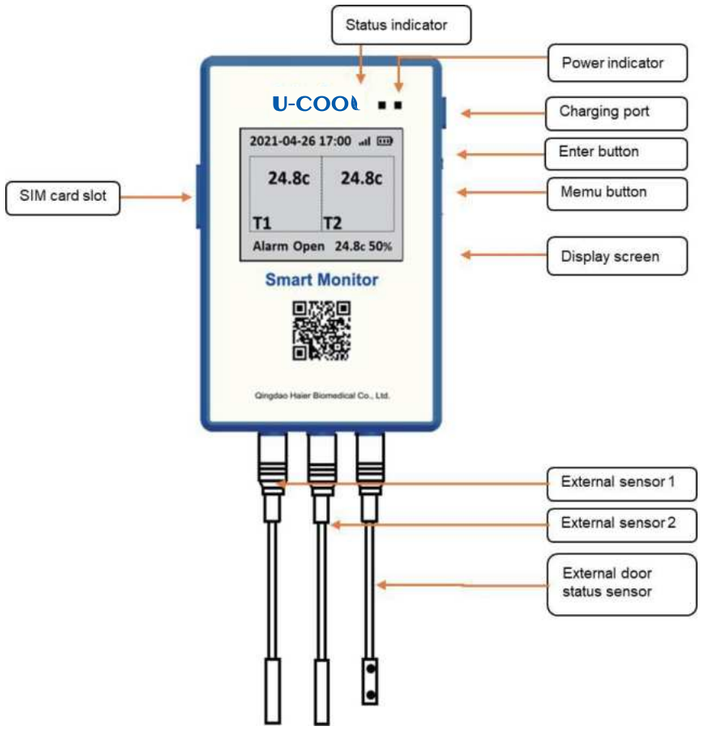
- Once powered on, the device immediately uploads the data automatically to the portal. Plug and play - one simple activation - no technical skills needed, easy and user friendly.
- Remote portal management platform, which can track temperature, signal strength information and has multiple data analysis reports.
- Powered by mains supply with battery back up (10 days) in the event of power failure (In good signal area).
- The device supports sound and visual alarms (Optional function).
- High precision sensors: -40C +65C (NTC) -200C +150C (PT100)
- High precision, wide range of temperature measurements.
- IP66 protection, waterproof, shockproof and dustproof to fit a variety of complex environments.
- Complies with WHO Standards, WHO prequalified code: E006/060

Specifications

Item	Specifications
Temperature sensor	NTC sensor: -40°C~+65°C (±0.5°C within 0°C to +65°C, ±1°C within -40°C to +0°C) PT100 sensor (optional): -200°C~+150°C (±0.3°C)
Environment Sensor	Temperature: -10°C~+55°C Humidity: 0%RH~99%RH
2G	850M/900M/1800M/1900M
4G	LTE FDD: B1/B3/B5/B8 LTE TDD: B38/B39/B40/B41 WCDMA: B1/B8 TD-SCDMA: B34/B39CDMA: BC0 GSM: 900/1800MHz
Storage capacity:	60,000 sets of data
Battery	Charging voltage: 5V~12V Charging current≤1.5A
Alarm	Audio-visual: Buzzer + LED light
SIM card	Built-in Nano SIM
Map location	Google map and LBS(Location Based Service)
USB	Micro USB: download data /Charging
Material	Shell: PC / Shell jacket: ABS
IP	IP66
Dimensions	114.5 mm *71.5 mm *22mm

Product appearance and specifications are subject to change without notice

U-COOL-PRO



Specifications

Model	U-COOL Pro
Temperature Sensor	Internal temperature/humidity sensor: 1; External temperature sensor: 2
Measurement Items	Ambient temperature/humidity, cold chain equipment temperature
Measurement Unit	°C, %RH
External Probe	NTC
	PT100 (Optional)
Temperature Range	NTC: -40°C~+65°C; PT100: -200°C~+150°C
Accuracy	NTC: ±0.5°C within 0°C to +65°C, ±1°C within -40°C to +0°C PT100: ±0.3°C
Resolution Ratio	0.1°C
Storage Capacity	60000 sets
Acquisition Frequency	600s
Upload Frequency	600s
Local Alarm	Sound buzzer alarm and light flashing alarm (off by default, user configurable)
Remote Alarm	Support global SMS, telephone dialing and email alarm (user configurable)
SIM Card	Global roaming card (Standard) / local SIM card (optional)
Communication Net Work Mode	2G/3G/4G
Ambient Temperature	-10°C~+55°C
Power Supply Optional Solar Panel	Built-in rechargeable battery, power adapter DC220V, 50HZ
Standby Time	Support charge and discharge 300 times, single charge standby ≥10 days (Normal signal, acquisition frequency 10min)
IP	IP64
Exterior Dimension	112mm*75mm*21mm
Shell Material	Shell: PC
Weight	380g
Warranty	3 years

Product Advantages

- The battery powered do not require a local power supply or network cabling and can be installed
- Users can select a local sound and light alarm via the software, alerting users if the temperature exceeds set thresholds or the device malfunctions
- LBS base station positioning, indoor use can also be positioned
- USB data export (30 days temperature record)
- One charge, more than 10 days of battery life
- 2 pluggable temperature sensors, 1 pluggable door switch sensor
- Supports 4G/3G/2G signal

U-Cool-LoRa

Introducing Our RF Wireless Monitoring System

The UCool LoRa monitoring system consists of a central gateway and multiple, wireless sensors. The intelligent 4G gateway is connected to the cloud-based monitoring platform, and offers real-time monitoring and alarming of multiple parameters including temperature, humidity & status.



YB-HC600-01
Temperature Data Logger



YB-HC600-02
Door On-off Monitor



YB-HC600-03
Power Outage Monitor



YB-HZ600-01
Smart Gateway

Product Advantages

Long communication distance
LoRa spread spectrum modulation is adopted for wireless communication, which works in the sub-1 GHz band. Offering long communication distances, and a strong ability for signals to pass through obstacles/walls, with excellent anti-interference properties, there is no need to run data cabling or power supply cables to each sensor. As they are battery powered, they are separate from your building infrastructure and will continue transmitting in the event of an onsite power failure/network interruption.

Local audible and visual alarm
When the recorded temperature exceeds the set domain value, or the acquisition node is not working normally, the local audible and visual alarm can be activated through the online configuration tool.

Micro-USB for local data export
It is equipped with standard a Micro-USB interface to cooperate with PC software for local data export.

Power supply mode
The sensor is powered by user-changeable batteries, and the gateway by an external power adaptor. When power is lost to the gateway, it switches to its built-in 48hr battery backup.

Pluggable aviation plug
1) The probe is installed inside the equipment, and can be disconnected to allow the transmitter to be removed for further operation (e.g. for battery change or data download);

2) When the probe is broken or damaged, it is easy to replace;

3) The plug-type is more robust than the 3.5mm audio connector, and offers better electromagnetic protection.

Model	U-COOL-LoRa: Gateway	U-COOL-LoRa: Temperature Data Logger	U-COOL-LoRa: Door On-off Logger	U-COOL-LoRa: Power Outage Logger
Temperature Sensor	/	External sensor: 1	External door status sensor: 1	External power outage sensor: 1
Measurement Items	/	Temperature	Door on-off status	Power
External Probe	/	Digital, PT100 (Optional)	Magnetic reed switch	Mains power relay
Temperature Range	/	Digital: -40℃~+80℃ PT100: -199℃~+199℃	/	/
Accuracy	/	0.5℃	/	/
Resolution Ratio	/	0.1℃	/	/
Storage Capacity	60000 sets	60000 sets	60000 sets	60000 sets
Acquisition Frequency	600s (Adjustable)	600s (Adjustable)	600s (Adjustable)	600s (Adjustable)
Upload Frequency	600s (Adjustable)	600s (Adjustable)	600s (Adjustable)	600s (Adjustable)
Local Alarm	Sound buzzer alarm and light flashing alarm	Sound buzzer alarm and light flashing alarm (off by default, openable)		
Remote Alarm	Support global SMS, telephone dialing and email alarm (user configurable)	/	/	/
SIM Card	Global roaming card (Standard)/ local SIM card (optional)	/	/	/
Communication Net Work Mode	4G/LoRa	LoRa	LoRa	LoRa
Ambient Temperature	-10℃~+55℃	-10℃~+55℃	-10℃~+55℃	-10℃~+55℃
Power Supply	Built-in rechargeable battery, power adapter DC220V, 50HZ	Two non-rechargeable batteries, 3.6V	Two non-rechargeable batteries, 3.6V	Two non-rechargeable batteries, 3.6V
Standby Time	Single charge standby ≥48h	3 years (Normal signal, acquisition frequency 10min/ time)	3 years (Normal signal, acquisition frequency 10min/ time)	3 years (Normal signal, acquisition frequency 10min/ time)
IP	IP50	IP65	IP65	IP65
Exterior Dimension	160mm*100mm*33mm	125mm*73mm*23mm	125mm*73mm*23mm	125mm*73mm*23mm
Shell Material	Aluminium +PC panel	ABS	ABS	ABS
Weight	640g	150g	150g	150g
Warranty	3 years	3 years	3 years	3 years

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IoT Gateway

Making it easy to collect data from onsite Haier Biomedical equipment, and then transmit recorded data to the cloud-based monitoring platform, the IOT module allows the remote viewing of various parameters which would usually only be available on the unit itself. The platform also facilitates remote alarming, allowing users to be alerted to an excursion even when you are not on site. Suitable for the monitoring of a variety of equipment, including Ultra-Low Temperature freezers and Liquid Nitrogen storage, it is perfect for hospitals, academia, laboratories and more.



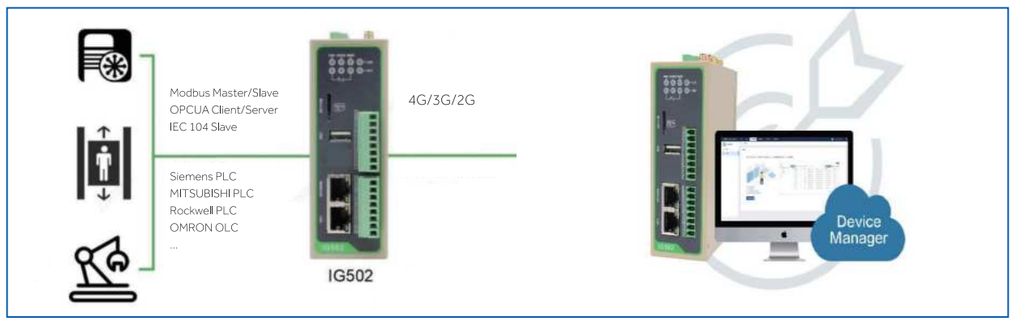
Product Advantages

Easy configuration, plug and play

Uninterrupted and highly reliable connectivity through the 2G/3G/4G network, with data uploaded to the cloud-based monitoring platform.

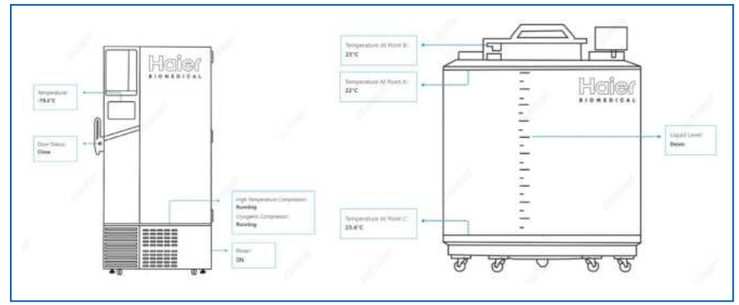
Easy for Remote Management
Through remote monitoring and centralized management, you can easily track your devices and enjoy better efficiency for large scale deployment and preventive maintenance.

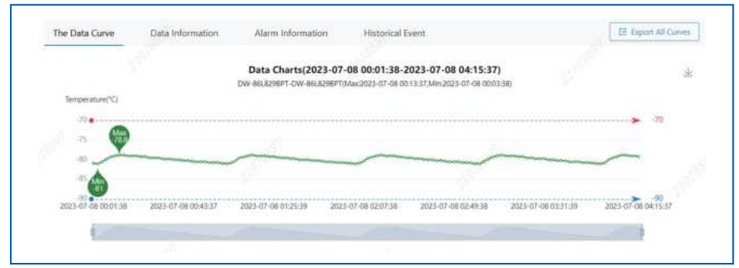
Purposely Designed for Industrial Scenarios
EMC level 3, IP30 protection rating, and wide temperature and voltage ranges make it enduring in challenging environments.



Equipment Management

User can monitor data in real time
(Ultra-low temperature refrigerator,Liquid nitrogen tank, etc)





Map Display



IoT Gateway

Hardware Specifications

Model		IG502
Hardware Platform	CPU	ARM Cortex-A8
	Memory Capacity	512MB
	FLASH	8GB eMMC
Port	Ethernet Port	2*10/100Mbps fast Ethernet port, 1*WAN+1*LAN or 2*LAN
	Serial Port (optional)	RS485*1, RS232*1 or RS485*2
	Wi-Fi (optional)	2.4G (802.11/b/g/n)
	GPS (optional)	GPS, SMAx1
	USB	USB2.0x1
	IO Port (optional)	4*DI, 4*DO
	Reset Key	Pinhole reset button
	TF	Support MicroSD
	Bluetooth (optional)	BLE4.0
Mechanical Features	Installation Methods	Rail, wall hanging, ear hanging
	Cooling Type	Fan-free cooling
	Shell	Metal shell
	IP Grade	IP30
Power Supply	Power Input	DC12-48V, Anti-reverse protection
	Standby Power Loss	200mA@12V
	Peak Power	500mA@12V
	Power Port	CLIPLINE
	Working Power Consumption	250mA@12V
Environment	Working Temperature	-20~70°C
	Environment Humidity	5~95% (Frost-free)
	Storage Temperature	-40~85°C
Indicator Light	LED	PWR, STATUS, WARN, ERR, Signal strength indicator lamps (3), LTE
EMC	Static Electricity	EN61000-4-2, level3
	Radiation Electric Field	EN61000-4-3, level3
	Pulsed Electric Field	EN61000-4-4, level3
	Surge	EN61000-4-5, level3
	Onducted Emission	EN61000-4-6, level3
	PFMF	EN61000-4-8, Horizontal direction/vertical direction 400A/m (>level3)
	Oscillation Wave Immunity	EN61000-4-12, level3
Physical Characteristics	Quakeproof	IEC60068-2-27
	Drop	IEC60068-2-32
	Vibration	IEC60068-2-6
Others	Authentication Certificate	CE/UKCA/FCC/PTCRB/UL/C1D2 (Class 1Division 2)/ VerizonWirele ss/AT&T/IC/RCM/NBTC/ANATEL

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Model		IG502
Operating System	Operating System	Customized Linux
Network Interconnection	Network Access	APN/VPDN
	Access Authentication	CHAP/PAP/MS-CHAP/MS-CHAPV2
	Network Standard	5G SA/NSA /LTECat4/LTECat1
	LAN Protocol	ARP/Ethernet
	WAN Protocol	Support static IP/DHCP
Network Protocol	IP Application	ICMP/DNS/TCP/UDP/TCPserver/DHCP
	IP Routing	Support static routing
Network Security	Multilevel User	Support multi-level administrative permissions
	Data Security	Support OpenVPN, support IPSecVPN
Reliability	Backup Function	Support dual SIM cards
	Link Online Detection	Heartbeat packet detection is sent, and the disconnection is automatically reconnected.
	Embedded Watchdog	Self-inspection technology of equipment operation, self-repair of equipment operation failure
Open Platform	Open Platform	Support Python development platform
	Access Cloud Platform	Support cloud platforms such as AWS, Azure and Ali
Protocol Type	Protocol Type	Modbuster/slave, Modbuster/slave, EtherNet/IP, ISOonTCP, OPCUAClient/Server, MitsubishiMC 3C/3E/3COverTCP, MitsubishiCPUPort, FINSUDP, HostLink, PPI, DLT645-2007, IEC104Server and other protocols.
Maintenance Management	Collocation Method	Configuration of Web interface
	Configure Backup	Support the import and export of configuration files
	Upgrade Mode	Support proprietary upgrade mechanism, and upgrade firmware locally or remotely.
	Log Function	Support local system logs and remote logs, and save important logs in case of power failure.
	Remote Administration	Support InHand Device Manager network management cloud platform, InConnet platform and iSCADA cloud platform; HTTPS, Telnet, SSH, etc.

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30-Day Electronic Temperature Logger

Haier Biomedical Vaccine Cold Chain Storage Safety Solution

- Continuous, real-time, whole-process traceable monitoring for vaccine safety storage
- WHO approved and sourced by WHO procurement.

30-Day Electronic Temperature Logger

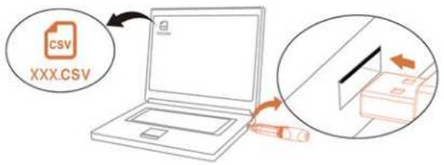






HETL-01

WHO Certified
PQS code:E006/042



Easy to download data



Accessory: Bracket

Product Features

- Approved by WHO's PQS, PQS code:E006/042
- Designed specifically for 2~8°C vaccine storage, equipped with high/low temperature visual alarm to meet the WHO standard
- Recording capacity is over 30 days, recording interval is 6 minutes, outdated data will be overwritten by new one automatically, when the recording volume is full
- LCD screen displays temperature
- Integrated sensor device, dust and water resistant to IP65 protection standard, can be placed in Cold Box or vaccine refrigerator to monitor the temperature
- The logger can be plugged into the USB port of any PC to automatically generate a CSV file including temperature data and temperature graph which can be generated by data management software
- Built-in disposable wide temperature range lithium battery (Non-replaceable) with a minimum operating life of two years after a maximum shelf life of one year
- The bracket is included as standard

Specifications

Model	HETL-01
Temperature Range (°C)	-20~+50
Main Material	ABS (Transparent Shield: PC)
Data Interface	USB Interface
Display Medium	LCD
Resolution (°C)	0.1
Accuracy	±0.5°C for -20°C~+40°C, ±1°C for the others
Recording Volume	8192 Data Points(34 days)
Logging Interval	6 min
Power Source	Non-Replaceable Battery
Size (Length*Diameter mm)	131*24
Service Life	2~3 years

Product appearance and specifications are subject to change without notice

Haier Biomedical

Intelligent Protection of Life Science

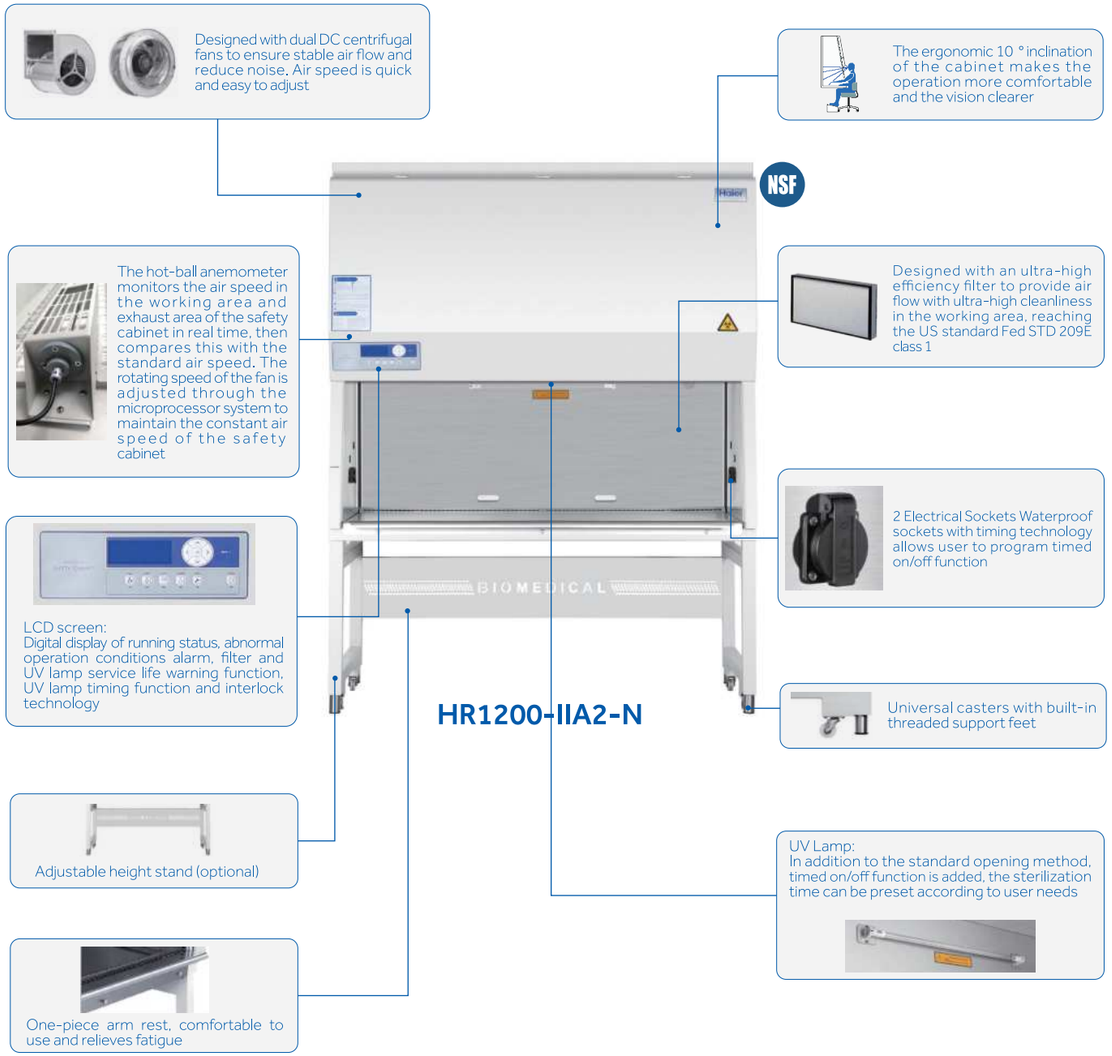
Clean Air Solution

CLEAN AIR SOLUTION

NSF Series Biological Safety Cabinet

Scope of Application

Professional air purifcation equipment suitable for pharmaceuticals, medical and health industries, scientifc research laboratories of universities and colleges as well as other related fields.



Product Advantages

Multiple Voltage Options, Suitable for Many Countries and Regions

Full voltage coverage (100-230V 50/60Hz), suitable for a wide range of countries and regions.

Microprocessor Control System

- Intuitive and informative interactive digital LCD display.
- The hot-ball anemometer monitors the downflow and inflow air speed of the safety cabinet in real time and compares it with the standard air speed. The rotating speed of the fan is adjusted throug h the microprocessor system to maintain the constant air speed of the safety cabinet.
- Real-time display of operational information and parameters including downflow air velocity, flow rate, temperature, humidity, positive pressure, negative pressure, fan cumulative running time and filter remaining service life.
- One button UV lamp timer function, allows users to set 0 to 24 hours of automatic on/off time.

Ultra-low Noise, Uniform Airflow

Designed with Dual DC centrifugal fans, combined with an innovative air distribution system, with lower noise, and more uniform air flow.

Superior Filter, Multiple Protection

- ULPA is made of moisture-proof and flame-retardant glass fiber filter paper which can intercept 99.9995% solid particles with a diameter of 0.12 μm to ensure high cleanliness of air supply flow and exhaust flow.
- Perfect air distribution design, no turbulence in the working area.
- Sound and light alarm function for abnormal parameters.

One-piece Welded Cabinet Structure, Leak Proof

Prevention of leakage performance of dangerous factors conforms to NSF specification.

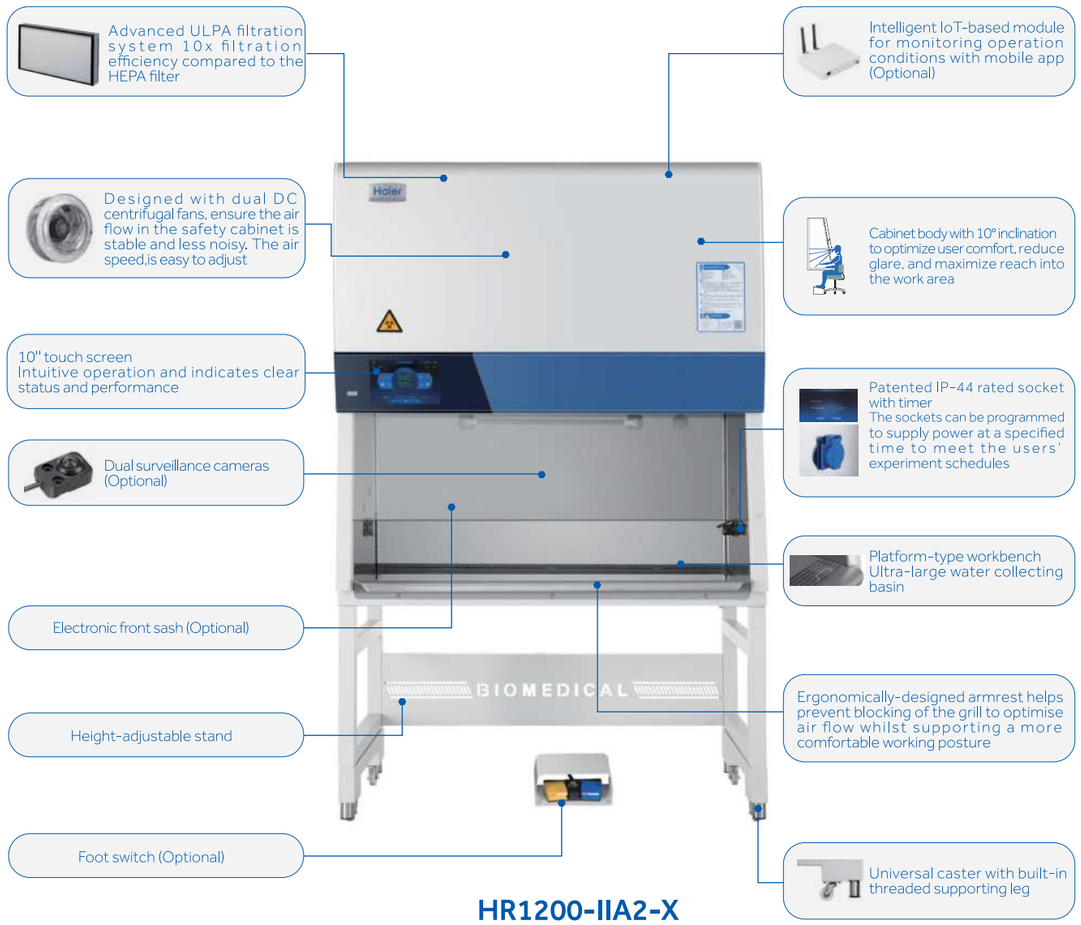
Specifications

Model			HR900-IIA2-N	HR1200-IIA2-N	HR1500-IIA2-N	HR1800-IIA2-N
General Specification	Power Supply(V/Hz)		100-230/50/60	100-230/50/60	100-230/50/60	100-230/50/60
	Power (VA)		1300	1300	1400	1400
	Power of Blower (W)		DC 190W 112W	DC 120W 112W	DC 190W 112W	DC 120W 112W
	Airflow Circulation		70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust
	Main Filter Typical Efficiency		ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um
	Exhaust Filter Typical Efficiency		ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um
	Filter's Brand		AAF	AAF	AAF	AAF
	Downflow Velocity (m/s)		0.35	0.35	0.35	0.35
	Inflow Velocity (m/s)		0.53	0.53	0.53	0.53
	Lighting Intensity (Lux)		946	1323	TBD	1292
	Sound Level (dB(A))		67	64	TBD	67
Dimensions	Net/Gross Weight	kg	225/280	275/335	325/376	375/460
		lbs	496/584	617/750	716.5/804.7	827/1014
	Internal Dimensions (W*D*H)	mm	930*600*650	1230*600*650	1530*600*650	1830*600*650
		in	36.6*23.6*25.6	48.4*23.6*25.6	60.2*23.6*25.6	72.0*23.6*25.6
	External Dimensions (W*D*H) (Width without Armrest)	mm	1040*850(790)*2160	1340*850(790)*2160	1640*850(790)*2160	1940*850(790)*2160
		in	40.9*33.5(31.1)*85	52.8*33.5(31.1)*85	64.6*33.5(31.1)*85	76.4*33.5(31.1)*85
	Packing Dimensions (W*D*H)	mm	1105*935*1720	1435*945*1700	1705*940*1720	2038*945*1700
		in	43.5*36.8*67.7	56.5*37.2*66.9	67.1*37.0*67.7	80.2*37.2*66.9
	Support Stand (mm)		680mm (standard), 680-900mm adjustable height (optional)	680mm (standard), 680-900mm adjustable height (optional)	680mm (standard), 680-900mm adjustable height (optional)	680mm (standard), 680-900mm adjustable height (optional)
	Sash Opening (mm)		200 (Max 460)	200 (Max 460)	200 (Max 460)	200 (Max 460)
	Container Load (20'/40'/40'H)		12/24/24	8/16/16	6/12/12	6/12/12
Alarms Functions	Alarm		Sound and Flash	Sound and Flash	Sound and Flash	Sound and Flash
	Closing Fan Alarm After Door Opening		Y	Y	Y	Y
	Door Ajar		Y	Y	Y	Y
	Abnormal Inflow		Y	Y	Y	Y
	Abnormal Downflow		Y	Y	Y	Y
	Door Open More than Limit		Y	Y	Y	Y
	Filter Clogging		Y	Y	Y	Y
	Filter Damage		Y	Y	Y	Y
	Filter Lifetime Lack		Y	Y	Y	Y
	UV Light Lifetime Lack		Y	Y	Y	Y
Accessories	UV Lamp		Y	Y	Y	Y
	Socket		2 sockets (optional GFCI socket)	2 sockets (optional GFCI socket)	2 sockets (optional GFCI socket)	2 sockets (optional GFCI socket)
	Valve Port		Optional	Optional	Optional	Optional
	Side Wall Service Taps		Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap
	Antimicrobial Coating		Optional	Optional	Optional	Optional
	316SS Work Surface		Optional	Optional	Optional	Optional
	Work Surface		One-piece	One-piece	One-piece	One-piece
	Touch Screen		Optional	Optional	Optional	Optional
	Motorized Window		N	N	N	N
	Foot Switch		N	N	N	N
	Armrest		Y	Y	Y	Y
	Exhaust Duct Connection Kits		Optional	Optional	Optional	Optional
Others	Certification		UL, NSF	UL, NSF	UL, NSF	UL, NSF

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Scope of Application

The X series of standard Class II microbiological safety cabinets are suitable for basic cell biology, microbiology, biomedicine, biosafety laboratories and other laboratories.



HR1200-IIA2-X

Smart IoT Series Biological Safety Cabinet

Product Advantages

Microprocessor Control System

- Utilizing intelligent constant air speed design to monitor the downward airflow and the inlet airflow in real-time. The dual airspeed sensors adjust the fan speed through a microcomputer system so as to maintain constant airspeed inside the cabinet
- Intuitive and informative interactive touch screen
- Real-time display of operational information and parameters including downflow air velocity, flow rate, temperature, humidity, positive pressure, negative pressure, fan cumulative running time and filter remaining service life

Electronic Front Sash (optional)

With push button simplicity the front window automatically opens to the correct aperture mandated by regional regulation to help ensure proper working conditions

Dual Cameras (optional)

As an option, two surveillance cameras can monitor and record the conditions at each side of the working area. The camera is positioned to avoid any splashback within the working area, minimizing cleaning required

Intelligent IoT Module (optional)

An IoT module is an option available to enable users to simply manage the biosafety cabinets, any time anywhere, using our app. The system monitors the cabinet in real-time and alerts in the event of any abnormal alarms. Users can view operational parameters, operation performance curves, event and alarm records as well as other useful information

Ultra-low Noise, Uniform Airflow

Designed with dual DC fans, for up to 50% energy savings vs AC motor, meeting the low-noise, energy-saving and high-reliability requirements

One-touch UV Lamp Operation

One-button UV lamp timer, learns and retains users' UV lamp usage habits for convenient one-key start-up of the UV lamp timing function

Foot Switch (optional)

The foot switch will open or close the front sash to allow users to access samples without direct contact with the sash handle

Easy to Clean

The armrest can be removed and the unique drop-down front sash can be removed in seconds to enable easy cleaning and full access to the cabinet interior work space for thorough cleaning/disinfection

Interlocking Design to Ensure Maximum Safety and Reliability

UV lamp, front sash, fan and interior light operation are interlocked together to protect against harmful UV rays and to prevent leakage of microorganisms

PIR Detection

In intelligent mode, the PIR sensor will detect when the operating area has been clear of personnel for more than 15 minutes and automatically switch to LNS green-saving mode to reduce the noise level, save energy and prolong the service life of filter

Specifications

Model			HR1200-IIA2-X	HR1500-IIA2-X	HR1800-IIA2-X
General Specification	Power Supply(V/Hz)		220~240 50/60	220~240 50/60	220~240 50/60
	Power (VA)		1600	1670	1850
	Power of Blower (W)		DC 120, DC 112	DC 190, DC 112	DC 120, DC 112
	Airflow Circulation		70% Downflow,30% Exhaust	70% Downflow, 30% Exhaust	70% Downflow,30% Exhaust
	Main Filter Typical Efficiency		ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um
	Exhaust Filter Typical Efficiency		ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um
	Exhaust Filter		Single	Single	Single
	Filter's Brand		AAF	AAF	AAF
	Downflow Velocity (m/s)		0.30	0.30	0.30
	Inflow Velocity (m/s)		0.45	0.45	0.45
	Lighting Intensity (Lux)		1317	1396	1133
	Sound Level (dB(A))		59.3	61	63.5
Dimensions	Net/Gross Weight	kg	280/340	320/400	380/465
		lbs	617/750	705/882	838/1025
	Internal Dimensions (W*D*H)	mm	1230*600*655	1530*600*655	1830*600*655
		in	48.4*23.6*25.8	60.2*23.6*25.8	72.0*23.6*25.8
	External Dimensions (W*D*H) (Width without Armrest)	mm	1336*845(790)*2120	1636*845(790)*2120	1936*845(790)*2120
		in	52.6*33.3(31.1)*83.5	64.4*33.3(31.1)*83.5	76.2*33.3(31.1)*83.5
	Packing Dimensions (W*D*H)	mm	1435*945*1700	1720*945*1700	2038*945*1700
		in	56.5*37.2*66.9	67.7*37.2*66.9	80.2*37.2*66.9
	Support Stand (mm)		680-900mm adjustable height (standard)	680-900mm adjustable height (standard)	680-900mm adjustable height (standard)
	Sash Opening (mm)		200 (Max 480)	200 (Max 480)	200 (Max 480)
	Container Load (20'/40'/40'H)		8/16/16	6/12/12	6/12/12
Alarms Functions	Alarm		Sound and Flash	Sound and Flash	Sound and Flash
	Closing Fan Alarm After Door Opening		Y	Y	Y
	Door Ajar		Y	Y	Y
	Abnormal Inflow		Y	Y	Y
	Abnormal Downflow		Y	Y	Y
	Door Open More than Limit		Y	Y	Y
	Filter Clogging		Y	Y	Y
	Filter Damage		Y	Y	Y
	Filter Lifetime Lack		Y	Y	Y
	UV Light Lifetime Lack		Y	Y	Y
Accessories	UV Lamp		Y	Y	Y
	Socket		2 sockets	2 sockets	2 sockets
	Valve Port		Optional	Optional	Optional
	Side Wall Service Taps		Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap
	Antimicrobial Coating		Optional	Optional	Optional
	316SS Work Surface		Optional	Optional	Optional
	Work Surface		One-piece	One-piece	One-piece
	Touch Screen		Y	Y	Y
	Motorized Window		Optional	Optional	Optional
	Foot Switch		Optional	Optional	Optional
	Armrest		Y	Y	Y
	Exhaust Duct Connection Kits		Optional	Optional	Optional
Others	Certification		CE, TUV	CE, TUV	CE, TUV

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Biological Safety Cabinet (Single/Double exhaust filter)

Scope of Application

Suitable for microbiology, biomedicine, biosafety laboratories and other laboratories. It offers three levels of protection-operator, product and environment



HR1200-IIA2-S
(Single Exhaust HEPA)
HR1200-IIA2-D
(Dual Exhaust HEPAs)

Product Advantages

Ultra-efficient Filtration

High efficiency moisture proof and flame-retarded filter achieving a retention efficiency of 99.9995% for 0.12 micron solid particle system

Intelligent Constant Air Velocity System

Designed with intelligent constant air speed technology, which can ensure that the working area could have its downflow and inflow velocities in line with the standard requirements

Side Glass Windows

Tempered glass side walls increase visibility and prevents the operator from experiencing a "boxed-in" feeling

Multiple Alarm Functions

Audible and visual alarm functions: filter and UV end-of-life alerts, fan turned-off after door opening alert and door open alarm

Ergonomic Design

- A comfortable platform-type armrest can reduce hand and arm fatigue
- 10-degree angle inclination design, in accordance with ergonomic principles for more comfortable operation
- With height adjustable stand, users can adjust the height of the work bench to requirements

Easy to Clean

The armrest can be removed and the unique drop-down front sash can be removed in seconds to enable easy cleaning and full access to the cabinet interior work space for thorough cleaning/disinfection

Patented IP-44 Rated Socket with Timer

The sockets can be programmed to supply power at a specified time to meet the users' experiment schedules

Lower Noise and Airflow Uniformity

DC&EC fans operate with lower noise and deliver excellent air flow uniformity

PIR Detection

In intelligent mode, the PIR sensor will detect when the operating area has been clear of personnel for more than 15 minutes and automatically switch to LNS green-saving mode to reduce the noise level, save energy and prolong the service life of filter

UV Lamp

Patented one-button UV lamp technology allows users to automatically activate or deactivate based on usage habits or at specific sterilization intervals to minimise waiting time

Biological Safety Cabinet (Single/Double exhaust filter)

Biological Safety Cabinet

Specifications

Model			HR900-IIA2-S	HR1200-IIA2-S	HR900-IIA2-D	HR1200-IIA2-D
General Specification	Power Supply(V/Hz)		220-240/50/60	220-240/50/60	220-240/50/60	220-240/50/60
	Power (VA)		1500	1600	1500	1600
	Power of Blower (W)		DC 120W EC170W	DC 120, DC 112	DC 120W EC170W	DC 190, DC 170
	Airflow Circulation		70% Downflow,30% Exhaust	70% Downflow,30% Exhaust	70% Downflow,30% Exhaust	70% Downflow,30% Exhaust
	Main Filter Typical Efficiency		ULPA ,U15,99.9995%@0.12um	HEPA ,H14,99.995%@0.3um	ULPA ,U15,99.9995%@0.12um	ULPA ,U15,99.9995%@0.12um
	Exhaust Filter Typical Efficiency		ULPA ,U15,99.9995%@0.12um	HEPA ,H14,99.995%@0.3um	ULPA×2,U15,99.9995%@0.12um	HEPA×2 ,H14,99.995%@0.3um
	Exhaust Filter		Single	Single	Double	Dual
	Filter's Brand		AAF	AAF	AAF	AAF
	Downflow Velocity (m/s)		0.30	0.30	0.30	0.30
	Inflow Velocity (m/s)		0.45	0.45	0.45	0.45
	Lighting Intensity (Lux)		≥1300	≥1000	≥1300	≥1000
	Sound Level (dB(A))		57.1	60	59.7	60
Dimensions	Net/Gross Weight	kg	290/320	320/339	290/320	320/339
		lbs	639/705	705.5/747.4	639/705	705.5/747.4
	Internal Dimensions (W*D*H)	mm	936*620*635	1310*620*635	936*620*635	1310*620*635
		in	36.9*24.4*25	51.6*24.4*25	36.9*24.4*25	51.6*24.4*25
	External Dimensions (W*D*H) (Width without Armrest)	mm	1002*856(796)*1485	1380*856(796)*2164	1002*856(796)*1485	1380*856(796)*1485
		in	39.5*33.7(31.3)*58.5	54.3*33.7(31.3)*85.2	39.5*33.7(31.3)*58.5	54.3*33.7(31.3)*58.5
	Packing Dimensions (W*D*H)	mm	1185*925*1720	1475*935*1720	1105*932*1730	1475*935*1720
		in	46.7*36.4*67.7	58.1*36.8*67.7	43.5*36.7*68.1	58.1*36.8*67.7
	Support Stand (mm)		No, 680-900mm adjustable height (optional)	680-900mm adjustable height (standard)	No, 680-900mm adjustable height (optional)	No, 680-900mm adjustable height (optional)
	Sash Opening (mm)		200 (Max 490)	200 (Max 490)	200 (Max 490)	200 (Max 490)
	Container Load (20'/40'/40'H)		11/21/21	8/16/16	11/21/21	8/16/16
Alarms Functions	Alarm		Sound and Flash	Sound and Flash	Sound and Flash	Sound and Flash
	Closing Fan Alarm After Door Opening		Y	Y	Y	Y
	Door Ajar Alarm		Y	Y	Y	Y
	Abnormal Inflow Alarm		Y	Y	Y	Y
	Abnormal Downflow Alarm		Y	Y	Y	Y
	Door Open More than Limit Alarm		Y	Y	Y	Y
	Filter Clogging Alarm		Y	Y	Y	Y
	Filter Damage Alarm		Y	Y	Y	Y
	Filter Lifetime Lack Alarm		Y	Y	Y	Y
	UV Light Lifetime Lack Alarm		Y	Y	Y	Y
Accessories	UV Lamp		Y	Y	Y	Y
	Socket		2 sockets	2 sockets	2 sockets	2 sockets
	Valve Port		Optional	Optional	Optional	Optional
	Side Wall Service Taps		Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap
	Antimicrobial Coating		Optional	Optional	Optional	Optional
	316SS Work Surface		Optional	Optional	Optional	Optional
	Work Surface		Three-piece	Four-piece	Three-piece	Three-piece
	Touch Screen		N	N	N	N
	Motorized Window		Optional	Optional	Optional	Optional
	Foot Switch		Optional	Optional	Optional	Optional
	Armrest		Y	Y	Y	Y
	Exhaust Duct Connection Kits		Optional	Optional	Optional	Optional
Others	Certification		CE, UKCA	CE, UKCA, TUV	CE, UKCA	CE, UKCA, TUV

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Scope of Application

This Class II microbiological safety cabinet is designed to protect the operator, laboratory environment and samples from being exposed to the infective aerosol produced from samples with bacteria strains, diagnostic materials, and other infective substances. It provides the operator with comfortable and safer working conditions. It is widely used in medical health, disease prevention, food safety, biological pharmacy and environment monitoring.



Product Advantages

V-shaped Air Inlet

The V-shaped air inlet can prevent the samples or arms of operator from blocking the air flow.
The work surface can be easily lifted using the handles for cleaning purposes

One-touch UV Lamp Operation

UV lamp records and remembers users' setting and habits and can be preset with a startup delay with one-key operation for ease and convenience

Energy Conservation

PIR detection

In intelligent mode, the PIR sensor will detect when the operating area has been clear of personnel for more than 15 minutes and automatically switch to LNS green-saving mode to reduce the noise level, save energy and prolong the service life of filter

Ergonomic

- **10° inclination design of cabinet body**

  The front operation interface has an ergonomic design of 10° inclination for ensuring more comfortable operation

- **Stainless steel armrest**

  A comfortable platform-type armrest can reduce hand and arm fatigue

Easy to Clean

The armrest can be removed and the unique drop-down front sash can be removed in seconds to enable easy cleaning and full access to the cabinet interior work space for thorough cleaning/disinfection

Intelligent

Constant airflow velocity

The hot-bulb airflow velocity transducer performs real-time monitoring of the air velocity of the working area, compares it with the standard air velocity, and keeps a constant air velocity in the cabinet by regulating the fan speed with a microcomputer system

IP 44 Rated Power Sockets with Timer

The sockets can be programmed to supply power at a specified time to meet the users' demands for timing of experiments

Safe

- **Abnormal operation condition alarm**

  Audible and visual alarms in form of voice or text will be present when air turbulence level exceeds 20% and door height (high or low) or work area temperature exceeds limits

- **Patented technology: filter end-of-life reminder**

  Pressure transducer monitors the resistance variation of filter to determine the remaining life of filter and will remind the user by warning when the remaining life is below 10%

- **Patented technology: UV lamp end-of-life reminder**

  The microcomputer will add up the service time of UV lamp, and will remind by warning the user to replace the UV lamp when its remaining life is less than 10%

Offers a Broad Range of Sizes to Fit any Available Laboratory Space

Scope of Application

Small size microbiological safety cabinet for single person operations and small working spaces, suitable for testing stations within warehouse, airports and mobile laboratories.



HR700-IIA2

Mini Biological Safety Cabinet

Product Advantages

Safe and Reliable
Adopts AAF filters, class 1 cleanliness to provide maximum protection for people, environment and samples

Interlocking Function
The product features an interlocking function between UV disinfection, fluorescent lamp, front sash and fan

LCD Display
LCD screen displays various parameters and service life of accessories in real time, and the operational condition of the equipment is clear at a glance

Alarms
Audible and visual alarm functions: hardware failure alarm, operation parameter overrun alarm, filter and UV lamp life warning

One-click Operation
UV lamp one-click reservation allows users to set 0 min to 24 hours of automatic on/off time and sterilization interval, reducing the waiting time

Uniform Airflow
The EBM fan, combined with Haier Biomedical's professional air distribution design, provides lower noise operation and a uniform air flow

Two Waterproof Sockets
Sockets include timing technology to allow users to program socket on/off times

Safety Certified
Complies with EN12469



Specifications

Model			HR700-IIA2	HR900-IIA2	HR1200-IIA2	HR1500-IIA2
General Specification	Power Supply(V/Hz)		220-240/50	220-240/50	220-240/50	220-240/50
	Power (VA)		1200	1500	1500	1900
	Power of Blower (W)		210W	AC L=330,M=465,H=735	AC L=330,M=465,H=735	AC 650
	Airflow Circulation		70% Downflow,30% Exhaust	70% Downflow,30% Exhaust	70% Downflow,30% Exhaust	70% Downflow,30% Exhaust
	Main Filter Typical Efficiency		HEPA ,H14,99.995%@0.3um	ULPA ,U15,99.9995%@0.12um	ULPA ,U15,99.9995%@0.12um	ULPA ,U15,99.9995%@0.12um
	Exhaust Filter Typical Efficiency		ULPA ,U15,99.9995%@0.12um	ULPA ,U15,99.9995%@0.12um	HEPA ,H14,99.995%@0.3um	HEPA ,H14,99.995%@0.3um
	Exhaust Filter		Single	Single	Single	Single
	Filter's Brand		AAF	AAF	AAF	AAF
	Downflow Velocity (m/s)		0.30	0.33	0.34	0.31
	Inflow Velocity (m/s)		0.53	0.55	0.55	0.55
	Lighting Intensity (Lux)		≥780	≥900	≥900	≥900
	Sound Level (dB(A))		＜65	60	60	62
Dimensions	Net/Gross Weight	kg	100/130	290/310	320/339	350/393
		lbs	220.4/286.52	639.3/683.4	705.5/747.4	771.6/866.4
	Internal Dimensions (W*D*H)	mm	600*550*540	920*620*650	1220*620*650	1520*620*650
		in	23.62*21.65*21.26	36.2*24.4*25.6	48.0*24.4*25.6	59.9*24.4*25.6
	External Dimensions (W*D*H)	mm	700*720*1200	1080*845(790)*2160	1380*845(790)*2160	1680*845(790)*2160
		in	27.56*28.35*47.24	42.5*33.3(31.1)*85.0	54.3*33.3(31.1)*85.0	66.1*33.5(31.1)*85.0
	Packing Dimensions (W*D*H)	mm	800*810*1385 (without stand) 825*820*1495 (with stand)	1185*925*1720	1475*935*1720	1785*932*1720
		in	31.5*31.9*54.5(without stand) 32.5*32.3*58.9(with stand)	46.7*36.4*67.7	58.1*36.8*67.7	70.3*36.7*67.7
	Support Stand (mm)		No.700mm (optional)	680-900mm adjustable height (standard)	680-900mm adjustable height (standard)	680-900mm adjustable height (standard)
	Sash Opening (mm)		200 (Max)	200 (Max 490)	200 (Max 490)	200 (Max 490)
	Container Load (20'/40'/40'H)		14/28/28	11/21/21	8/16/16	6/12/12
Alarms Functions	Alarm		Sound and Flash	Sound and Flash	Sound and Flash	Sound and Flash
	Closing Fan Alarm After Door Opening		Y	Y	Y	Y
	Door Ajar Alarm		Y	Y	Y	Y
	Abnormal Inflow Alarm		Y	Y	Y	Y
	Abnormal Downflow Alarm		Y	Y	Y	Y
	Door Open More than Limit Alarm		Y	Y	Y	Y
	Filter Clogging Alarm		Y	Y	Y	Y
	Filter Damage Alarm		Y	Y	Y	Y
	Filter Lifetime Lack Alarm		Y	Y	Y	Y
	UV Light Lifetime Lack Alarm		Y	Y	Y	Y
Accessories	UV Lamp		Y	Y	Y	Y
	Socket		2 sockets	2 sockets	2 sockets	2 sockets
	Valve Port		Optional	Standard with 2 valve port	Standard with 2 valve port	Standard with 2 valve port
	Side Wall Service Taps		Optional gas tap, vaccum tap, compressed air tap and water tap	Standard gas tap and vaccum tap; optional compressed air tap and water tap	Standard gas tap and vaccum tap; optional compressed air tap and water tap	Standard gas tap and vaccum tap; optional compressed air tap and water tap
	Antimicrobial Coating		Optional	Optional	Optional	Optional
	316SS Work Surface		Optional	Optional	Optional	Optional
	Work Surface		One-piece	One-piece	One-piece	One-piece
	Touch Screen		N	N	N	N
	Electric Front Sash		Y	Optional	Optional	Optional
	Foot Switch		Optional	Optional	Optional	Optional
	Armrest		N	Y	Y	Y
	Exhaust Duct Connection Kits		N	Optional	Optional	Optional
Others	Certification		CE, TUV	CE, UKCA, TUV	CE, UKCA, TUV	CE, UKCA, TUV

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Classic Series Biological Safety Cabinet (Type A2)

Scope of Application

Professional partial air purification equipment, it is suitable for cell biology, microbiology, biomedicine, biosafety and other related laboratories.



HR30-IIA2

Product Advantages

Patented air flow blocking technology is designed at the upper edge and both edges of front window to eliminate the exposure of microorganisms

Real-time display of key parameters: down-flow velocity, inflow velocity, airflow volume, static pressure, negative pressure, accumulative running time off an accumulative running time of UV lamp, and remaining life of filter

The internal walls on three sides of operation area is constructed by a single plate, and the 12mm arc angle corner for optimal cleaning

The volume of liquid tank is over 4L, designed with outlet valve for convenient cleaning and maintenance

Quality 304 stainless steel work surface without screws, no accumulation of contaminant

Audible and visual alarms for abnormal parameters

Digital LCD screen

Dismountable air in-flow plate, easy to clean and sterilize

UV lamp one-click reservation allows users to set 0 min to 24 hours of automatic on/off time and sterilization interval, reducing the waiting time

Professional

Digital display of operating parameters

Real-time digital display of down flow, inflow, exhaust volume, filter remaining life, UV lamp remaining life, negative pressure and positive pressure

Safe

- **Abnormal operation condition alarm**

  Audible and visual alarms in form of voice or text will be present when air turbulence level exceeds 20% and door height (high or low)

- **Filter end-of-life reminder**

  Pressure transducer monitors the resistance variation of filter to determine the remaining life of filter and reminds the user by warning when the remaining life is below 10%

- **UV lamp end-of-life reminder**

  The microcomputer records service times of the UV lamp and will alert the user to replace the UV lamp when its remaining life is less than 10%

- **Interlocking feature to ensure high safety and reliability**

  Patented technology: UV lamp interlocking control UV lamp, sash, fan and interior light operation are interlocked together to protect against harmful UV rays and to prevent leakage of microorganisms

Classic Series Biological Safety Cabinet (Type A2)

Specifications

Model			HR30-IIA2	HR40-IIA2	
General Specification	Power Supply(V/Hz)		220-240/50/60	115/60	220-240/50/60
	Power (VA)		1300	1300	1300
	Power of Blower (W)		AC 540/625	AC 540/625	AC 540/625
	Airflow Circulation		70% Downflow,30% Exhaust	70% Downflow,30% Exhaust	70% Downflow,30% Exhaust
	Main Filter Typical Efficiency		ULPA ,U15,99.9995%@0.12um	ULPA ,U15,99.9995%@0.12um	ULPA ,U15,99.9995%@0.12um
	Exhaust Filter Typical Efficiency		HEPA ,H14,99.995%@0.3um	HEPA ,H14,99.995%@0.3um	HEPA ,H14,99.995%@0.3um
	Exhaust Filter		Single	Single	Single
	Filter's Brand		AirePlus	AAF	AAF
	Downflow Velocity (m/s)		0.3	0.28	0.3
	Inflow Velocity (m/s)		0.53	0.55	0.53
	Lighting Intensity (Lux)		≥1100	≥1200	≥1200
	Sound Level (dB(A))		61	64	64
	Bench or Stand Only		Stand only	Stand only	Stand only
Dimensions	Net/Gross Weight	kg	220/248	258/305	258/305
		lbs	485/546.7	568.8/672.4	568.8/672.4
	Internal Dimensions (W*D*H)	mm	900*610*680	1167*610*680	1167*610*680
		in	35.4*24.0*26.8	45.9*24.0*26.8	45.9*24.0*26.8
	External Dimensions (W*D*H)	mm	1100*820*2200	1360*820*2200	1360*820*2200
		in	43.3*32.3*86.6	53.5*32.3*86.6	53.5*32.3*86.6
	Packing Dimensions (W*D*H)	mm	1185*945*1750	1445*945*1720	1445*945*1720
		in	46.7*37.2*68.9	56.9*37.2*67.7	56.9*37.2*67.7
	Support Stand (mm)		680mm (standard), 680-900mm adjustable height (optional)	680mm (standard), 680-900mm adjustable height (optional)	680mm (standard), 680-900mm adjustable height (optional)
	Sash Opening (mm)		190 (Max 490)	190 (Max 490)	190 (Max 490)
	Container Load (20'/40'/40'H)		10/20/20	8/16/16	8/16/16
Alarms Functions	Alarm		Sound and Flash	Sound and Flash	Sound and Flash
	Closing Fan Alarm After Door Opening		Y	Y	Y
	Door Ajar		Y	Y	Y
	Abnormal Inflow		Y	Y	Y
	Abnormal Downflow		Y	Y	Y
	Door Open More than Limit		Y	Y	Y
	Filter Clogging		Y	Y	Y
	Filter Damage		Y	Y	Y
	Filter Lifetime Lack		Y	Y	Y
	UV Light Lifetime Lack		Y	Y	Y
Accessories	UV Lamp		Y	Y	Y
	Socket		1 Socket	1 Socket	1 Socket
	Valve Port		Standard with 2 Valve Port	Standard with 2 Valve Port	Standard with 2 Valve Port
	Side Wall Service Taps		Standard gas tap and vaccum Tap; optional compressed air tap and water tap	Standard gas tap and vaccum Tap; optional compressed air tap and water tap	Standard gas tap and vaccum Tap; optional compressed air tap and water tap
	Antimicrobial Coating		Optional	Optional	Optional
	316SS Work Surface		Optional	Optional	Optional
	Work Surface		One-piece	One-piece	One-piece
	Touch Screen		N	N	N
	Motorized Window		N	N	N
	Foot Switch		N	N	N
	Armrest		Y	Y	Y
	Exhaust Duct Connection Kits		Optional	Optional	Optional
Others	Certification		CE, TUV	/	CE, TUV

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Classic Series Biological Safety Cabinet (Type B2)

Scope of Application

Professional partial air purification equipment, it is suitable for cell biology, microbiology, biomedicine, biosafety and other related laboratories.

Product Advantages

- 100% exterior exhaust
- 4m corrosion-resistant corrugated hose (standard)
- Haier Biomedical exterior exhaust fan (optional)
- Interlocking between safety cabinet and exterior exhauster, enables remote control of exterior exhauster parameters with safety cabinet



HR40-IIB2

Classic Series Biological Safety Cabinet (Type B2)

Specifications

Model			HR40-IIB2
General Specification	Power Supply(V/Hz)		220-240/50/60
	Power (VA)		1700
	Power of Blower (W)		AC 115
	Airflow Circulation		100% Exhaust
	Main Filter Typical Efficiency		ULPA ,U15,99.9995%@0.12um
	Exhaust Filter Typical Efficiency		HEPA ,H14,99.995%@0.3um
	Exhaust Filter		Single
	Filter's Brand		AAF
	Downflow Velocity (m/s)		0.28
	Inflow Velocity (m/s)		0.55
	Lighting Intensity (Lux)		≥1200
	Sound Level (dB(A))		64
	Bench or Stand Only		Stand only
Dimensions	Net/Gross Weight	kg	252/308
		lbs	555.6/679.0
	Internal Dimensions (W*D*H)	mm	1167*610*680
		in	45.9*24.0*26.8
	External Dimensions (W*D*H)	mm	1360*820*2330
		in	53.5*32.3*91.7
	Packing Dimensions (W*D*H)	mm	1445*945*1930
		in	56.9*37.2*76.0
	Support Stand (mm)		680mm (standard), 680-900mm adjustable height (optional)
	Sash Opening (mm)		190 (Max 490)
	Container Load (20'/40'/40'H)		8/16/16
Alarms Functions	Alarm		Sound and Flash
	Closing Fan Alarm After Door Opening		Y
	Door Ajar		Y
	Abnormal Inflow		Y
	Abnormal Downflow		Y
	Door Open More than Limit		Y
	Filter Clogging		Y
	Filter Damage		Y
	Filter Lifetime Lack		Y
	UV Light Lifetime Lack		Y
Accessories	UV Lamp		Y
	Socket		1 Socket
	Valve Port		Standard with 2 Valve Port
	Side Wall Service Taps		Standard gas tap and vaccum tap; optional compressed air tap and water tap
	Antimicrobial Coating		Optional
	316SS Work Surface		Optional
	Work Surface		One-piece
	Touch Screen		N
	Motorized Window		N
	Foot Switch		N
	Armrest		Y
	Exhaust Duct Connection Kits		N
Others	Certification		CE, TUV

*Haier Biomedical reserves the right to change products and specifications without prior notice

Animal Containment Workstation

Scope of Application

Applicable for laboratory animal operations (surgery, weighing, etc.) in experimental animal centers of scientific research institutions, hospitals, colleges and universities, or experimental animal research and development projects and breeding institutions.



HR1500-IIA2-DW

Animal Containment Workstation

Product Advantages

Low Maintenance Costs

Experimental animal hair and debris are captured to eliminate the impact of hair debris and other debris on the service life of the fans and filters which ensures the cabinet is more durable

Sectioned Pre-filter

The interior of the sectioned pre-filter is easy to clean, and the pre-filter with a rear-mounted work surface is designed in sections, meaning the filter is easy to disassembled and sterilized as needed

The Dual System Ensures Maximum Safety

Each independent-controlled down flow and inlet airflow system is designed with dual fans, which ensures the stable airflow in the cabinet even if the pre-filter is 50% blocked. In the case of either damage to either fan, the air supply and exhaust system ensure safe air and protection

Stable Laminar Flow Offers Safety

The intelligent constant air speed design means that if abnormal air velocity is detected the fan adjust automatically to ensure the air speed stay within normal range

Product Features

Safety Interlock

Ultraviolet lamp, sash window, fans, and lamps are interlocked to eliminate hidden dangers of ultraviolet and microorganism leakage

Traceable

The work area in the cabinet is monitored by camera and the images are stored for future reference (optional)

Real-time Status Display

The digital screen displays in real time the flow rate of downflow and inflow airflow, the volume of discharged air, the temperature and humidity of the working area, the remaining service life of the filter, the UV lamp, the pressure in the negative pressure area, and positive pressure area. Users are alerted if abnormal operation is detected

Electric Foot Switch

When it is inconvenient to open the safety cabinet door with both hands, the electric front sash can be opened by foot switch (optional)

Specifications

Model	HR1500-IIA2-DW
Power (W)	1400
Downflow Velocity (m/s)	0.3
Inflow Velocity (m/s)	0.53
Lighting Intensity (Lux)	≥1100
Net/Gross Weight (kg)	350/400
Interior Dimensions (W*D*H)(mm)	1530*600*653
Exterior Dimensions (W*D*H)(mm)	1636*790*2170
Packing Dimensions (W*D*H)(mm)	1700*925*1715
Container Load (20'/40'/40'H)	6/12/12

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Laminar Flow Cabinet

Scope of Application

A professional localized air purification equipment suitable for pharmaceuticals, medical and health, scientific research laboratories of universities and colleges, photoelectric/microelectronics manufacturing and other fields



Horizontal Airflow

Product Advantages

Moisture-proof and flame-retardant glass fiber high efficiency particulate air filters (HEPA), ensure a filtration efficiency of 99.99% or above for particles of 0.3um or above

With the industry's first pre-cleaning function: namely pre-cleaning the workspace before sample treatment so as to further improve the protection of samples

The air cleanliness conforms to Class 5 of the IS014644.1 Standard, and is better than Class 100 cleanliness requirements

One-key operation, convenient and secure:

- With a timed UV lamp turn off function, it is adjustable between 0 and 99 minutes
- With the lighting lamp and UV lamp interlock function; the UV lamp can only be lit when the lighting lamp is off. The UV lamp is turned off immediately if the fluorescent lighting is turned on to prevent mis-operation

Built-in lighting prevents exposure to fluorescent lamp to avoid eye stain

Laminar Flow Cabinet



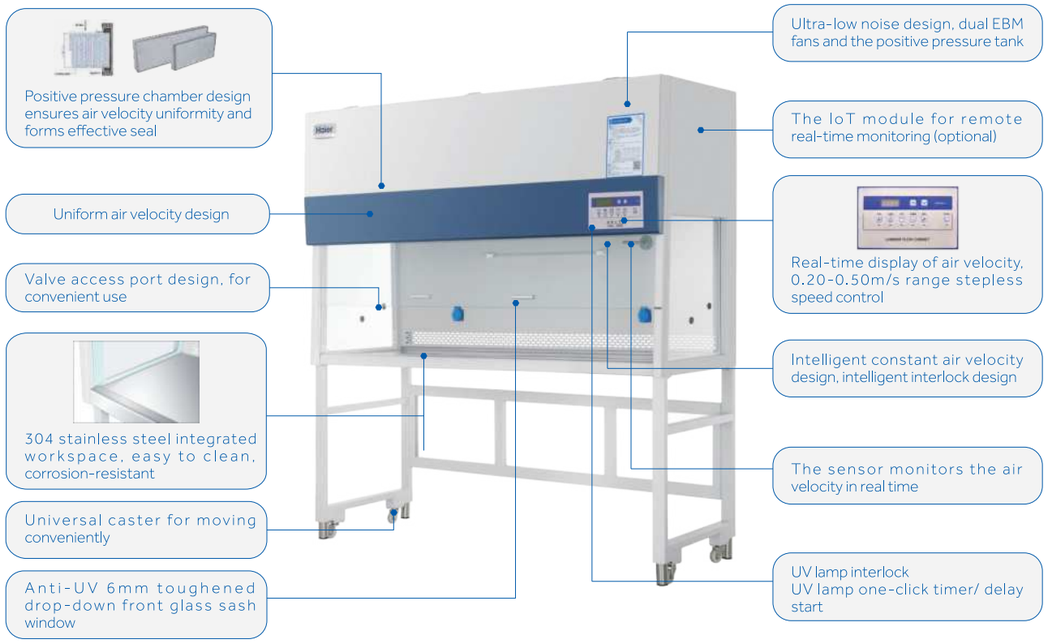
Vertical Airflow

Specifications

Model			HCB-900V	HCB-1300V		HCB-1600H
General Specification	Flow Type		Vertical	Vertical	Vertical	Horizontal
	Power Supply(V/Hz)		220/50	115/60	220/50	220/50/60
	Power (W)		1200	1200	1200	350
	Vibration Amplitude (UM)		2	2	2	2
	Exhaust Filter Typical Efficiency		H13 HEPA,99.99%@0.3um	H13 HEPA,99.99%@0.3um	H13 HEPA,99.99%@0.3um	H13 HEPA,99.99%@0.3um
	Average Velocity (M/S)		0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4
	Lighting Intensity (Lux)		≥300	≥300	≥300	≥1000
	Sound Level (dB(A))		60	60	60	61
Dimensions	Sash Opening(mm)		Max 310	Max 310	Max 310	/
	Net/Gross Weight	kg	115/145	145/171	145/171	165/214
		lbs	254/319	320/376	320/376	363.7/471
	Internal Dimensions (W*D*H)	mm	900*530*520	1300*530*520	1300*530*520	1710*550*750
		in	35.4*20.9*20.5	51.2*20.9*20.5	51.2*20.9*20.5	67.3*21.7*29.6
	External Dimesion (W*D*H)	mm	970*630*1730	1370*630*1730	1370*630*1730	1780*790*1960
		in	38.2*24.8*68.1	53.9*24.8*68.1	53.9*24.8*68.1	70.1*31.1*77.2
	Packing Dimensions (W*D*H)	mm	1100*750*1290	1510*770*1280	1510*770*1280	1875*940*1410
		in	43.3*29.5*50.8	59.4*30.3*50.4	59.4*30.3*50.4	73.8*37.0*55.5
	Support Stand(mm)		755mm (standard)	755mm (standard)	755mm (standard)	765mm (standard)
	Container Load (20'40'40'H)		15/33/33	10/22/22	10/22/22	6/12/12
Accessories	UV Lamp		Y	Y	Y	Y
	Power Outlet Socket		2 Sockets	2 Sockets	2 Sockets	/
	Conversion Socket		Optional	Optional	Optional	/
	Cleanliness Classification		ISO 14644.1 Class 5	ISO 14644.1 Class 5	ISO 14644.1 Class 5	ISO 14644.1 Class 5
	Valve Port		Optional	Optional	Optional	Optional
	Side Wall Service Taps		Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap
	Antimicrobial Coating		Optional	Optional	Optional	Optional
	316SS Work Surface		Optional	Optional	Optional	Optional
	Work Surface		Single-piece	Single-piece	Single-piece	Single-piece
	Touch Screen		/	/	/	/
	Motorized Window		/	/	/	/
	Foot Switch		/	/	/	/
	Armrest		Y	Y	Y	Y
	Exhaust Duct Connection Kits		/	/	/	/
Others	Certification		CE	/	CE	CE

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Laminar Flow Cabinet



Product Advantages

- Positive pressure chamber design ensures air velocity uniformity and forms effective seal
- Ergonomic cabinet design with a 10° inclination, to improve user comfort during operation
- The workspace is made of easy-to-clean, high-quality, anti-corrosion 304 stainless steel
- The front sash window and the left & right- side glass panels are all non-reflective tempered UV glass to maximise natural light during operation, which also makes the glass easy to clean
- Designed with access ports on left and right sides, easy and convenient to mount valves such as gas supply

Specifications

Model			HCB-1300VS	HCB-1600VS
General Specification	Flow Type		Vertical	Vertical
	Power Supply(V/Hz)		220/50/60	220/50/60
	Power (W)		1350	1200/1350
	Vibration Amplitude (UM)		2	2
	Exhaust Filter Typical Efficiency		H13 HEPA,99.99%@0.3um	H13 HEPA,99.99%@0.3um
	Average Velocity (M/S)		0.20-0.50	0.20-0.50
	Lighting Intensity (Lux)		≥600	≥1000
	Sound Level (dB(A))		60	63
Dimensions	Sash Opening(mm)		Max 360	Max 360
	Net/Gross Weight	kg	180/232	202/260
		lbs	397/511.5	445.3/573
	Internal Dimensions (W*D*H)	mm	1300*510*550	1600*510*550
		in	51.2*20.1*21.7	60.0*20.1*21.7
	External Dimesion (W*D*H)	mm	1370*640*1820	1670*640*1820
		in	53.9*25.2*71.7	65.7*25.2*71.7
	Packing Dimensions (W*D*H)	mm	1480*845*1290	1780*840*1270
		in	58.3*33.3*50.8	70.1*33.1*50.0
	Support Stand(mm)		750mm (standard)	750mm (standard)
	Container Load (20'40'40'H)		11/20/20	7/14/14
Accessories	UV Lamp		Y	Y
	Power Outlet Socket		2 sockets	2 sockets
	Conversion Socket		Optional	Optional
	Cleanliness Classification		ISO 14644.1 Class 4	ISO 14644.1 Class 4
	Valve Port		2 on each side	2 on each side
	Side Wall Service Taps		Optional gas tap, vaccum tap, compressed air tap and water tap	Optional gas tap, vaccum tap, compressed air tap and water tap
	Antimicrobial Coating		Optional	Optional
	316SS Work Surface		Optional	Optional
	Work Surface		Single-piece	Single-piece
	Touch Screen		/	/
	Motorized Window		/	/
	Foot Switch		/	/
	Armrest		Y	Y
	Exhaust Duct Connection Kits		/	/
Others	Certification		/	/

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Laminar Flow Cabinet

Scope of Application

Haier Biomedical Ductless Fume Hood utilizes carbon filtration to protect laboratory personnel and the environment from toxic chemical fumes, odours, and particles. It is widely used in universities, public health, chemical and petrochemical industry, drug testing, museums and many other fields which involve the use of chemicals

- Intelligent constant speed design, ensures the best adsorption effect of the filter
- Energy-efficient EC fan for a longer service life and reliable operation
- Offers a broad range of accessories and options to meet clients' different requirements
- Standard VOC sensor detects presence of volatile organic compounds in the exhaust and alarms to indicate filter saturation
- Multiple stackable filter types: remove vapor contaminants from the air, can be combined to handle different types of chemicals and particulates during the same application

Product Details

10-inch touch screen
Real-time display of VOC concentration, wind speed, filter service life and UV lamp running time. Alerts when filter or UV lamp lifespan falls below 10%

Air velocity sensor
Intelligent constant air velocity ensures the stability

Universal casters with built-in threaded support legs



EC fan
Energy-efficient EC fan for a longer service life and reliable and quieter operation

PIR detection
In intelligent mode, the PIR sensor will detect when the operating area has been clear of personnel for more than 15 minutes and automatically switch to LNS green-saving mode

Electrical sockets
Included as standard are two, waterproof sockets with timing technology, which allows the user to program timed on/off function

HTF-1200W/1500W

Optional Components


UV lamp


Dual surveillance cameras

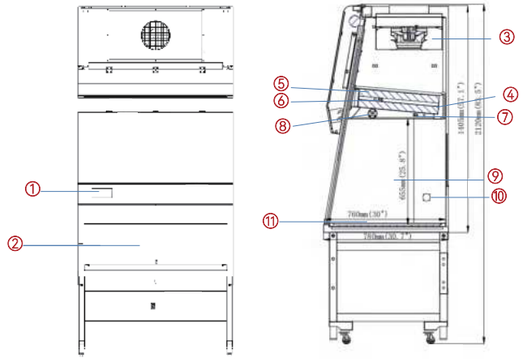

Electrically operated glass sash


IoT module


Height adjustable stand


PVC worktable

Product Dimension



1.Microprocessor Control System
2.Tempered Glass Sliding Sash Window
3.EC fan
4.First filter
5.Second filter(optional)
6.VOC sensor
7.Temperature and humidity sensor
8.Wind velocity sensor
9.Tempered Glass Side
10.Electrical sockets(2 on each side)
11.Powder coated steel worktop

Types of Filters

Carbon filters are used to remove toxic gases, hazardous fumes, and odors. These filters are constructed from high-quality carbon pellets and durable chemical-resistant cases. Below is Haier Biomedical filters list

Code No	Name	Suitable Applications
A	Standard Filter (Mixed with N4A1, N4B1 and N4G1 activated carbon)	Suitable for all common laboratory chemicals, especially with organics. When no specific requirements are present, or when more than one type of chemical is used
B	Organic Solvent Filter (N4G1 activated carbon)	Removal of toluene, benzene, xylene, acetone, acetic acid, carbon tetrachloride, chloroform, CxHy, VOC , etc
C	Acid Gas Filter (N4A1 activated carbon)	Removal of hydrochloric acid, sulfuric acid, hydrofluoric acid, hydrogen sulfide, sulfur dioxide , etc
D	Alkaline Gas Filter (N4B1 activated carbon)	Removal of ammonia, amine, etc.
E	Formaldehyde Filter	Mainly used for adsorption of formaldehyde
F	Particle Filter	Mainly used to absorb dust

Specifications

Model		HTF-1200W	HTF-1500W
Power Supply (V/Hz)		220/50/60	220/50/60
Power (W)		1200	1300
Sound Level (dB(A))		≤58	≤58
Inflow Air Velocity (m/s)		0.4-0.6	0.4-0.6
Fluorescent Light Intensity (lux)		≥1000	≥1000
Filtration Elements	First Filter	Activated Carbon with Granular Media bed (6 different filter types available , codes A-F)	
	Second Filter (optional)	Activated Carbon with Granular Media bed (6 different filter types available , codes A-F)	
Exterior Dimensions (W*D*H)(mm)		1336*780*2120	1636*780*2120
Operation Dimensions (W*D*H)(mm)		1230*760*655	1530*760*655
Packaging Dimensions (W*D*H)(mm)		1400*925*1665	1700*925*1665
Net Weight (Kg)		230	250
Packaging Weight (Kg)		290	330
Display		10 inch screen	10 inch screen
VOC Sensor		Standard (1)	Standard (1)
Certification		CE	CE

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Haier Biomedical
Intelligent Protection of Life Science

Incubators

CO_2 Incubator

Haier Biomedical IoT enabled CO_2 incubator with 180°C dry heat sterilization provides a safe and secure reproducible growth environment for cell cultures.



HCP-80 HCP-168 HCP-258

IR Sensitive Control of CO_2 Concentration

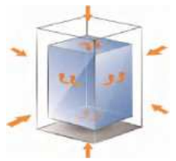
The new IR sensor with high temperature resistance of 190°C is based on the NDIR measurement principle and uses a silicon MEMS transmitter to replace the traditional light source. It can withstand more than 300 dry heat sterilization cycles with a service life of up to 15 years and control accuracy of ±0.1%. German IR infrared sensing technology, zero drift, without need for calibration, drift less than 0.3% within 2 years



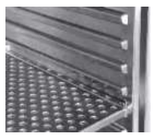
7-inch Touchscreen

Displays CO_2 concentration and temperature data in real time. 15 years of data can be exported via USB

6-sided heating sketch

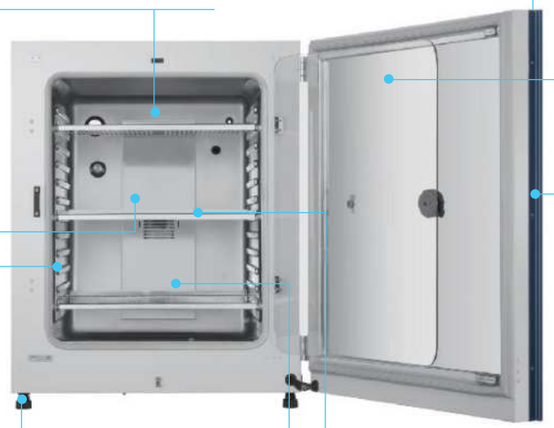


304 Stainless Interior



Adjustable Feet

It can be double stacked



Inner Door

The door ensures the inside of the cabinet is sealed

Outer Door

The heated outer door prevents the condensation of the inner door

Internal Partition

Safety anti-slip design of pull out shelves

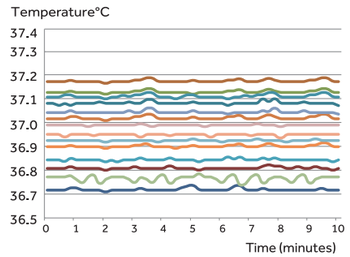


180°C Dry-heat Sterilization

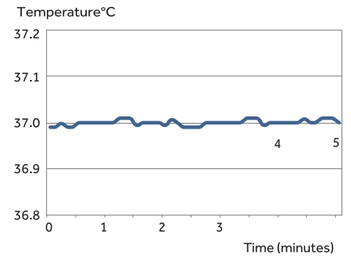
All internal components do not need to be disassembled and do not need separate autoclave sterilization to prevent secondary pollution. Cleaning consumables are not needed, one-button sterilization. German INFRARED CO_2 sensor, NDIR light source technology drift < 0.3% within two years. The unit can withstand sterilization at 180°C with no disassembly and no manual calibration

Precise and Accurate Temperature Control

Controls the temperature precisely, within ±0.1°C, with six-sided heating based on the fuzzy PID control principle, to provide a stable temperature to ensure the normal growth of cells throughout their life cycle.



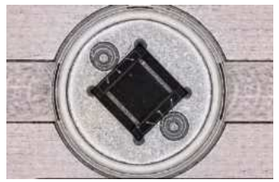
Uniformity of 27 measuring points <±0.3°C



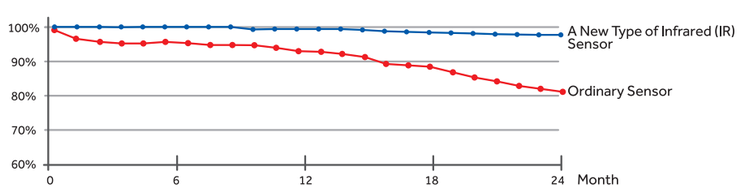
Central consistency point <±0.1°C

Precise CO_2 Concentration Using New IR Sensor Control Technology

Haier Biomedical's new IR Sensor technology uses NDIR measurement principles and withstands high temperatures of 190°C. The silicon MEMS transmitter can carry out more than 300 dry heat sterilization cycles to extend the service life to 15 years. Built-in temperature and humidity compensation technology reduces the impact of changes in humidity and temperature without the need for calibration after the high temperature sterilization. Five point calibration yields a higher measuring accuracy, sensitivity with less drift.



Silicon-based mems transmitter



Sketch of drift less than 0.3%

Fast Environment Recovery for Optimal Cell Growth

Adopting active airflow control technology, and based on the fuzzy PID control principle, the parameters can be restored without overshoot. After opening the door for 30 seconds, the temperature and CO_2 concentration can be quickly restored within 4 minutes. Even if multiple users share a CO_2 incubator and frequently open and close the door, the stability and uniformity of the incubator can be ensured.

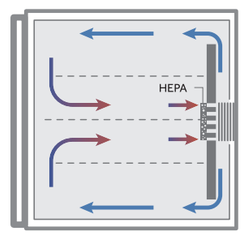
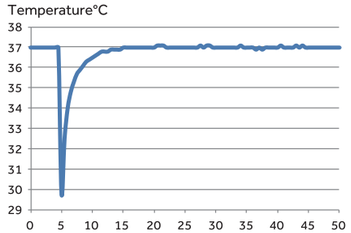
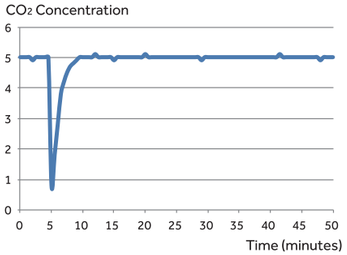


Illustration of purified airflow



Temperature recovery curve (door open for 30s)



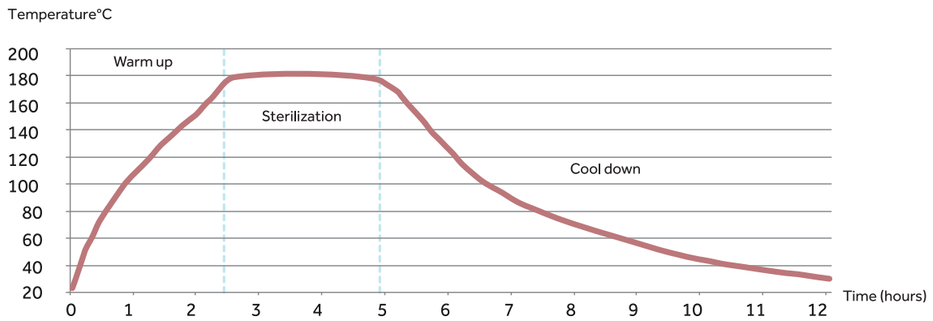
CO_2 concentration recovery curve (door open for 30s)

180°C Dry-Heat Sterilization Technology Minimises Contamination

Easy and effective sterilization of microorganisms including bacteria, fungi and microplasma with strong resistance, at 180°C high temperatures without the need for consumables. Simply press the "sterilization key" to activate and complete the sterilization process automatically in just 12 hours.

Delivers sterility level within the chamber of all surfaces to meet WS/T367-2012 standards.

All components are sterilized during the process, there is no need to dissemble internal components (including CO_2 sensors) and decontaminate separately, thus avoiding secondary pollution.



High Efficiency Microbial Filter



The CO_2 inlet is equipped with a high-efficiency microbial filter, with 99.99% filtration efficiency for particles larger than or equal to 0.2μm in diameter. It can effectively filter bacteria and dust particles in the CO_2 gas line to ensure the safety of experimental results.

Easy to Clean Interior



The working chamber is plasma electro polished, stamped stainless steel with wide-arc, laser welded corners. Bracketless shelving design ensures that it is quick and easy to clean.

Interactive Intelligent Display with Easy Touch Operation

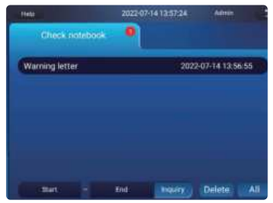
Touch-sensitive screen with rapid sensing even in rubber gloves. Green indicates normal operational parameters, while a red warning display indicates abnormal, making it easy to view data at a glance. A red warning display and audible buzzer will alarm when water level is low.



Home screen red warning.



Real-time display of operation data & real-time display of temperature, for CO_2 concentration and O_2 concentration, and the data during the culture cycle can be viewed at any time.



Announcement function de-signed for multiple persons to use the same incubator making it clear to all users on important matters.



Operation mode clear management authority: three-levels of authority to ensure the security of data.

Real-time Monitoring



An IoT module with multi-screen interface provides real-time uploadset parameters, operation parameters, operation curves, recordsand event records through the IoT cloud platform. The operation ofincubator can be monitored at anytime and anywhere throughmobile APP or computer terminal. Alarm function, and servicefunction are available through an one button touch.

Anti-Condensation Heating System to Reduce Pollution Risk

The door on the CO_2 incubator radiates heat to the inner glass door, effectively preventing the glass door from forming condensation. The possibility of microbial contamination caused by the condensate water is eliminated.

Intelligent Control of Circulating Air Maintains Uniformity

Automatically adjusts the circulation of the air flow, optimizing the airflow to avoid air volatilization of samples and ensuring proper uniformity throughout the chamber.

Comprehensive Safety Alarm System

The system ensures the safety of experiments and processes by utilizing an independent temperature alarm system, including a sound light and remote reminder. Other alarms include CO_2 concentration, door ajar and water shortage.

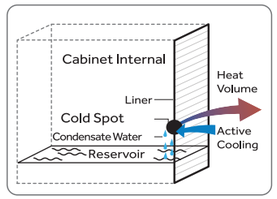
CO_2 Incubator



Safe anti-slip design with pull out shelves.



Drainage design

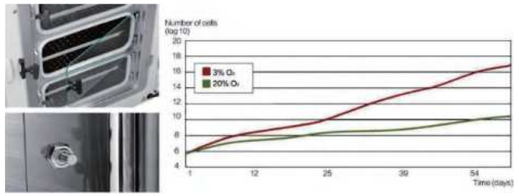


Active heat pipe condensation technology with any condensation directly returning to the reservoir.



Data traceable for 15 years with large storage capacity and data exportable through USB.

Accurate oxygen control (optional) for HCP-168



Three or six internal doors are available to reduce gas consumption
O_2 concentration can be controlled within the range of 1-21%
After opening the door for 30 seconds, the O_2 concentration can recover to 5% in only 8 minutes and 1% in 18 minutes
High precision zirconia O_2 sensor, oxygen control accuracy 0.1%
Advanced and reliable gas solenoid valve, low noise

The Quality of ISO Class 5 Clean Room Can Ensure a Better Cell Growth Environment



The optional HEPA high-efficiency filtration system combined with the unique air duct circulation design can continuously filter pollutants (biological pollutants and suspended particles) in the cabinet, ensuring that the incubator can reach the ISO class 5 clean room within 5 minutes after the external door is closed, which is equivalent to the class 100 environment of the 209 E standard of the united states

Optional Accessories

Name	Material Description
Oxygen Module	Zirconia O_2 sensor, control accuracy: 0.1%; control range: 1-21% or 5-90%
3 Inner Door (for HCP-168/B)	Reduce the temperature, humidity and carbon dioxide concentration in the box after opening the door, and minimize the mutual influence of multiple cultures
6 Inner Door (for HCP-168/B)	Reduce the temperature, humidity and carbon dioxide concentration in the box after opening the door, and minimize the mutual influence of multiple cultures
8 Inner Door (for HCP-258/B)	Reduce the temperature, humidity and carbon dioxide concentration in the box after opening the door, and minimize the mutual influence of multiple cultures
Water Tray	Provides different bottom humidification methods
Roller Base	Easy to move, prevent the ground bacteria contamination
HEPA Filter	Ensure the cleanliness of the cabinet, suitable for users who open and close the door frequently; After opening the door for 30 seconds, the air inside the cabinet can be passed through HEPA filters within 5 minutes and reach ISO 5 clean room quality
Pressure Reducing Valve	Suitable for users with cylinder gas supply
Shelf	Increase the number of samples cultured 4 materials : SUS304 single mirror surface SUS304 double mirror surface tempering glass Pure copper
Humidity Display (for HCP-168/B)	Real time monitoring of humidity inside the box
Cylinder Switching	Supports switching between multiple steel cylinders to ensure uninterrupted air intake into the incubator
Electromagnetic Lock	Important tests can be dedicated by dedicated personnel to ensure test safety
Stacking Bracket	Supports stacking of different volume models up and down, saving laboratory space

Specifications

Model			HCP-80	HCP-80B	HCP-168	HCP-168B	HCP-258	HCP-258B
Type			Air Jacket		Air Jacket		Air Jacket	
Construction	Chamber Volume (L/Cu.Ft)		80/2.8		170/6.0		258/9.1	
	Interior Chamber		304 Stainless Steel					
	Exterior Chamber		Cold-rolled steel powder coated					
	Access Port		/		35mm Diameter		35mm Diameter	
	Data Outputs		Remote Alarm Contacts, USB, and Optional 4-20mA					
Dimensions	Net/Gross Weight (approx)	kg	75/95		95/130		110/155	
		lbs	165.3/209.4		209.4/286.6		242.5/341.7	
	Interior Dimensions (W*D*H)	mm	400*420*490		490*560*650		570*610*745	
		in	15.7*16.5*19.3		19.3*22*25.6		22.4*24.0*29.3	
	Exterior Dimensions (W*D*H)	mm	625*684*735		714*812*887		794*867*985	
		in	24.6*26.9*28.5		28.1*32*34.9		31.3*34.1*38.8	
	Packing Dimensions (W*D*H)	mm	700*770*910		890*800*1050		870*950*1150	
		in	27.6*30.3*35.8		35*31.5*41.3		34.3*37.4*45.3	
Shelves	Dimensions (W*D)	mm	380*300		473*434		550*484	
	Number Standard/Maximum		3/8		3/11		3/13	
	Max.Load Per Shelf/Total Load	kg	15/45		15/45		15/45	
	Construction		Perforated, Adjustable					
Electrical	Rated Voltage Power Supply (V/Hz)		220-240-50/60	100-50/60	220-240-50/60	100-50/60	220-240-50/60	100-50/60
	Nominal consumption (kw) (Steri-Run)		0.08 (0.85)	0.08 (0.75)	0.095 (1.3)	0.095 (1.1)	0.12 (1.35)	0.12 (1.2)
Control	Controller		Microprocessor		Microprocessor		Microprocessor	
	Display		7 "LCD Screen		7 "LCD Screen		7 "LCD Screen	
CO_2	Control Accuracy		0.10%		0.10%		0.10%	
	Range		0-20%		0-20%		0-20%	
	Alarm Range		±0.5%		±0.5%		±0.5%	
	Inlet Pressure		12-17Psi (0.8-1.2 Bar)					
	Gas Purity		min.99.5% or medical quaity					
	Sensor		IR		IR		IR	
	Recovery Time ** (after 30s door opening,98% from initial value) (min)		4		4		4	
	CO_2 Inlet Filter (μm)		<0.2		<0.2		<0.2	
Alarms	High/Low Temperature		Y		Y		Y	
	Remote Alarm		Y		Y		Y	
	Excessive CO_2 Concentration		Y		Y		Y	
	Water Shortage		Y		Y		Y	
	Sensor Error		Y		Y		Y	
	Door Ajar		Y		Y		Y	
Temperature Parameter	Control Accuracy (°C)		0.1		0.1		0.1	
	Temperature Range		Ambient temperature+3-55°C					
	Uniformity (°C)		±0.3		±0.3		±0.3	
	Ambient Range (°C)		18-34		18-34		18-34	
	Sensor		2PT1000		2PT1000		2PT1000	
	Recovery time *** (after 30s door opening,98% from initial value) (min)		4		4		4	
Sterilization Cycle	Cycle Temperature		180°C on internal Surfaces and Shelves					
	Cycle Duration		Under 12 Hours		Under 12 Hours		Under 12 Hours	
Humidity	RH (Relative Humidity)		Setting 37°C ≥90%		Setting 37°C ≥90%		Setting 37°C ≥90%	
	Humidity Reservoir		Max. 1.75L/Min 0.5L		Max. 3.5L/Min 0.5L		Max. 5.5L/Min 0.5L	
Option	HEPA Filter		Y		Y		Y	
	Pressure Reducing Valve		Y		Y		Y	
	4-20mA		Y		Y		Y	
	The Cylinder Switch		Y		Y		Y	
	Shelf		Y		Y		Y	
	Water Tray		Y		Y		Y	
	3 Inner Door		N		Y		N	
	6 Inner Door		N		Y		N	
	8 Inner Door		N		N		Y	
	Roller Base		Y		Y		Y	
	Pure Copper Inner Liner		Y		Y		Y	
	Pure Copper Shelf		N		Y		N	
	Humidity Display		N		Y		N	
	Oxygen Module		Y		Y		N	
Others	Certification		CE	UL	CE	UL	CE	UL

*Product appearance and specifications are subject to change without notice
** For CO_2 not exceeding 5.2%
*** For temperature not exceeding 37°C

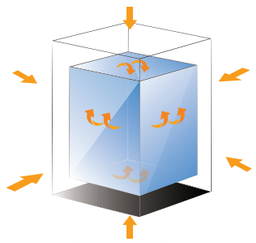
CO_2 Incubator



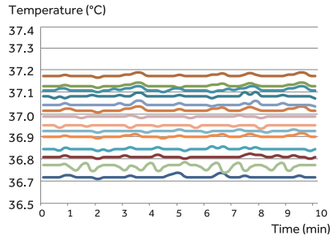
HCP-80E HCP-168E HCP-258E

Precise and Accurate Temperature Control

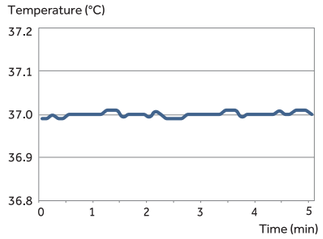
Controls the temperature precisely, within ±0.1°C, with six-sided heating based on the fuzzy PID control principle, to provide a stable temperature to ensure the normal growth of cells throughout their life cycle.



Six-sided heating



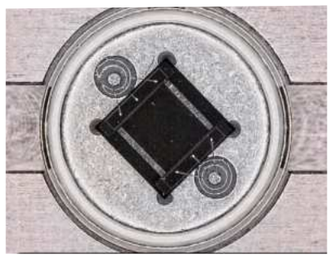
Uniformity of 27measuring points<±0.3°C



Central consistency point<±0.1°C

Precise CO_2 Concentration Using New IR Sensor Control Technology

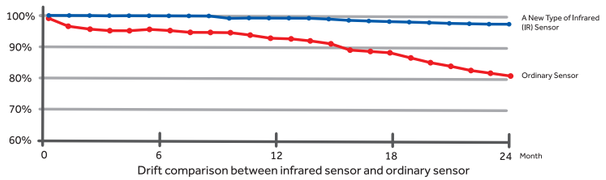
Haier Biomedical's new IR Sensor technology uses NDIR measurement principles and withstands high temperature of 100°C. The silicon MEMS transmitter can carry out more than 300 dry heat sterilization cycles to extend the service life to 15 years. Built-in temperature and humidity compensation technology reduce the impact of changes in humidity and temperature without the need for calibration after the high temperature sterilization. Five points calibration yields a higher measuring accuracy, sensitivity with less drift (less than 3% within 2 years).



Silicon-based mems transmitter



Infrared (IR) sensor



Drift comparison between infrared sensor and ordinary sensor

*The equipment is tested by Haier in a controlled environment. Haier does not guarantee that the results of field tests under different conditions will be consistent. The test model is HCP-168E

Fast Environment Recovery for Optimal Cell Growth

Adopting active air flow control technology, based on the fuzzy PID control principle, the parameters can be restored without overshoot. After opening the door for 30 seconds, the temperature and CO_2 concentration can be quickly restored within 4 minutes. Even if multiple users share a CO_2 incubator and frequently open and close the door, the stability and uniformity of the incubator can be ensured.

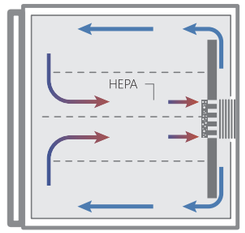
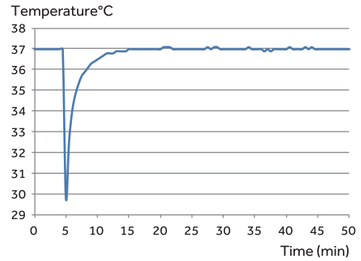
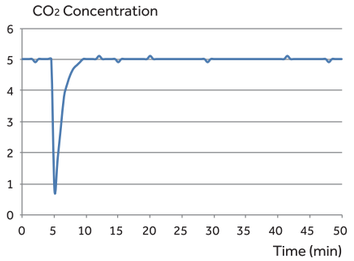


Illustration of purified airflow



Temperature recovery curve (door open for 30s)



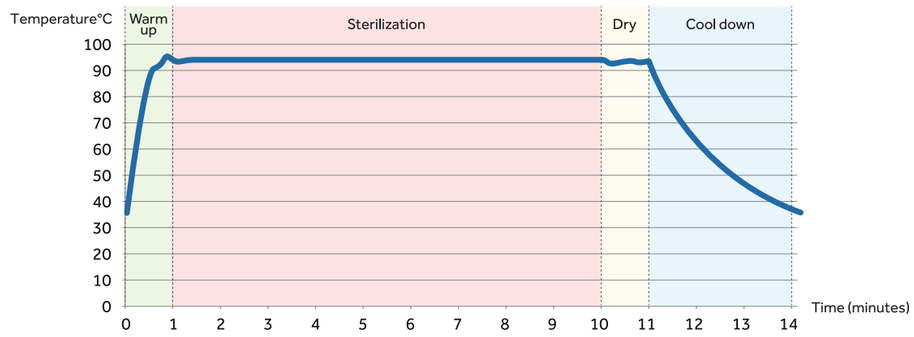
CO2 concentration recovery curve (door open for 30s)

90°C Moist Heat Sterilization Technology

Effective sterilization of microorganisms including bacillus and spores with strong resistance, at 90°C under moist heat, without the need for consumables. Simply press the "sterilization button", to activate and complete the sterilization process automatically in 14 hours.

Delivers sterility level within the chamber of all surfaces to meet WS/T367-2012 standards.

All components are sterilized during the process, there is no need to dissemble internal components (including CO_2 sensors) and decontaminate separately, thus avoiding secondary pollution.



Sterilization Temperature Profile

Forty-seven points were tested in the working chamber, including glass inner doors and partitions. All regions reached 90°C and maintained for 9 hours.

*The equipment is tested by Haier in a controlled environment. Haier does not guarantee that the results of field tests under different conditions will be consistent. The test model is HCP-168E

CO_2 Incubator

Air Jacketed With Six-sides Heating Design

- Fast temperature recovery and superior temperature uniformity
- High temperature sterilization can ensure that the temperature of each surface can reach 90°C

Co_2 Sensor

- The new IR sensor with high temperature resistance of 100°C, can withstand more than 300 high heat sterilization cycles
- Based on the NDIR measurement principle and uses a silicon MEMS transmitter to replace the traditional light source
- Zero drift and without need for calibration

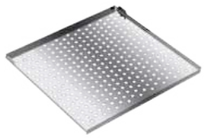


Door Switch

When the door opens, heating, air intake and fan automatically stop to minimize the risk of cross contamination

Partition

- Anti-slip design
- High levelness ensures uniform growth of adherent cells
- Mirror stainless steel to ensure high surface cleanliness, easy to clean



Integrated Liner

Integral design, large arc design, easy to clean



Air Flow System

The air flow circulation ensures proper uniformity throughout the chamber

Inner Door

- Tempered glass provides easy observation of sample growth
- Three/six inner doors optional

Operation Panel

- 4-inch LCD screen, vivid display and easy operation
- Abnormal operation sound and light alarm to ensure sample safety
- Running data can be traced, large capacity storage, data can be exported through USB





Test Hole

Providing access for convenient measurement of internal statistics

Outer Door

- Prevents the condensation of the inner door
- Left/right hand door optional

Inner and Outer Door Seal

- Silicone material, prevent aging after heating
- Close the inner cavity to ensure the cleanliness and uniformity of the inner chamber

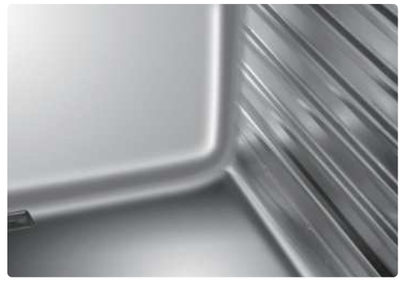
Bottom Reservoir Humidification

- Reservoir humidification method, no water tray, easy to clean, avoid breeding bacteria
- Large evaporation area and fast humidity recovery



Easy to Clean Interior

The working chamber is plasma electro polished, stamped stainless steel with wide-arc, laser welded corners. Bracketless shelving design ensures that it is quick and easy to clean.





Innovative Design with Attention to Detail



Safe anti-slip design of pull-out shelves.



Data traceable for 15 years with large storage capacity and data exportable through USB.

The Quality of ISO Class 5 Clean Room Can Ensure a Better Cell Growth Environment

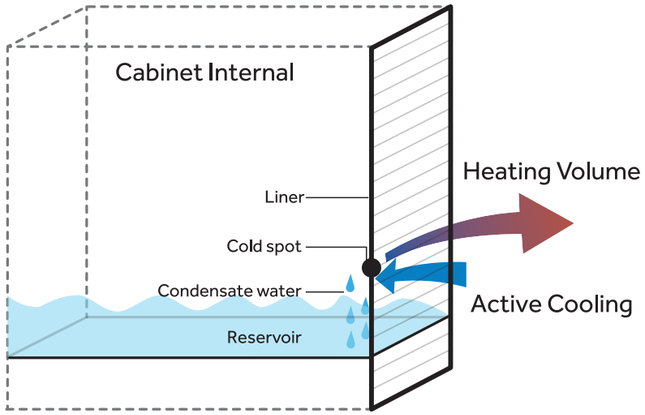


The optional HEPA high-efficiency filtration system combined with the unique air duct circulation design can continuously filter pollutants (biological pollutants and suspended particles) in the cabinet, ensuring that the incubator can reach the ISO class 5 clean room within 5 minutes after the external door is closed, which is equivalent to the class 100 environment of the 209 E standard of the united states

CO_2 Incubator

Reservoir Humidification Without Condensation

Active heat pipe condensation technology with condensate water directly returns to the reservoir, to ensure no condensation.



Optional Accessories

Name	Material Description
Oxygen Module (for HCP-168E/80E)	Zirconia O_2 sensor, control accuracy: 0.1%; control range: 1-21% or 5-90%
3 Inner Door (for HCP-168E)	Reduce the temperature, humidity and carbon dioxide concentration in the box after opening the door, and minimize the mutual influence of multiple cultures
6 Inner Door (for HCP-168E)	Reduce the temperature, humidity and carbon dioxide concentration in the box after opening the door, and minimize the mutual influence of multiple cultures
8 Inner Door (for HCP-258E)	Reduce the temperature, humidity and carbon dioxide concentration in the box after opening the door, and minimize the mutual influence of multiple cultures
Water Tray	Provides different bottom humidification methods
Roller Base	Easy to move, prevent the ground bacteria contamination
HEPA Filter	Ensure the cleanliness of the cabinet, suitable for users who open and close the door frequently; After opening the door for 30 seconds, the air inside the cabinet can be passed through HEPA filters within 5 minutes and reach ISO 5 clean room quality
Pressure Reducing Valve	Suitable for users with cylinder gas supply
Shelf	Increase the number of samples cultured 4 materials : SUS304 single mirror surface SUS304 double mirror surface tempering glass Pure copper
Cylinder Switching	Supports switching between multiple steel cylinders to ensure uninterrupted air intake into the incubator
Stacking Bracket	Supports stacking of different volume models up and down, saving laboratory space

Specifications

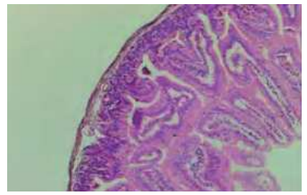
Model			HCP-80E	HCP-168E	HCP-258E
Type			Air Jacket	Air Jacket	Air Jacket
Construction	Chamber Volume (L)		80	170	258
	Interior Chamber		304 stainless steel	304 stainless steel	304 stainless steel
	Exterior Chamber		cold-rolled steel powder coated	cold-rolled steel powder coated	cold-rolled steel powder coated
	Access Port		/	42mm diameter	35mm diameter
	Data Outputs		remote alarm contacts, USB	remote alarm contacts, USB	remote alarm contacts, USB
Dimensions	Net/Gross Weight (approx)	kg	75/90	95/125	110/150
		lbs	165/198	209.4/275	243/330
	Interior Dimensions (W*D*H)	mm	400*420*490	490*560*650	570*610*745
		in	15.7*16.5*19.3	19.3*22*25.6	22.4*24.0*29.3
	Exterior Dimensions (W*D*H)	mm	625*684*735	714*812*887	794*867*985
		in	24.6*26.9*28.5	28.1*32*34.9	31.3*34.1*38.8
	Packing Dimensions (W*D*H)	mm	700*770*910	800*890*1050	870*950*1145
		in	30*28*36.6	35*31.5*41.3	34.2*37.3*45.2
Shelves	Dimensions (W*D)	mm	380*300	473*434	550*484
	Number Standard/Maximum		3/8	3/11	3/13
	Max.Load Per Shelf/Total Load	kg	15/45	15/45	15/45
	Construction		perforated, adjustable	perforated, adjustable	perforated, adjustable
Electrical	Rated Voltage Power Supply (V/Hz)		220-240/50/60	220-240/50/60	220-240/50/60
	Nominal consumption (kw) (Steri-Run)		0.08 (1.0)	0.095 (1.5)	0.12 (1.8)
Control	Controller		Microprocessor	Microprocessor	Microprocessor
	Display		4 inch LED button screen	4 inch LED button screen	4 inch LED button screen
CO_2	Control Accuracy (%)		0.10	0.10	0.10%
	Range (%)		0-20	0-20	0-20%
	Alarm range (%)		±0.5	±0.5	±0.5%
	Inlet pressure		12-17PSI(0.8-1.2bar)	12-17PSI(0.8-1.2bar)	12-17PSI(0.8-1.2bar)
	Gas purity		min.99.5% or medical quaity	min.99.5% or medical quaity	min.99.5% or medical quaity
	CO_2 inlet		1/8" hose (barbed)	1/8" hose (barbed)	1/8" hose (barbed)
	Senser		IR	IR	IR
	Recovery Time ** (after 30s door opening, 98% from initial value) (min)		4	4	4
	CO_2 Inlet Filter (μm)		＜0.2	＜0.2	＜0.2
Alarms	High/Low Temperature		Y	Y	Y
	Remote Alarm		Y	Y	Y
	Sensor Error		Y	Y	Y
	Excessive CO_2 concentration		Y	Y	Y
	Water shortage reminder		N	N	N
	Door Ajar		Y	Y	Y
Temperature Parameter	Control Accuracy (°C)		0.1	0.1	0.1
	Range (°C)		Ambient Temperature +3-55	Ambient Temperature +3-55	Ambient Temperature +3-55
	uniformity (°C)		±0.3	±0.3	±0.3
	Ambient range (°C)		18-34	18-34	18-34
	Temperature fluctuations (°C)		±0.1	±0.1	±0.1
	senser		1*PT1000	1*PT1000	1*PT1000
	Recovery time *** (after 30s door opening, 98% from initial value) (min)		4	4	4
Sterilization Cycle	Cycle Temperature		90°C moist heat sterilization	90°C moist heat sterilization	90°C moist heat sterilization
	Cycle Duration		Under 14 hours	Under 14 hours	Under 14 hours
Humidity	RH (Relative Humidity) (°C)		High humidity ≥90% @37 low humidity ≥80% @37	High humidity ≥90% @37 low humidity ≥80% @37	High humidity ≥90% @37 low humidity ≥80% @37
	Humidity Reservoir (L)		max.1.75/min 0.5	max.3.5/min 0.5	max.5.5/min 0.5
Option	HEPA Filter		Y	Y	Y
	Pressure reducing valve		Y	Y	Y
	4-20mA		Y	Y	Y
	The cylinder switch		Y	Y	Y
	Shelf		Y	Y	Y
	Water Tray		Y	Y	Y
	3 Inner door		N	Y	N
	6 Inner door		N	Y	N
	8 Inner door		N	N	Y
	Roller base		Y	Y	Y
	Pure copper inner liner		Y	Y	Y
	Pure copper shelf		N	Y	N
	Humidity display		N	N	N
	Oxygen module		Y	Y	N
Others	Certification		CE	CE	CE

*Product appearance and specifications are subject to change without notice
** For CO_2 not exceeding 5.2%
*** For temperature not exceeding 37°C

Standard Incubator

Scope of Application

The solution is widely used in bacteria, fungi and other microorganism cultures; as well as enzyme digestion reaction, ligation reaction, embedded incubation and other related constant temperature experiments.



Embedded incubation



Bacteria



Fungus



HZP-168

HFP-80

Product Advantages

Personalized interface, easy to link

Equipped with USB and RS485 interfaces to meet the different needs of users to transfer data

Multiple protection benefits for increased security

Overheat protection (OPT), over current protection (FU), sensor error detection, independent temperature limit, compliance with DIN 12880 requirements and EU 3.1 safety level. Sound, light and remote alarms (optional) which guarantee experiment safety. Multiple alarms, such as over temperature alarm, high and low temperature alarm, door ajar, and sensor error alarm

Data traceability

Data traceable up to 15 years with base storage 8GB and data exportable through USB

High thermal insulation performance, energy saving and environmental protection

The unit is manufactured with aluminum foil insulation cotton, which improves the overall insulation performance and reduces energy consumption, lowering costs while also being environmentally friendly

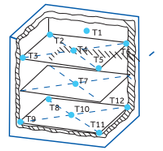
Fuzzy PID Control Technology



HZP-168
Natural Convection



HFP-80
Forced Convection



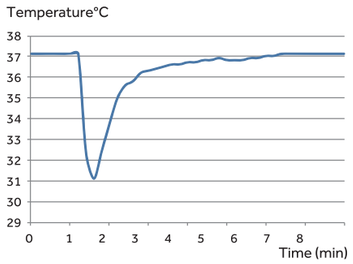
ASTM standard,
12 points testing

Based on PID control principle, manufactured with U-shaped 3-sided heating to achieve superior temperature control and uniformity control.

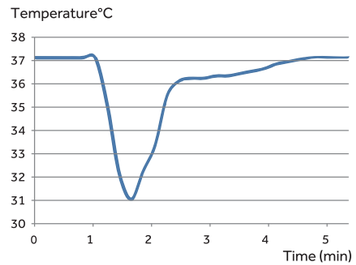
Rapid Recovery After Door Open

Rapid warming: the temperature inside the unit quickly recovers after opening the door to reduce the influence of temperature fluctuation on the sample.

The temperature rise curve to 37°C after opening the door for 30 sec at 22°C ambient temperature



HZP-168



HFP-80

Convenient and Intelligent Management at a Glance



7-inch touchscreen, easy to operate and sensitive, it can respond quickly even when wearing rubber gloves.



Real-time display of temperature data, one-touch to review previous data.



Records abnormal information in real time, eliminating any hidden abnormalities which ensures the culturing is more secure.



Multiple operating modes.

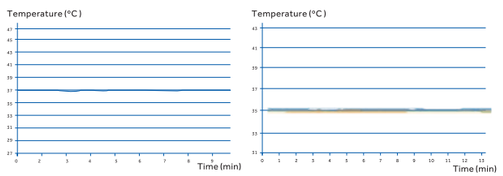


The program can be edited and set at any number of segments to meet the needs of various detection tests.

Standard Incubator

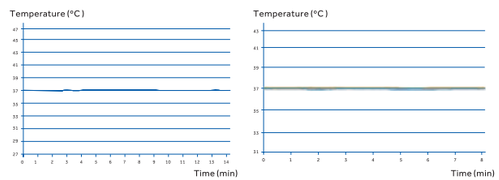
Precise Temperature Control, Energy-efficient and Environment-friendly

An energy-efficient model with superior control and heating mechanisms, high-quality insulation material and cabinet structure to ensure heating requirements are met while keeping power consumption to a minimum.



Temperature fluctuation ±0.1°C (37°C)　Temperature uniformity ±0.5°C (37°C)

HZP-168



Temperature fluctuation ±0.1°C (37°C)　Temperature uniformity ±0.3°C (37°C)

HFP-80

Optional IoT Technology for Real-time Remote Monitoring



Through the mobile app, the status of the incubator can be checked in real time, and information such as temperature alarm, sensor error alarm and door ajar can be controlled with one button, which provides more security for the experiment process.

Pictures in Details



Seamless, curved internal chamber for easy cleaning and decontamination.



Standard independent intelligent temperature safety controller to ensure experimental safety; RS485 achieves seamless IoT data connection.

Product Parameters

Model	Product Series	Capacity (L)	Power (W)	Exterior Dimensions (W*D*H)(mm)	Interior Dimensions (W*D*H)(mm)	Packing Dimensions (W*D*H)(mm)
HZP-168	Natural convection	168	640	650*782*1028	490*550*626	795*835*1220
HFP-80	Forced convection	80	510	560*662*870	400*400*480	710*760*1070

Shelves (Standard)	Temperature Control Range	Temperature Uniformity	Temperature Fluctuation (°C)	Temperature Control Precision (°C)	Recovery Time after 30 sec Door Opening (min)
2/17	RT+5~105°C	±0.5°C at 37°C	±0.1	±0.1	5
2/12	RT+5~105°C	±0.3°C at 37°C	±0.1	±0.1	2.5

Product appearance and specifications are subject to change without notice

Scope of Application

Widely used in medical and health, pharmaceutical, biochemistry, and agricultural science sectors for bacterial culture, fermentation, and constant temperature tests. It can be used for the culture and determination of microorganisms like bacteria, molds, fungi (e.g. Staphylococcus aureus, Streptococcus, Escherichia coli), food and beverage testing, and preheating of cell culture equipment.



HZP-168E



HFP-80E

Product Advantages

Multiple Security Protection
Multiple protection systems such as overheating, overcurrent, and independent temperature limiting; overtemperature, high and low temperature and other smart alarms for safety

High Thermal Insulation Performance
Superior insulation that improves chamber stability and reduces heat load output to the laboratory and operating power consumption, that lowers operating costs

4-inch Display Screen
The real-time display of the set temperature and running temperature makes the operation more convenient

Smart IoT Module (optional)
The status of the incubator can be checked in real-time

Broad Temperature Range
Temperatures from 5°C above ambient up to 105°C

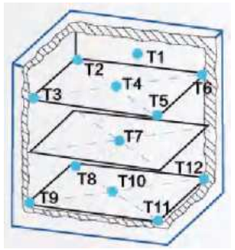
Ergonomic Design
Efficient utilization of interior with flexible shelf system

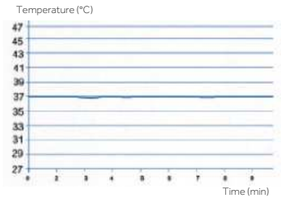
100°C Decontamination
The disinfection routine at 100 °C minimizes the risk of contamination

Standard Incubator

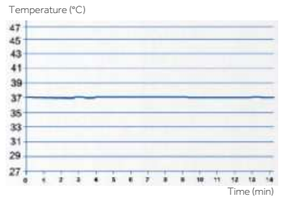
Precise Temperature Control

Vaildated through ASTM standard 12 points temperature detection method, the incubator can achieve high-precision temperature control with a temperature fluctuation of only ± 0.1℃





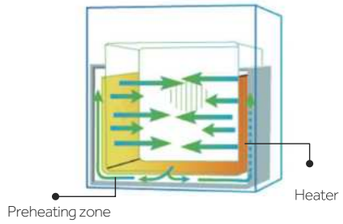
Temperature fluctuations±0.1℃
(HZP-80E)



Temperature fluctuations ±0.1℃
(HFP-168E)

Rapid Temperature Recovery After Door Open

The U-shaped 3- sided heating design enables the incubator to heat up quickly. After opening the door for 30 seconds, the temperature inside the chamber recovers to the set value within 3 minutes, significantly reducing the impact of temperature fluctuations on the experiments





4-inch LED screen with simple operation and clear display





Standard independent intelligent temperature safety controller to ensure experimental safety



Smooth inner chamber with easy to clean rounded corners



Adjustable feet for easy positioning and levelling

Product Parameters

Model	Capacity (L)	Temperature Setting Range (℃)	Temperature Control Precision (℃)	Temperature Uniformity	Temperature Fluctuation (℃)	Recovery Time after 30 sec Door Opening (min)
HFP-168E	168	RT+5-105	±0.1	±0.3 (℃) at 37 (℃)	±0.1	2.5
HZP-80E	80	RT+5-105	±0.1	±0.5 (℃) at 37 (℃)	±0.1	5

Climate Chamber

Drug stability tests, cosmetic stability tests, food shelf life tests, electronic components aging tests, packaging material stability tests.



HHS-256/756/506

Product Advantages

Silent

Semiconductor technology ensures low vibration and noise output with no pollution into the environment

Water-saving

Intelligent control of PTC humidification, daily water consumption of 120-320ml, no need to recycle waste water, saving space

Precise control

Accurate temperature and humidity control, long-term stability, 40 ℃ temperature uniformity ±0.5℃ and central temperature fluctuation ±0.2℃, 75% humidity fluctuation ±1%

Power saving

Semiconductor technology means the daily power consumption is as low as 5kWh; 90% more energy efficient than compressor technologies

Climate Chamber

Product Features

Multiple protection protocols - equipped with delay start, high/low temperature and light intensity protection in line with DIN12880 requirement for over/under temperature protection

Expandable large capacity data storage, the touchscreen memory can be expanded to 64GB, storing up to 15 years data which can be exported via a USB

High precision temperature sensor, dual PT1000 sensors for more accurate temperature control

An access port with a diameter of 35mm on the left side of the cabinet to facilitate independent testing of temperature and humidity

Optional electromagnetic lock, suitable for multiple users with independent management for safety

High insulating performance polythene foam provides excellent insulation and stable cabinet temperatures reducing energy consumption

Polyurethane foam insulation provides excellent thermal insulation, reducing energy consumption

High precision capacitive humidity sensor

Microprocessor control system

- PID control principle, 10-inch touch screen, temperature control precision 0.1°C, humidity control precision 0.1%, temperature range 5-70°C, humidity range 10%-90%
- USB, RS485 interface as standard
- Temperature alarm, humidity alarm, door alarm, sensor alarm and water shortage warning
- Display temperature, humidity and ambient temperature; users can query the historical curve

Product Parts



HHS-756

With ICH-compliant Light Source and Light-dose Control (optional)

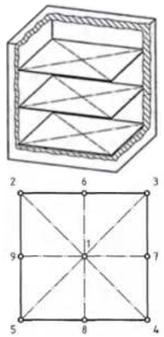


ICH compliant illumination for photo-stability testing [0~10000LUX，UV-A 320~400nm, 0~1.1W/m²]

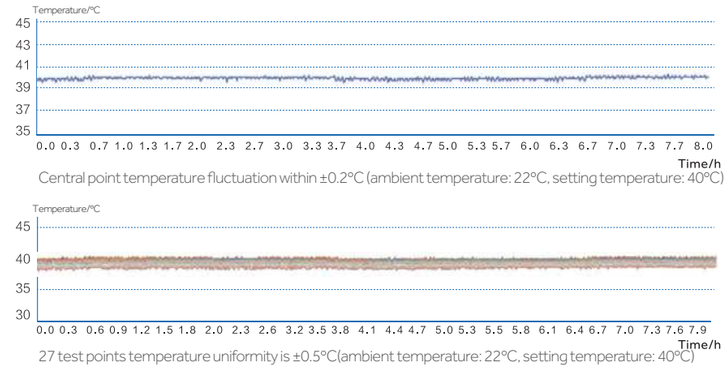
Positionable illumination cassetes with ICH-compliant UV/Vis-light source Independent light-dose control of UV-A and visible light with sensors

International Quality Assurance

Accurate Temperature Control



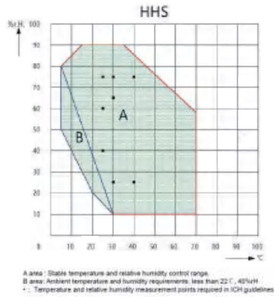
DIN12880 standard 27 test points

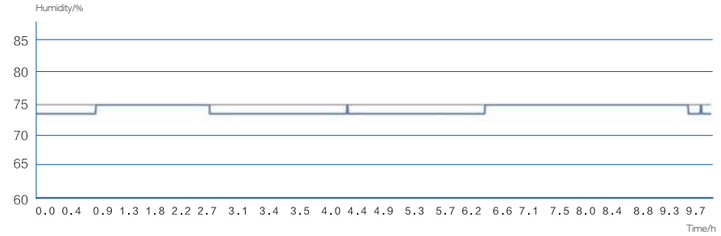


Central point temperature fluctuation within ±0.2°C (ambient temperature: 22°C, setting temperature: 40°C)

27 test points temperature uniformity is ±0.5°C(ambient temperature: 22°C, setting temperature: 40°C)

Accurate Humidity Control



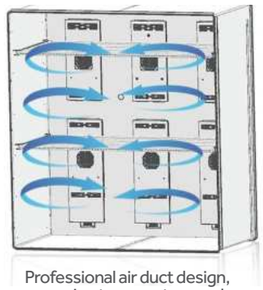


Humidity fluctuation ±1%rh: Accurate temperature control (ambient temperature: 22°C, ambient humidity: 40%rh, setting temperature: 40°C, setting humidity: 75%rh)

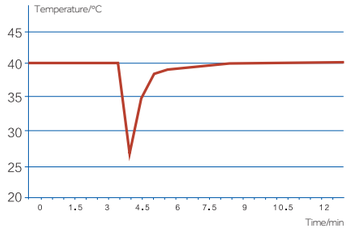
- There shall be some gap around the product, and there must be no less than 150cm gap on the back side, so as to facilitate heat dissipation of semiconductor and cut off the power supply in case of emergency;
- Sample dehumidification is not applicable, which may cause humidity deviation from the initial setup;
- The ambient temperature changes may cause the temperature and humidity to fluctuate beyond the limit;
- In area B, ensure that the ambient temperature is less than 22 °C and the ambient humidity is less than 40%Rh. If the ambient temperature exceeds the range, the humidity may deviate from the setup.

Climate Chamber

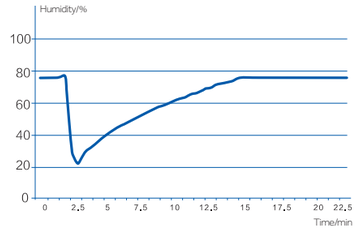
Internal Cabinet Environment Quick Recovery System



Professional air duct design, ensuring temperature and humidity uniformity



The time required for temperature to return to to 40ºC after 30s door opening is <4 minutes



The time required for humidity recovery to 75% after opening door for 30s is <14 minutes

Intelligent Management

Convenient and intelligent management to improve working efficiency



- The intelligent 10-inch touchscreen controller is easy to operate and sensitive to touch, even in rubber gloves. The PID control algorithm ensures the accuracy of temperature control



- Data and multi-user authority management and permissions conforms to FDA 21 CFR Part 11



- Unlimited programs with infinite humidity and temperature settings to allow users to customise to their needs

High quality manufacture and reliable operation

Capacitive humidity sensor, long-term operating reliability

- Interference-free humidity data collection.
- Long-term reliability without the need for calibration.
- High precision ±0.1%.
- Anti-condensation design for more accurate humidity monitoring

High precision temperature sensor, accurate and reliable

- Adopts PT1000 temperature sensors for accurate, stable and repeatable measurement without deviation.
- Dual sensors further improve accuracy.

Semi-conductor cooling, superior energy-saving and mute effect

- Semiconductor thermocouple consists of N-shape semiconductor and P-shape semiconductor.

Intelligent control, ensures temperature and humidity accuracy

Intelligent control PTC humidification, energy-saving and water-saving

The temperature and purity of vapour is accurately controlled by the intelligent water supply system and ceramic high-temperature heating apparatus.

Intelligent dehumidification, accurate humidity control

Semi-conductor intelligent dehumidification system accurately controls heating and cooling, matching with humidity control.

Specifications

	Model		HHS-256	HHS-506	HHS-756
Construction	Chamber Volume (L)		256L	506L	756L
	Interior Chamber		stainless steel	stainless steel	stainless steel
	Exterior Chamber		Galvanized Sheet Powder Coating	Galvanized sheet powder coating	Galvanized sheet powder coating
	Access Port		35mm Diameter	35mm Diameter	35mm Diameter
Dimensions	Net/Gross Weight	kg	175/188	225/260	280/328
	Interior Dimensions (W*D*H)	mm	650*570*700	740*570*1200	1100*570*1200
	Exterior Dimensions (W*D*H)	mm	835*905*1190	930*905*1690	1290*905*1690
	Packing Dimensions (W*D*H)	mm	1030*955*1280	1110*955*1780	1380*955*1780
Shelves	Dimension / mm (W*D)		597*531	687*531	1048*531
	Standard Qty / Max Qty		2/16	2/31	2/31
	Max Weight Per Shelf	kg	20	20	20
	Structure		Slide rail, adjustable	Slide rail, adjustable	Slide rail, adjustable
Electrical	Voltage / Frequency (V/Hz)		220-240~50/60	220-240~50/60	220-240~50/60
	Power (W)		750	1100	1760
	Day Consumption at 25˚C & 40% RH (kw·h)		4.6	5.4	5.6
Control	Controller		The microprocessor	The microprocessor	The microprocessor
	Display		10" smart LCD screen	10" smart LCD screen	10" smart LCD screen
The Temperature Parameter	The Set Range (˚C)		5~70	5~70	5~70
	Control Precision (˚C)		±0.1	±0.1	±0.1
	Temperature Uniformity at 25˚C		±0.5	±0.5	±0.5
	Temperature Fluctuation at 25˚C		±0.2	±0.2	±0.2
	The Sensor		PT1000	PT1000	PT1000
	Rate of Temperature Rise (˚C / min)		1	0.8	0.6
	30 Seconds Recovery Time After Door Opening at 40˚C (min)		3	3.8	5
Humidity Parameter	Humidity Setting Range (% RH)		10~90	10~90	10~90
	Humidity Setting Accuracy (% RH)		0.1	0.1	0.1
	Humidity Fluctuation at 25 ˚C & 60% RH (% RH)		±1	±1	±1
	Daily Water Consumption (ml)		120	240	320
Optional	Electromagnetic lock (password)		Y	Y	Y
	Printer		Y	Y	Y
	ICH compliant illumination for photo-stability testing [lx]		0~10000	0~10000	0~10000
	ICH compliant illumination for photo-stability testing [W/m2]		0~1.1	0~1.1	0~1.1
Standard	Remote Alarm Interface		Y	Y	Y
	RS485		Y	Y	Y
	Water Level Alarm		Y	Y	Y

Product appearance and specifications are subject to change without notice

Cooled Incubator

Scope of Application

The equipment finds extensive use across variety of settings, including the scientific research institutions, university laboratories and production departments, in the realms of environmental conservation, public health and epidemic prevention, agriculture and animal husbandry, drug testing, and aquatic industries. Its high specialization in cultivation allows it to cater to purposes such as water analysis and BOD determination, as well as the cultivation and preservation of bacteria, molds, and microorganisms and conducting plant cultivation and breeding experiments.



HSP-160



HSP-260

Product Advantages

High Thermal Insulation Performance, Energy Saving and Environmental Protection
Enhanced, environmentally-friendly, thermal insulation reduces energy consumption

Wide Temperature Range
The temperature control ranges from 0˚C to +70˚C regardless of ambient conditions

Multiple Operating Modes
Four operation modes for multiple temperature requirements

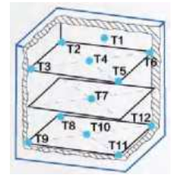
Safe and Stable
Multiple protection systems such as overheating, overcurrent, and independent temperature limiting;overtemperature, high and low temperature and other smart alarms for safety

Smart IoT (Optional)
7-inch intelligent touchscreen with optional IoT technology for real-time checking the operating status via mobile phones or PC, simple and reliable

Data Traceability
Data traceable up to 15 years with base storage 8GB (64GB optional) and data exportable through USB

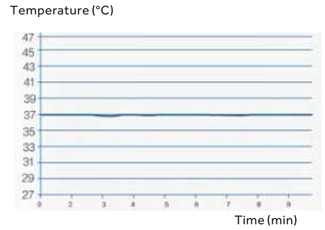
Fuzzy PID Control Technology

Based on the principle of fuzzy PID control, the product achieves high-precision temperature control. The temperature fluctuation measured using the ASTM standard 12 points temperature detection method is less than 0.3° C. (Test environment temperature 22° C, set temperature 100°C)

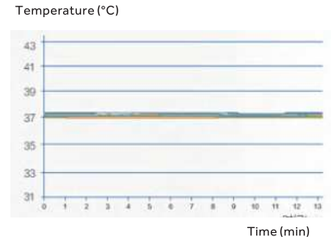


Precise Temperature Control, Energy Efficiency, and Eco-friendly

High-quality insulation materials, and professional air duct design to ensure precise temperature control while keeping power consumption to a minimum



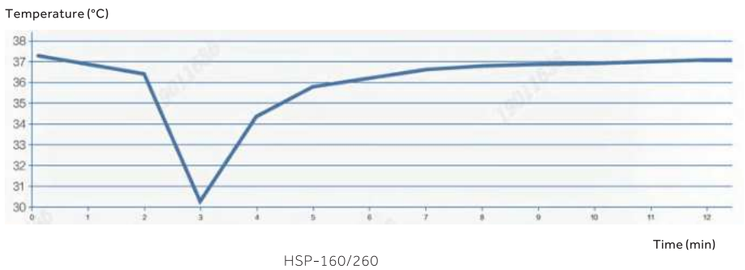
HSP-160 Temperature fluctuation±0.2°C (37°C)
HSP-260 Temperature fluctuation±0.3°C (37°C)



HSP-160/260 Temperature uniformity±0.5°C (37°C)

Rapid Temperature Recovery After Door Opening

Fast recovery: the temperature inside the unit quickly recovers after opening the door to reduce the influence of temperature fluctuation on the sample



HSP-160/260

Cooled Incubator



Standard independent intelligent temperature safety controller to ensure experimental safety; RS485 achieves seamless IoT data connection



Ideal for experimentation during poor lighting conditions





Access port as standard, convenient for users to conduct independent testing



The inner chamber features arc-shaped corners, rendering it easily maintainable and conducive to cleanliness

Product Parameters

Model	Capacity (L/Cu.Ft)	Power (W)	Exterior Dimensions (W*D*H)(mm)	Interior Dimensions (W*D*H)(mm)	Packing Dimensions (W*D*H)(mm)	Shelves Dimensions (W*D)
HSP-160	160/5.7	740	760*855*1375	520*520*610	850*930*1500	2/7
HSP-260	260/9.2	870	760*855*1765	520*520*1000	850*930*1890	2/11

Temperature Range (°C)	Control Accuracy (°C)	Temperature Uniformity (°C)	Temperature Fluctuation (°C)	Recovery Time after 30 sec Door Opening (min)
0-70	±0.1	±0.5°C at 37°C	±0.1	5
0-70	±0.1	±0.5°C at 37°C	±0.1	5

Cell Culture Scene Consumables Management

Scope of Application

The quality and correct selection of cell culture consumables is important for contamination-free growth, survival and reproduction of cells in vitro. Haier Biomedical high-quality consumables are the ideal choice for cell culture . The raw materials meet USP standards and are used to manufacture the consumables in an unmanned production process. The whole process operates within a 100,000 GMP clean environment with irradiation sterilization to ensure the uniformity and sterility of these products to guarantee safe and clean cell growth.

Square Media Bottles



Product Features

- Raw materials meet the USP standard requirements, no discoloration by irradiation, no precipitate endotoxin, and reduce the pollution of liquid
- High transparency, the bottle body has a molding scale, easy to visualize the solution capacity
- Materials:Cap:PP & HDPE, Bottle:PET
- One molding process production, gas barrier ability is stronger, the bottle body gloss is high, the inner and outer walls are smooth, the solution is not hanging on the wall
- Square ergonomic design, easy to grip while also saving space
- Light weight, impact resistance, material can withstand -80°C low temperature, chemical resistance, good stability
- Anti-leakage, the lid and the bottle mouth are more closely matched, multiple controls to ensure no leakage
- DNase / RNase free, non-pyrogenic, non-endotoxin

CAT.NO.	Product Description	Unit Qty	Package Spec
751001	30ml，PET，natural color cap，sterile	280	40 pcs/ bag,7 bags/ case
751002	60ml，PET，natural color cap，sterile	200	40 pcs/ bag,5 bags/ case
751003	125ml，PET，natural color cap，sterile	96	24 pcs/ bag,4 bags/ case
751004	250ml，PET，natural color cap，sterile	60	30 pcs/ bag,2 bags/ case
751005	500ml，PET，natural color cap，sterile	40	20 pcs/ bag,2 bags/ case
751006	1000ml，PET，natural color cap，sterile	24	12 pcs/ bag,2 bags/ case

Erlenmeyer Flasks



Product Features

- Raw material meets USP standard requirements, cap is PE and bottle is PC
- Imported mold equipment, one step molding, fast cycle, unmanned production process
- Two closure type to choose: One type is vented cap, which has a 0.22μm membrane that allows sterile air exchange or leak resistant seal, the other is sealed cap
- PC bottle have high strength, which can be pressurized at 121°C for 20 minutes without deformation (except for the vent cap)
- Bottle wall thickness is uniform, with clear and accurate scale, easy to observe the capacity
- Individual package, easy and convenient to use, and each product is easily traceable quality
- DNase / RNase free, non-pyrogenic, non-endotoxin

CAT.NO.	Product Description	Unit Qty	Package Spec
643057	125ml,PC, sealed cap，plain, sterile	24	1pcs/bag,24bags/case
643058	250ml,PC, sealed cap，plain, sterile	12	1pcs/bag,12bags/case
643059	500ml,PC, sealed cap，plain, sterile	12	1pcs/bag,12bags/case
643060	1000ml,PC, sealed cap，plain, sterile	6	1pcs/bag,6bags/case
644061	125ml,PC, Vented Cap，plain, sterile	24	1pcs/bag,24bags/case
644062	250ml,PC, Vented Cap，plain, sterile	12	1pcs/bag,12bags/case
644063	500ml,PC, Vented cap，plain, sterile	12	1pcs/bag,12bags/case
644064	1000ml,PC, Vented Cap，plain, sterile	6	1pcs/bag,6bags/case
645065	125ml,PC, sealed cap，baffled, sterile	24	1pcs/bag,24bags/case
645066	250ml,PC, sealed cap，baffled, sterile	12	1pcs/bag,12bags/case
645067	500ml,PC, sealed cap, baffled, sterile	12	1pcs/bag,12bags/case
645068	1000ml,PC, sealed cap, baffled, sterile	6	1pcs/bag,6bags/case
646069	125ml,PC, Vented Cap, baffled, sterile	24	1pcs/bag,24bags/case
646070	250ml,PC, Vented Cap, baffled, sterile	12	1pcs/bag,12bags/case
646071	500ml,PC, Vented cap, baffled, sterile	12	1pcs/bag,12bags/case
646072	1000ml,PC, Vented cap, baffled, sterile	6	1pcs/bag,6bags/case

Cell Culture Plate



Product Features

- A wide range of sizes, materials and shapes to suit different experimental needs of the laboratory
- There are TC treated and non-TC treated options which is suitable for cell suspension culture and cell adhesion culture
- Sterile, no enzyme, no heat source and endotoxin, individually packed to ensure the stability of the experimental results
- High transparency polystyrene material can be used for microscope observation
- Raised edge on wells to prevent cross contamination
- The left side and the upper side have alphanumeric labels, easy to distinguish and identify, easy to record
- Suitable for most plate readers and automated equipment

CAT.NO.	Description	Unit Quantity	Packing Specification
612001	96-well, blister box/F-bottom (flat bottom), TC treatment, wall culture	100	1pcs/bag, 100bags/case
612002	48-well, blister box/F-bottom (flat bottom), TC treatment, wall culture	100	1pcs/bag, 100bags/case
612003	24-well, blister box/F-bottom (flat bottom), TC treatment, wall culture	100	1pcs/bag, 100bags/case
612004	12-well, blister box/F-bottom (flat bottom), TC treatment, wall culture	100	1pcs/bag, 100bags/case
612005	6-well, blister box/F-bottom (flat bottom), TC treatment, wall culture	100	1pcs/bag, 100bags/case
611006	96-well, blister box/F-bottom (flat bottom), untreated, suspension culture	100	1pcs/bag, 100bags/case
611007	48-well, blister box/F-bottom (flat bottom), untreated, suspension culture	100	1pcs/bag, 100bags/case
611008	24-well, blister box/F-bottom (flat bottom), untreated, suspension culture	100	1pcs/bag, 100bags/case
611009	12-well, blister box/F-bottom (flat bottom), untreated, suspension culture	100	1pcs/bag, 100bags/case
611010	6-well, blister box/F-bottom (flat bottom), untreated, suspension culture	100	1pcs/bag, 100bags/case

Cell Culture Scene Consumables Management

Cell Culture Dish



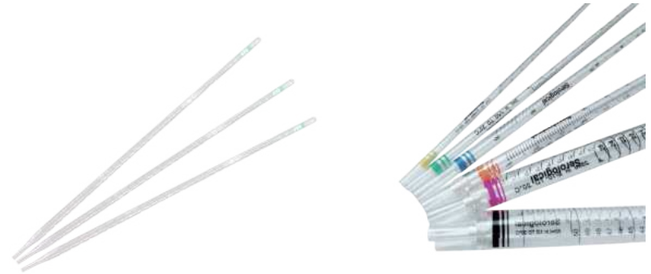
Product Features

- Assorted sizes, styles and surface finishes for different culture requirements
- Designed with raised edges, easy to stack and transport
- Polystyrene material, surface treatment, suitable for cell adhesion growth
- Vents designed to maintain gas exchange under sterile conditions
- Sterile, Enzyme, Pyrogen and Endotoxin Free, individual packaging, to ensure the stability of the experimental results

CAT.NO.	Description	Unit Quantity	Packing Specification
622011	6cm, plastic sealed bag/easy grip, TC treated, wall culture	500	10pcs/bag, 50bags/case
622012	10cm, plastic sealed bag/easy grip, TC treated, wall culture	300	10pcs/bag, 30bags/case
622013	15cm, plastic sealed bag/easy grip, TC treatment, wall culture	100	5pcs/bag, 20bags/case
621014	6cm, plastic sealed bag/easy grip, untreated, suspension culture	500	10pcs/bag, 50bags/case
621015	10cm, plastic sealed bag/easy grip, untreated, suspension culture	300	10pcs/bag, 30bags/case
621016	15cm, plastic sealed bag/easy grip, untreated, suspension culture	100	5pcs/bag, 20bags/case

Pipette Series

Serological Pipette



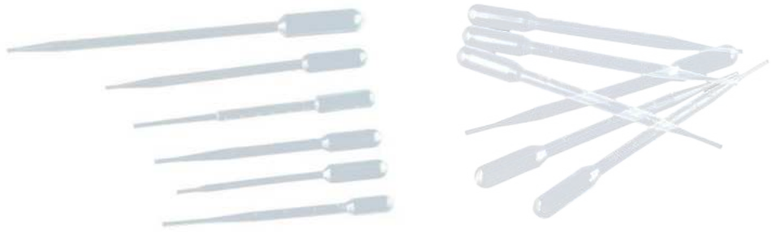
Product Features

- Multiple volume sizes available, different color rings on the tube head for easy identification of different models
- Bi-directional scale design for easy reading of pipette volume, negative scale increases pipette capacity for larger volumes
- Clear and accurate scale with a precision of ±2% of total volume
- Filter cartridge prevents samples, aerosols and water vapor from entering the pipette to avoid cross-contamination
- Adaptable to a wide range of pipettes on the market with rubber adapters
- Multiple packaging options, easy-tear paper-plastic single packs as well as large packs for easy batch use and reduced packaging waste
- Irradiated, meet SAL 10^{-6}, DNase/RNase free, no pyrogenic endotoxin

CAT.NO.	Description	Unit Quantity	Packing Specification
692109	1ml (yellow) disposable serum pipette, sterile	1000	50pcs/bag, 20bags/box
692110	2ml (green) disposable serum pipettes, sterile	1000	50pcs/bag, 20bags/box
692111	5ml (blue) disposable serum pipettes, sterile	500	50pcs/bag, 10bags/case
692112	10ml (orange) disposable serum pipettes, sterile	500	50pcs/bag, 10bags/case
692113	25ml (red) disposable serum pipettes, sterile	250	25pcs/bag, 10bags/case
692114	50ml (violet) disposable serum pipettes, sterile	200	25pcs/bag, 8bags/case
692115	100ml (black) disposable serum pipettes, sterile	120	20pcs/bag, 6bags/case

Pipette Series

Pasteur Pipette



Product Features

- Good fluidity of the tube wall, easy to control the pipetting volume during operation
- High transparency, clear scale, easy to observe the pipetting process in real time
- Made of high quality material, it can be used for pipetting liquids in all kinds of containers
- Individual packages, easy to use, well sealed, reproducible pipetting
- Each package is individually labeled with a lot number for quality tracking and traceability
- Enzymatic, Pyrogenic, Endotoxic, Cytotoxic and Hemolytic Free
- EO sterilized to ensure contamination-free experiments

CAT.NO.	Description	Unit Quantity	Packing Specification
603001	Total volume 1.5m. Each 0.1ml scale to 0.3ml, length 116mm, about 23 drops/ml, E.O. sterile, LDPE material	1000	Plastic pack, 100pcs/ box, 1,000pcs/case
603002	Total volume 3ml. Every 1/4ml scale to 1ml, length 140mm, E.O. sterile, LDPE material	1000	Plastic pack, 100pcs/ box, 1,000pcs/case
603003	Total volume 5ml. Every 1/4 ml scale to 1 ml, length 145 mm, E.O. sterile, LDPE material	1000	Plastic pack, 100pcs/ box, 1,000pcs/case
603004	Total volume 5ml. Every 1/4ml scale to 1ml, length 150mm, E.O. sterile, LDPE material	1000	Plastic pack, 100pcs/ box, 1,000pcs/case
603005	Total volume 5ml. Every 1/2ml scale to 2ml, length 155mm, E.O. sterile, LDPE material	1000	Plastic pack, 100pcs/ box, 1,000pcs/case
603006	Total volume 7ml. Every 1/2ml scale to 3ml, length 155mm, E.O. sterile, LDPE material	1000	Plastic pack, 100pcs/ box, 1,000pcs/case
603007	Total volume 7.5ml. Every 1/2ml scale to 3ml, length 148mm, approx. 23 drops/ml, E.O. sterile, LDPE	1000	Plastic pack, 100pcs/ box, 1,000pcs/case

Centrifuge Tube Series

Microcentrifuge Tubes



Product Features

- Made of USP Class VI, medical-grade polypropylene (PP), free from release agent, plasticizer, bacteriostatic agent, and heavy metals
- High-clarity tube for convenient sample observation
- The unique cap design with flat surface for writing, delivers enhanced sealing and enables single-handed operation
- Temperature range: -80°C~120°C



Ultra-high clarity makes samples clearly visible

Universal design suitable for all major brands



Frosted writing area



Snap-on safety cap to ensure safe centrifugation to maximize operational safety during centrifugation

CAT.NO.	Description	Unit Quantity	Packing Specification
311001	0.6ml microcentrifuge tube, non-sterile	10000	1000pcs/box, 10box/ctn
311002	1.5ml microcentrifuge tube, non-sterile	5000	500/box, 10boxes/case
311004	2.0ml microcentrifuge tube, non-sterile	5000	500/box, 10boxes/case

Haier Biomedical
Intelligent Protection of Life Science



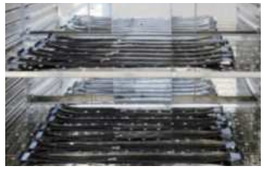
Drying Oven

Scope of Application

Typically used for drying and sterilization of laboratory consumables, instruments and samples; as well as heating and curing, drying and dehydration, heat removal, moisture content determination of materials and samples in the fields of medicine, chemical industry, agricultural products. Other uses include, high temperature heat resistance tests and thermal aging tests of rubber, plastic products and electrical insulation materials. The solution is widely used in medical, enterprise, universities, scientific research institutions, environmental monitoring centers, pharmaceutical, food and drug quality monitoring centers and other related industries.


Laboratory consumables


Instruments


Thermal aging test



HFS-160 HZS-60

Product Advantages

High thermal insulation performance, energy saving and environmental protection
Environmentally-friendly aluminium foil cotton insulation provides excellent insulation performance to reduce energy consumption and lower running costs.

Personalized interface, easy to transfer data
Equipped with USB and RS485 interfaces to better meet the different needs of users for transfer data.

Precise high temperature control
Superior preheating technology with an innovative air duct structure.

Safe and stable
Multiple safety protection features.

Multiple safety protections
Overheat protection (OPT), over current protection (FU), sensor error detection, independent temperature limit, compliance with DIN 12880 requirements and EU 3.1 safety level. Sound,light and remote alarms guarantee experiment safety.

Scalable bulk data storage
The touch-screen can be increased to 64GB with capacity to store 15 years' data. The data can be exported using a USB flash drive.

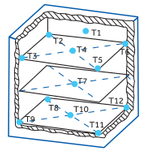
Smart interface
7-inch intelligent touchscreen with optional IoT technology for real-time remote monitoring via an app.

Operation mode
Four operation modes for multiple temperature requirements.

PID Control Technology


HFS-160
Forced convection


HZS-60
Natural convection

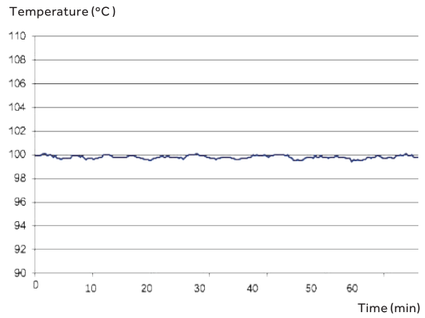


ASTM standard,
12 points testing

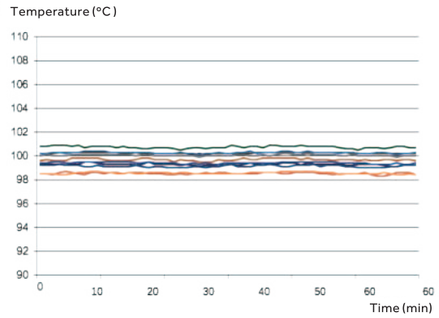
Based on PID control principle, manufactured with U-shaped 3-sided heating to achieve superior temperature control and uniformity control.

Precise Temperature Control, Energy-efficient and Quiet

High performance 3-sided heating and professional air duct design, high-quality fan components and insulation materials ensures precise temperature control while keeping power consumption to minimum.

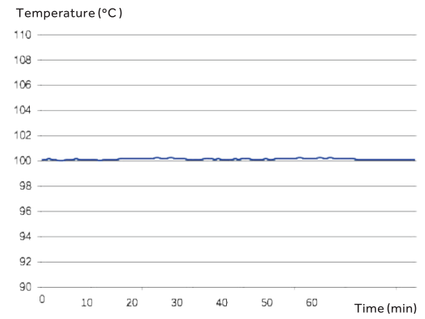


Temperature fluctuation ±0.3°C (100°C)

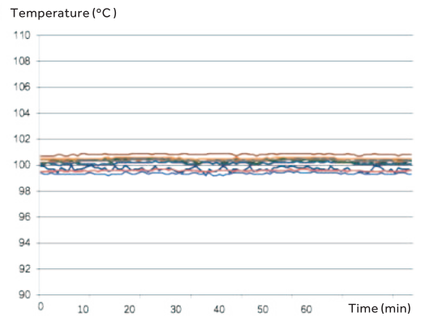


Temperature uniformity ±2°C (100°C)

HFS-160



Temperature fluctuation ±0.2°C (100°C)

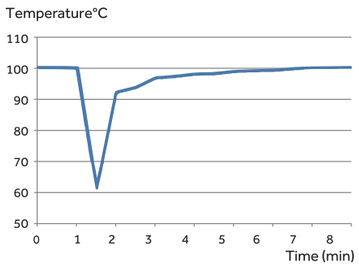


Temperature uniformity ±1.5°C (100°C)

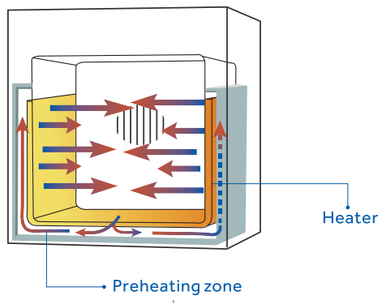
HZS-60

Rapid Recovery After Door Open

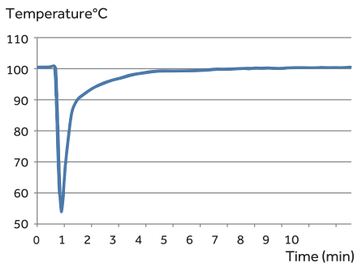
The temperature inside the unit quickly recovers after opening the door without overshoot.



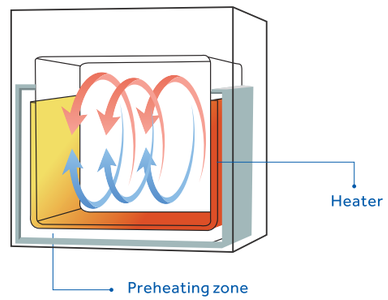
Temperature recovery curve to 100°C after opening the door for 30s



HFS-160



Temperature recovery curve to 100°C after opening the door for 30s



HZS-60

Convenient and Intelligent Management at a Glance



7-inch touchscreen, easy to operate and sensitive, it can respond quickly even when wearing rubber gloves.



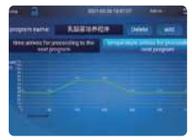
Real-time display of temperature data, one-touch to review previous data.



Records abnormal information in real time, to eliminate hidden errors.



Multiple operating modes.



The program can be edited and set at any number of segments to meet the needs of various detection tests.

Optional IoT Technology for Real-time Remote Monitoring



Through the mobile app, the status of the dry chamber can be checked in real time, and information such as temperature abnormal alarm, sensor error alarm and door ajar can be controlled with one button, which provides more security for the experiment process.

Pictures in Details



Ergonomic self-locking handle, firm and durable, easy to use.



Large arc angle 304 mirror stainless steel inner liner, easy to clean.



Standard independent intelligent temperature safety controller to ensure experimental safety.



It is equipped with portholes to facilitate external equipment monitoring to record the experimental process.

Product Parameters

Model	Product Series	Capacity (L/Cu.Ft)	Power (W)	Exterior Dimensions (W*D*H)(mm)	Interior Dimensions (W*D*H)(mm)	Packing Dimensions (W*D*H)(mm)	Shelf Dimensions (mm)	Shelves (standard/maximum)	Shelves Dimensions (W*D)
HZS-60	Natural convection	60/2.1	900	572*719*792	370*385*420	730*830*970	340*345	2/9	340*345
HFS-160	Forced convection	160/5.7	2500	752*809*973	550*492*600	28.6*32.6*38.1	520*445	2/15	520*445

Temperature Setting Range (°C)	Temperature Uniformity	Temperature Fluctuation	Temperature Control Precision (°C)	Heating Rate (ambient temperature 22°C)	Recovery Time after Opening the Door for 30s
RT+10~200	±1.5°C at 100°C ±2.5°C at 150°C	±0.2°C at 100°C ±0.3°C at 150°C	±0.1	40min to 100°C 50min to 150°C	9min to 100°C 20min to 150°C
RT+10~200	±2°C at 100°C ±3°C at 150°C	±0.3°C at 100°C ±0.4°C at 150°C	±0.1	20min to 100°C 30min to 150°C	4min to 100°C 5min to 150°C

Product appearance and specifications are subject to change without notice

Drying Oven

Scope of Application

Typically used for drying and sterilization of laboratory consumables, instruments and samples as well as heating and curing, drying and dehydration, heat removal, moisture content determination of materials and samples. The solution is widely used in medical, enterprise, universities, scientific research institutions, environmental monitoring centers, pharmaceutical, food and drug quality monitoring centers and other related industries.



HZS-160E HFS-60E

Product Advantages

Wide Temperature Range
Operating from 10°C above ambient temperature up to 250°C

PID Control Technology
Ensures superior temperature and uniformity control

Smart IoT Module (optional)
Through the mobile app, the status of the drying oven can be checked in real time

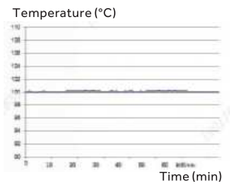
4-inch Display Screen
Intuitive user interface and easy-to-read display

Multiple Safety Protections
Multiple protection systems such as overheating, overcurrent, and independent temperature limiting; overtemperature, high and low temperature and other alarms for safety

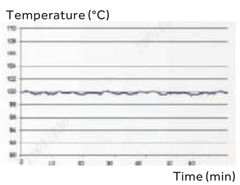
Innovative Air Duct Structure
Improved level of temperature uniformity inside the chamber as good as ±2°C at 100°C (HFS-60E)

Precise Temperature Control

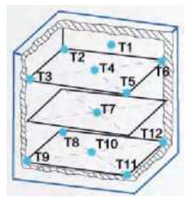
Based on the principle of fuzzy PID control, the product achieves high-precision temperature control. The temperature fluctuation measured using the ASTM standard 12 points temperature detection method is less than 0.3° C. (Test environment temperature 22° C, set temperature 100°C)



Temperature fluctuations±0.2°C (HFS-60E)

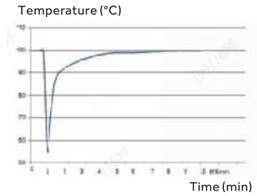


Temperature fluctuations±0.1°C (HZS-160E)

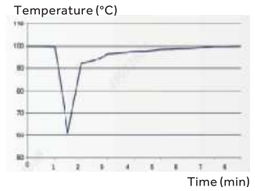


Rapid Temperature Recovery After Door Opening

The U-shaped 3- sided heating system provides a continuous source of power for quick temperature recovery when opening the door, and high-performance insulation materials reduces heat loss



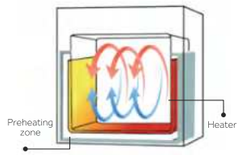
Temperature recovery curve to 100°C after opening the door for 30s (HFS-60E)



Temperature recovery curve to 100°C after opening the door for 30s (HZS-168E)

Air Jacket Heating Without Overshoot of Temperature

By adopting pre-heated air jacket heating (HFS-60E), the temperature remains stable and recovers quickly without any overshoot, enabling precise temperature control across the entire range of temperature segments, and enhancing the temperature uniformity of the chamber





4-inch LED screen with simple operation and clear display

New ergonomic handle design

Smooth inner chamber with easy to clean rounded corners

Standard independent intelligent temperature safety controller to ensure experimental safety

Multiple shelves of adjustable height

Adjustable feet for easy positioning and leveling

Product Parameters

Model	Capacity (L)	Temperature Setting Range (°C)	Temperature Control Precision (°C)	Temperature Uniformity	Temperature Fluctuation	Heating Rate (ambient temperature 22°C)
HFS-60E	60	RT+10~250	±0.1	±2°C at 100°C ±3°C at 150°C	±0.3°C at 100°C ±0.4°C at 150°C	20min to 100°C 30min to 150°C
HZS-160E	160	RT+10~250	±0.1	±1.5°C at 100°C ±2.5°C at 150°C	±0.2°C at 100°C ±0.3°C at 150°C	9min to 100°C 20min to 150°C

Vertical Autoclave

Scope of Application

This upright automatic rapid sterilization unit uses high temperature saturated steam as the sterilization medium. Applicable to testing laboratories, laboratories, operating rooms, supply rooms, higher education, animal husbandry, disease control centers and other medical and biomedical research units, achieve rapid sterilization of instruments, dressings, rubber, liquids, glassware, bacteria and cell culture medium, wastes, etc.



HRLM-80

Product Advantages

Automatic Program Control
One-click program control to automate the whole process-water injection, heat, exhaust, sterilization, pressure relief, drainage and drying.

Automatic Drying Function (Auxiliary Drying)
The drying time can be set after the sterilization is completed.

Warm-up Control and Timing Start
The preheating control function supports the sterilizer heating process, which shortens the heating time of the sterilizer and improves the efficiency of the process; equipped with timed starter function, the sterilization program can be set to a predetermined time and users can organise the processing time to suit.

Multiple Exhaust Methods
A variety of exhaust methods such as regular temperature setting exhaust, dynamic exhaust and full-process air escape, completely eliminates the cold air in the sterilizer and improves steam saturation, ensuring effective sterilization.

One-click Start of Stored Procedures
Equipped with quick programs for instruments, dressings, rubber and liquids, one-button start for easy operation.

Two Pressure Relief Methods
Two pressure relief methods are available: fast pressure relief and slow pressure relief. The slow pressure relief method for liquid sterilization can prevent liquid overflow caused by rapid buildup of pressure.

Safety Mechanisms

- **Automatic overpressure pressure relief:**
  When the set pressure is exceeded, the safety valve opens automatically to release the pressure.
- **Anti-drying protection:**
  When the water level is too low, the power will automatically cut off, the operation is stopped, and an alarm is automatically generated.
- **Sensor disconnection detection:**
  Monitors the status of the sensor in real time to ensure that the sensor is working properly to prevent excessive temperature caused by abnormal sensors.
- **Standard over-current, over-voltage protection and leakage protection.**
- **Automatic over-temperature protection:**
  When the set temperature is exceeded, the system cuts off the power supply and alarms automatically generated.
- **Door safety protection:**
  Real-time detection of door status, sterilization procedures cannot be started if the door is not tightly closed and there is a reminder to open the door; the sterilization can only start when the door is normally closed. However, when there is pressure in the sterilizer, the sealing door cannot be opened to prevent damage caused by steam leakage.
- **Full protection thermal insulated door cover:**
  The door cover is made of high-performance thermal insulation material which completely covers the metal door, which prevents the operator from being burned.

Air Switch Solution

More secure and reliable connection

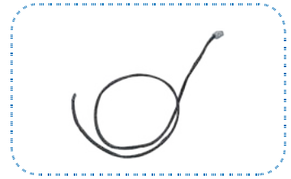
Over-current, overvoltage, current leakage protection, in case of tripping operation, the other equipment connected to the air switch will not be affected.



Air switch



Nylon connector
Fix, waterproof



External cable
2m

Shell material
ABSbox/PCTransparent cover

Waterpro of level
IP65

Features
Waterproof, dustproof, corrosion-resistant, high-strength insulation

Model	HT Switch Box	Dimension (mm)
HT-5	Length	120
	Width	160
	Height	95

Standard configuration

Nylon connector + external cable (2m) + air switch
(residual current operated circuit-breaker + protection box)

Specifications

Model	Volume (L)	Net Weight (Kg)	Power Supply (V/Hz)	Power (W)	Exterior Dimension (W*D*H mm)	Interior Dimension (mm)	Design Pressure (Mpa)	Design Temperature (°C)	Rated Working Pressure (Mpa)	Pressure Display Range (Mpa)
HRLM-80	80	105	220-240 50/60	4200	546*750*1085	ϕ 386*695	0.28	150	0.22	-0.1-0.3

Sterilization Temperature Range	Temperature Control Precision (°C)	Dynamic Pulse Exhaust Times	Dynamic Pulse Exhaust Temperature	Solution Temperature (°C)	Holding Temperature (°C)	Sterilization Time Range	Cabinet and Door Material	Accessories	
105-136°C	±0.1	0-99 (Settable)	110-136°C	40-100 (Settable)	40-100 (Settable)	1-999 mins	SUS304 Stainless Steel	2 Stainless Steel Sterilized Baskets	Optional Printer

*Haier Biomedical reserves the right to change products and specifications without prior notice.

Vertical Autoclave

Scope of Application

Suitable for a wide range of applications used within laboratories, operating rooms, disease control centers and other biomedical/medical research areas. Intended for the sterilization of a wide range of liquids and solids such as glassware,rubber and other laboratory items.



HRLM-60A/80A

Product Advantages

Dual cooling system

High density finned condenser and high air volume cooling fan are connected in series to provide two-stage cooling and external steam exhaust.

Anti-dry burning protection

The use of floating balls and manual reset temperature controllers ensures sterilization safety and can extend the service life of the equipment.

Ten-model exhaust control technology

Adopting PID control technology to achieve controllable cooling time and non boiling liquid, selecting a suitable exhaust mode scheme can save time and improve efficiency.

Multiple options

Optional IoT module, fast cooling module, 316 stainless steel sterilization chamber, stainless steel bucket, matrix printer, high-efficiency sterilization filter, and item temperature sensor.

Door pressure mechanical interlock

When there is pressure in the sterilization chamber, the mechanical interlocking device starts and the sealing door remains tightly closed.

Experience Upgrade

Drainage without exhaust



Dual cooling system and ten-model exhaust control technology ensure zero steam discharge during the entire process of program equipment operation, this is to ensure environmental cleanliness, and avoid aerosol generation and biological laboratory hazards.

Ergonomic details



Ergonomic and anti-scald door handle



Mechanical safety valve



Vaporous protection plate of door cover



4-inch LCD display screen and touch buttons

One-click start of sterilization

Standard dressings, instruments, rubber, liquid one click start program.

Air Switch Solution

More secure and reliable connection

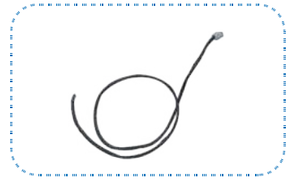
Over-current, overvoltage, current leakage protection, in case of tripping operation, the other equipment connected to the air switch will not be affected.



Air switch



Nylon connector
Fix, waterproof



External cable
2m

Shell material	Waterpro of level	Features
ABSbox/PCTransparent cover	IP65	Waterproof, dustproof, corrosion-resistant, high-strength insulation

Model	HT Switch Box	Dimension (mm)
HT-5	Length	120
	Width	160
	Height	95

Standard configuration

Nylon connector + external cable (2m) + air switch
(residual current operated circuit-breaker + protection box)

Specifications

Model	Power Supply (V/Hz)	Volume (L)	Power (W)	Exterior Dimension (W*D*H)(mm)	Sterilization Temperature Range	Temperature Control Precision
HRLM-60A	220-240~ 50/60	60	3400	581*706*903	105-136°C	± 0.1°C
HRLM-80A	220-240~ 50/60	80	3400	581*706*1020	105-136°C	± 0.1°C

Design Pressure (Mpa)	Rated Working Pressure (Mpa)	Dynamic Pulse Exhaust Times	Heating Mode	Exhaust Mode
0.28	0.22	0-99 (Settable)	Ten-model	Ten-model
0.28	0.22	0-99 (Settable)	Ten-model	Ten-model

*Haier Biomedical reserves the right to change products and specifications without prior notice.

Horizontal Bench-top Autoclaves

Scope of Application

For medical, healthcare, scientific research and other related industries to disinfect medical devices, laboratory appliances and materials that may come into contact with blood or body fluids. Mainly used in ophthalmology, stomatology, beauty clinics, pet clinics, community service stations and other associated scenarios.



HRTM-18/HRTM-23

Ergonomic Design

Programmable Mode

The program can be edited to meet different requirements.

Novel Structure

Easy-to-clean, smooth and curved inner liner manufactured from one piece of 304 stainless steel.

High Efficiency Vacuum Pump

The sterilization cycle is greatly shortened, and the sterilization and drying effects are improved.

A New Steam Generator is Adopted

An efficient steam generator with high heat exchange efficiency and large gas output is adopted to meet the requirements of rapid temperature rise and sterilization of the sterilized equipment.

Large Capacity Water Storage Tank

Open water storage tank, easy to clean.
High water level display, low water level alarm, when the low water level alarm starts to alarm.

Product Advantages

Triple Protection of Temperature and Pressure Monitoring, Electronic Lock and Mechanical Safety Device

When the set pressure is exceeded, the safety valve opens automatically to release the pressure

High Degree of Safety by Extensive Safety Devices

Automatic over-temperature protection, over-current, over-voltage protection and leakage protection, anti-drying protection, sensor disconnection detection, door safety protection, and full protection thermal insulated door cover

Optimized Total Operating Time

A vacuum forced cooling system and under pressure blast drying system ensures rapid sterilization, greatly shortening the sterilization time and improve the drying effect

LCD Display and Touch Screen Control are Adopted

4-inch TFT full-color LCD screen makes graphics and figures clear at a glance, easy to use

Optional-Intelligent IoT Module to Enable the Mobile APP to Monitor the Running State of the Autoclave

New Technology

Adopts a new generation steam generator to increase the saturation of saturated steam that sterilizes thoroughly

Specifications

Model	HRTM-18	HRTM-23
Design Pressure (Mpa)	0.28	0.28
Design Temperature (°C)	150	150
Rated Working Pressure (Mpa)	0.22	0.22
Sterilization Temperature Range (°C)	105-138	105-138
Temperature Control Precision (°C)	±0.1	±0.1
Dynamic Pulse Exhaust Times	0-9	0-9
Sterilization Time Range (min)	0~999	0~999
Power Supply (V/Hz)	220-240~50/60	220-240~50/60
Power (W)	2800	3200
Capacity (L)	18	23
Weight (KG)	47	53
Interior Dimension (mm)	ϕ 247*350	ϕ 247*450
Exterior Dimension (W*D*H) (mm)	490*600*455	490*690*455
Cabinet and Door Material	SUS304	SUS304

*Haier Biomedical reserves the right to change products and specifications without prior notice.

Hydrogen Peroxide Disinfector

Scope of Application

The product is applicable to biosafety cabinets, pass-through boxes, incubators, airlocks and channels, flow cytometer, PIVAS, microbiological incubators, robot arm work bins, desktop sealed operating bins, mobile biosafety vehicles, ambulances, first aid inflatable tents and military mobile experimental isolators as key examples



HGYX-Y100

Ergonomic Design

- With small volume and total weight of 12kg, it is easy to carry and store
- Pre-warning function of the program: sound and light alarm before the disinfection program starts
- It takes less than 2 hours for total disinfection, saving time
- One-button disinfection, no other operation is needed during the disinfection

Product Advantages

Safety
Safe, non-toxic disinfection method

Portable
Compact size, light weight and convenient to handle and carry

High Penetrability
Small diameter particles of strong penetrability for HEPA filter

High Disinfection Level
Higher disinfection level with less consumption of hydrogen peroxide

Easy to Clean
Electrostatic epoxy powder coated, which is corrosion resistant and easy to clean

High-efficiency
Disinfection time is less than 1 hour
Reduced equipment downtime, users only need to ventilate for 30-60 minutes after disinfection before the equipment can be put back into operation

Quick Connection
Standard DN quick connector, which can be quickly connected to the equipment

Product Parts



Hydrogen Peroxide Disinfector

Scope of Application

The product is applicable to high-risk areas in medical institutions, biosafety laboratories, intensive care units, operating rooms, laboratories, infection wards, general wards, biopharmaceutical enterprises, public areas, and places with disinfection requirements.



HGYX-Y500

Product Advantages

Larger Disinfection Space
The disinfection coverage is up to 300m³

High Disinfection Level
It provides a 6-log sporicidal kill on exposed surfaces

High-efficiency
It takes less than 3 hours for total disinfection, saving time

Eco-Friendly 7%~7.5% Hydrogen Peroxide Sterilizing
Safe, non-toxic disinfection method

Ergonomic Design
Compact design with wheels, easy to move and store as required

Ergonomic Design

- **PIR Sensor Technology**
  With the PIR sensor, equipment does not work if any persons are detected.
- **Multiple Alarms**
  Audible and visual alarm functions: high/low temperature alarm, high and low humidity alarm, and residual liquid volume alarm.
- **Energy Saving and Environmental Protection**
  Using a hydrogen peroxide solution, it decomposes into water and oxygen after disinfection.
- **Unique Patented Nozzle**
  The spray system has unique patented sprinkler head and the spray particle size average is ≤3μm.
- **Real Time Detection of Temperature and Humidity**
  Real time monitoring and recording of data during operation.
- **USB Interface**
  Capable of storing more than 10 years of data.

Product Parts



Specifications

Model	Power Supply (V)	Power (W)	Vaporization Rate (ml/min)	Maximum Vaporization (ml)	Disinfection Time	Disinfection Efficiency	Net/Gross Weight (kg)	Exterior Dimensions (W*D*H)(mm)	Packing Dimensions (W*D*H)(mm)
HGYX-Y100	220	700	1~10	500	<2h	>99.9%	12/15	300*300*350	410*405*495
HGYX-Y500	220	1100	15~25	5000	<4h	>99.9%	30/35	350*350*950	590*430*1100

*Haier Biomedical reserves the right to change products and specifications without prior notice

Haier Biomedical
Intelligent Protection of Life Science



Centrifuges

Floor-Standing Low-Speed Refrigerated Centrifuge



LX-75L2400R

Advanced Centrifugation Solutions for Modern Blood Banking

Step into a realm of unmatched convenience with the Haier Biomedical LX-75L2400R Blood Banking Centrifuge, tailored to exceed the demanding needs of blood bank centrifugation. Redefine efficiency as the LX-75L2400R effortlessly accommodates up to 16 x 500 ml blood bags or 6 x 2400 ml centrifuge bottles, delivering optimal sedimentation results with each run.

Elevate your laboratory's capabilities with the LX-75L2400R's extensive rotor options, its formidable motor, and user-friendly control panel, all complemented by a robust refrigeration system and an array of versatile accessories.

Crafted for excellence, the LX-75L2400R is the centrifuge of choice for blood banks and transfusion centers. Its superior design also finds extensive application in the forefront of biopharmaceuticals, cell therapy, biological culture, vaccine production, and academic research, making it a pivotal tool in diverse scientific fields.

Excellent Performance

Unlock the full potential of your blood processing center with the LX-75L2400R's expansive capacity and cutting-edge selection of rotors, carriers, and adapters, masterfully designed to handle a diverse array of high-capacity applications. This powerhouse is the epitome of versatility, perfect for sophisticated bioprocessing, clinical diagnostics, and comprehensive blood sample preparation.

Quiet yet powerful, the LX-75L2400R redefines operational convenience, setting a new standard in the industry. At its heart lies a microprocessor-controlled frequency motor, delivering robust torque and rapid acceleration, all while ensuring an extended motor lifespan. Achieve peak performance with speeds soaring up to 7,500 rpm and forces reaching 13,376 x g, propelling your research to new heights with unmatched precision and reliability

Expansive Memory
Maximize efficiency with over 1000 program memories, ready to streamline your workflow.

Rapid Cooling
Achieve 4°C in just 15 minutes from room temperature, speeding up your readiness.

Quiet Operation
Work in peace with a sound design that keeps noise levels below 65 dB, even at maximum speed.

Precise Control
Tailor your operations with 10 acceleration and deceleration stages for unparalleled precision.

Maintenance-Free Motor
Enjoy seamless operation with our brushless induction motor that requires no maintenance and ensures a clean lab environment.

Stability
Trust in the stability of our low-center-of-gravity design for consistent performance and optimal centrifugal results.

Floor-Standing Low-Speed Refrigerated Centrifuge

Ergonomic Design



One-Touch Automation

Experience unparalleled convenience with our one-button automatic door mechanism that seamlessly opens and closes from front to back, ensuring quick and easy access while maintaining sterility standards.



Automated Rotor Lid Management

With our centrifuge, the rotor lid opens and closes automatically, complete with lid storage, reducing manual effort and enhancing workflow efficiency.



Intuitive 10-Inch Touch Screen

The expansive 10-inch touch screen interface provides operators with user-friendly navigation through settings and features, making operation straightforward and minimizing training time.



Motorized Gas Springs

Engineered for safety, the motorized gas springs offer smooth and controlled opening and closing of the centrifuge chamber, providing an extra layer of protection to users.



316 Stainless Steel Chamber

The premium 316 stainless steel construction of the centrifuge chamber ensures a rust-free and contaminant-resistant environment that is exceptionally easy to clean and maintain.



Versatile Rotor Capacity

Our centrifuge accommodates a variety of research needs with three rotors designed for 250ml, 500ml, 1000ml, 2000ml, and 2400ml centrifuge bottles, as well as 500ml blood bags, maximizing your laboratory's throughput capabilities.



Emergency Lid Release

The lid can be opened by utilizing the reset hole on the side plate. Rotate a 5mm hex key clockwise several times to open the lid.

Interactive 10-Inch LCD Touchscreen

Glove-Friendly and Ergonomic

The 45° angled, glove-friendly touchscreen offers a wide viewing angle, making it comfortable and practical for users of all heights.

Enhanced Access Controls

Equipped with user login and password protection, ensuring individualized program data management for each user.

Visibility and Monitoring

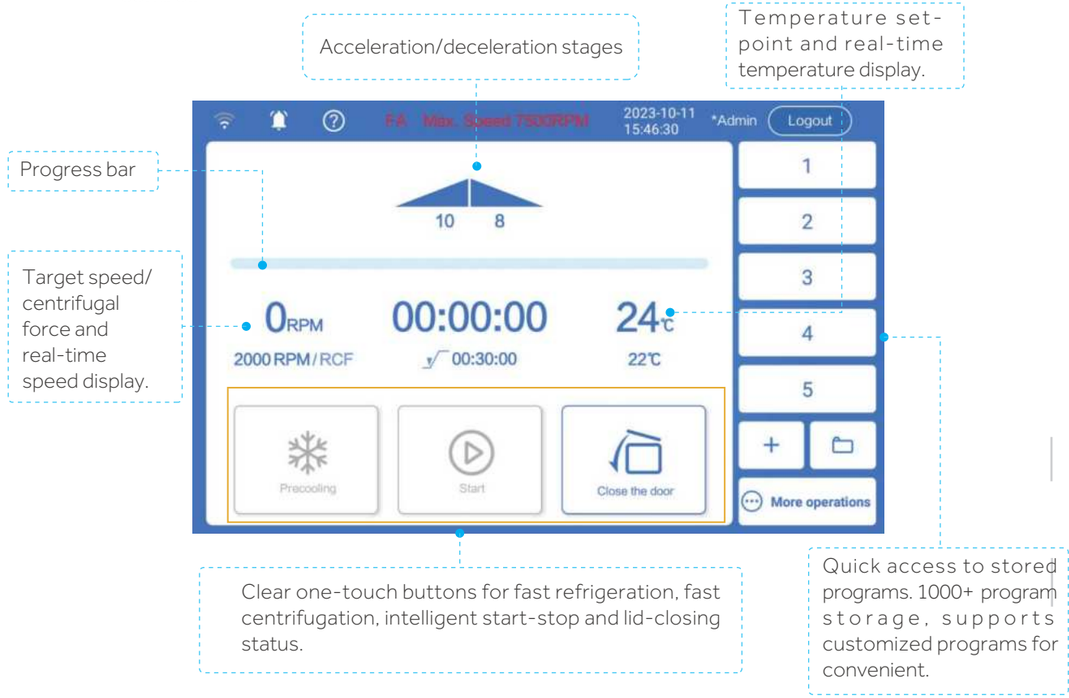
Enlarged track bar display of set and actual run conditions during centrifugation, ensuring clear visibility from a distance.

Program Recall and Efficiency

Quick recall feature for over 1000+ programs with alpha-numeric naming, minimizing time between runs and facilitating quick starts for routine users.

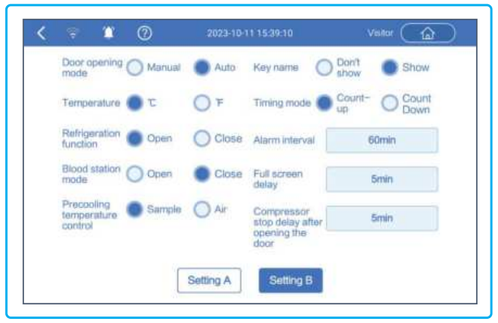
Adjustable On-the-Fly

Users can alter speed, centrifugal force, time, and temperature during the centrifugation process for precise control.



Floor-Standing Low-Speed Refrigerated Centrifuge

Multiple operation setting modes, including unique blood bank mode function, convenient for blood bank users to use.



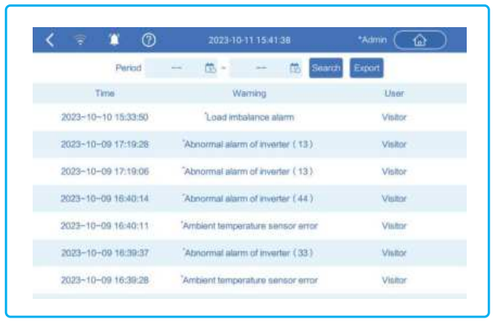
Multi-echelon program running mode, achieving continuous operation of multiple speed steps for special users



Electronic level assists in installation and leveling, making installation easier and simpler



The operation record including speed, time and temperature, operation curve with alarm messages etc. can be tracked on the screen and exported by USB port



Enhanced Safety

Immediate Imbalance Detection & Shutdown

Offers real-time loading imbalance detection with instant shutdown to protect against imbalances.

Stable Installation

Φ120mm adjustable feet ensure the centrifuge is securely and stably installed in any setting.

Comprehensive Alarm System

Features a multi-faceted alarm system for abnormal voltage, high temperature, overspeed, load imbalance, rotor absence, brake anomalies, and rotor life.

Anti-Vibration Lid Lock

Prevents accidental opening during operation, ensuring sample integrity and operator safety.

Robust Construction

Fully covered steel plate protective sleeve and a 12mm steel shell provide enhanced durability and user safety.

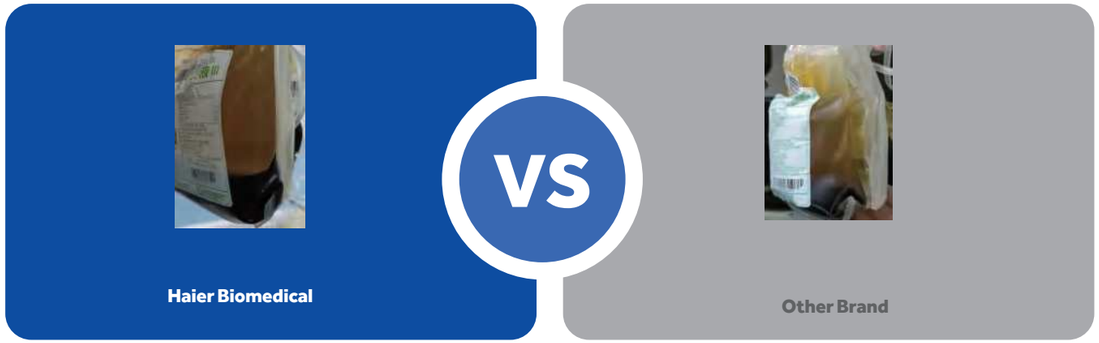
High-Quality Connectivity

Equipped with an imported 5-core aviation plug for easy, fast, and safe usage.

Floor-Standing Low-Speed Refrigerated Centrifuge

Real - World Efficacy

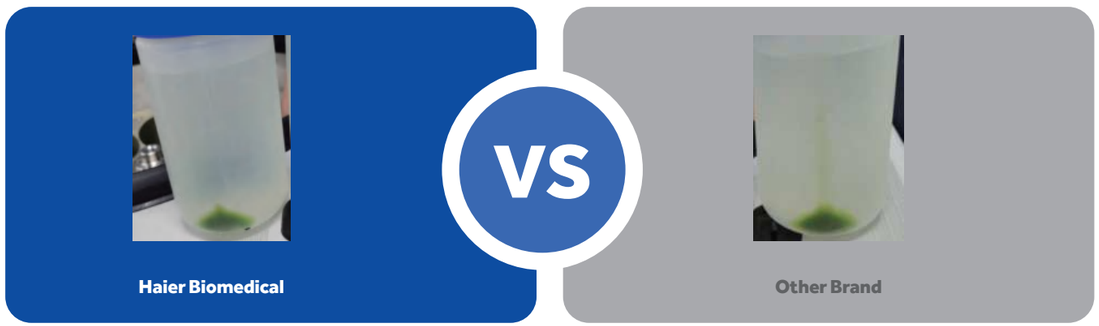
Blood Station User: Blood centrifugal test



Precision Layering

Clear Separation with Distinct Leukocyte Layer, Eliminating the Need for Re-Separation

Scientific Research User: Seaweed centrifugal test



Optimal Centrifugation

Clear Layering, High Yield, and Zero Wall Adhesion

Technical Data

Model	LX-75L2400R
Maximum Capacity	8*2000 ml
Max Speed (rpm)	7500
Max RCF(xg)	13376
Speed Accuracy	±10rpm
Time Setting Range	1min~99h59m59s (1-second increment)
Precooling Function	Yes
Temperature Setting Range	-20℃~40℃, adjustment increment: 1℃
Display	10 inch touch screen
Cooling	Direct Cooling
Noise (dB(A))	≤65
Power Supply	3~400V 50/60Hz
Power (W)	6400
Exterior Dimensions (W*D*H)(mm)	900*1050*1020
Lid Opening Height (mm)	1780
Net Weight (kg)	670
Packing Dimensions (W*D*H)(mm)	1092*1279*1720
Gross Weight (kg)	750
Other Functions	Rotation speed/RCF switchover, inching operation, running process indicator, sound alert, adjustable acceleration/deceleration, user logging, user lock-out, automatic door opening, on-screen display for imbalance, over temperature, stainless steel chamber
Certification	CE

Fixed-Angle Rotor



BE No.	BE12DC000	BE12JP002	BE12JQ002	BE12K1000
Type	Fixed-angle rotor (Sealed)	Adapter (Sets of 6) for BE12DC000	Adapter (Sets of 6) for BE12DC000	Centrifuge Bottle(Sets of 6) for BE12DC000
Max Capacity	6*1000ml	500ml	250ml	1000ml
Max RCF	13376xg	-	-	-
Max Speed	7500rpm	-	-	-
Max Bottle Capacity	1000ml	500ml	250ml	-
Bottles Per Rotor	6	6	6	-
Bottle Type	Flat bottom	Flat bottom	Flat bottom	-

Floor-Standing Low-Speed Refrigerated Centrifuge

Swing-Out Rotor



Swing-Out Rotor
12 Blood Bag



Swing-Out
Rotor Block

BE No.	BE12F5001
Max. RCF	5331xg
Max. speed	4000rpm



Bucket
(Sets of 6)

BE No.	BE12H4000
Max Capacity	2400ml
Bucket Type	Flat bottom

Adapter/Bottle(Sets of 6) for BE12H4000





BE No.	BE12JT001	BE12K0000
Type	Double blood bag adapter	Centrifuge bottle
Max Capacity	2*500ml blood bag	2400ml
Blood bags/Bottles per rotor	12 blood bags	6 bottles

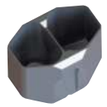


Swing-Out Rotor
16 Blood Bag



Swing-Out
Rotor Block

BE No.	BE12FP001
Max. RCF	5331xg
Max. speed	4000rpm



Double Blood Bag
Bucket (Sets of 8)

BE No.	BE12H9000
Max Capacity	2*500ml
Bucket Type	Flat bottom

Adapter(Sets of 8) for BE12H9000

BE No.	BE12JF002
Type	Double blood bag adapter
Max Capacity	2*500ml blood bag
Blood bags per rotor	16



Benchtop Multipurpose Refrigerated Centrifuge

Scope of Application

Designed for general-purpose application, it is frequently used in microbiology,molecular biology,pharmacology,genetics,bioproduction, cell culture, clinical diagnostics,and transfusion facilities and applied for cell culturing,nucleic acid purif ication, blood component separation, protein concentration DNA/RNA/plasmid extraction and others.



LX-155T500R

Product Features

- Short pre-cooling time and precise temperature control performance
- Optimized sound design for low noise levels (≤55dB(A))
- Wide range of rotors for application flexibility, compatible with tubes/ bottles from 0.2 ml to 500ml
- Automatic radio-frequency rotor identif ication (RFID) with over speed protection
- Use of brushless induction motors to provide maintenance-free operation, eliminating carbon particle emissions
- Real time loading imbalance detection, immediate shutdown protection in case of imbalance
- ECO shut-off function reduce energy consumption and extend compressor life
- Each rotor use frequency monitoring to guarantee maximum operational safety

Benchtop Multipurpose Refrigerated Centrifuge

Intuitive Interface

The 7-inch 45°glove-friendly touchscreen, the wide viewing angle more comfortable and practical for users of all heights

Equipped with user login and password protection,ensuring individualized programdata management for each user

Quick recall feature for over 1000+ programs, minimizing time between runs and facilitating quick starts for routine users

The speed, centrifugal force, time and temperature can be changed by user during the centrifugation process

9 acceleration+ 10 deceleration stages



Product Parts


Intelligent lid locking monitoring and automatic self-locking to ensure safe operation


Triple-layer construction to ensure safe use


Motorized gas springs with safety protection




316 stainless steel centrifuge chamber is rust-free and easy to clean

Drainage tray to prevent internal water accumulation and improve corrosion resistance


Emergency lid release, pry out the white plastic plug on the side plate with a tool and pull the attached release cord at least 7 times to open the lid


USB port for exporting operation record including speed, time and temperature, operation curve with alarm messages etc

Key Features of Quick-Flip Biocontainment Safety Lids

- **Quick-Flip Hinge Design**
  Our hinged lids do not need to be removed from the rotor. Just a quick flip gives you fast access to your samples
- **Low-Pressure Closing Clip**
  The simple low-pressure clip offers a secure closure with an audible “click” and visual cues, enhancing safety and replacing multi-turn screw caps or complex lever systems
- **Ambidextrous & Glove-Friendly**
  Designed for ease of use, our lids can be operated with either hand and are glove-friendly, ensuring seamless operation
- **Premium Polymer Construction**
  Made from Polyetherimide (PEI), our lids provide excellent chemical resistance, transparency, and durability
- **Certified Safety and Reliability**
  Independently tested and certified per IEC-61010 Section 2-020 Annex AA, ensuring top-level safety and performance



Choose our Quick-Flip biocontainment safety lids for innovative, safe, and durable lab solutions.

Benchtop Multipurpose Refrigerated Centrifuge

Specifications

Model	Maximum Capacity	Speed Range (rpm)	Max RCF(xg)	Speed Accuracy	Time Setting Range	Precooling Function	Temperature Setting Range(°C)	Display
LX-155T500R	4*500 ml	500~15500	26322	±10rpm	1s~ 99h59m59s (1-second increment)	Yes	-20~40, adjustable to 1	7 inch touch screen

Cooling	Noise Level dB(A)	Power Supply (V/Hz)	Power(W)	Exterior Dimensions (W*D*H)(mm)	Lid Opening Height(mm)	Net Weight (kg)	Packing Dimensions (W*D*H)(mm)	Gross Weight(kg)	Certifications
Direct Cooling	≤55	AC220/50/60	1200	658*673*358	860	112	741*799*555	133	CE

Fixed-Angle Rotor



BE No.	BE12C9000	BE12CE000	BE12C7000	BE12DS000	BE12DT000	BE12DU000
Type	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed
Max Capacity (ml)	24*1.5/2ml	30*1.5/2ml	48*1.5/2ml	12*10ml	12*15ml	6*50ml
Max RCF (xg)	23100	26322	22132	16071	21912	17065
Max Speed (rpm)	15500	15500	14000	12500	14000	12000
Max Tubes Per Rotor	24	30	48	12	12	6
Tube						
Max Tube Capacity (ml)	1.5/2ml	1.5/2ml	1.5/2ml	10ml	15ml	50ml
Max Tube Dimensions (Ø x L mm)	11*38	11*38	11*38	16*86	17*121	29 *105
Tube Type	Round /Conical bottom	Round /Conical bottom	Round /Conical bottom	Round bottom	Conical bottom	Round bottom

*Haier Biomedical also can provide 0.2ml adapter (sets of 24) (BE12J2003),0.5ml adapter (sets of 24) (BE12JN002) for 1.5/2ml tube rotor



BE No.	BE12DB000	BE12E5000	BE12DF000	BE12DG000	BE12DE000
Type	Sealed	Sealed	Steel sleeves	Steel sleeves	Steel sleeves
Max Capacity (ml)	6*50ml	12*8*0.2ml	42*15ml	12*50(15)ml	10*100ml
Max RCF (xg)	16421	14892	4472	4640	3350
Max Speed (rpm)	12000	12000	5000	5000	4500
Max Tubes Per Rotor	6	12	42	12pcs(50ml) 12pcs(15ml)	10
Tube					
Max Tube Capacity (ml)	50ml	0.2 ml 8-strip PCR	15ml	50(15)ml	100ml
Max Tube Dimensions (Ø x L mm)	29*118	6*18	17*121	29*118 17*121	41*120
Tube Type	Conical bottom	PCR	Round/Conical bottom	Round/Conical bottom	Round bottom

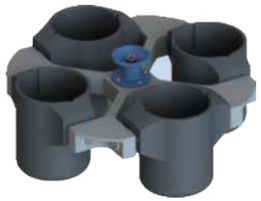
Adapter(Sets of 6) for BE12DB000

BE No.	BE12JC002
Max Capacity	15ml
Tube	
Max Tube Dimensions (Ø x L mm)	17*121
Tube Type	Conical bottom



Benchtop Multipurpose Refrigerated Centrifuge

Swing-Out Rotor



Swing-Out Rotor with Round Buckets

Swing-Out Rotor Block



BE No.	BE12FJ001
Max. RCF	3220xg
Max. speed	4000rpm

Round Bucket (Sets of 4)



BE No.	BE12G0000
Max Capacity	500ml
Bucket Type	Flat bottom

Adapter (Sets of 4) for BE12G0000,BE12G8000









BE No.	BE12JR001	BE12JQ001	BE12JD002	BE12JE002
Max Capacity	10*15ml	14*10ml	19*5/7ml	30*1.5/2ml
Tubes Per Adapter/Rotor	10/40	14/56	19/76	30/120
Tube				
Maximum Tube Dimensions (Ø x L mm)	17*121	15*105	13*75/100	11*38
Tube Type	Conical bottom	Large blood collection tube	Small/Large blood collection tube	Round/Conical bottom

*Haier Biomedical also can provide 0.2ml adapter (sets of 24) (BE12J2003),0.5ml adapter (sets of 24) (BE12JN002) for 1.5/2ml tube rotor



Swing-Out Rotor with Biocontainment Round Buckets

Swing-Out Rotor Block



BE No.	BE12FJ001
Max. RCF	3220xg
Max. speed	4000rpm

Round Bucket& Lid (sets of 4)



BE No.	BE12G8000	BE12J2004
Max Capacity	500ml	NA
Bucket Type	Flat bottom	NA

Adapter (Sets of 4) for BE12G0000,BE12G8000

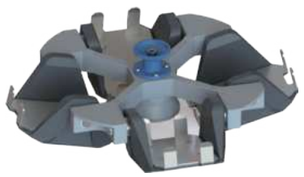








BE No.	No Adapter Needed	BE12JP001	BE12FG001	BE12FF001	BE12JS001
Max Capacity	500ml	250ml	225ml	100ml	4*50ml
Tubes Per Adapter/Rotor	4	1/4	1/4	1/4	4/16
Tube					
Max Tube Dimensions (Ø x L mm)	80*136	62*123	60*136	38*120	29*118
Tube Type	Flat bottom	Flat bottom	Conical bottom	Round bottom	Conical bottom



Swing-Out Rotor with Plate Buckets

Swing-Out Rotor Block



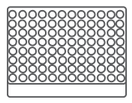
BE No.	BE12FJ001
Max. RCF	2612xg
Max. speed	4000rpm

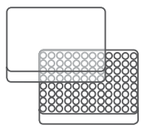
Plate Bucket (Sets of 4)

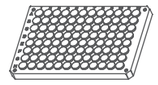


BE No.	BE12H5000
Max Capacity	1 plate
Bucket Type	Rectangular bottom

Plates for BE12H5000







Plates per rotor	4	4	4
W*D*H (mm)	128*86*15	128*86*17.5	128*86*20
Plate Type	MTP (without lid)	MTP (with lid)	PCR plate 96- fold

Benchtop High-Speed Refrigerated Centrifuge

Scope of Application

Mainly used for nucleic acid extraction, DNA/RNA separation, purification, virus separation and protein precipitation in the laboratory. Widely used in universities, third party testing organizations, disease prevention, medical and health, biological pharmaceutical and other related fields.



LX-185T100R

Product Features

- Wide range of rotors for application flexibility, compatible with tubes/bottles from 0.2 ml to 100ml
- Short pre-cooling time and precise temperature control performance
- Fast sample processing at maximum speeds of up to 18,500 rpm (30,130xg)
- Use of brushless induction motors to provide maintenance-free operation, eliminating carbon particle emissions
- Optimized sound design for low noise levels (≤52dB(A))
- Automatic radio-frequency rotor identification (RFID) with over speed protection
- Each rotor use frequency monitoring to guarantee maximum operational safety
- Real time loading imbalance detection, immediate shutdown protection in case of imbalance

Intuitive Interface

- The 7-inch 45°glove-friendly touchscreen, the wide viewing angle more comfortable and practical for users of all heights
- Further enhanced with access controls such as user login with password protection, the independent program data of each user is managed separately

- Quick recall of up to 1000+ programs with alpha-numeric naming to minimize time between runs and for quick run start by routine users
- The speed, centrifugal force, time and temperature can be changed by user during the centrifugation process
- 9 acceleration + 10 deceleration stages



Product Parts



Benchtop High-Speed Refrigerated Centrifuge

Specifications

Model	Maximum Capacity	Speed Range (rpm)	Max RCF(xg)	Speed Accuracy	Time Setting Range	Precooling Function	Temperature Setting Range(°C)	Display
LX-185T100R	4*100 ml	500~18500	30130	±10rpm	1s ~ 99h59m59s (1-second increment)	Yes	-20 ~ 40, adjustable to 1	7 inch touch screen

Cooling	Noise Level dB(A)	Power Supply (V/Hz)	Power(W)	Exterior Dimensions (W*D*H)(mm)	Lid Opening Height(mm)	Net Weight (kg)	Packing Dimensions (W*D*H)(mm)	Gross Weight(kg)	Certifications
Direct Cooling	≤52	AC220/50/60	1200	420*680*330	860	57	508*806*528	73	CE

Fixed-Angle Rotor



BE No.	BE12DKZ00	BE12C6000	BE12CB000	BE12DJZ00	BE12CC000	BE12CA000
Type	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed
Max Capacity	12*1.5/2ml	24*1.5/2ml	48*1.5/2ml	12*5ml	12*10ml	8*15ml
Max RCF (xg)	26019	30130	19083	18090	16071	13200
Max Speed (rpm)	18500	17500	13000	16000	12500	12000
Tubes per Rotor	12	24	48	12	12	8
Tube						
Max Tube Capacity (ml)	1.5/2ml	1.5/2ml	1.5/2ml	5ml	10ml	15ml
Max Tube Dimensions (Ø x L mm)	11*38	11*38	11*38	13.5*75	16*86	17*121
Tube Type	Round /Conical bottom	Round /Conical bottom	Round /Conical bottom	Round bottom	Round bottom	Conical bottom

*Haier Biomedical also can provide 0.2ml adapter (sets of 24) (BE12J2003),0.5ml adapter (sets of 24) (BE12JN002) for 1.5/2ml tube rotor



BE No.	BE12CD000	BE12DD000	BE12DLZ00	BE12DPZ00	BE12DMZ00	BE12DNZ00
Type	Sealed	Sealed	Sealed	Steel sleeve	Steel sleeve	Steel sleeve
Max Capacity	6*50ml	6*50ml	12*8*0.2ml	18*15ml	6*50/15ml	6*100ml
Max RCF (xg)	15294	16421	18516	4749	3577	3348
Max Speed (rpm)	12000	12000	12000	5000	5000	4800
Tubes per Rotor	6	6	12	18	6 pcs(50ml) 6 pcs(15ml)	6
Tube						
Max Tube Capacity (ml)	50ml	50ml	0.2ml 8-strip PCR	15ml	50(15)ml	100ml
Max Tube Dimensions (Ø x L mm)	29*105	29*118	6*18	17*121	29*118 17*121	41*120
Tube Type	Round bottom	Conical bottom	PCR	Round /Conical bottom	Round /Conical bottom	Round bottom

Adapter(Sets of 6) for BE12DD000

BE No.	BE12JC002
Max Capacity	15ml
Tube	
Max Tube Dimensions (Ø x L mm)	17*121
Tube Type	Conical bottom



Benchtop High-Speed Refrigerated Centrifuge

Swing-Out Rotor



Swing-Out Rotor Block



BE No.	BE12FD001
Max. RCF	3322xg
Max. speed	4600rpm

Bucket (Sets of 4)



BE No.	BE12H1000
Max Capacity	5*10ml
Tubes per bucket/rotor	5/20
Tube	
Max Tube Dimensions (Ø x L mm)	15*105
Tube Type	Large blood collection tube

Adapter (Sets of 50) for BE12H1000

BE No.	BE12JN001
Max Capacity	5ml
Tube	
Max Tube Dimensions (Ø x L mm)	13*75
Tube Type	Small blood collection tube





Swing-Out Rotor Block



BE No.	BE12FD001
Max. RCF	3322xg
Max. speed	4600rpm

Bucket (Sets of 4)



BE No.	BE12H3000
Max Capacity	50ml
Tubes per bucket/rotor	1/4
Tube	
Max Tube Dimensions (Ø x L mm)	29*118
Tube Type	Conical bottom



Swing-Out Rotor Block



BE No.	BE12FD001
Max. RCF	3322xg
Max. speed	4600rpm

Bucket (Sets of 4)



BE No.	BE12G7000	BE12J1004
Max Capacity	100ml	NA
Bucket Type	Flat bottom	NA



Swing-Out Rotor Block



BE No.	BE12FD001
Max. RCF	3322xg
Max. speed	4600rpm

Bucket (Sets of 4)



BE No.	BE12H2000
Max Capacity	2*15ml
Tubes per bucket/rotor	2/8
Tube	
Max Tube Dimensions (Ø x L mm)	17*121
Tube Type	Conical bottom

Adapter(Sets of 4) for BE12G7000



BE No.	BE12JU003	BE12JV003	BE12JW003	BE12JX003	BE12JY003	BE12JZ003	BE12J0004
Max Capacity	100ml	50ml	2*15ml	15ml	4*10ml	4*5/7ml	4*1.5/2ml
Tubes per adapter/rotor	1/4	1/4	2/8	1/4	4/16	4/16	4/16
Tube							
Max Tube Dimensions (Ø x L mm)	41*120	29*118	17*121	17*121	15*105	13*75/100	11*38
Tube Type	Round bottom	Conical bottom	Conical bottom	Conical bottom	Large blood collection tube	Small/Large blood collection tube	Round/Conical bottom

Benchtop High-Speed Refrigerated Centrifuge



Swing-Out Rotor Block



BE No.	BE12FD001
Max. RCF	3322xg
Max. speed	4600rpm

BD CPT Tube Bucket (Sets of 4)



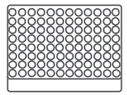
BE No.	BE12G6000
Max Capacity	8ml
Tubes per bucket/rotor	1/4
Tube	
Max Tube Dimensions (Ø x L mm)	16*130
Tube Type	Round bottom

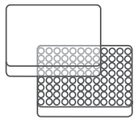
BE No.	BE12FC001
Max. RCF	2287xg
Max. speed	4500rpm
Max Capacity	2 plates
Bucket Type	Rectangular bottom

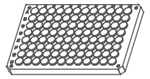


Plate Swing-Out Rotor

Plates for BE12H5000







Plates per rotor	2	2	2
W*D*H (mm)	128*86*15	128*86*17.5	128*86*20
Plate Type	MTP (without lid)	MTP (with lid)	PCR plate 96-fold

Benchtop High-Speed Refrigerated Microcentrifuge

Scope of Application

Mainly used for nucleic acid extraction, DNA/RNA separation, purification, virus separation and protein precipitation in the laboratory. Widely used in universities, third party testing organizations, disease prevention, medical and health, biological pharmaceutical and other related fields.



LX-165T2R

Product Features

- Short pre-cooling time of only 5minutes from room temperature to 4℃
- Fast sample processing at maximum speeds of up to 16,500 rpm (25,872xg)
- Precise temperature and centrifugal speed control ensures optimal separation results
- Use of brushless induction motors to provide maintenance-free operation, eliminating carbon particle emissions
- Optimized sound design for low noise levels (≤52dB(A))
- Automatic radio-frequency rotor identification(RFID) and rotor life monitoring for maximum operational safety
- Real time loading imbalance detection, immediate shutdown protection in case of imbalance

Benchtop High-Speed Refrigerated Microcentrifuge

Intuitive Interface

The 7-inch 45° glove-friendly touchscreen, the wide viewing angle more comfortable and practical for users of all heights

Further enhanced with access controls such as user login with password protection, the independent program data of each user is managed separately

Quick recall of up to 1000+ programs with alpha-numeric naming to minimize time between runs and for quick run start by routine users

The speed, centrifugal force, time and temperature can be changed by user during the centrifugation process

2 acceleration + 3 deceleration stages



Acceleration/ Deceleration setting.

Target speed/ centrifugal force and real-time speed display.

Temperature set-point and real-time temperature display.

Quick access to stored programs. 1000+ program storage, supports customized programs for convenient.

Clear one-touch buttons for fast refrigeration, fast centrifugation, intelligent start-stop and lid-closing status.

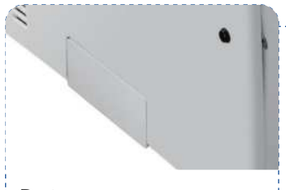
Product Parts



Intelligent lid locking monitoring and automatic self-locking to ensure safe operation



Viewing port in the lid for observing the operating condition of the rotor



Drainage tray to prevent internal water accumulation and improve corrosion resistance





Triple-layer construction to ensure safe use



316 stainless steel centrifuge chamber is rust-free and e asy to clean



Emergency lid release, pry out the white plastic plug on the side plate with a tool and pull the attached release cord at least 7 times to open the lid



USB port for exporting operation record including speed, time and temperature, operation curve with alarm messages etc.

Specifications

Model	Maximum Capacity	Speed Range(rpm)	Max RCF(xg)	Speed Accuracy	Time Setting Range	Precooling Function	Temperature Setting Range(°C)	Display
LX-165T2R	12*10 ml	500-16500	25872	±10rpm	1s ~ 99h59m59s (1-second increment)	Yes	-20 ~ 40, adjustable to 1	7 inch touch screen

Cooling	Noise Level dB(A)	Power Supply (V/Hz)	Power(W)	Exterior Dimensions (W*D*H)(mm)	Net Weight (kg)	Packing Dimensions (W*D*H)(mm)	Gross Weight(kg)	Certifications
Direct Cooling	≤52	AC220/50/60	480	340*625*248	34	425*795*430	48	CE

Benchtop High-Speed Refrigerated Microcentrifuge

Fixed-Angle Rotor



BE No.	BE12C0Z00	BE11D0Z00	BE12D0Z00	BE12E0Z00	BE12DR000
Type	Plastic cover	Sealed	Sealed	Sealed	Sealed
Max Capacity	24*1.5/2ml	24*1.5/2ml	12*5ml	4*8*0.2ml	12*10ml
Max RCF (xg)	25872	21382	21407	18891	2753
Max Speed (rpm)	16500	15000	15000	15000	5000
Tubes per Rotor	24	24	12	4	12
Tube					
Max Tube Capacity (ml)	1.5/2ml	1.5/2ml	5ml	0.2 ml 8-strip PCR	10ml
Max Tube Dimensions (Ø x L mm)	11*38	11*38	13.5*75	6*18	15*105
Tube Type	Round /Conical bottom	Round /Conical bottom	Round bottom	PCR	Large blood collection tube

Adapter(Sets of 50) for BE12DR000

BE No.	BE12JC002
Max Capacity	5ml
Tube	
Max Tube Dimensions (Ø x L mm)	13*75
Tube Type	Small blood collection tube



*Haier Biomedical also can provide 0.2ml adapter (sets of 24) (BE12J2003),0.5ml adapter (sets of 24) (BE12JN002) for 1.5/2ml tube rotor

Benchtop High-Speed Microcentrifuge

Scope of Application

Specifically used for the separation and purification of samples of cells, macromolecular proteins, blood, body fluids, DNA/RNA, plasmids, bacteria and viruses. etc.



LX-165T2-J

Product Features

- Fast sample processing at maximum speeds of up to 16,500rpm (25,872xg)
- Compact footprint with a wide array of microcentrifuge tubes from 0.2 to 5 ml
- Use of brushless induction motors to provide maintenance-free operation, eliminating carbon particle emissions
- Automatic rotor identification with over speed protection
- Optimized sound design for low noise levels(≤58dB(A))
- Each rotor use frequency monitoring to guarantee maximum operational safety
- Real time loading imbalance detection, immediate shutdown protection in case of imbalance

Benchtop High-Speed Microcentrifuge

Intuitive Interface

LED keypad and control knob for easy operation , the wide viewing angle more comfortable and practical for users of all heights.

Quick recall of up to 99 programs for quick run start by routine users

2 acceleration + 3 deceleration stages

The speed, centrifugal force, time and temperature can be changed by user during the centrifugation process.



Product Parts



Patented anti-seismic door lock. In case of abnormal vibration, the cover can be locked reliably



USB port for exporting operation record including speed, time and temperature, operation curve with alarm messages etc





Triple-layer construction to ensure safe use



Unique air duct structure design, the heat inside the centrifugal chamber can dissipate quickly



316 stainless steel centrifuge chamber is rust-free and easy to clean



Emergency lid release, pry out the white plastic plug on the side plate with a tool and pull the attached release cord to open the lid

Specifications

Model	Maximum Capacity	Speed Range (rpm)	Max RCF(xg)	Speed Accuracy	Time Setting Range	Display
LX-165T2-J	12*5 ml	500~16500	25872	±10rpm	1s~99h59m59s (1-second increment)	LED

Noise Level dB(A)	Power Supply (V/Hz)	Power(W)	Exterior Dimensions (W*D*H)(mm)	Lid Opening Height(mm)	Net Weight (kg)	Packing Dimensions (W*D*H)(mm)	Gross Weight(kg)	Certifications
≤58	AC220/50/60	230	270*375*252	526	18	375*560*370	20	CE

Benchtop High-Speed Microcentrifuge

Fixed-Angle Rotor



BE No.	BE12C5Z00	BE12C4Z00	BE12D4Z00	BE12E4Z00
Type	Plastic cover	Sealed	Sealed	Sealed
Max Capacity	24*1.5/2ml	24*1.5/2ml	12*5ml	4*8*0.2ml
Max RCF (xg)	25872	21382	21407	18891
Max Speed (rpm)	16500	15000	15000	15000
Tubes per Rotor	24	24	12	4
Tube				
Max Tube Capacity (ml)	1.5/2ml	1.5/2ml	5ml	0.2 ml 8-strip PCR
Max Tube Dimensions (Ø x L mm)	11*38	11*38	13.5*75	6*18
Tube Type	Round /Conical bottom	Round /Conical bottom	Round bottom	PCR

*Haier Biomedical also can provide 0.2ml adapter (sets of 24) (BE12J2003),0.5ml adapter (sets of 24) (BE12JN002) for 1.5/2ml tube rotor

Benchtop Low-Speed Centrifuge

Scope of Application

Specifically designed for routine clinical and life science applications, mainly used for separating whole blood or blood components of human origin and cell collection etc.



LX-60T100-J

Product Features

- Offer a compact footprint and compatible with 5ml,10ml, 15ml, 50ml or 100ml sample tube, small and large blood collection tubes
- Use of brushless induction motors to provide maintenance-free operation, eliminating carbon particle emissions
- Optimized sound design for low noise levels (≤56dB(A))
- Automatic rotor identif ication with over speed protection
- Real time loading imbalance detection, immediate shutdown protection in case of imbalance
- Each rotor use frequency monitoring to guarantee maximum operational safety

Benchtop Low-Speed Centrifuge

Intuitive Interface

LED keypad and control knob for easy operation , the wide viewing angle more comfortable and practical for users of all heights

Quick recall of up to 99 programs for quick run start by routine users

9 acceleration + 10 deceleration stages

The speed, centrifugal force, time and temperature can be changed by user during the centrifugation process



Product Parts



Patented anti-seismic door lock. In case of abnormal vibration, the cover can be locked reliably



Motorized gas springs with safety protection



USB port for exporting operation record including speed, time and temperature, operation curve with alarm messages etc





Unique air duct structure design, the heat inside the centrifugal chamber can dissipate quickly



316 stainless steel centrifuge chamber is rust-free and easy to clean



Emergency lid release, pry out the white plastic plug on the side plate with a tool and pull the attached release cord to open the lid



Triple-layer construction to ensure safe use

Benchtop Low-Speed Centrifuge

Specifications

Model	Maximum Capacity	Speed Range (rpm)	Max RCF(xg)	Speed Accuracy	Time Setting Range	Display	Noise Level dB(A)	Power Supply
LX-60T100-J	6*100ml	500~6000	4749	±10rpm	1s~99h59m59s (1-second increment)	LED	≤56	220/50/60

Power(W)	Exterior Dimensions (W*D*H)(mm)	Lid Opening Height (mm)	Net Weight (kg)	Packing Dimensions (W*D*H)(mm)	Gross Weight (kg)	Certifications
150	340*447*281	627	25	441*544*421	28	CE

Fixed-Angle Rotor



BE No.	BE11D6000	BE11D5000	BE11DT000	BE11D7000	BE12D6000	BE11DU000
Type	Steel sleeve	Steel sleeve	Steel sleeve	Steel sleeve	Steel sleeve	Steel sleeve
Max Capacity	6*50(15)ml	12*15ml	18*15ml	6*100ml	12*10ml	36*10ml
Max RCF (xg)	3578	4749	3578	3349	2683	2465
Max Speed (rpm)	5000	6000	5000	4800	5000	4200
Max Tubes Per Rotor	6 pcs(50ml) 6 pcs(15ml)	12	18	6	12	36
Tube						
Max Tube Capacity (ml)	50 (15)ml	15ml	15ml	100ml	10ml	10ml
Max Tube Dimensions (Ø x L mm)	29*118 17*121	17*121	17*121	41*120	15*105	15*105
Tube Type	Round/Conical bottom	Round/Conical bottom	Round/Conical bottom	Round bottom	Large blood collection tube	Large blood collection tube

Adapter(Sets of 50) for BE12D6000, BE11DU000

BE No.	BE12JN001
Max Capacity	5ml
Tube	
Max Tube Dimensions (Ø x L mm)	13*75
Tube Type	Small blood collection tube



Swing-Out Rotor



Swing-Out Rotor Block



BE No.	BE12F2001
Max. RCF	2770xg
Max. speed	4200rpm

Bucket (Sets of 4)



BE No.	BE12H8000
Max Capacity	1*15ml 2*10ml 2*5ml
Tubes per bucket/rotor	15ml(1/4),10ml(2/8) 5ml(2/8)
Tube	
Max Tube Dimensions (Ø x L mm)	17*121 16*86 13*75
Tube Type	15ml(Conical bottom) 10ml/5ml(Round bottom)



Swing-Out Rotor Block



BE No.	BE12F2001
Max. RCF	2770xg
Max. speed	4200rpm

Bucket (Sets of 4)



BE No.	BE12H1000
Max Capacity	5*10ml
Tubes per bucket/rotor	5/20
Tube	
Max Tube Dimensions (Ø x L mm)	15*105
Tube Type	Large blood collection tube

Adapter(Sets of 50) for BE12H1000

BE No.	BE12JN001
Max Capacity	5ml
Tube	
Max Tube Dimensions (Ø x L mm)	13*75
Tube Type	Small blood collection tube



Benchtop Low-Speed Centrifuge



Swing-Out Rotor Block



BE No.	BE12F2001
Max. RCF	2770xg
Max. speed	4200rpm

Bucket (Sets of 4)



BE No.	BE12H2000
Max Capacity	2*15ml
Tubes per bucket/rotor	2/8
Tube	
Max Tube Dimensions (Ø x L mm)	17*121
Tube Type	Conical bottom



Swing-Out Rotor Block



BE No.	BE12F2001
Max. RCF	2770xg
Max. speed	4200rpm

Bucket (Sets of 4)



BE No.	BE12H3000
Max Capacity	50ml
Tubes per bucket/rotor	1/4
Tube	
Max Tube Dimensions (Ø x L mm)	29*118
Tube Type	Conical bottom

BE No.	BE12F3001
Max. RCF	2130xg
Max. speed	4200rpm
Max Capacity	2 plates
Bucket Type	Rectangular bottom



Plate Swing-Out Rotor

Plates for BE12H5000



Plates per rotor	2	2	2
W*D*H (mm)	128*86*15	128*86*17.5	128*86*20
Plate Type	MTP (without lid)	MTP (with lid)	PCR plate 96-fold

Benchtop Low-Speed Large-Capacity Centrifuge

Scope of Application

Specifically designed for routine sample processing of serum, plasma, whole blood and other body fluids, rapid sedimentation of protein precipitates and processing of samples for in-vitro cytotoxicity studies.



LX-60T500-J

Product Features

- Wide range of rotors for application flexibility, compatible with tubes/bottles from 0.2 ml to 500ml
- Use of brushless induction motors to provide maintenance-free operation, eliminating carbon particle emissions
- Optimized sound design for low noise levels(≤65dB(A))
- Automatic rotor identification with over speed protection
- Real time loading imbalance detection, immediate shutdown protection in case of imbalance
- Each rotor use frequency monitoring to guarantee maximum operational safety

Intuitive Interface

- LED keypad and control knob for easy operation , the wide viewing angle more comfortable and practical for users of all heights
- 9 acceleration + 10 deceleration stages
- Quick recall of up to 99 programs for quick run start by routine users
- The speed, centrifugal force, time and temperature can be changed by user during the centrifugation process



Benchtop Low-Speed Large-Capacity Centrifuge

Product Parts



Patented anti-seismic door lock. In case of abnormal vibration, the cover can be locked reliably

Motorized gas springs with safety protection

Emergency lid release, pry out the white plastic plug on the side plate with a tool and pull the attached release cord to open the lid

USB port for exporting operation record including speed, time and temperature, operation curve with alarm messages etc



Unique air duct structure design, the heat inside the centrifugal chamber can dissipate quickly



Triple-layer construction to ensure safe use



316 stainless steel centrifuge chamber is rust-free and easy to clean

Key Features of Quick-Flip Biocontainment Safety Lids



- **Quick-Flip Hinge Design**
  Our hinged lids do not need to be removed from the rotor. Just a quick flip gives you fast access to your samples
- **Low-Pressure Closing Clip**
  The simple low-pressure clip offers a secure closure with an audible "click" and visual cues, enhancing safety and replacing multi-turn screw caps or complex lever systems
- **Ambidextrous & Glove-Friendly**
  Designed for ease of use, our lids can be operated with either hand and are glove-friendly, ensuring seamless operation
- **Premium Polymer Construction**
  Made from Polyetherimide (PEI), our lids provide excellent chemical resistance, transparency, and durability
- **Certified Safety and Reliability**
  Independently tested and certified per IEC-61010 Section 2-020 Annex AA, ensuring top-level safety and performance

Choose our Quick-Flip biocontainment safety lids for innovative, safe, and durable lab solutions.

Specifications

Model	Maximum Capacity	Speed Range (rpm)	Max RCF(xg)	Speed Accuracy	Time Setting Range	Display	Noise Level dB(A)	Power Supply
LX-60T500-J	4*500 ml	500~6000	5353	±10rpm	1s~99h59m59s (1-second increment)	LED	≤65	AC220/50/60

Power(W)	Exterior Dimensions (W*D*H)(mm)	Lid Opening Height (mm)	Net Weight (kg)	Packing Dimensions (W*D*H)(mm)	Gross Weight (kg)	Certifications
700	478*624*365	840	60	560*752*562	75	CE

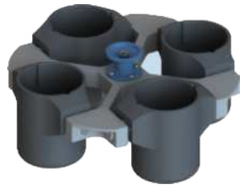
Benchtop Low-Speed Large-Capacity Centrifuge

Fixed-Angle Rotor



BE No.	BE12DA000	BE12D7000	BE12C8000	BE12D8000	BE12D9000	BE12DQ000
Type	Steel sleeve	Steel sleeve	Steel sleeve	Steel sleeve	Steel sleeve	Steel sleeve
Max Capacity	6*50 (15)ml	12*50 (15)ml	12*15ml	42*15ml	10*100ml	60*10ml
Max RCF (xg)	5353	4528	5353	4528	3260	2576
Max Speed (rpm)	6000	5000	6000	5000	4500	4000
Max Tubes Per Rotor	6 pcs(50ml) 6 pcs(15ml)	12 pcs(50ml) 12 pcs(15ml)	12	42	10	60
Tube						
Max Tube Capacity (ml)	50 (15)ml	50 (15)ml	15ml	15ml	100ml	10ml
Max Tube Dimensions (Ø x L mm)	29*118 17*121	29*118 17*121	17*121	17*121	41*120	15*105
Tube Type	Round/Conical bottom	Round/Conical bottom	Round/Conical bottom	Round/Conical bottom	Round bottom	Round bottom with attached snap cap

Swing-Out Rotor



Swing-out rotor with round buckets

Swing-Out Rotor Block



BE No.	BE12FK001
Max. RCF	3220xg
Max. speed	4000rpm

Round Bucket (Sets of 4)



BE No.	BE12G0000
Max Capacity	500ml
Bucket Type	Flat bottom



Swing-Out Rotor with Biocontainment Round Buckets

Swing-Out Rotor Block



BE No.	BE12FK001
Max. RCF	3220xg
Max. speed	4000rpm

Round Bucket& Lid (Sets of 4)





BE No.	BE12G8000	BE12J2004
Max Capacity	500ml	NA
Bucket Type	Flat bottom	NA

Adapter (Sets of 4) for BE12G0000,BE12G8000



BE No.	No Adapter Needed	BE12JP001	BE12FG001	BE12FF001	BE12JS001
Max Capacity	500ml	250ml	225ml	100ml	4*50ml
Tubes Per Adapter/Rotor	4	1/4	1/4	1/4	4/16
Tube					
Max Tube Dimensions (Ø x L mm)	80*136	62*123	60*136	38*120	29*118
Tube Type	Flat bottom	Flat bottom	Conical bottom	Round bottom	Conical bottom

Benchtop Low-Speed Large-Capacity Centrifuge

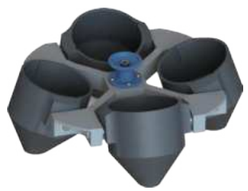
Adapter (Sets of 4)
for BE12G0000,BE12G8000






BE No.	BE12JR001	BE12JQ001	BE12JD002	BE12JE002
Max Capacity	10*15ml	14*10ml	19*5/7ml	30*1.5/2ml
Tubes Per Adapter/Rotor	10/40	14/56	19/76	30/120
Tube				
Maximum Tube Dimensions (Ø x L mm)	17*121	15*105	13*75/100	11*38
Tube Type	Conical bottom	Large blood collection tube	Small/Large blood collection tube	Round/Conical bottom

*Haier Biomedical also can provide 0.2ml adapter (sets of 24) (BE12J2003) , 0.5ml adapter (sets of 24) (BE12JN002) for 1.5/2ml tube rotor.



Swing-Out Rotor with Conical Buckets

Swing-Out Rotor Block



BE No.	BE12FK001
Max. RCF	3220xg
Max. speed	4000rpm

Conical Bucket (Sets of 4)



BE No.	BE12G1000
Max Capacity	500ml
Bucket Type	Conical bottom

Adapter (Sets of 4)
for BE12G1000



BE No.	No adapter needed	BE12JB002
Max Capacity	500ml	250ml
Tubes Per Adapter/Rotor	4	1/4
Tube		
Max Tube Dimensions (Ø x L mm)	96*150	60*165
Tube Type	Conical bottom	Conical bottom



Swing-Out Rotor with Square Buckets

Swing-Out Rotor Block



BE No.	BE12FK001
Max. RCF	3220xg
Max. speed	4000rpm

Square Bucket (Sets of 4)

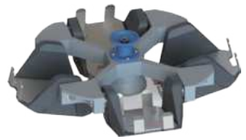


BE No.	BE12HA000
Max Capacity	500ml
Bucket Type	Flat bottom

Decap Adapter (Sets of 4)
for BE12HA000



BE No.	BE12JV001
Max Capacity	24*5/7ml
Tubes Per Adapter/Rotor	24/96
Tube	
Max Tube Dimensions (Ø x L mm)	13*75/100
Tube Type	Small/Large blood collection tube



Swing-Out Rotor with Plate Buckets

Swing-Out Rotor Block



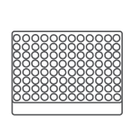
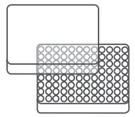
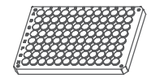
BE No.	BE12FK001
Max. RCF	3220xg
Max. speed	4000rpm

Plate Bucket (Sets of 4)



BE No.	BE12H5000
Max Capacity	1 plate
Bucket Type	Rectangular bottom

Plates for
BE12H5000

Plates per rotor	4	4	4
W*D*H (mm)	128*86*15	128*86*17.5	128*86*20
Plate Type	MTP (without lid)	MTP (with lid)	PCR plate 96-fold

Mini-Centrifuge

Scope of Application

This product is used in micro centrifugal scenarios (single tube capacity is less than or equal to 2ml)



LX-120T2Z / 50T2Z

Product Advantages



LX-120T2Z

LX-50T2Z

Quiet
Suspension with shock absorber reduces noise output

Small
Can be held in your hand

Convenient
Simple and fast operation

Safe
- Safety interlock lid with automatic shut-off if lid is open
- Anti vibration & absorption suction cup Splash and leak protection

Specifications

Model	LX-120T2Z	LX-50T2Z
Maximum Capacity	8*1.5/2 ml	8*1.5/2 ml
Max Speed (rpm)	12000	5000
Max RCF (xg)	7325	1270
Time Setting Range	10s-99m50s	-
Display	OLED	-
Noise (dB(A))	≤50	≤40
Power Supply (V/Hz)	100-240/50/60	100-240/50/60
Power (W)	35	25
Exterior Dimensions (W*D*H)(mm)	152*142*122	152*142*122
Net Weight (kg)	1.2	1.2
Packing Dimensions (W*D*H)(mm)	265*205*200	265*205*200
Gross Weight (kg)	3	3

LX-120T2Z Rotor List





Type	Fixed-Angle Rotor	Fixed-Angle Rotor
Max Capacity	8*1.5/2 ml	2*8*0.2 ml
Max RCF (xg)	7325	6225
Max Speed (rpm)	12000	12000
Tubes per Rotor	8	2
Tube		
Max Tube Capacity(ml)	1.5/2	0.2 8-strip PCR
Max Tube Dimension (Ø x L mm)	11*38	6*18
Tube Type	Round/Conical bottom	PCR

LX-50T2Z Rotor List





Type	Fixed-Angle Rotor	Fixed-Angle Rotor
Max Capacity	8*1.5/2 ml	2*8*0.2 ml
Max RCF (xg)	1270	1150
Max Speed (rpm)	5000	5000
Tubes per Rotor	8	2
Tube		
Max Tube Capacity (ml)	1.5/2	0.2 8-strip PCR
Max Tube Dimension (Ø x L mm)	11*38	6*18
Tube Type	Round/Conical bottom	PCR

Adapter(Sets of 24) for 1.5/2ml Fixed-Angle Rotor

BE No.	BE12J2003	BE12JN002
Max Capacity	0.2ml	0.5ml
Tube		
Max Tube Dimensions (Ø x L mm)	6.3*23	8*35
Tube Type	Conical bottom	Conical bottom

Centrifuge Consumables

Haier Biomedical manufactures and supplies a full compliment of premium quality centrifuge consumables suitable for a various applications and compatible with its range of centrifuges.

Centrifuge Bottle



Product Features

- Unique design for highly-effective two-way sealing
- Design increases max centrifugal limits
- Temperature range: -80°C-120°C
- Clear scale for accurate and convenient data reading
- Sterile and RNase, DNase, human DNA and Pyrogen Free

CAT.NO.	Description	Max. RCF (xg)	Packing Specification
321007	225ml centrifuge bottle, sterile	6000	6pcs/bag, 6bags/case
321008	250ml centrifuge bottle, sterile	6000	6pcs/bag, 17bags/case
321009	500ml centrifuge bottle, sterile	6000	6pcs/bag, 6bags/case

Centrifuge Tubes



Product Features

- Tube and lid made of medical-grade polypropylene (PP) USP Class VI standards
- 15ml/50ml conical bottom design, high clarity, clear black line scale and pre-set white writing area
- The double-threaded tube cap is easy to grip for single-handed operation and reliable sealing
- Flat cap design; the cap top can be used as a sample information marking area
- RNase and DNase Free
- Gamma sterilized, sterile and pyrogen-free
- Various packaging options, including sterile racked packing, sterile bag-packed bulk packing, and non-sterile packing.



A large white frosted writing area



Flat and frosted tube cap facilitates marking



Clear printed scale

CAT.NO.	Description	Max. RCF (xg)	Packing Specification
311005	15ml centrifuge tube, sterile	12000	25pcs/bag, 20bags/box
311006	50ml centrifuge tube, sterile	12000	25pcs/bag, 20bags/box

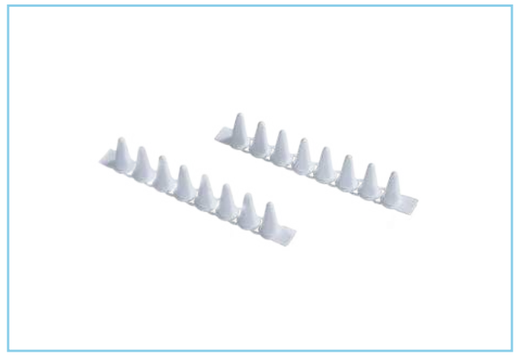
Microcentrifuge Tubes

Haier Biomedical's range of PCR centrifuge consumables include single tubes, 8-tube strips and different 96 well plate options.

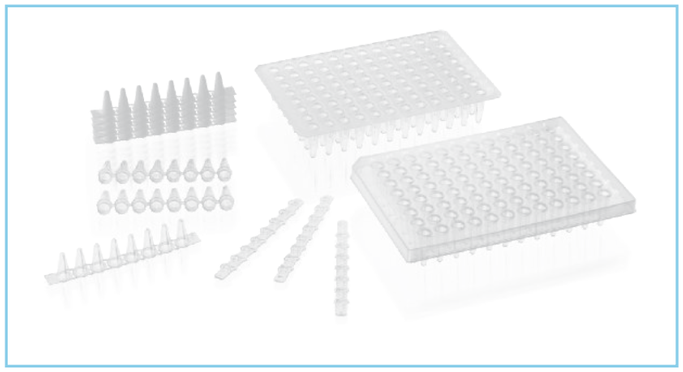












Product Features

- Made of USP Class VI, medical-grade polypropylene (PP), free from release agent, plasticizer, bacteriostatic agent, and heavy metals
- High-clarity tube for convenient sample observation
- The unique cap design with flat surface for writing, delivers enhanced sealing and enables single-handed operation
- Temperature range: -80°C~120°C



Ultra-high clarity makes samples clearly visible
Universal design suitable for all major brands



Frosted writing area



Snap-on safety cap to ensure safe centrifugation to maximize operational safety during centrifugation

CAT.NO.	Description	Max. RCF (xg)	Packing Specification
311001	0.6ml microcentrifuge tube, non-sterile	20000	1000pcs/box, 10box/ctn
311002	1.5ml microcentrifuge tube, non-sterile	20000	500/box, 10boxes/case
311004	2.0ml microcentrifuge tube, non-sterile	20000	500/box, 10boxes/case

PCR Tube Strips



Product Features

- Made from pure polypropylene, it has thin and uniform wall for optimal heat transfer
- The easy-to-open tube and tube lid fasten securely to prevent evaporation and leakage
- RNase, DNase, human DNA and Pyrogen Free
- Suitable for the mainstream PCR and real-time PCR instruments





CAT.NO.	Description	Unit Quantity	Packing Specification
211001	0.2ml PCR single tube, thin-wall, flat cover	10000	500pcs/bag, 2bags/box, 10boxes/case
222002	0.1ml PCR 8-strip tube (with flat cover)	1250	125sets/bag, 10bags/case
222003	0.1ml PCR 8-strip tube (with flat cover), white	1250	125sets/bag, 10bags/case
292004	0.1ml PCR 8-strip tube--type B (with flat cover)	1250	125sets/bag, 10bags/case
292005	0.1ml PCR 8-strip tube--type B (with flat cover), white	1250	125sets/bag, 10bags/case
292006	0.2ml PCR 8-strip tube--type B (with flat cover)	1250	125sets/bag, 10bags/case
292007	0.2ml PCR 8-strip tube--type B (with flat cover), white	1250	125sets/bag, 10bags/case
222008	0.2ml PCR 8-strip tube (with flat cover)	1250	125strips/bag, 10bags/case
272009	0.2ml PCR 8-strip tube (with convex cover)	1250	125sets/bag, 10bags/case

PCR 96-Well Plates



Product Features

- High-quality polypropylene, manufactured in accordance with high quality standards to produce a reliable plate, delivering excellent uniformity across experiments.
- With a maximum volume of 0.3ml, it is suitable for 0.2ml PCR instruments
- The thin wall of the tube ensures uniform heat transfer and superior light transmittance
- The whole surface of the plate is smooth, firm, and resists deformation
- RNase, DNase, human DNA and Pyrogen Free



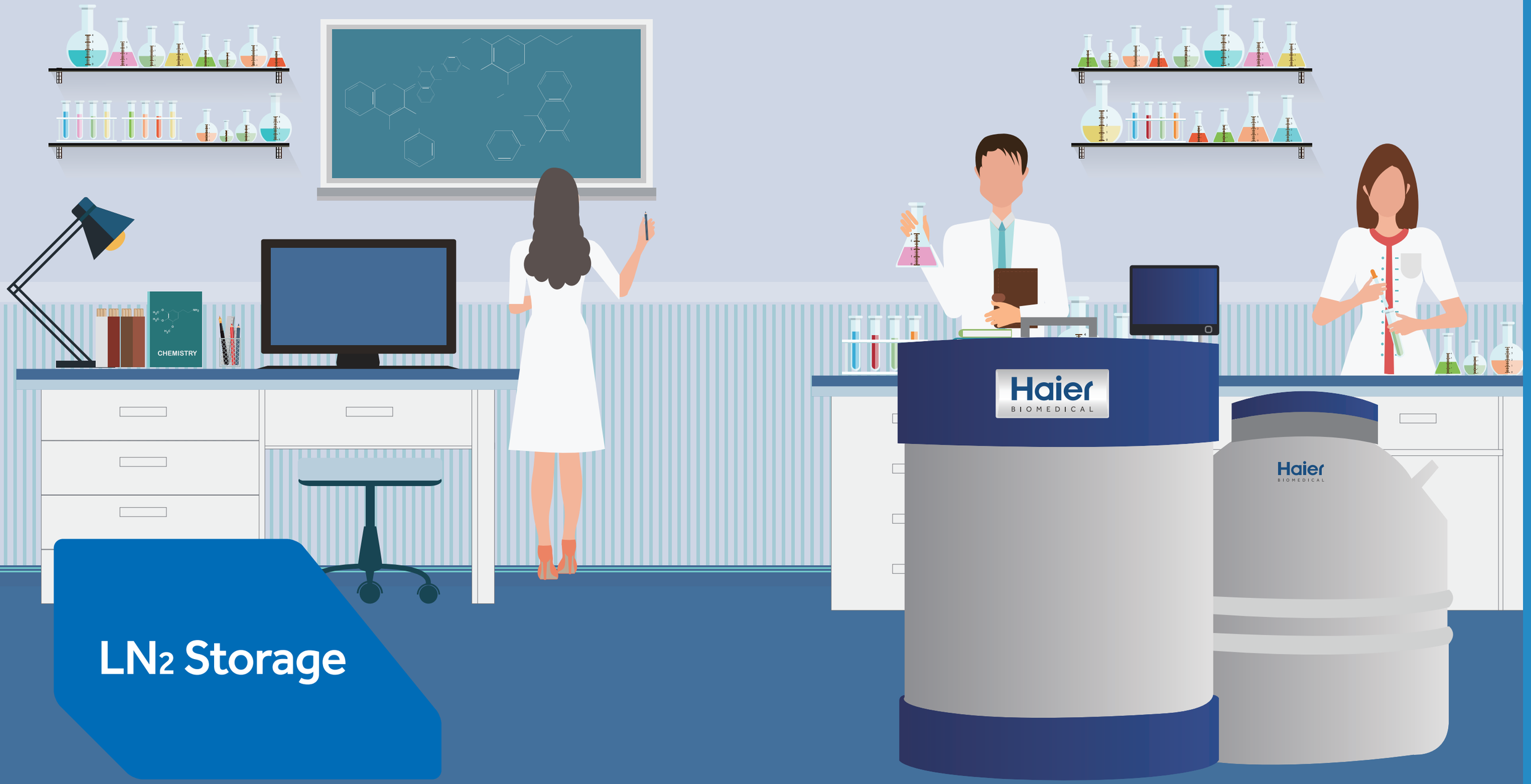
Clear and easy to read and easy to operate and identify



Prominent open profile reduces the risk of cross contamination

CAT.NO.	Description	Unit Quantity	Packing Specification
232024	0.2ml 96-well PCR plate, no skirt edge	50	10pcs/box, 5boxes/case
242025	0.2ml 96-well PCR plate, half skirt edge	50	10pcs/box, 5boxes/case
242026	0.2ml 96-well PCR plate, half skirt edge, high-temperature-resistant and anti-static	50	10pcs/box, 5boxes/case
232029	0.1ml 96-well PCR plate, no skirt edge	50	10pcs/box, 5boxes/case
242030	0.1ml 96-well PCR plate, half skirt edge	50	10pcs/box, 5boxes/case
242031	0.1ml 96-well PCR plate, half skirt edge, high-temperature-resistant and anti-static	50	10pcs/box, 5boxes/case
252032	0.1ml 96-well PCR plate, full skirt edge	50	10pcs/box, 5boxes/case
252035	0.1ml 96-well PCR plate with full skirt, H1 cutting angle, dual material (plate color random)	50	10pcs/box, 5boxes/case
252033	0.1ml 96-well PCR plate, full skirt edge, high-temperature-resistant and anti-static	50	10pcs/box, 5boxes/case

Haier Biomedical
Intelligent Protection of Life Science



LN_2 Storage

Biobank Series for Large Scale Storage

Biobank series for large scale storage is designed to ensure the maximum storage capacity with the minimum consumption of liquid nitrogen to lower the overall cost of operation .

- LN_2 Splash Proof
- Data Logging
- Hot Gas Bypass
- 5 Years Vacuum Warranty
- From 13,000 to 94,875 Cryovials
- IoT Enabled
- Vapour Phase Storage
- Lockable Lid
- Liquid Phase Storage
- One-touch Defogging
- Cryosmart Control System



Key Features

- Massive capacity between 13,000 to 94,875×2ml Vials
- Vapour phase storage is the only guaranteed method to prevent cross-contamination
- Vapour phase storage at -190°C
- 5-Year vacuum warranty
- One-touch defogging for easier access
- LN_2 splashproof ensures a safer operation
- Suitable for wide variety of sample storage

Product Advantages

Optimal Use of Storage Space

Racks are stored on the rotating tray with an appropriate distance from the wall of the chamber. Liquid nitrogen or supercooled nitrogen vapor is filled in the space between the tray and the wall to maintain temperature uniformity. Storage space is equally divided into four or six fan-shaped storage areas which are clearly labelled. Each storage room is easily rotated to the opening of the tank for convenient sample access.



Designed for Both Liquid and Vapor Phase Storages

Each model from the Biobank series for large scale storage is designed for both liquid and vapor phase storage. For the vapor phase storage operation process, samples are located away from the liquid nitrogen at a uniform temperature close to that of liquid nitrogen.

Advanced Vacuum Technology and Superinsulation Technology

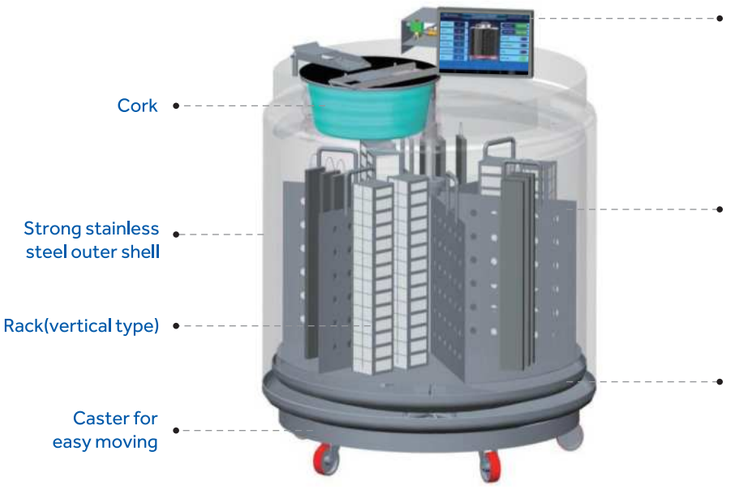
Haier Biomedical's Liquid Nitrogen Storage System Biobank series for large scale storage applies advanced vacuum technology and superinsulation technology to ensure storage safety and temperature uniformity while reducing the consumption of liquid nitrogen. The temperature difference of the entire storage area does not exceed 10°C, even during the vapor phase storage process, the temperature near the top of the shelf is as low as -190°C.



Cryosmart Level Monitoring System ITC-800N201(N4.1)

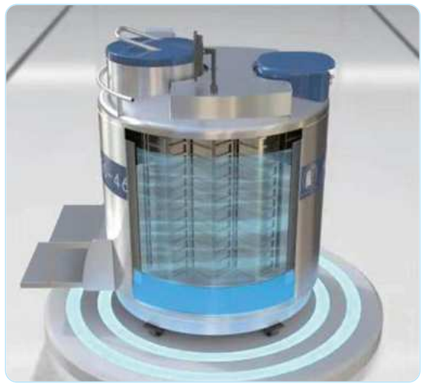
Haier Biomedical's Liquid Nitrogen Storage System Biobank series for large scale storage feature the Cryosmart system for complete monitoring and control. High-precision temperature and liquid level sensors are used to ensure accuracy. All data and samples are protected by a secure access control system.

Biobank Series for Large Scale Storage

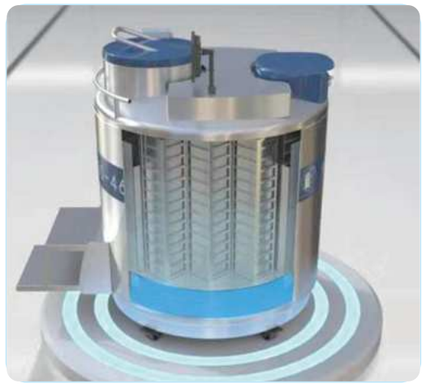


Liquid and Gas Phase

Liquid Phase



Gas Phase



Top of the Container



Liquid Feed System



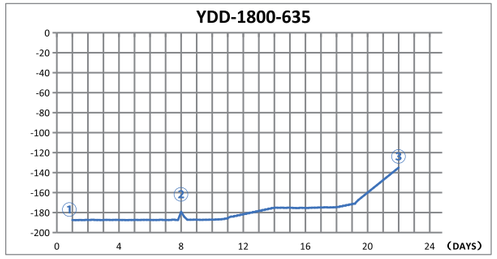
The unique design can reduce the amount of water vapor solidification on the outer surface of the neck, the container is reinforced at liquid nitrogen temperature to extend the physical service life of the container.



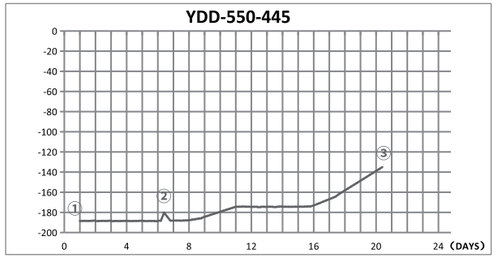
The stainless steel liquid nitrogen biological container can be connected to self-pressurized supply tank, ideally suited for one or two sample storage containers.



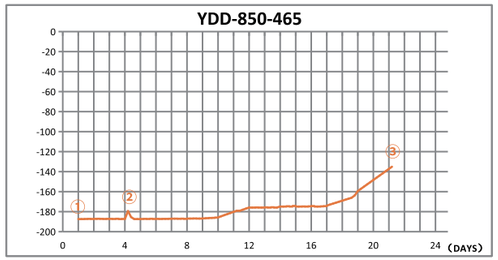
Temperature Test Graph



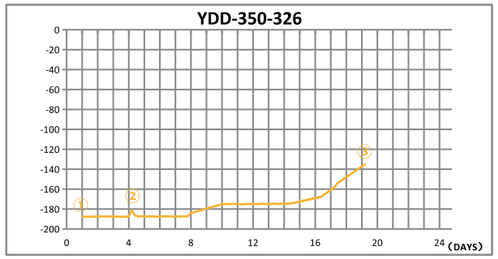
① Precooling stage when freezer filled to high level
② Lid open test, -179.2°C max
③ With no liquid nitrogen supply, the temperature maintained below -135°C for 22 days



① Precooling stage when freezer filled to high level
② Lid open test, -180.2°C max
③ With no liquid nitrogen supply, the temperature maintained below -135°C for 20 days



① Precooling stage when freezer filled to high level
② Lid open test, -179.4°C max
③ With no liquid nitrogen supply, the temperature maintained below -135°C for 21 days



① Precooling stage when freezer filled to high level
② Lid open test, -181.4°C max
③ With no liquid nitrogen supply, the temperature maintained below -135°C for 19 days

Temp Test indicates typical performance of Haier Biobank freezer with factory recommended level settings. Actual performance may vary with atmospheric conditions and usage.

Biobank Series for Large Scale Storage



Technical Parameters

Model	YDD-350-326/PM	YDD-370-326/PM	YDD-450-326/PT	YDD-550-445/PM	YDD-750-445/PM
2ml Volume	13K	16K	21K	27K	38K
Maximum Storage Capacity					
2 ml Vials (Internal Thread)	13000	15600	21000	27000	37800
Freeze Rack (100 wells)	12	12	12	24	24
Freeze Rack (25 wells)	4	4	8	12	12
Layers of each Rack	10	12	15	10	14
5 ml Vials (Internal Thread)	5360	6432	10548	11220	17952
Freeze Rack (81 wells)	12	12	12	24	24
Freeze Rack (25 wells)	4	4	8	12	12
Layers of each Rack	5	6	9	5	8
Performance					
Volume of LN_2 (L)	350	370	480	587	783
Volume of LN_2 under the Tray (L)	55	55	55	80	80
Dimensions					
Inside Neck Diameter (mm)	326	326	326	445	445
Effective Internal Height (mm)	600	704	900	600	828
Height (mm)	1263	1370	1570	1266	1486
Operating Height (mm)	1263	1096	1060	1266	995
Outside Diameter (mm)	875	875	875	1104	1104
Door Width Requirement (mm)	895	895	895	1124	1124
Empty Weight (kg)	245	283	308	328	372
Full Weight (kg)	528	582	696	802	1005
Shipping Weight (kg)	384	536	501	520	616

Blood Bag Capacity

Model	YDD-350-326/PM			YDD-370-326/PM			YDD-450-326/PT			YDD-550-445/PM			YDD-750-445/PM		
Bag Specifications	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks
25 ml (791 OS/U)	1176	6	196	1372	7	196	1602	9	178	2208	6	368	2944	8	368
50 ml (4R9951)	720	6	120	840	7	120	990	9	110	1392	6	232	1856	8	232
250 ml (DF-200)	264	3	88	352	4	88	450	5	90	516	3	172	860	5	172
500 ml (4R9953)	168	3	56	168	3	56	270	5	54	336	3	112	560	5	112
500 ml (4R9955)	144	3	48	192	4	48	370	5	74	288	3	96	480	5	96
700 ml (DF - 700)	96	3	32	96	3	32	260	5	52	204	3	68	272	4	68



Technical Parameters

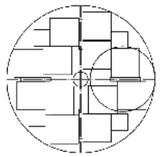
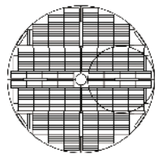
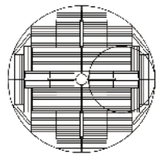
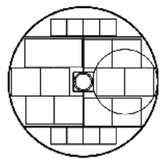
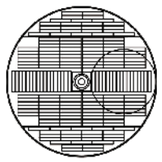
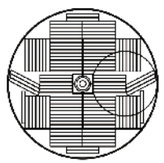
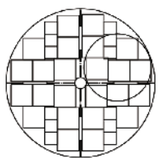
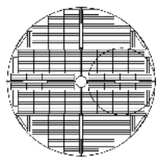
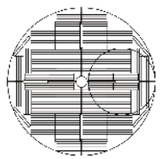
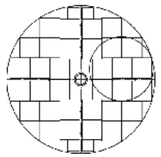
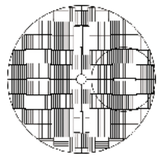
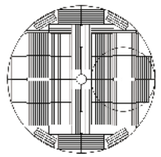
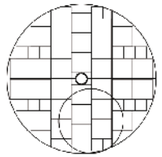
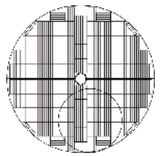
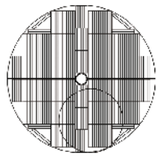
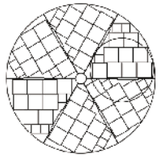
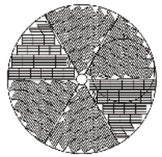
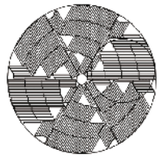
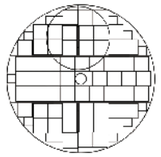
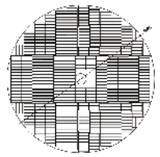
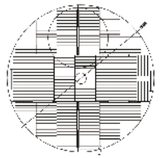
Model	YDD-850-465/PM	YDD-1000-465/PT	YDD-1300-635/PM	YDD-1600-635/PM	YDD-1800-635/PT
2ml Volume	43K	51K	59K	76K	95K
Maximum Storage Capacity					
2 ml Vials (Internal Thread)	42900	51000	58500	76050	94875
Freeze Rack (100 wells)	32	30	54	54	60
Freeze Rack (25 wells)	4	16	18	18	13
Layers of each Rack	13	15	10	13	15
5 ml Vials (Internal Thread)	18844	25470	28944	33768	46665
Freeze Rack (81 wells)	32	30	54	54	60
Freeze Rack (25 wells)	4	16	18	18	13
Layers of each Rack	7	9	6	7	9
Performance					
Volume of LN_2 (L)	890	1014	1340	1660	1880
Volume of LN_2 under the Tray (L)	135	135	265	300	320
Dimensions					
Inside Neck Diameter (mm)	465	465	635	635	635
Effective Internal Height (mm)	773	900	620	791	900
Height (mm)	1499	1619	1341	1534	1661
Operating Height (mm)	980	1090	997	967	1097
Outside Diameter (mm)	1190	1190	1565	1565	1565
Door Width Requirement (mm)	1210	1210	1585	1585	1585
Empty Weight (kg)	441	495	851	914	985
Full Weight (kg)	1160	1314	1934	2255	2504
Shipping Weight (kg)	702	926	1168	1426	1520

Blood Bag Capacity

	YDD-850-465/PM			YDD-1000-465/PT			YDD-1300-635/PM			YDD-1600-635/PM			YDD-1800-635/PT		
Bag Specifications	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks
25 ml (791 OS/U)	2996	7	428	3852	9	428	4536	6	756	5292	7	756	7218	9	802
50 ml (4R9951)	1904	7	272	2394	9	266	2808	6	468	3276	7	468	4446	9	494
250 ml (DF-200)	832	4	208	1020	5	204	1062	3	354	1770	5	354	1940	5	388
500 ml (4R9953)	544	4	136	670	5	134	666	3	222	888	4	222	1290	5	258
500 ml (4R9955)	464	4	116	520	5	104	594	3	198	792	4	198	1090	5	218
700 ml (DF - 700)	320	4	80	400	5	80	396	3	132	528	4	132	775	5	155

Biobank Series for Large Scale Storage

Racks (vertical type) and Blood bag Frame

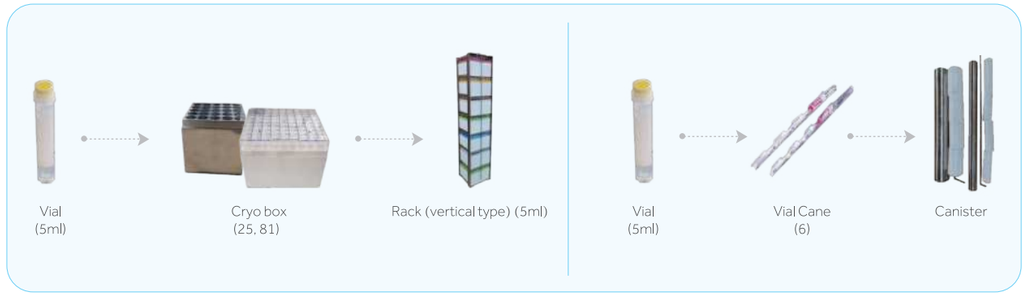
	Racks (vertical type)	25 ml Blood bag Frame	50 ml Blood bag frame
YDD-350-326/PM YDD-370-326/PM			
YDD-450-326/PT			
YDD-550-445/PM YDD-750-445/PM			
YDD-850-465/PM			
YDD-1000-465/PT			
YDD-1300-635/PM YDD-1600-635/PM			
YDD-1800-635/PT			

Biological Sample Bank-YDD Series

Storage Example of 2ml Internally Threaded Vial



Storage Example of Tall 5ml Cryovials



Blood Bag Storage Example



Straw Storage Example



Biobank Series for Large Scale Storage

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
YDD-350-326/ PM (13K)	Biobank freezer (smart type)	YDD-350-326/PM	YDD-350-326 /PM-K82J2H	Includes vacuum isolated hose (GRG-DN10/2.0), 4pcs of 10-tier rack (5*5), 12 pcs of 10-tier rack (9*9), 40pcs of cryo boxes for 2ml vial (5*5), 120pcs of cryo boxes for 2ml vial (9*9), 1 set of cryosmart (level monitoring system)
	Biobank freezer	YDD-350-326/PM	YDD-350-326/PM-W	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	FDCJ-25-10	FDCJ-25-10	Used for storing 5*5 cryoboxes (2ml), ten layers in total, suitable for YDD-350/550/1300 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-10	FDCJ-81-10	Used for storing 9*9 cryoboxes (2ml), Ten layers in total, Suitable for YDD-350/550/1300 (excluding cryoboxes)
	Plastic cryo box	FH-25	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N-201	ITC-800N-201	Suitable for all capacitive measurement of gas phase liquid nitrogen containers, including the liquid inlet system and excluding the wireless data transmission module
YDD-370-326/ PM (16K)	Biobank freezer (smart type)	YDD-370-326/PM	YDD-370-326 /PM-K82J2H	Includes vacuum isolated hose (GRG-DN10/2.0), 4pcs of 12-tier rack (5*5), 12 pcs of 12-tier rack (9*9), 48pcs of cryo boxes for 2ml vial (5*5), 144pcs of cryo boxes for 2ml vial (9*9), 1 set of cryosmart (level monitoring system)
	Biobank freezer	YDD-370-326/PM	YDD-370-326/PM-W	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	FDCJ-25-12	FDCJ-25-12	Used for storing 5*5 cryoboxes (2ml), Twelve layers in total, suitable for YDD-370 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-12	FDCJ-81-12	Used for storing 9*9 cryoboxes (2ml), Twelve layers in total, suitable for YDD-370 (excluding cryoboxes)
	Plastic cryo box	FH-25	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N-201	ITC-800N-201	Suitable for all capacitive measurement of gas phase liquid nitrogen containers, including the liquid inlet system and excluding the wireless data transmission module
YDD-450-326/ PT (21K)	Biobank freezer (smart type)	YDD-450-326/PT	YDD-450-326 /PT-K82J2H	Includes vacuum isolated hose (GRG-DN10/2.0), 8pcs of 15-tier rack (5*5), 12 pcs of 15-tier rack (9*9), 120pcs of cryo boxes for 2ml vial (5*5), 180pcs of cryo boxes for 2ml vial (9*9), 1 set of cryosmart (level monitoring system)
	Biobank freezer	YDD-450-326/PT	YDD-450-326/PT-W	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	FDCJ-25-15	FDCJ-25-15	Used for storing 5*5 cryoboxes (2ml), Fifteen layers in total, suitable for YDD-450/1000/1800 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-15	FDCJ-81-15	Used for storing 9*9 cryoboxes (2ml), Fifteen layers in total, suitable for YDD-450/1000/1800 (excluding cryoboxes)
	Plastic cryo box	FH-25	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	FH-81	Used for storing1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N-201	ITC-800N-201	Suitable for all capacitive measurement of gas phase liquid nitrogen containers, including the liquid inlet system and excluding the wireless data transmission module

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
YDD-550-445/ PM (27K)	Biobank freezer (smart type)	YDD-550-445/PM	YDD-550-445 /PM-K82J2H	Includes vacuum isolated hose (GRG-DN10/2.0), 12pcs of 10-tier rack (5*5), 24 pcs of 10-tier rack (9*9), 120pcs of cryo boxes for 2ml vial (5*5), 240pcs of cryo boxes for 2ml vial (9*9), 1 set of cryosmart (level monitoring system)
	Biobank freezer	YDD-550-445/PM	YDD-550-445/PM-W	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	FDCJ-25-10	FDCJ-25-10	Used for storing 5*5 cryoboxes (2ml), ten layers in total, suitable for YDD-350/550/1300 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-10	FDCJ-81-10	Used for storing 9*9 cryoboxes (2ml), Ten layers in total, Suitable for YDD-350/550/1300 (excluding cryoboxes)
	Plastic cryo box	FH-25	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	FH-81	Used for storing1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	FH-100	Used for storing 1.8ml/2ml vial (interally threaded,100 holes)
	Cryosmart level monitoring system	ITC-800N-201	ITC-800N-201	Suitable for all capacitive measurement of gas phase liquid nitrogen containers, including the liquid inlet system and excluding the wireless data transmission module
YDD-750-445/PM (38K)	Biobank freezer (smart type)	YDD-750-445/PM	YDD-750-445 /PM-K82J2H	Includes vacuum isolated hose (GRG-DN10/2.0), 12pcs of 14-tier rack (5*5), 24 pcs of 14-tier rack (9*9), 168pcs of cryo boxes for 2ml vial (5*5), 336pcs of cryo boxes for 2ml vial (9*9), 1 set of cryosmart (level monitoring system)
	Biobank freezer	YDD-750-445/PM	YDD-750-445/PM-W	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	FDCJ-25-14	FDCJ-25-14	Used for storing 5*5 cryoboxes (2ml), Fourteen layers in total, suitable for YDD-450/750 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-14	FDCJ-81-14	Used for storing 9*9 cryoboxes (2ml), Fourteen layers in total, suitable for YDD-450/750 (excluding cryoboxes)
	Plastic cryo box	FH-25	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	FH-81	Used for storing1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N-201	ITC-800N-201	Suitable for all capacitive measurement of gas phase liquid nitrogen containers, including the liquid inlet system and excluding the wireless data transmission module
YDD-850-465/PM (43K)	Biobank freezer (Smart type)	YDD-850-465/PM	YDD-850-465 /PM-K82J2H	Includes vacuum isolated hose (GRG-DN10/2.0), 4 pcs of 13-tier rack (5*5), 32 pcs of 13-tier rack (9*9), 52pcs of cryo boxes (5*5) for 2ml vial, 416pcs of cryo boxes (9*9) for 2ml vial, 1 set of cryosmart (level monitoring system)
	Biobank freezer	YDD-850-465/PM	YDD-850-465/PM-W	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	FDCJ-25-13	FDCJ-25-13	Used for storing 5*5 cryoboxes (2ml), Thirteen layers in total, suitable for YDD-850/1600 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-13	FDCJ-81-13	Used for storing 9*9 cryoboxes (2ml), Thirteen layers in total, suitable for YDD-850/1600 (excluding cryoboxes)
	Plastic cryo box	FH-25	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	FH-81	Used for storing1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	FH-100	Used for storing 1.8ml/2ml vial (interally threaded,100 holes)
	Cryosmart level monitoring system	ITC-800N-201	ITC-800N-201	Suitable for all capacitive measurement of gas phase liquid nitrogen containers, including the liquid inlet system and excluding the wireless data transmission module

Biobank Series for Large Scale Storage

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
YDD-1000-465/PT (51K)	Biobank freezer (Smart type)	YDD-1000-465/PT	YDD-1000-465 /PT-K82J2H	Includes vacuum isolated hose (GRG-DN10/2.0), 16 pcs of 15-tier rack (5*5), 30 pcs of 15-tier rack (9*9), 240pcs of cryo boxes (5*5) for 2ml vial, 450pcs of cryo boxes (9*9) for 2ml vial, 1 set of cryosmart (level monitoring system)
	Biobank freezer	YDD-1000-465/PT	YDD-1000-465/PT-W	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	FDCJ-25-15	FDCJ-25-15	Used for storing 5*5 cryoboxes (2ml), Fifteen layers in total, suitable for YDD-450/1000/1800 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-15	FDCJ-81-15	Used for storing 9*9 cryoboxes (2ml), Fifteen layers in total, suitable for YDD-450/1000/1800 (excluding cryoboxes)
	Plastic cryo box	FH-25	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N-201	ITC-800N-201	Suitable for all capacitive measurement of gas phase liquid nitrogen containers, including the liquid inlet system and excluding the wireless data transmission module
YDD-1300-635/ PM (59K)	Biobank freezer (Smart type)	YDD-1300-635/PM	YDD-1300-635 /PM-K82J2H	Includes vacuum isolated hose (GRG-DN10/2.0), 120 pcs of round rack, 240 pcs of ϕ 97mm canister (2 goblets included for each), 1 set of cryosmart (level monitoring system)
	Biobank freezer	YDD-1300-635/PM	YDD-1300-635 /PM-W	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	FDCJ-25-10	FDCJ-25-10	Used for storing 5*5 cryoboxes (2ml), ten layers in total, suitable for YDD-350/550/1300 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-10	FDCJ-81-10	Used for storing 9*9 cryoboxes (2ml), Ten layers in total, Suitable for YDD-350/550/1300 (excluding cryoboxes)
	Plastic cryo box	FH-25	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N-201	ITC-800N-201	Suitable for all capacitive measurement of gas phase liquid nitrogen containers, including the liquid inlet system and excluding the wireless data transmission module
YDD-1600-635/ PM (76K)	Biobank freezer (Smart type)	YDD-1600-635/PM	YDD-1600-635 /PM-K82J2H	Includes vacuum isolated hose (GRG-DN10/2.0), 468pcs of 7-tier blood bag rack for 50ml, 3276pcs of 50ml blood bag cryo box (4R9951), 1 set of cryosmart (level monitoring system)
	Biobank freezer	YDD-1600-635/PM	YDD-1600-635 /PM-W	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	FDCJ-25-13	FDCJ-25-13	Used for storing 5*5 cryoboxes (2ml), Thirteen layers in total, suitable for YDD-850/1600 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-13	FDCJ-81-13	Used for storing 9*9 cryoboxes (2ml), Thirteen layers in total, suitable for YDD-850/1600 (excluding cryoboxes)
	Plastic cryo box	FH-25	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N-201	ITC-800N-201	Suitable for all capacitive measurement of gas phase liquid nitrogen containers, including the liquid inlet system and excluding the wireless data transmission module

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
YDD-1800-635/ PT (95K)	Biobank freezer (Smart type)	YDD-1800-635/PT	YDD-1800-635 /PT-K82J2H	Includes vacuum isolated hose (GRG-DN10/2.0), 13 pcs of 15-tier rack (5*5), 60 pcs of 15-tier rack (9*9), 195pcs of cryo boxes (5*5) for 2ml vial, 900pcs of cryo boxes (9*9) for 2ml vial, 1 set of cryosmart (level monitoring system)
	Biobank freezer	YDD-1800-635/PT	YDD-1800-635/PT-W	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	FDCJ-25-15	FDCJ-25-15	Used for storing 5*5 cryoboxes (2ml), Fifteen layers in total, suitable for YDD-450/1000/1800 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-15	FDCJ-81-15	Used for storing 9*9 cryoboxes (2ml), Fifteen layers in total, suitable for YDD-450/1000/1800 (excluding cryoboxes)
	Plastic cryo box	FH-25	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N-201	ITC-800N-201	Suitable for all capacitive measurement of gas phase liquid nitrogen containers, including the liquid inlet system and excluding the wireless data transmission module
Other Racks	Blood bag frame	DCJ-250-3H	DCJ-250-3H	3 layers frame used for storing 250ml blood bag, each layer storing one blood bag, with blood bag cassettes included. Suitable for YDD-350/550/1300
	Blood bag frame	DCJ-250-4H	DCJ-250-4H	4 layers frame used for storing 250ml blood bag, each layer storing one blood bag, with blood bag cassettes included. Suitable for YDD-850
	Blood bag frame	DCJ-250-5H	DCJ-250-5H	5 layers frame used for storing 250ml blood bag, each layer storing one blood bag, with blood bag cassettes included. Suitable for YDD-450/750/1000/1800
	Blood bag frame	DCJ-25-6H	DCJ-25-6H	6 layers frame used for storing 25ml blood bag, each layer storing one blood bag, with blood bag cassettes included. suitable for YDD-350/550/1300
	Blood bag frame	DCJ-25-7H	DCJ-25-7H	7 layers frame used for storing 25ml blood bag, each layer storing one blood bag, with blood bag cassettes included. suitable for YDD-850/1600
	Blood bag frame	DCJ-25-8H	DCJ-25-8H	8 layers frame used for storing 25ml blood bag, each layer storing one blood bag, with blood bag cassettes included. suitable for YDD-450/750
	Blood bag frame	DCJ-25-9H	DCJ-25-9H	9 layers frame used for storing 25ml blood bag, each layer storing one blood bag, with blood bag cassettes included. suitable for YDD-1000/1800
	Blood bag frame	DCJ-50-6H	DCJ-50-6H	6 layers frame used for storing 50ml blood bag, each layer storing one blood bag, with blood bag cassettes included. suitable for YDD-350/550/1300
	Blood bag frame	DCJ-50-7H	DCJ-50-7H	7 layers frame used for storing 50ml blood bag, each layer storing one blood bag, with blood bag cassettes included. suitable for YDD-850/1600
	Blood bag frame	DCJ-50-8H	DCJ-50-8H	8 layers frame used for storing 50ml blood bag, each layer storing one blood bag, with blood bag cassettes included. suitable for YDD-450/750
	Blood bag frame	DCJ-50-9H	DCJ-50-9H	9 layers frame used for storing 50ml blood bag, each layer storing one blood bag, with blood bag cassettes included. suitable for YDD-1000/1800
	Rack (vertical type)	FDCJ-25-5/5.0	FDCJ-25-5/5.0	Used for storing 5*5 cryoboxes (5ml), five layers in total, suitable for YDD-350/550/1300 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-25-7/5.0	FDCJ-25-7/5.0	Used for storing 5*5 cryoboxes (5ml), seven layers in total, suitable for YDD-450/750/850/1600 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-25-9/5.0	FDCJ-25-9/5.0	Used for storing 5*5 cryoboxes (5ml), nine layers in total, suitable for YDD-1000/1800 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-5/5.0	FDCJ-81-5/5.0	Used for storing 9*9 cryoboxes (5ml), Five layers in total, suitable for YDD-350/550 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-6/5.0	FDCJ-81-6/5.0	Used for storing 9*9 cryo boxes (5ml), 7 layers in total, suitable for YDD-370/1300 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-7/5.0	FDCJ-81-7/5.0	Used for storing 9*9 cryoboxes (5ml), Seven layers in total, suitable for YDD-850/1600 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-9/5.0	FDCJ-81-9/5.0	Used for storing 9*9 cryoboxes (5ml), nine layers in total, suitable for YDD-450/750/1000/1800 (excluding cryoboxes)
	Rack (vertical type)	XDCJ-8-12	XDCJ-8-12	Used for storing 8 holes aluminium cryoboxes (2ml), Twelve layers in total, with aluminium cryoboxes included. suitable for YDD-450/750/850/1600
	Rack (vertical type)	XDCJ-8-9	XDCJ-8-9	Used for storing 8 holes aluminium cryoboxes (2ml), Nine layers in total, with aluminium cryoboxes included. suitable for YDD-350/550/1300
	Round Rack	YDCJ-97-2	YDCJ-97-2	With 2 stainless steel canisters (φ97/276mm), 4 plastic goblets SNT-97 and 2 pick up lifter for goblets in total, the storage capacity for 0.5ml straw is 3016, suitable for YDD-350\YDD-550\YDD-1300

CryoBio Biobank Series Liquid Nitrogen Container

Innovative design with advanced CryoSmart Pro control system for optimal sample security.It is ideal storage equipment for storing cord blood,tissue cells, biomaterials and so on to keep the activity of cell samples.



CryoBio 13



CryoBio 43

•Ten-inch LCD touch screen

10-inch LCD touch screen, easy to operate. The storage life of charts and digital data records is up to 5 years.

•Safe and secure

Cryosmart Level Monitoring System ZJY-800N Pro, which supports fingerprint and NFC access,providing multiple safeguards for sample safety.

•Innovative frost-free design

Unique exhaust structure to avoid frost on the neck. Brand-new drainage structure to avoid internal water accumulation.

•Auto-fill function

Manual and automatic liquid nitrogen filling modes available. With hot gas bypass function, the unit effectively reduces the temperature fluctuation in the tank when liquid nitrogen is filled, improving sample security.

Ergonomic Design

Designed for both liquid and vapor phase storages

Vapour phase storage can reach -190°C

Real-time run monitoring for sample protection

Real-time level, temperature monitoring
Remote alarm can also be made through APP, SMS, email, etc

User-friendly design

Universal casters, easy to move, and equipped with brakes
The newly designed one-button pedal (CryoBio 43) and hydraulic opening cover make it easier to pick and place samples



Product Parameters

Model	2ml Vials (Internal Thread)	Freeze Rack (100 Wells)	Freeze Rack (25 Wells)	Layers of Each Rack	5ml Vials (Internal Thread)	Freeze Rack (81 Wells)	Freeze Rack (25 Wells)	Layers of Each Rack	Volume of LN_2 (L)
CryoBio 13	13000	12	4	10	5360	12	4	5	350

Volume of LN_2 Under the tray (L)	Operating Height (mm)	Usable Internal Height (mm)	Inside Neck Diameter (mm)	Height (mm)	Outside Diameter (mm)	Door Width Requirements (mm)	Empty Weight (kg)	Full Weight (kg)
55	990	600	326	1505	910	930	269	552

Model	1.2ml/ 1.8ml/2ml Vials (Internal Thread)	Freeze Rack (100 Wells)	Freeze Rack (25 Wells)	Layers of Each Rack	Volume of LN_2 (L)	Volume of LN_2 Under the Tray (L)
CryoBio 43	42900	32	4	13	890	135

Operating Height (mm)	Usable Internal Height (mm)	Inside Neck Diameter (mm)	Height (mm)	Outside Diameter (mm)	Empty Weight (kg)	Full Weight (kg)	Door Width Requirements (mm)
1000	773	465	1810	1240	471	1190	1260

Blood Bag Capacity

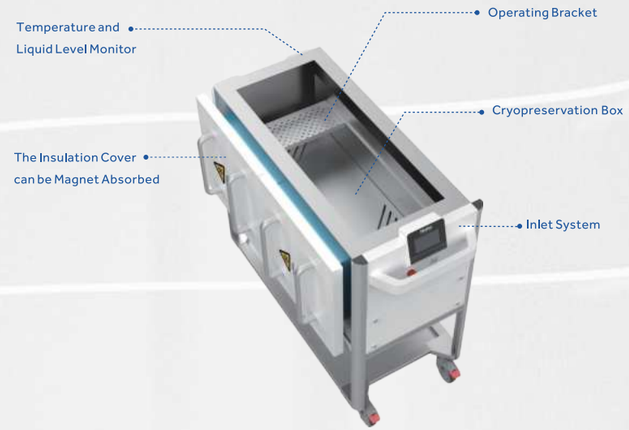
Model	CryoBio 13			CryoBio 43		
Bag Specifications	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks
25ml (791 OS/U)	1176	6	196	2944	8	368
50ml (4R9951)	720	6	120	1856	8	232
250ml (4R9953)	264	3	88	860	5	172
500ml (DF-200)	168	3	56	560	5	112
500ml (4R9955)	144	3	48	480	5	96
700ml (DF - 700)	96	3	3	272	4	68

Product List

Model	Product	Product Model	Factory code	Description and Accessories
CryoBio 13 (13k)	Biobank Freezer (Smart type)	CryoBio 13	CryoBio 13-J2H	Includes vacuum isolated hose (GRG-DN10/2.0), 4 pcs of 10-tier rack (5*5), 12 pcs of 10-tier rack (9*9), 40pcs of cryo boxes (5*5) for 2ml vial, 120pcs of cryo boxes (9*9) for 2ml vial, 1 set of cryosmart (level monitoring system)
	Biobank freezer	CryoBio 13	CryoBio 13-W	Includes vacuum isolated hose (GRG-DN10/2.0) and 1 set of cryosmart (level monitoring system)
	Rack (vertical type)	FDCJ-25-10	FDCJ-25-10	Used for storing 5*5 cryoboxes (2ml), ten layers in total, suitable for YDD-350/550/1300 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-10	FDCJ-81-10	Used for storing 9*9 cryoboxes (2ml), ten layers in total, Suitable for YDD-350/550/1300 (excluding cryoboxes)
	Plastic cryo box	FH-25	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	FH-81	Used for storing1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	FH-100	Used for storing 1.8ml/2ml vial (interally threaded,100 holes)
CryoBio 43 (43k)	Biobank Freezer (Smart type)	CryoBio 43	CryoBio 43-J2H	Includes vacuum isolated hose (GRG-DN10/2.0), 4 pcs of 12-tier rack (5*5), 32 pcs of 12-tier rack (9*9), 52pcs of cryo boxes (5*5)for 2ml vial, 416pcs of cryo boxes (9*9)for 2ml vial, 1 set of cryosmart (level monitoring system)
	Biobank Freezer	CryoBio 43	CryoBio 43-W	Includes vacuum isolated hose (GRG-DN10/2.0), 1 set of cryosmart (level monitoring system)
	Rack (vertical type)	FDCJ-25-13	FDCJ-25-13	Used for storing 5*5 cryoboxes (2ml), Thirteen layers in total, suitable for YDD-850/1600 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-13	FDCJ-81-13	Used for storing 9*9 cryoboxes (2ml), Thirteen layers in total, suitable for YDD-850/1600 (excluding cryoboxes)
	Plastic cryo box	FH-25	FH-25	Used for storing 1.8ml/2ml vial(25 holes)
	Plastic cryo box	FH-81	FH-81	Used for storing1.8ml/2ml vial(81 holes)
	Plastic cryo box	FH-100	FH-100	Used for storing 1.8ml/2ml vial (interally threaded,100 holes)

CryoStation Mobile Vapour Storage Trolley

The unit can be used to preserve plasma and biomaterials during transportation. It is suitable for deep hypothermia operation and transportation of samples in hospitals, various biobanks and laboratories. High quality stainless steel in combination with the thermal insulation layer ensures the effectiveness and durability of the low temperature transport trolley.





YDC-3000H

Product Advantages

Touch Screen

LCD touch operation



USB Data Export

It has its own USB interface and supports USB data export.



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.



User Friendly Design

Durable Construction
Ideal for the laboratory environment, stain-resistent.

Caster Design
Integrated design, universal caster at the bottom, easy to move.

Polymer Materials
The new type of environmentally-friendly polymer material is used inside the cover plate, which is more appealing, more environment-friendly and more advanced than the commonly used pearl foam and polyurethane materials.

Magnetic Lid
Convenient lid storage solution by the use of magnets. Adhers to side when not in use.

Technical Parameters

Product Model	Dimensions (L*W*H)(mm)	Frozen Storage Space (L*W*H)(mm)	Shelf Space (L*W*H)(mm)	Liquid Nitrogen Under Tray (L)	Empty Weight (kg)	Maximum Storage				
						5*5 Freezing Boxes (ea)	10*10 Freezing Boxes (ea)	50ml Blood Bag Boxes (ea)	200ml Blood Bag Boxes (ea)	2ml Cryopreservation Tube (ea)
YDC-3000H	1295*523*1095	960*335*163	950*440*220	33	150	65	30	105	50	3000

Bio-2T Cryovial Transfer Flask

Bio-2T is suitable for short-distance sample transportation in small batches in experimental units or hospitals. Lightweight, portable design, easy to take

•Lightweight design

Lightweight design of the product, the total empty weight is only 3kg

•Temperature display

Visual real-time temperature monitoring, and the instrument part is dustproof and waterproof

•Multi-specification compatibility

Compatible with 1.2m, 1.5m, 1.8m, 2.0m and 5.0ml sample storage tubes

•High thermal insulation performance

Vacuum structure, thickened thermal insulation material, ensuring the working temperature in the tank -135°C~-196°C, and ultra-long low-temperature storage period



Ergonomic Design

Condensate water inflow prevention structure

The specially designed upper cover can prevent condensate from flowing into the container and ensure the container cover to open smoothly.



Liquid nitrogen splash prevention structure

Ensure that liquid nitrogen is not sprayed during transportation after the container is filled with liquid nitrogen, and it is safe to use.



No liquid nitrogen overflow

It is specially equipped with liquid nitrogen adsorption layer, and under special circumstances, the container pours liquid nitrogen out, which can also ensure the low temperature environment in a certain period of time and ensure the safety of samples.



Product Parameters

O.D. (mm)	I.D. (mm)	Depth (mm)	Height (mm)	Total Empty Weight of Tank (Kg)	Liquid Nitrogen Volume (L)	Storage Time of Liquid Phase (h)	Storage Time of Gas Phase (h)	Internal Freezing Tube Capacity (2ml)(pcs)	Working Temperature (°C)	Working Environment (°C)
156	125	190	262	3	2	8	6	54	-135--196	20-40

BioT Air Cryovial Transfer Flask

BioT Air is suitable for small batch and short distance sample transportation in experimental units or hospitals. Lightweight, portable design, easy to easy to take.

•Lightweight design

Lightweight design, the total empty weight is only 2.8KG.

•Variety of sample storage options

Compatible with 1.2ml, 1.5ml, 1.8ml, 2.0ml and 5.0ml sample cryopreservation tubes, and can also hold a 5*5-2ML cryopreservation box.

•High thermal insulation performance

Vacuum structure ensures the working temperature in the tank-135℃~-196℃, and the ultra-long low-temperature storage period.

•No liquid nitrogen overflow

There is a liquid nitrogen adsorption layer at the bottom, and even if the container is tipped over, there will be no liquid nitrogen overflow, thus ensuring the safety of samples and personnel.



Ergonomic Design

Condensate water inflow prevention structure

The specially designed upper cover can prevent condensate from flowing into the container and ensure the container cover to opens smoothly.



Liquid nitrogen splash prevention structure

Ensures the liquid nitrogen will be contained during transportation.



Ultra-low temperature adsorption function

With liquid nitrogen adsorption layer at the bottom, even if the container falls down during dry storage, there will be no liquid nitrogen overflow, which ensures the safety of samples and personnel.



Product Parameters

O.D. (mm)	I.D. (mm)	Depth (mm)	Height (mm)	Total Empty Weight of Tank (Kg)	Liquid Nitrogen Volume (L)	Storage Time of Liquid Phase (h)	Storage Time of Gas Phase (h)	Internal Freezing Tube Capacity (2ml)(pcs)	Working Temperature (°C)	Working Environment (°C)
156	125	190	235	2.8	2	8	6	55	-135--196	-20-40

Intelligent Liquid Nitrogen Biological Container

Get total ease of access with Haier Biomedical's wide neck container with integral control and monitoring system, suitable for cryogenic storage of samples, plasma, cell tissue samples and other materials.

•Easier access

With the full opening hydraulic lid design, users can access and remove their samples with ease.

•Brand new intelligent monitoring system

It's equipped with the brand-new intelligent monitoring system and matched with our IoT module which can connect with Haier's big data cloud platform. Integrating three screens, it can alert alarm status via the APP, email or our website enabled devices.

With USB interface, it supports data export.

With larger battery capacity, it can still be used after power failure.

•Reduce frosting and freezing

The brand-new cover and interlayer exhaust structure can effectively reduce the frosting and freezing at exhaust port.

•Sleek, modern and ergonomic design

With fully integrated touchscreen LCD controller, conveniently positioned to avoid the affects of cryogenic temperatures when opening the cabinet.

Bottom caster, easy to move, with adjustable back brake, easy to fix and stabilize.



Product Parameters

Model	CryoBio 11Z		CryoBio 20Z		CryoBio 34Z	
	Vapor Phase	Liquid Phase	Vapor Phase	Liquid Phase	Vapor Phase	Liquid Phase
1.2ml, 1.8m, 2ml Vials (Internal Thread)	11000	13000	20350	24050	33550	42900
5*5Rack (vertical type)	-	-	10	10	10	8
10*10Rack (vertical type)	10	10	16	16	28	31
5*5Freezer Box	-	-	110	130	110	104
10*10Freezer Box	110	130	176	208	308	403
Layers of Vertical Type Rack	11	13	11	13	11	13
Volume of LN (L)	200		340		550	
Exterior Dimensions (W*D*H)(mm)	1035*730*1190		1170*910*1190		1410*1100*1190	
Usable Internal Height (mm)	790		790		790	
Static Evapouration (L/Day)	7		10		12	
Empty Weight (kg)	209		301.5		400	
Inside Neck Diameter (mm)	610		790		1000	
Full Weight (kg)	357		543		821	

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
CryoBio 11Z (11K)	Zhiling Liquid Nitrogen Container (Smart type)	CryoBio 11Z	CryoBio 11Z-J2H	Includes vacuum isolated hose (GRG-DN10/2.0), 1 set of cryosmart (level monitoring system), 10pcs of 11-tier rack (9*9), 110pcs of cryo boxes (9*9) for 2ml vial
	Zhiling Liquid Nitrogen Container	CryoBio 11Z	CryoBio 11Z-W	Includes vacuum isolated hose (GRG-DN10/2.0) and intelligent monitoring system, rack is optional
	Rack (vertical type)	FDCJ-81-11	FDCJ-81-11	Used for storing 9*9 cryoboxes (2ml), eleven layers in total, suitable for CryoBio 11Z/CryoBio 20Z/CryoBio 34Z (excluding cryoboxes)
	Plastic cryo box	FH-81	FH-81	Used for storing1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	FH-100	Used for storing 1.8ml/2ml vial (interally threaded.100 holes)
CryoBio 20Z (20K)	Zhiling Liquid Nitrogen Container (Smart type)	CryoBio 20Z	CryoBio 20Z-J2H	Includes vacuum isolated hose (GRG-DN10/2.0), 1 set of cryosmart (level monitoring system), 10 pcs of 11-tier rack (5*5), 16pcs of 11-tier rack (9*9), 110pcs of cryo boxes (5*5) for 2ml vial, 176pcs of cryo boxes (9*9) for 2ml vial
	Zhiling Liquid Nitrogen Container	CryoBio 20Z	CryoBio 20Z-W	Includes vacuum isolated hose (GRG-DN10/2.0) and intelligent monitoring system, rack is optional
	Rack (vertical type)	FDCJ-25-11	FDCJ-25-11	Used for storing 5*5 cryoboxes (2ml), eleven layers in total, suitable for CryoBio 11Z/CryoBio 20Z/CryoBio 34Z (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-11	FDCJ-81-11	Used for storing 9*9 cryoboxes (2ml), eleven layers in total, suitable for CryoBio 11Z/CryoBio 20Z/CryoBio 34Z (excluding cryoboxes)
	Plastic cryo box	FH-25	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	FH-81	Used for storing1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	FH-100	Used for storing 1.8ml/2ml vial (interally threaded.100 holes)
CryoBio 34Z (34K)	Zhiling Liquid Nitrogen Container	CryoBio 34Z	CryoBio 34Z-J2H	Includes vacuum isolated hose (GRG-DN10/2.0), 1 set of cryosmart (level monitoring system), 10 pcs of 11-tier rack (5*5), 28pcs of 11-tier rack (9*9), 110pcs of cryo boxes (5*5) for 2ml vial, 308pcs of cryo boxes (9*9) for 2ml vial
	Zhiling Liquid Nitrogen Container (Smart type)	CryoBio 34Z	CryoBio 34Z-W	Includes vacuum isolated hose (GRG-DN10/2.0) and intelligent monitoring system, Rack is optional
	Rack (vertical type)	FDCJ-25-11	FDCJ-25-11	Used for storing 5*5 cryoboxes (2ml), eleven layers in total, suitable for CryoBio 11Z/CryoBio 20Z/CryoBio 34Z (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-11	FDCJ-81-11	Used for storing 9*9 cryoboxes (2ml), Eleven layers in total, suitable for CryoBio 11Z/CryoBio 20Z/CryoBio 34Z (excluding cryoboxes)
	Plastic cryo box	FH-25	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	FH-81	Used for storing1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	FH-100	Used for storing 1.8ml/2ml vial (interally threaded.100 holes)

Blood Bag Capacity

Model	Cryobio 11Z			Cryobio 20Z			Cryobio 34Z		
Gas Phase	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks
25ml	864	6	144	1500	6	250	2412	6	402
50ml	528	6	88	924	6	154	1512	6	252
250ml	272	4	68	480	4	120	808	4	202
Liquid Phase	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks
25ml	1152	8	144	2000	8	250	3216	8	402
50ml	704	8	88	1232	8	154	2016	8	252
250ml	340	5	68	600	5	120	1010	5	202

CryoBio 6S Liquid Nitrogen Container with Autorefill

This storage vessel minimises the need for and risks associated with manual filling. Applications include the storage of cord blood, stem cells, car-T cells, tissues and other biomaterials within academia, pharma and clinical labs. Stores up to 6,000 2ml cryovials (internally-threaded).

•Auto fill design

The autofill function can eliminate the need for manual filling and associated health safety risks.

•Accurate real-time monitoring

Equipped with a brand-new intelligent monitor, it detects and records in real-time both temperature and liquid level, and automatically saves data, including re-fill and alarm notifications for up to 5 years.

•Low liquid nitrogen consumption 1.5L/day

Advanced vacuum and heat preservation technologies ensure an industry-leading low consumption of liquid nitrogen in the container and the stability of temperature in the sample freezing.space, to maximize efficiency and reduce operating costs.

The temperature at the top of the freezing rack can reach -190°C, and the average consumption of liquid nitrogen is only 1.5L.



Ergonomic Design

Designed for both liquid and vapor phase storage

The one-button defogging function makes it easier to find samples

Automatic data saving and USB data (temperature, liquid level, alarm records and otherdata) export are supported

Sealed centralized exhaust system minimizes frost build up

A battery-back up as standard, the controller can function for up to 8 hours without mains power

1 year parts warranty; 5 years vacuum warranty

The multi-lock structure makes the sample storage safer

With hot gas bypass function, reduces the temperature fluctuation in the tank when liquid nitrogen is filled, enhancing sample security

A complete data recording system allows users to check the temperature, liquid level, and alarm records at any time

With multiple alarm functions such as high and low temperature, high and low liquid level, and real-time audio/visual alarms

Product Parameters

Model	Volume of LN_2 (L)	Inside Neck Diameter (mm)	Height (mm)	Outside Diameter (mm)	Empty Weight (kg)
CryoBio 6S	175	216	1490	681	78

Working Evaporation (L/Day)	Static Evaporation (L/Day)	2ml Vials (Internal Thread)	Square Rack	Layers of Square Rack
1.5	0.95	6000	6	10

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
CryoBio 6S	Biobank Freezer	CryoBio 6S	CryoBio 6S-J2H	CryoBio 6S tank, includes 6 racks with 10 layers, 9*9 cryoboxes, lockable cap and controller. No Pu bag. 5 wheels roller base, transfer hose GRG-DN10/2.0 and one tier step are also included.
	Biobank Freezer	CryoBio 6S	CryoBio 6S-W	CryoBio 6S tank, with lockable cap and controller. no pu bag. no racks or cryoboxes. 5 wheels roller base, transfer hose GRG-DN10/2.0 and one tier step are included.
	Rack	FTT-81-10H	FTT-81-10H	Used for storing 9*9 cryo boxes (2ml), 10 layers in total, with 9*9 cryo boxes included, suitable for YDS-175-216, CryoBio 6S
	Rack	FTT-81-5/5.0H	FTT-81-5/5.0H	Used for storing 9*9 cryo boxes (5ml), 5 layers in total, with 9*9 cryo boxes included, suitable for YDS-175-216, CryoBio 6S
	Data Repeater	RP-4004G	RP-4004G	Data transmitted to cloud platform through GPRS, with SIM card included, suitable for all YDD products of Haier
	175	One step ladder	175	One tier step, suitable for CryoBio 6S
	Roller Base	YSC-685-5W	YSC-685-5W	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels

Smart Series (Square Racks)

The smart, IoT and cloud management system monitors temperature and liquid levels simultaneously to provide accurate and real-time information on the critical parameters to ensure ultimate sample safety.

- IoT and Cloud Management
- Multiple Level of Protections
- Low Energy Consumption
- Temperature and Level Display
- Updated Design
- High Performance Stability
- New Lock Design



Key Features

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

Product Advantages

Colour identification for Rack handles

Rack handles are colour-coded for ease of separating storage zones and managing samples.



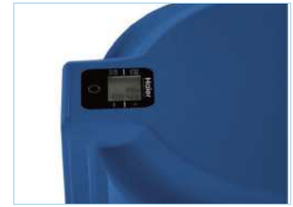
Double lock and double control design

The new double lock and double control design requires two people to open at the same time to ensure sample safety.



Dual monitoring respectively for temperature and liquid level

Storage temperature and liquid level are automatically monitored by a high precision controller. Accurate and real-time information ensures samples safety.



Multilayer protection for ultimate safety

Temperature and level are monitored in real time to safeguard the storage environment. Alarms can be transmitted through email, IM and wechat.

Low consumption rate and high performance stability

Automated manufacture ensures build quality and reliable vacuum which delivers stable and uniform temperature performance as well as low LN_2 consumption rates.



Accessories

Rack



Roller Base



Smart Series (Square Racks)

Technical Parameters

Model	YDS-65-216	YDS-95-216	YDS-115-216	YDS-145-216	YDS-175-216
Maximum Storage Volume					
No. of Rack	6	6	6	6	6
2ml Storage Vials (100/box)	2400	3000	3600	4800	6000
Layers in Rack	4	5	6	8	10
5ml Storage Vials (81/box)	—	972	1458	1944	2430
Layers in Rack	—	2	3	4	5
Function					
Liquid Nitrogen Volume (L)	65	95	115	145	175
Static Evapouration Rate* (L/D)	0.78	0.94	0.94	0.94	0.95
Static Holding Time** (Day)	83	101	122	154	184
Dimensions					
Neck Opening (mm)	216	216	216	216	216
Overall Height (mm)	760	825	895	995	1110
Overall Diameter (mm)	681	681	681	681	681
Empty Weight (kg)	41	44	48	53	58
Full Weight (kg)	108	121	141	171	199.5
Shipping Weight (kg)	65.5	69.2	75.9	85.2	94.5

* Static evapouration and static holding time are theoretical values. Actual evapouration and holding time are affected by usage, atmospheric conditions and manufacturing tolerances.

** Static Holding Time: the amount of days it takes for all of the LN to evapourate out after container is filled with liquid nitrogen to pre-cool and reach thermal equilibrium and the liquid nitrogen filling rate reaches 100% under standard atmospheric condition.

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
YDS-65-216	Smart liquid nitrogen container (smart series)	YDS-65-216	YDS-65-216-FZH	Includes 6 racks (4-tier), cryoboxes (9*9), lockable cap, roller base is optional
YDS-95-216	Smart liquid nitrogen container (smart series)	YDS-95-216	YDS-95-216-FZH	Includes 6 racks (5-tier), cryoboxes (9*9), lockable cap, roller base is optional
YDS-115-216	Smart liquid nitrogen container (smart series)	YDS-115-216	YDS-115-216-FZH	Includes 6 racks (6-tier), cryoboxes (9*9), lockable cap, roller base is optional
YDS-145-216	Smart liquid nitrogen container (smart series)	YDS-145-216	YDS-145-216-FZH	Includes 6 racks (8-tier), cryoboxes (9*9), lockable cap, roller base is optional
YDS-175-216	Smart liquid nitrogen container (smart series)	YDS-175-216	YDS-175-216-FZH	Includes 6 racks (10-tier), cryoboxes (9*9), lockable cap, roller base is optional
	Roller Base	YSC-685-5W	YSC-685-5W	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels

Medium Sized Storage Series (Square Racks)

Medium Sized Storage Series (Square Racks) features low LN_2 consumption and relatively small footprint for medium capacity sample storage.

- 5 Years Vacuum Warranty
- Cryobox Storage
- High Thermal Efficiency
- Durable
- Secure
- Liquid and Vapour Storage



Medium Sized Storage Series (Square Racks)

Key Features

- Heavy duty lockable enclosure offers excellent security
- Compatible with all major cryobox brands
- Durable aluminium construction
- Temperature monitoring available
- Liquid or vapour phase option available
- High thermal efficiency
- 5 year vacuum warranty
- Ultra-low evapouration loss

Product Advantages

ULT Storage with Extremely Low LN_2 Evapouration Loss

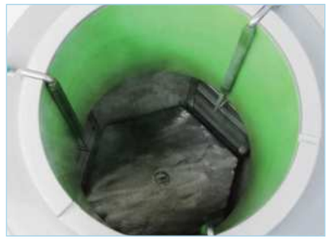
Freezer racks are in the ultra-low temperature environment with extremely low LN_2 evapouration. Even stored in vapour phase, the temperature will be below -190°C for a long time.

Advanced Vacuum Technology and Superinsulation Technology

Advanced vacuum and insulation technologies ensure cryopreservation for up to four months.

Compatible for Blood Bag Storage

Suitable for blood bag applications, the racks can be adapted to provide temporary blood bag storage before transferring bags to larger LN_2 storage tanks.







Liquid Nitrogen Temperature Detector

The temperature monitor provides continuous and reliable monitoring of the temperature in the container. It is the ideal choice for long-term monitoring of sample storage temperature and reminding users to add liquid nitrogen.

The temperature monitor ZTC-100A has real-time temperature display function, and can also provide the following alarms:
* Over temperature alarm
* Sensor error acousto-optic alarm



ZTC-100A

Technical Parameters

Model	YDS-65-216	YDS-95-216	YDS-115-216	YDS-145-216	YDS-175-216
Maximum Storage Capacity					
No. of Rack	6	6	6	6	6
No. 2.0 ml Cryovials (100 / Box)	2400	3000	3600	4800	6000
No. of Boxes in (2ml each Rack)	4	5	6	8	10
No. 5.0 ml Cryovials (81/Box)	972	972	1458	1944	2430
No. of Boxes in (5ml each Rack)	2	2	3	4	5
Performance					
Volume of LN_2 (L)	65	95	115	145	175
Static Evapouration Rate* (L/Day)	0.78	0.94	0.94	0.94	0.95
Static Holding Time** (Day)	83	101	122	154	184
Dimensions					
Neck Opening Diameter (mm)	216	216	216	216	216
Height (mm)	735	800	870	970	1085
Outer Diameter (mm)	681	681	681	681	681
Empty Weight (kg)	40	43	47	52	57
Full Weight (kg)	107	120	140	170	198.5
Shipping Weight (kg)	63.5	67.6	77.6	83.2	92.4

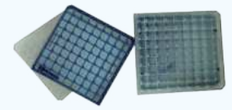
* Static evapouration and static holding time are theoretical values. Actual evapouration and holding time are affected by usage, atmospheric conditions and manufacturing tolerances.
** Static Holding Time: the amount of days it takes for all of the LN to evapourate out after container is filled with liquid nitrogen to pre-cool and reach thermal equilibrium and the liquid nitrogen filling rate reaches 100% under standard atmospheric condition.

Accessories

Roller Base



Plastic Cryo Box



Lockable Cap (SG-216)



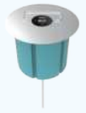
Rack (5ml)



5 ml Customized Cryogenic Box



SmartCap



Rack



Medium Sized Storage Series (Square Racks)

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
YDS-65-216	Liquid Nitrogen container	YDS-65-216	YDS-65-216-FH	Includes 6 racks(4 layers), 9*9 cryoboxes, lockable cap, no PU bag, roller base is optional
	Liquid Nitrogen container	YDS-65-216	YDS-65-216-W	Includes lockable cap, no rack, no PU bag
	Rack	FTT-81-4H	FTT-81-4H	Used for storing 9*9 cryo boxes(2ml), 4 layers in total, with 9*9 cryo boxes included, suitable for YDS-65-216
	Roller Base	YSC-685-5W	YSC-685-5W	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels
	SmartCap	LT-216	LT-216-340-6H530	Used for monitoring real time level and temperature for containers with 216mm neck opening, 6 grooves and 530mm height, suitable for YDS-65-216
	Cork (216)	GS-216-220-7	GS-216-220-7	Suitable for YDS-65-216/YDS-95-216/YDS-115-216/YDS-145-216/YDS-175-216/ YDH-15-216/YDH-25-216
	Lockable cap	SG-216	SG-216	Suitable for container with 216mm neck opening
YDS-95-216	Liquid Nitrogen container (5.0ml Vial)	YDS-95-216	YDS-95-216-FH5	Includes 6 racks for 5ml, 2 layers in total, 12pcs of 5ml 9*9 cryo boxes and lockable cap included, no PU bag, roller base is optional
	Liquid Nitrogen container	YDS-95-216	YDS-95-216-FH	Includes 6 racks(5 layers), 9*9 cryoboxes, lockable cap, no PU bag, roller base is optional
	Liquid Nitrogen container	YDS-95-216S	YDS-95-216-W	Includes lockable cap, no rack, no PU bag
	Rack	FTT-81-5H	FTT-81-5H	Used for storing 9*9 cryo boxes(2ml), 5 layers in total, with 9*9 cryo boxes included,suitable for YDS-95-216\YDH-25-216
	Rack	FTT-81-2/5.0H	FTT-81-2/5.0H	Used to store 5ml cryo boxes(9*9), 2 layers in total, 9*9 cryo boxes included, suitable for YDS-65-216\95-216(Plastic cryo boxes included)
	Roller Base	YSC-685-5W	YSC-685-5W	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels
	SmartCap	LT-216	LT-216-370-6H580	Used for monitoring real time level and temperature for containers with 216mm neck opening, 6 grooves and 580mm height,suitable for YDS-95-216
	Cork (216)	GS-216-220-7	GS-216-220-7	Suitable for YDS-65-216/YDS-95-216/YDS-115-216/YDS-145-216/YDS-175-216/ YDH-15-216/YDH-25-216
	Lockable cap	SG-216	SG-216	Suitable for container with 216mm neck opening
YDS-115-216	Liquid Nitrogen container (5.0ml Vial)	YDS-115-216	YDS-115-216-FH5	Includes 6 racks for 5ml, 3 layers in total, 18pcs of 5ml 9*9 cryo boxes and lockable cap included, no PU bag, roller base is optional
	Liquid Nitrogen container	YDS-115-216	YDS-115-216-FH	Includes 6 racks(6 layers), 9*9 cryoboxes, lockable cap, no PU bag, roller base is optional
	Liquid Nitrogen container	YDS-115-216	YDS-115-216-W	Includes lockable cap, no rack, no PU bag
	Rack	FTT-81-6H	FTT-81-6H	Used for storing 9*9 cryo boxes(2ml), 6 layers in total, with 9*9 cryo boxes included, suitable for YDS-115-216
	Rack	FTT-81-3/5.0H	FTT-81-3/5.0H	Used for storing 9*9 cryo boxes(5ml), 3 layers in total, with 9*9 cryo boxes included, suitable for YDS-115-216
	Roller Base	YSC-685-5W	YSC-685-5W	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels
	SmartCap	LT-216	LT-216-450-6H660	Used for monitoring real time level and temperature for containers with 216mm neck opening, 6 grooves and 660mm height, suitable for YDS-115-216
	Cork (216)	GS-216-220-7	GS-216-220-7	Suitable for YDS-65-216/YDS-95-216/YDS-115-216/YDS-145-216/YDS-175-216/ YDH-15-216/YDH-25-216
	Lockable cap	SG-216	SG-216	Suitable for container with 216mm neck opening
YDS-145-216	Liquid Nitrogen container (5.0ml Vial)	YDS-145-216	YDS-145-216-FH5	Includes 6 racks for 5ml, 4 layers in total, 24pcs of 5ml 9*9 cryo boxes and lockable cap included, no PU bag, roller base is optional
	Liquid Nitrogen container	YDS-145-216	YDS-145-216-FH	Includes 6 racks(8 layers), 9*9 cryoboxes, lockable cap, no PU bag, roller base is optional
	Liquid Nitrogen container	YDS-145-216	YDS-145-216-W	Includes lockable cap, no rack, no PU bag
	Rack	FTT-81-8H	FTT-81-8H	Used for storing 9*9 cryo boxes(2ml), 8 layers in total, with 9*9 cryo boxes included,suitable for YDS-145-216
	Rack	FTT-81-4/5.0H	FTT-81-4/5.0H	Used for storing 9*9 cryo boxes(5ml), 4 layers in total, with 9*9 cryo boxes included, suitable for YDS-145-216
	Roller Base	YSC-685-5W	YSC-685-5W	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels
	SmartCap	LT-216	LT-216-570-6H770	Used for monitoring real time level and temperature for containers with 216mm neck opening, 6 grooves and 770mm height,suitable for YDS-145-216
	Cork (216)	GS-216-220-7	GS-216-220-7	Suitable for YDS-65-216/YDS-95-216/YDS-115-216/YDS-145-216/YDS-175-216/ YDH-15-216/YDH-25-216
	Lockable cap	SG-216	SG-216	Suitable for container with 216mm neck opening

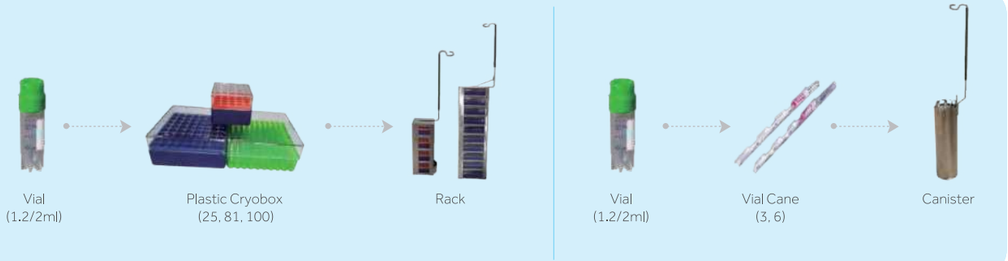
Product List

Model	Product	Product Model	Factory Code	Description and Accessories
YDS-175-216	Liquid Nitrogen container (5.0ml Vial)	YDS-175-216	YDS-175-216-FH5	Includes 6 racks for 5ml, 5 layers in total, 30pcs of 5ml 9*9 cryo boxes and lockable cap included, no PU bag, roller base is optional
	Liquid Nitrogen container	YDS-175-216	YDS-175-216-FH	Includes 6 racks(10 layers), 9*9 cryoboxes, lockable cap, no PU bag, roller base is optional
	Liquid Nitrogen container	YDS-175-216	YDS-175-216-W	Includes lockable cap, no rack, no PU bag
	Rack	FTT-81-10H	FTT-81-10H	Used for storing 9*9 cryo boxes(2ml), 10 layers in total, with 9*9 cryo boxes included, suitable for YDS-175-216/CryoBio 6S
	Rack	FTT-81-5/5.0H	FTT-81-5/5.0H	Used for storing 9*9 cryo boxes(5ml), 5 layers in total, with 9*9 cryo boxes included, suitable for YDS-175-216、CryoBio 6S
	Roller Base	YSC-685-5W	YSC-685-5W	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels
	SmartCap	LT-216	LT-216-670-6H870	Used for monitoring real time level and temperature for containers with 216mm neck opening, 6 grooves and 870mm height,suitable for YDS-175-216
	Cork (216)	GS-216-220-7	GS-216-220-7	Suitable for YDS-65-216/YDS-95-216/YDS-115-216/YDS-145-216/YDS-175-216/ YDH-15-216/YDH-25-216
	Lockable cap	SG-216	SG-216	Suitable for container with 216mm neck opening
Other Racks	Blood bag rack	XTT-25-2F14/65H	XTT-25-2F14/65H	Used for storing 25ml blood bag, 2 levels in total with each layer storing 14pcs of 25ml blood bag, with 28 cassettes included, suitable for YDS-65-216, 6 racks can be fitted.
	Blood bag rack	XTT-25-2F14/95H	XTT-25-2F14/95H	Used for storing 25ml blood bag, 2 levels in total with each layer storing 14pcs of 25ml blood bag, with 28 cassettes included, suitable for YDS-95-216, 6 racks can be fitted.
	Blood bag rack	XTT-25-3F14/115H	XTT-25-3F14/115H	Used for storing 25ml blood bag, 3 levels in total with each layer storing 14pcs of 25ml blood bag, with 42 cassettes included, suitable for YDS-115-216, 6 racks can be fitted.
	Blood bag rack	XTT-25-4F14/145H	XTT-25-4F14/145H	Used for storing 25ml blood bag, 4 levels in total with each layer storing 14pcs of 25ml blood bag, with 56 cassettes included, suitable for YDS-145-216, 6 racks can be fitted.
	Blood bag rack	XTT-25-5F14/175H	XTT-25-5F14/175H	Used for storing 25ml blood bag, 5 levels in total with each layer storing 14pcs of 25ml blood bag, with 70 cassettes included, suitable for YDS-175-216, 6 racks can be fitted.
	Blood bag rack	XTT-50-1F14/65H	XTT-50-1F14/65H	Used for storing 50ml blood bag, 1 level in total with each layer storing 14pcs of 50ml blood bag, with 14 cassettes included, suitable for YDS-65-216, 6 racks can be fitted.
	Blood bag rack	XTT-50-1F14/95H	XTT-50-1F14/95H	Used for storing 50ml blood bag, 1 level in total with each layer storing 14pcs of 50ml blood bag, with 14 cassettes included, suitable for YDS-95-216, 6 racks can be fitted.
	Blood bag rack	XTT-50-2F14/115H	XTT-50-2F14/115H	Used for storing 50ml blood bag, 2 levels in total with each layer storing 14pcs of 50ml blood bag, with 28 cassettes included, suitable for YDS-115-216, 6 racks can be fitted.
	Blood bag rack	XTT-50-2F14/145H	XTT-50-2F14/145H	Used for storing 50ml blood bag, 2 levels in total with each layer storing 14pcs of 50ml blood bag, with 28 cassettes included, suitable for YDS-145-216, 6 racks can be fitted.
	Blood bag rack	XTT-50-3F14/175H	XTT-50-3F14/175H	Used for storing 50ml blood bag, 3 levels in total with each layer storing 14pcs of 50ml blood bag, with 42 cassettes included, suitable for YDS-175-216, 6 racks can be fitted.
	Blood bag rack	XTT-250-1F8/65H	XTT-250-1F8/65H	Used for storing 250ml blood bag, 1 level in total with each layer storing 8pcs of 250ml blood bag, with 8 cassettes included, suitable for YDS-65-216, 6 racks can be fitted.
	Blood bag rack	XTT-250-1F8/95H	XTT-250-1F8/95H	Used for storing 250ml blood bag, 1 level in total with each layer storing 8pcs of 250ml blood bag, with 8 cassettes included, suitable for YDS-95-216, 6 racks can be fitted.
	Blood bag rack	XTT-250-1F8/115H	XTT-250-1F8/115H	Used for storing 250ml blood bag, 1 level in total with each layer storing 8pcs of 250ml blood bag, with 8 cassettes included, suitable for YDS-115-216, 6 racks can be fitted.
	Blood bag rack	XTT-250-1F8/145H	XTT-250-1F8/145H	Used for storing 250ml blood bag, 1 levels in total with each layer storing 8pcs of 250ml blood bag, with 8 cassettes included, suitable for YDS-145-216, 6 racks can be fitted.
	Blood bag rack	XTT-250-2F8/175H	XTT-250-2F8/175H	Used for storing 250ml blood bag, 2 levels in total with each layer storing 8pcs of 250ml blood bag, with 16 cassettes included, suitable for YDS-145-216, 6 racks can be fitted.

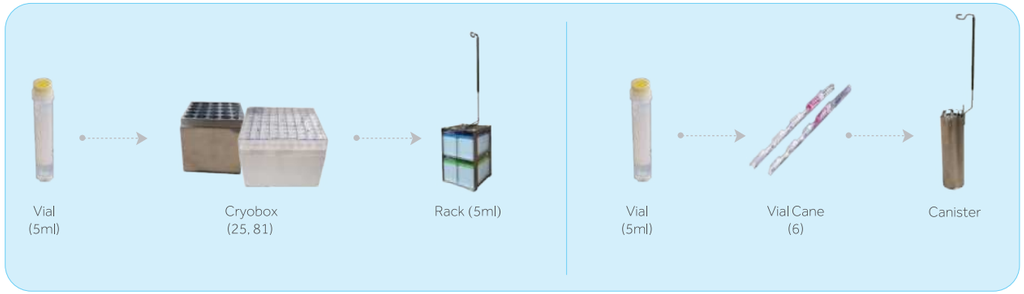
Medium Sized Storage Series (Square Racks)

Biological Sample Library-YDS Series

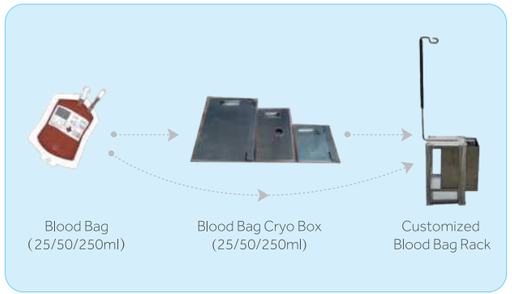
Storage Example of 2ml Internally Threaded Vial



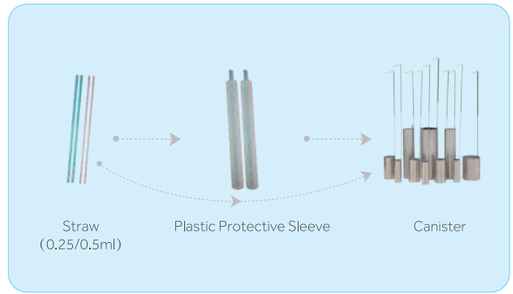
Storage Example of Tall 5ml Cryovials



Blood Bag Storage Example



Straw Storage Example



Small Sized Storage Series (Square Racks)

Widely used within many laboratories, this small-sized storage series features low LN_2 consumption and dual handle design. Stores between 100 and 1100 vials in square racks and cryo boxes.

- 5 Years Vacuum Warranty
- High Thermal Efficiency
- Lightweight
- 10 Litre to 50 Litre Capacity
- Durable
- Secure
- Super-Insulation
- Ideal for Lab Applications



Small Sized Storage Series (Square Racks)

Key Features

- Heavy duty lockable enclosure offers excellent security
- Strong, lightweight aluminium construction
- Dual handles
- Temperature monitoring available
- Roller bases available
- High thermal efficiency
- 5 years vacuum warranty
- Ultra-low LN_2 evapouration loss

Product Advantages

Low LN_2 Consumption and Maximum Storage Efficiency

Haier Biomedical's Small Sized Storage Series (Square Racks) Liquid Nitrogen Storage System features low LN_2 consumption and small storage capacity for laboratory applications. The lightweight containers have a smaller footprint whilst providing maximum efficiency of cryogenic storage capacity.



Advanced Vacuum Technology and Super-insulation Technology

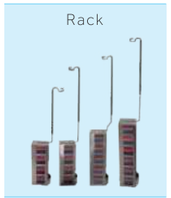
Advanced vacuum and insulation technologies provide ultra-low liquid nitrogen evapouration loss and ensure up to three months cryogenic storage.

Five Models Available

Small Sized Storage Series (Square Racks) offers Five models with different capacity from 100, 600, 750, 900 to 1100 standard 2ml cryovials. All models are supplied with stainless steel racks and cryogenic boxes.

Accessories











Technical Parameters

Model	YDS-10-125	YDS-30-125	YDS-35-125	YDS-47-127	YDS-50B-125
Maximum Storage Capacity					
No. of Rack	1	6	6	6	6
1.2&2 ml Cryovials (25 per box)	100	600	750	1110	900
No. of Boxes in (Rack)	4	4	5	5	6
Performance					
Volume of LN_2 (L)	10	30	35	47	50
Static Evapouration* (L/Day)	0.42	0.35	0.36	0.36	0.45
Static Holding Time** (Day)	24	90	97	130	110
Dimensions					
Opening Diameter (mm)	125	125	125	127	125
Height (mm)	625	725	765	740	830
Outside Diameter (mm)	300	462	462	508	462
Empty Weight (kg)	6.3	13	14.5	18.2	17.3
Full Weight (kg)	15.1	38.9	43.2	60.9	62.4
Shipping Weight (kg)	9.6	19.3	21.9	30.7	30.3

* Static evapouration and static holding time are theoretical values. Actual evapouration and holding time are affected by usage, atmospheric conditions and manufacturing tolerances.

** Static Holding Time: the amount of days it takes for all of the LN_2 to evapourate out after container is filled with liquid nitrogen to pre-cool and reach thermal equilibrium and the liquid nitrogen filling rate reaches 100% under standard atmospheric condition.

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
YDS-10-125	Liquid Nitrogen container	YDS-10-125	YDS-10-125-FH	Include 1 square rack with 4 layers , 5*5 cryobox, lockable cap and PU bag.
	Liquid Nitrogen container	YDS-10-125	YDS-10-125-W	Includes PU bag only; No canister; no lockable cap;
	Rack	FTT-25-4H	FTT-25-4H	Used for storing 5*5 cryo boxes(2ml), 4 layers in total, with 5*5 cryo boxes included, suitable for YDS-30-125/YDS-10-125
	Canister	TTH10-125	TTH10-125	Φ97.120mm single tier canister. No goblet, suitable for YDH-10-125
	SmartCap	T-125	T-125-6H180	Used for monitoring real time temperature for containers with 125mm neck opening, 6 grooves and 180mm heigh cork, data can be transmitted to Haier's IoT platform, suitable for YDH-10-125/YDS-10-125
	Cork (125)	GS-125-180	GS-125-180	Suitable for YDS-10-125/YDH-10-125/YDS-50B-125
	Lockable cap	SG-125	SG-125	Suitable for container with 125mm and 127mm neck opening
YDS-30-125	Liquid Nitrogen container	YDS-30-125	YDS-30-125-FH	Includes 6 racks with 4 layers, 5*5 cryoboxes, lockable cap and PU bag, roller base is optional.
	Liquid Nitrogen container	YDS-30-125	YDS-30-125-W	Includes PU bag only, roller base is optional
	Rack	FTT-25-4H	FTT-25-4H	Used for storing 5*5 cryo boxes(2ml), 4 layers in total, with 5*5 cryo boxes included, suitable for YDS-30-125/YDS-10-125
	Canister	TT30-125	TT30-125	Φ97.120mm single tier canister. No goblet, suitable for YDS-30-125
	Roller Base	YSC-465-5W	YSC-465-5W	"Suitable for tanks with diameter less than Φ 465. Can be used for 30L, 35L and 50L tank, equipped with 5 universal wheels."
	SmartCap	LT-125	LT-125-370-6H540	Used for monitoring real time level and temperature for containers with 80mm neck opening, 6 grooves and 540mm height, suitable for YDS-20-125/YDS-30-125
	Cork (125)	GS-125-210	GS-125-210	Suitable for YDS-30-125/YDS-35-125/YDS-47-127/YDS-35B-125
	Lockable cap	SG-125	SG-125	Suitable for container with 125mm and 127mm neck opening

Small Sized Storage Series (Square Racks)

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
YDS-35-125	Liquid Nitrogen container	YDS-35-125	YDS-35-125-LYS	Includes 6 canisters (Height 276mm), lockable cap and PU bag,roller base is optional
	Liquid Nitrogen container	YDS-35-125	YDS-35-125-FH	Includes 6 racks with 5 layers, 5*5 cryoboxes, lockable cap and PU bag, roller base is optional.
	Liquid Nitrogen container	YDS-35-125	YDS-35-125-W	Includes PU bag only, roller base is optional
	Rack	FTT-25-5H	FTT-25-5H	Used for storing 5*5 cryo boxes (2ml), 5 layers in total, with 5*5 cryo boxes included, suitable for YDS-35-125
	Canister	TT35-125	TT35-125	Φ97,120mm single tier canister, No goblet, suitable for YDS-35-125
	Canister	TTS35-125	TTS35-125	Φ97,276mm double-tier canister, 2 goblets included. Suitable for YDS-35-125
	Roller Base	YSC-465-5W	YSC-465-5W	"Suitable for tanks with diameter less than Φ465. Can be used for 30L, 35L and 50L tank, equipped with 5 universal wheels."
	SmartCap	LT-125	LT-125-400-6H575	Used for monitoring real time level and temperature for containers with 125mm neck opening, 6 grooves and 575mm height, suitable for YDS-25-125/YDS-35-125/YDS-35-125
	Cork（125）	GS-125-210	GS-125-210	Suitable for YDS-30-125/YDS-35-125/YDS-47-127/YDS-35B-125
	Lockable cap	SG-125	SG-125	Suitable for container with 125mm and 127mm neck opening
YDS-47-127	Liquid Nitrogen container	YDS-47-127	YDS-47-127-T37H	Includes 6 round rack with 5 layers (37 holes) , lockable cap and PU bag; Roller base is optional
	Liquid Nitrogen container	YDS-47-127-10	YDS-47-127-10TS	"Includes 10 canisters(Φ72/276mm), lockable cap and PU bag, roller base is optional"
	Round Rack（Y98-37）	YTT-37-5	YTT-37-5	Φ98 round rack used for storing 37 holes cryobox (2ml), 5 tiers in total, suitable for YDS-47-127-T37
	Canister	TTS47-127-10T	TTS47-127-10T	Φ72, 276mm double-tier canister, 2 goblets included, Suitable for YDS-47-127-10T
	Roller Base	YSC-525-5W	YSC-525-5W	Suitable for tanks with diameter less than Φ525, Can be used for 47L alunimium tank, equipped with 5 universal wheels
	SmartCap	LT-127	LT-127-370-10H570	Used for monitoring real time level and temperature for containers with 127mm neck opening, 10 grooves and 570mm height, Suitable for YDS-47-127-10T/MVE-XC47/11-10
	SmartCap	LT-127	LT-127-400-6H570	Used for monitoring real time level and temperature for containers with 127mm neck opening, 6 grooves and 570mm height, suitable for YDS-47-127-6Y/YDS-47-127/MVE XC-47/11-6
	Cork（125）	GS-125-210	GS-125-210	Suitable for YDS-30-125/YDS-35-125/YDS-47-127/YDS-35B-125
	Cork（125）	GS-127-210-10	GS-127-210-10	Suitable for YDS-47-127-10T
	Lockable cap	SG-125	SG-125	Suitable for container with 125mm and 127mm neck opening
YDS-50B-125	Liquid Nitrogen container	YDS-50B-125	YDS-50B-125-FH	Includes 6 racks with 6 layers, 5*5 cryoboxes, lockable cap and PU bag, roller base is optional.
	Liquid Nitrogen container	YDS-50B-125	YDS-50B-125-LYS	"Includes 6 canisters (Φ97/276mm), lockable cap and PU bag, roller base is optional"
	Liquid Nitrogen container	YDS-50B-125	YDS-50B-125-W	Includes PU bag only, roller base is optional
	Rack	FTT-25-6H	FTT-25-6H	Used for storing 5*5 cryo boxes (2ml), 6 layers in total, with 5*5 cryo boxes included, suitable for YDS-50B-125
	Canister	TT50-125	TT50-125	Φ97,120mm single tier canister, No goblet, suitable for YDS-50B-125
	Canister	TTS50-125	TTS50-125	Φ97,276mm double-tier canister, 2 goblets included. Suitable for YDS-50B-125
	Roller Base	YSC-465-5W	YSC-465-5W	"Suitable for tanks with diameter less than Φ465. Can be used for 30L, 35L and 50L tank, equipped with 5 universal wheels."
	SmartCap	LT-125	LT-125-500-6H670	Used for monitoring real time level and temperature for containers with 125mm neck opening, 6 grooves and 670mm height, suitable for YDS-50B-125
	Cork（125）	GS-125-180	GS-125-180	Suitable for YDS-10-125/YDH-10-125/YDS-50B-125
	Lockable cap	SG-125	SG-125	Suitable for container with 125mm and 127mm neck opening

Smart Level & Temp Monitoring

SmartCap

Product Description

SmartCap is a low energy consumption module that can monitor liquid nitrogen level and temperature in a liquid nitrogen tank. It is suitable for aluminium alloy liquid nitrogen tanks with opening port size of 50mm, 80mm, 125mm, 216mm. The built-in high efficiency lithium battery can operate the device for more than two years.



SmartCap

Product Characteristics



Independent, high accuracy measuring system for liquid level and temperature

Real time display of level and temperature.

Built-in high efficiency lithium battery for longevity

Small Sized Storage Series (Square Racks)

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
Smart Cap	SmartCap	LT-50	LT-50-220-6H360	Used for monitoring real time level and temperature for containers with 50mm neck opening, 6 grooves and 360mm height. data can be transmitted to cloud platform, suitable for YDS-3/YDS-6
	SmartCap	LT-50	LT-50-280-6H420	Used for monitoring real time level and temperature for containers with 50mm neck opening, 6 grooves and 420mm height. suitable for YDS-10/YDS-15
	SmartCap	LT-50	LT-50-370-6H540	Used for monitoring real time level and temperature for containers with 50mm neck opening, 6 grooves and 540mm height. suitable for YDS-20/YDS-30
	SmartCap	LT-50	LT-50-400-6H570	Used for monitoring real time level and temperature for containers with 50mm neck opening, 6 grooves and 570mm height. suitable for YDS-25/YDS-35/YDS-35
	SmartCap	LT-50	LT-50-450-6H580	Used for monitoring real time level and temperature for containers with 50mm neck opening, 6 grooves and 580mm height. suitable for YDS-25/YDS-35
	SmartCap	LT-50	LT-50-500-6H640	Used for monitoring real time level and temperature for containers with 50mm neck opening, 6 grooves and 640mm height. suitable for YDS-50
	SmartCap	LT-80	LT-80-220-6H370	Used for monitoring real time level and temperature for containers with 80mm neck opening, 6 grooves and 370mm height. suitable for YDS-6-80
	SmartCap	LT-80	LT-80-280-6H430	Used for monitoring real time level and temperature for containers with 80mm neck opening, 6 grooves and 430mm height. suitable for YDS-10-80/YDS-15-80
	SmartCap	LT-80	LT-80-370-6H530	Used for monitoring real time level and temperature for containers with 80mm neck opening, 6 grooves and 530mm height. suitable for YDS-20-80/YDS-30-80
	SmartCap	LT-80	LT-80-400-6H580	Used for monitoring real time level and temperature for containers with 80mm neck opening, 6 grooves and 580mm height. suitable for YDS-25-80/YDS-35-80
	SmartCap	LT-80	LT-80-500-6H640	Used for monitoring real time level and temperature for containers with 80mm neck opening, 6 grooves and 640mm height. suitable for YDS-50-80
	SmartCap	LT-125	LT-125-280-6H445	Used for monitoring real time level and temperature for containers with 125mm neck opening, 6 grooves and 445mm height. suitable for YDS-10-125/YDS-15-125
	SmartCap	LT-125	LT-125-370-6H540	Used for monitoring real time level and temperature for containers with 80mm neck opening, 6 grooves and 540mm height. suitable for YDS-20-125/YDS-30-125
	SmartCap	LT-125	LT-125-400-6H575	Used for monitoring real time level and temperature for containers with 125mm neck opening, 6 grooves and 575mm height. suitable for YDS-25-125/YDS-35-125/YDS-35-125
	SmartCap	LT-125	LT-125-500-6H670	Used for monitoring real time level and temperature for containers with 125mm neck opening, 6 grooves and 670mm height. suitable for YDS-50B-125
	SmartCap	LT-127	LT-127-370-10H570	Used for monitoring real time level and temperature for containers with 127mm neck opening, 10 grooves and 570mm height. Suitable for YDS-47-127-10T/MVE-XC47/11-10
	SmartCap	LT-127	LT-127-400-6H570	Used for monitoring real time level and temperature for containers with 127mm neck opening, 6 grooves and 570mm height. suitable for YDS-47-127-6Y/YDS-47-127/MVE XC-47/11-6
	SmartCap	LT-216	LT-216-340-6H530	Used for monitoring real time level and temperature for containers with 216mm neck opening, 6 grooves and 530mm height. suitable for YDS-65-216
	SmartCap	LT-216	LT-216-340-4H540D1	Used for monitoring real time level and temperature for containers with 216mm neck opening, 4 grooves and 540mm height. suitable for Thermo-Locator Jr.plus(CY50925-70THERMO)/MVE Crosystem 2000
	SmartCap	LT-216	LT-216-370-6H580	Used for monitoring real time level and temperature for containers with 216mm neck opening, 6 grooves and 580mm height.suitable for YDS-95-216
	SmartCap	LT-216	LT-216-450-6H660	Used for monitoring real time level and temperature for containers with 216mm neck opening, 6 grooves and 660mm height. suitable for YDS-115-216
	SmartCap	LT-216	LT-216-570-6H770	Used for monitoring real time level and temperature for containers with 216mm neck opening, 6 grooves and 770mm height.suitable for YDS-145-216
	SmartCap	LT-216	LT-216-670-6H870	Used for monitoring real time level and temperature for containers with 216mm neck opening, 6 grooves and 870mm height.suitable for YDS-175-216
	SmartCap	T-50	T-50-6H180	Used for monitoring real time temperature for containers with 50mm neck opening, 6 grooves and 180mm heigh cork, data can be transmitted to Haier's IoT platform. suitable for YDH-3
	SmartCap	T-80	T-80-6H180	Used for monitoring real time temperature for containers with 80mm neck opening, 6 grooves and 180mm heigh cork, data can be transmitted to Haier's IoT platform. suitable for YDH-6-80
	SmartCap	T-125	T-125-6H180	Used for monitoring real time temperature for containers with 125mm neck opening, 6 grooves and 180mm heigh cork, data can be transmitted to Haier's IoT platform. suitable for YDH-10-125/YDS-10-125
	SmartCap	T-216	T-216-6H150	Used for monitoring real time temperature for containers with 216mm neck opening, 6 grooves and 150mm heigh cork, data can be transmitted to Haier's IoT platform. suitable for YDH-15-216
	SmartCap	T-216	T-216-6H210	Used for monitoring real time temperature for containers with 125mm neck opening, 6 grooves and 180mm heigh cork, data can be transmitted to Haier's IoT platform. suitable for YDH-10-125/YDS-10-125
	Data repeater	RP-3002G	SG-300	SIM card to tranfer data through GPRS and WIFI, include the SIM card
	Data transfer module-WIFI	RP-300W	RP-300W	WIFI to transfer data; prior for client not in China
	SMS alarm service cost	SMS alarm service cost	SMS alarm service cost	Not recommended
	Cloud platform service cost	Cloud platform service cost	Cloud platform service cost	Suitable for SJ CRYO'S service, charged by quantity of container, 1 year/set
Smart Box	Data repeater	RP-3002G	SG-300	SIM card to tranfer data through GPRS and WIFI, include the SIM card
	Data transfer module-WIFI	RP-300W	RP-300W	WIFI to transfer data; prior for client not in china

High Capacity Series for Storage or Transport (Round Canisters)

High Capacity Series for Storage or Transport (Round Canisters) provides two cryopreservation solutions for long-term static storage and transportation of biological samples.

- Numbered Index Canister Locations
- High Capacity
- High Thermal Efficiency
- 5 Years Vacuum Warranty
- Extended Hold Time
- LN_2 Dispenser
- Round Canisters for Straw Storage
- Lockable
- Roller Bases Available



High Capacity Series for Storage or Transport (Round Canisters)

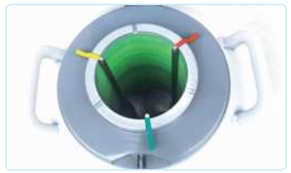
Key Features

- Strong and lightweight aluminium construction
- Heavy duty lockable enclosure offers excellent security
- Numbered index location points for canisters
- Straw storage
- LN_2 dispense pump available
- Roller bases available
- High thermal efficiency
- 5 years vacuum warranty
- Ultra-low evapouration loss

Product Advantages

Narrow neck design and excellent thermal conductivity reduces evapouration loss of liquid nitrogen to extend storage times.

Large-capacity models have wider necks for easy access to biological samples.





Long-term cryopreservation models have narrower necks with less heat intrusion.

Technical Parameters

Model		YDS-2-30	YDS-2-35	YDS-3	YDS-6	YDS-10	YDS-10-80
Maximum Capacity	No. of Canister	3 (3)	3 (3)	6 (0)	6 (0)	6 (0)	6 (0)
	No. of Straws (Single Layer) (0.5ml each canister)	90	165	792	792	792	2244
	No. of Straws (Single Layer) (0.25ml each canister)	204	330	1788	1788	1788	5022
	No. of Straws (Double Layer) (0.5ml each canister)	—	—	—	—	—	—
	No. of Straws (Double Layer) (0.25ml each canister)	—	—	—	—	—	—
Performance	Volume of LN_2 (L)	2	2	3	6	10	10
	Static Evapouration* (L/Day)	0.07	0.08	0.12	0.12	0.12	0.21
	Static Holding Time** (Day)	28	24	26	52	86	48
Dimensions	Opening Diameter (mm)	30	35	50	50	50	80
	Height (mm)	415	435	445	495	565	567
	Outside Diameter (mm)	223	204	223	300	300	300
	Canister Outside Diameter (mm)	19	25	38	38	38	63
	Outside Height (mm)	120	120	120	120	120	120
	Empty Weight (kg)	2.8	2.6	3.1	4.8	6.1	6.2
	Full Weight (kg)	4.5	4.4	6	9.9	14.5	14.7
	Shipping Weight (kg)	5.1	4.9	5.8	8	9	9.3

Model		YDS-10-125	YDS-13	YDS-15	YDS-20	YDS-30
Maximum Capacity	No. of Canister	1 (0)	6 (0)	6 (0)	6 (0)	6 (0)
	No. of Straws (Single Layer) (0.5ml each canister)	854	-	792	792	792
	No. of Straws (Single Layer) (0.25ml each canister)	1940	-	1788	1788	1788
	No. of Straws (Double Layer) (0.5ml each canister)	-	1284	-	1284	1284
	No. of Straws (Double Layer) (0.25ml each canister)	-	2832	-	2832	2832
Performance	Volume of LN_2 (L)	10	13	15	20	30
	Static Evapouration* (L/Day)	0.42	0.12	0.11	0.12	0.12
	Static Holding Time** (Day)	24	109	134	168	254
Dimensions	Opening Diameter (mm)	125	50	50	50	50
	Height (mm)	625	635	610	700	725
	Outside Diameter (mm)	300	310	394	394	462
	Canister Outside Diameter (mm)	97	38	38	38	38
	Outside Height(mm)	120	276	120	120/276	120/276
	Empty Weight (kg)	6.3	6.3	8.5	9.5	12.9
	Full Weight (kg)	15.1	17.3	20.5	28.1	36.6
	Shipping Weight (kg)	8.6	11	13	15	18

Model		YDS-30 -80	YDS-30 -125	YDS-35	YDS-35 -80	YDS-35 -125	YDS-47 -127
Maximum Capacity	No. of Canister	6 (0)	6 (0)	6 (0)	6 (0)	6 (0)	10 (0)
	No. of Straws (Single Layer) (0.5ml each canister)	2244	5124	792	2244	5124	-
	No. of Straws (Single Layer) (0.25ml each canister)	5022	11640	1788	5022	11640	-
	No. of Straws (Double Layer) (0.5ml each canister)	3624	-	1284	3624	9048	8200
	No. of Straws (Double Layer) (0.25ml each canister)	8460	-	2832	8460	20760	16400
Performance	Volume of LN_2 (L)	30	30	35	35	35	47
	Static Evapouration* (L/Day)	0.21	0.35	0.12	0.22	0.37	0.36
	Static Holding Time** (Day)	147	90	286	159	97	130
Dimensions	Opening Diameter (mm)	80	125	50	80	125	127
	Height (mm)	729	725	765	768	765	740
	Outside Diameter (mm)	462	462	462	462	462	508
	Canister Outside Diameter (mm)	63	97	38	63	97	72
	Outside Height (mm)	120/276	120	120/276	120/276	120/276	276
	Empty Weight (kg)	13	13	14.2	14.5	14.6	18.2
	Full Weight (kg)	37	38.9	42.7	42.9	43.2	56.2
	Shipping Weight (kg)	18.3	19.3	20	20.7	22	28

High Capacity Series for Storage or Transport (Round Canisters)

Model		YDS-20B	YDS-30B	YDS-35B
Maximum Capacity	No. of Canister	6 (0)	6 (0)	6 (0)
	No. of Straws (Single Layer) (0.5ml each canister)	792	792	792
	No. of Straws (Single Layer) (0.25ml each canister)	1788	1788	1788
	No. of Straws (Double Layer) (0.5ml each canister)	1284	1284	1284
	No. of Straws (Double Layer) (0.25ml each canister)	2832	2832	2832
Performance	Volume of LN_2 (L)	20	30	35
	Static Evapouration* (L/Day)	0.2	0.2	0.2
	Static Holding Time** (Day)	101	159	179
Dimensions	Opening Diameter (mm)	50	50	50
	Height (mm)	700	725	765
	Outside Diameter (mm)	394	462	462
	Canister Outside Diameter (mm)	38	38	38
	Outside Height (mm)	120/276	120/276	120/276
	Empty Weight (kg)	9.5	12.9	14.2
	Full Weight (kg)	27.9	37.1	42.8
	Shipping Weight (kg)	15.1	18.3	20.1

Model		YDS-35B-80	YDS-35B-125	YDS-50B	YDS-50B-125
Maximum Capacity	No. of Canister	6 (0)	6 (0)	6 (0)	6 (0)
	No. of Straws (Single Layer) (0.5ml each canister)	2244	5124	792	5124
	No. of Straws (Single Layer) (0.25ml each canister)	5022	11640	1788	11640
	No. of Straws (Double Layer) (0.5ml each canister)	3624	9048	1284	9048
	No. of Straws (Double Layer) (0.25ml each canister)	8460	20760	2832	20760
Performance	Volume of LN_2 (L)	35	35	50	50
	Static Evapouration* (L/Day)	0.3	0.41	0.24	0.45
	Duration of Normal Operation** (Day)	119	86	213	110
Dimensions	Opening Diameter (mm)	80	125	50	125
	Height (mm)	768	765	825	830
	Outside Diameter (mm)	462	462	462	462
	Canister Outside Diameter (mm)	63	97	38	97
	Outside Height (mm)	120/276	120/276	120/276	120/276
	Empty Weight (kg)	14.5	14.6	17.2	17.3
	Full Weight (kg)	43	43.5	60.3	62
	Shipping Weight (kg)	20.7	22	24	25.4

† A(B): A for maximum number of canisters, B for number of canisters in standard configuration

* Static evapouration and static holding time are theoretical values. Actual evapouration and holding time are affected by usage, atmospheric conditions and manufacturing tolerances.

** Static Holding Time: the amount of days it takes for all of the LN to evapourate out after container is filled with liquid nitrogen to pre-cool and reach thermal equilibrium and the liquid nitrogen filling rate reaches 100% under standard atmospheric condition.

Vials Cane Specification

Canister	Height 120mm, Diameter 38mm (50mm neck)		
Vials	Canes/Canister	Vials/Cane	Vials/Canister
0.5ml	4	3	12
1.5ml	4	3	12
2ml	4	3	12
3ml	4	3	12
5ml	4	1	4

Canister	Height 276mm, Diameter 38mm (50mm neck)		
Vials	Canes/Canister	Vials/Cane	Vials/Canister
0.5ml	4	6	24
1.5ml	4	6	24
2ml	4	6	24
3ml	4	6	24
5ml	4	3	12

Canister	Height 120mm, Diameter 63mm (80mm neck)		
Vials	Canes/Canister	Vials/Cane	Vials/Canister
0.5ml	16	3	48
1.5ml	16	3	48
2ml	16	3	48
3ml	16	3	48
5ml	16	1	16

Canister	Height 276mm, Diameter 63mm (80mm neck)		
Vials	Canes/Canister	Vials/Cane	Vials/Canister
0.5ml	16	6	96
1.5ml	16	6	96
2ml	16	6	96
3ml	16	6	96
5ml	16	3	48

Canister	Height 120mm, Diameter 72mm (127mm neck)		
Vials	Canes/Canister	Vials/Cane	Vials/Canister
0.5ml	21	3	63
1.5ml	21	3	63
2ml	21	3	63
3ml	21	3	63
5ml	21	1	21

Canister	Height 276mm, Diameter 72mm (127mm neck)		
Vials	Canes/Canister	Vials/Cane	Vials/Canister
0.5ml	21	6	126
1.5ml	21	6	126
2ml	21	6	126
3ml	21	6	126
5ml	21	3	63

Canister	Height 120mm, Diameter 97mm (125mm neck)		
Vials	Canes/Canister	Vials/Cane	Vials/Canister
0.5ml	-	-	-
1.5ml	40	3	120
2ml	40	3	120
3ml	40	3	120
5ml	40	1	40

Canister	Height 276mm, Diameter 97mm (125mm neck)		
Vials	Canes/Canister	Vials/Cane	Vials/Canister
0.5ml	-	-	-
1.5ml	40	6	240
2ml	40	6	240
3ml	40	6	240
5ml	40	3	120

Canister	Height 120mm, Diameter 104mm (127mm neck)		
Vials	Canes/Canister	Vials/Cane	Vials/Canister
0.5ml	-	-	-
1.5ml	46	3	138
2ml	46	3	138
3ml	46	3	138
5ml	46	1	46

Canister	Height 276mm, Diameter 104mm (127mm neck)		
Vials	Canes/Canister	Vials/Cane	Vials/Canister
0.5ml	-	-	-
1.5ml	46	6	276
2ml	46	6	276
3ml	46	6	276
5ml	46	3	138

Accessories



Vial



Vial cane



Canister

High Capacity Series for Storage or Transport (Round Canisters)

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
YDS-2-30	Liquid Nitrogen container	YDS-2-30	YDS-2-30-YS	Includes 3 canisters, lockable cap and PU bag
	Canister	TT2-30	TT2-30	Φ19, 120mm single tier canister, No goblet, suitable for YDS-2-30
	Cork (30)	GS-30-125	GS-30-125	Suitable for YDS-2-30
	Lockable cap	SG-30	SG-30	Suitable for container with 30mm neck opening, suitable for YDS-2-30
YDS-2-35	Liquid Nitrogen container	YDS-2-35	YDS-2-35-YS	Includes 3 canisters, lockable cap and Braces for carrying, no PU bag
	Canister	TT2-35	TT2-35	Φ25,120mm single tier canister, No goblet, suitable for YDS-2-35
	Cork (30)	GS-35-125	GS-35-125	Suitable for YDS-2-35
	Lockable cap	SG-35	SG-35	Suitable for container with 35mm neck opening, suitable for YDS-2-35
YDS-3	Liquid Nitrogen container	YDS-3	YDS-3-YS	Includes 6 canisters (Height 120mm), lockable cap and PU bag
	Liquid Nitrogen container	YDS-3	YDS-3-W	Includes PU bag only
	Canister	TT3-50	TT3-50	Φ38, 120mm single tier canister, No goblet, suitable for YDS-3
	Cork (50)	GS-50-180	GS-50-180	Suitable for YDS-3/YDH-3/YDS-6/YDS-10/YDS-13/YDS-25/YDS-50B
	Lockable cap	SG-50	SG-50	Suitable for container with 50mm neck opening
YDS-6	Liquid Nitrogen container	YDS-6	YDS-6-YS	Includes 6 canisters (Height 120mm), lockable cap and PU bag
	Liquid Nitrogen container	YDS-6	YDS-6-W	Includes PU bag only
	Canister	TT6-50	TT6-50	Φ38,120mm single tier canister, No goblet, suitable for YDS-6
	Cork (50)	GS-50-180	GS-50-180	Suitable for YDS-3/YDH-3/YDS-6/YDS-10/YDS-13/YDS-25/YDS-50B
	Lockable cap	SG-50	SG-50	Suitable for container with 50mm neck opening
YDS-10	Liquid Nitrogen container	YDS-10	YDS-10-YS	Includes 6 canisters (Height 120mm), lockable cap and PU bag
	Liquid Nitrogen container	YDS-10	YDS-10-W	Includes PU bag only
	Canister	TT10-50	TT10-50	Φ38,120mm single tier canister, No goblet, suitable for YDS-10
	Cork (50)	GS-50-180	GS-50-180	Suitable for YDS-3/YDH-3/YDS-6/YDS-10/YDS-13/YDS-25/YDS-50B
	Lockable cap	SG-50	SG-50	Suitable for container with 50mm neck opening
YDS-10-80	Liquid Nitrogen container	YDS-10-80	YDS-10-80-YS	Includes 6 canisters (Height 120mm), lockable cap and PU bag
	Liquid Nitrogen container	YDS-10-80	YDS-10-80-W	Includes PU bag only
	Canister	TT10-80	TT10-80	Φ63,120mm single tier canister, No goblet, suitable for YDS-10-80
	Cork (80)	GS-80-180	GS-80-180	Suitable for YDH-6-80/YDS-10-80
	Lockable cap	SG-80	SG-80	Suitable for container with 80mm neck opening
YDS-13	Liquid Nitrogen container	YDS-13	YDS-13-LYS	Includes 6 canisters (Height 276mm), lockable cap and PU bag
	Liquid Nitrogen container	YDS-13	YDS-13-W	Includes PU bag only
	Canister	TTS13-50	TTS13-50	Φ38,276mm double-tier canister, 2 goblets included, Suitable for YDS-13
	Cork (50)	GS-50-180	GS-50-180	Suitable for YDS-3/YDH-3/YDS-6/YDS-10/YDS-13/YDS-25/YDS-50B
	Lockable cap	SG-50	SG-50	Suitable for container with 50mm neck opening

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
YDS-15	Liquid Nitrogen container	YDS-15	YDS-15-YS	Includes 6 canisters(Height 120mm), lockable cap and PU bag
	Liquid Nitrogen container	YDS-15	YDS-15-W	Includes PU bag only
	Canister	TT15-50	TT15-50	Φ38,120mm single tier canister, No goblet, suitable for YDS-15
	Cork (50)	GS-50-210	GS-50-210	Suitable for YDS-15/YDS-20/YDS-30/YDS-35/YDS-20B/YDS-30B/YDS-35B
	Lockable cap	SG-50	SG-50	Suitable for container with 50mm neck opening
YDS-20	Liquid Nitrogen container	YDS-20	YDS-20-LYS	Includes 6 canisters (Height 276mm), lockable cap and PU bag
	Liquid Nitrogen container	YDS-20	YDS-20-YS	Includes 6 canisters (Height 120mm), lockable cap and PU bag
	Liquid Nitrogen container	YDS-20	YDS-20-W	Includes PU bag only
	Canister	TT30-50	TT30-50	Φ38,120mm single tier canister, No goblet, suitable for YDS-20/YDS-30
	Canister	TTS30-50	TTS30-50	Φ 38,276mm double-tier canister, 2 goblets included, Suitable for YDS-20/YDS-30
	Cork (50)	GS-50-210	GS-50-210	Suitable for YDS-15/YDS-20/YDS-30/YDS-35/YDS-20B/YDS-30B/YDS-35B
	Lockable cap	SG-50	SG-50	Suitable for container with 50mm neck opening
YDS-30	Liquid Nitrogen container	YDS-30	YDS-30-LYS	Includes 6 canisters(Height 276mm), lockable cap and PU bag,roller base is optional
	Liquid Nitrogen container	YDS-30	YDS-30-YS	Includes 6 canisters(Height 120mm), lockable cap and PU bag, roller base is optional
	Liquid Nitrogen container	YDS-30	YDS-30-W	Includes PU bag only, roller base is optional
	Canister	TT30-50	TT30-50	Φ38,120mm single tier canister, No goblet, suitable for YDS-20/YDS-30
	Canister	TTS30-50	TTS30-50	Φ 38,276mm double-tier canister, 2 goblets included, Suitable for YDS-20/YDS-30
	Roller Base	YSC-465-5W	YSC-465-5W	"Suitable for tanks with diameter less than Φ465, Can be used for 30L, 35L and 50L tank, equipped with 5 universal wheels."
	SmartCap	LT-50	LT-50-370-6H540	Used for monitoring real time level and temperature for containers with 50mm neck opening, 6 grooves and 540mm height, suitable for YDS-20/YDS-30
	Cork (50)	GS-50-210	GS-50-210	Suitable for YDS-15/YDS-20/YDS-30/YDS-35/YDS-20B/YDS-30B/YDS-35B
	Lockable cap	SG-50	SG-50	Suitable for container with 50mm neck opening
YDS-30-80	Liquid Nitrogen container	YDS-30-80	YDS-30-80-LYS	Includes 6 canisters(Height 276mm), lockable cap and PU bag,roller base is optional
	Liquid Nitrogen container	YDS-30-80	YDS-30-80-YS	Includes 6 canisters(Height 120mm), lockable cap and PU bag, roller base is optional
	Liquid Nitrogen container	YDS-30-80	YDS-30-80-W	Includes PU bag only, roller base is optional
	Canister	TT30-80	TT30-80	Φ63,120mm single tier canister, No goblet, suitable for YDS-30-80
	Canister	TTS30-80	TTS30-80	Φ 63,276mm double-tier canister, 2 goblets included, Suitable for YDS-30-80
	Roller Base	YSC-465-5W	YSC-465-5W	"Suitable for tanks with diameter less than Φ465, Can be used for 30L, 35L and 50L tank, equipped with 5 universal wheels."
	SmartCap	LT-80	LT-80-370-6H530	Used for monitoring real time level and temperature for containers with 80mm neck opening, 6 grooves and 530mm height, suitable for YDS-20-80/YDS-30-80
	Cork (80)	GS-80-210	GS-80-210	Suitable for YDS-30-80/YDS-35-80/YDS-35B-80
	Lockable cap	SG-80	SG-80	Suitable for container with 80mm neck opening
YDS-35	Liquid Nitrogen container	YDS-35	YDS-35-LYS	Includes 6 canisters(Height 276mm), lockable cap and PU bag,roller base is optional
	Liquid Nitrogen container	YDS-35	YDS-35-YS	Includes 6 canisters(Height 120mm), lockable cap and PU bag, roller base is optional
	Liquid Nitrogen container	YDS-35	YDS-35-W	Includes PU bag only, roller base is optional
	Canister	TT35-50	TT35-50	Φ38,120mm single tier canister, No goblet, suitable for YDS-25/YDS-35
	Canister	TTS35-50	TTS35-50	Φ 38,276mm double-tier canister, 2 goblets included, Suitable for YDS-35
	Roller Base	YSC-465-5W	YSC-465-5W	"Suitable for tanks with diameter less than Φ465, Can be used for 30L, 35L and 50L tank, equipped with 5 universal wheels."
	SmartCap	LT-50	LT-50-450-6H580	Used for monitoring real time level and temperature for containers with 50mm neck opening, 6 grooves and 580mm height, suitable for YDS-25/YDS-35
	Cork (50)	GS-50-210	GS-50-210	Suitable for YDS-15/YDS-20/YDS-30/YDS-35/YDS-20B/YDS-30B/YDS-35B
	Lockable cap	SG-50	SG-50	Suitable for container with 50mm neck opening
YDS-35-80	Liquid Nitrogen container	YDS-35-80	YDS-35-80-LYS	Includes 6 canisters(Height 276mm), lockable cap and PU bag,roller base is optional
	Liquid Nitrogen container	YDS-35-80	YDS-35-80-W	Includes PU bag only, roller base is optional
	Canister	TT35-80	TT35-80	Φ63,120mm single tier canister, No goblet, suitable for YDS-35-80
	Canister	TTS35-80	TTS35-80	Φ 63,276mm double-tier canister, 2 goblets included, Suitable for YDS-35-80
	Roller Base	YSC-465-5W	YSC-465-5W	"Suitable for tanks with diameter less than Φ465, Can be used for 30L, 35L and 50L tank, equipped with 5 universal wheels."
	SmartCap	LT-80	LT-80-400-6H580	Used for monitoring real time level and temperature for containers with 80mm neck opening, 6 grooves and 580mm height, suitable for YDS-25-80/YDS-35-80
	Cork (80)	GS-80-210	GS-80-210	Suitable for YDS-30-80/YDS-35-80/YDS-35B-80
	Lockable cap	SG-80	SG-80	Suitable for container with 80mm neck opening

High Capacity Series for Storage or Transport (Round Canisters)

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
YDS-20B	Liquid nitrogen container	YDS-20B	YDS-20B-W	Includes PU bag only.
	Canister	TT30-50	TT30-50	Φ38,120mm single tier canister, No goblet, suitable for YDS-20/YDS-30
	Canister	TTS30-50	TTS30-50	Φ38,276mm double-tier canister, 2 goblets included.Suitable for YDS-20/YDS-30
	Cork (50)	GS-50-210	GS-50-210	Suitable for YDS-15/YDS-20/YDS-30/YDS-35/YDS-20B/YDS-30B/YDS-35B
	Lockable cap	SG-50	SG-50	Suitable for container with 50mm neck opening
YDS-30B	Liquid nitrogen container	YDS-30B	YDS-30B-W	Includes PU bag only, roller base is optional
	Canister	TT30-50	TT30-50	Φ38,120mm single tier canister, No goblet, suitable for YDS-20/YDS-30
	Canister	TTS30-50	TTS30-50	Φ38,276mm double-tier canister, 2 goblets included. Suitable for YDS-20/YDS-30
	Roller base	YSC-465-5W	YSC-465-5W	Suitable for tanks with diameter less than Φ465. Can be used for 30L, 35L and 50L tank, equipped with 5 universal wheels.
	Cork (50)	GS-50-210	GS-50-210	Suitable for YDS-15/YDS-20/YDS-30/YDS-35/YDS-20B/YDS-30B/YDS-35B
	Lockable cap	SG-50	SG-50	Suitable for container with 50mm neck opening
YDS-35B	Liquid nitrogen container	YDS-35B	YDS-35B-W	Includes PU bag only, roller base is optional
	Canister	TT35-50	TT35-50	Φ38,120mm single tier canister, No goblet, suitable for YDS-25/YDS-35
	Canister	TTS35-50	TTS35-50	Φ38,276mm double-tier canister, 2 goblets included. Suitable for YDS-35
	Roller base	YSC-465-5W	YSC-465-5W	Suitable for tanks with diameter less than Φ465. Can be used for 30L, 35L and 50L tank, equipped with 5 universal wheels.
	Cork (50)	GS-50-210	GS-50-210	Suitable for YDS-15/YDS-20/YDS-30/YDS-35/YDS-20B/YDS-30B/YDS-35B
	Lockable cap	SG-50	SG-50	Suitable for container with 50mm neck opening

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
YDS-35B-80	Liquid Nitrogen container	YDS-35B-80	YDS-35B-80-W	Includes PU bag only, roller base is optional
	Canister	TT35-80	TT35-80	Φ63,120mm single tier canister, No goblet, suitable for YDS-35-80
	Canister	TTS35-80	TTS35-80	Φ63,276mm double-tier canister, 2 goblets included. Suitable for YDS-35-80
	Roller Base	YSC-465-5W	YSC-465-5W	"Suitable for tanks with diameter less than Φ465. Can be used for 30L, 35L and 50L tank, equipped with 5 universal wheels."
	Cork (80)	GS-80-210	GS-80-210	Suitable for YDS-30-80/YDS-35-80/YDS-35B-80
	Lockable cap	SG-80	SG-80	Suitable for container with 80mm neck opening
YDS-35B-125	Liquid Nitrogen container	YDS-35B-125	YDS-35B-125-W	Includes PU bag only
	Canister	TT35-125	TT35-125	Φ97,120mm single tier canister, No goblet, suitable for YDS-35-125
	Canister	TTS35-125	TTS35-125	Φ97,276mm double-tier canister, 2 goblets included. Suitable for YDS-35-125
	Rack	FTT-25-5H	FTT-25-5H	Used for storing 5*5 cryo boxes(2ml), 5 layers in total, with 5*5 cryo boxes included, suitable for YDS-35-125
	Roller Base	YSC-465-5W	YSC-465-5W	"Suitable for tanks with diameter less than Φ465. Can be used for 30L, 35L and 50L tank, equipped with 5 universal wheels."
	Cork (125)	GS-125-210	GS-125-210	Suitable for YDS-30-125/YDS-35-125/YDS-47-127/YDS-35B-125
	Lockable cap	SG-125	SG-125	Suitable for container with 125mm and 127mm neck opening
YDS-50B	Liquid Nitrogen container	YDS-50B	YDS-50B-W	Includes PU bag only, roller base is optional
	Canister	TT50-50	TT50-50	Φ38,120mm single tier canister, No goblet, suitable for YDS-50
	Canister	TTS50-50	TTS50-50	Φ38,276mm double-tier canister, 2 goblets included. Suitable for YDS-50
	Roller Base	YSC-465-5W	YSC-465-5W	"Suitable for tanks with diameter less than Φ465. Can be used for 30L, 35L and 50L tank, equipped with 5 universal wheels."
	Smart cap	LT-50-500-6H640	LT-50-500-6H640	Used for monitoring real time level and temperature for containers with 50mm neck opening, 6 grooves and 640mm height, suitable for YDS-50
	Cork (50)	GS-50-180	GS-50-180	Suitable for YDS-3/YDH-3/YDS-6/YDS-10/YDS-13/YDS-25/YDS-50B
	Lockable cap	SG-50	SG-50	Suitable for container with 50mm neck opening

Dryshipper Series for Transportation (Round Canisters)

Dryshipper Series for Transportation (Round Canisters) is designed for safe sample transportation under cryogenic conditions (vapour phase storage, temperature under -190°C). Since the risk of LN_2 release is avoided, it is suitable for air transportation of samples.

- Rugged and Durable
- 3 Years Vacuum Warranty
- Cryo Absorbant
- Vapour Phase Storage
- Secure
- No LN_2 Spillage



Key Features

- Straw and cryovial storage options
- Rugged and durable aluminium construction
- Designed to ensure no LN_2 spillage
- Vapour phase cryogenic storage
- Faster LN_2 fill times
- Lockable lids
- 3 years vacuum warranty

Product Advantages

Liquid Nitrogen Adsorption

Adsorbent materials are used to absorb and retain LN_2 for safe transport. No spillover of LN_2 can occur even when the tank is capsized.

Stainless Steel Mesh

Special stainless steel mesh divides storage space and LN_2 absorbents to prevent absorbent materials from contaminating the samples.

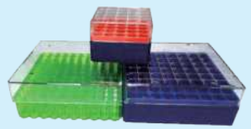
Complete Accessories Set

All models are offered a variety of stainless steel canisters and polycarbonate cryogenic boxes. Locking cover is optional.



Accessories

Plastic Cryo Box



Canister+Rack



Rack (vertical type)



Protective Case



Dryshipper Series for Transportation (Round Canisters)

Technical Parameters

Model	YDH-3-YS	YDH-6-80-YS	YDH-10-125-F	YDH-15-216-F	YDH-25-216-F
Maximum Storage Capacity					
No. of Canister	1	1	1	1	1
No. of Straws (0.5ml / EA)	132	374	854	—	—
No. of Straws (0.25ml / EA)	298	837	1940	—	—
No. of 2.0 ml Cryovials	—	—	—	300	500
No. of Boxes in (2ml per holder)	—	—	—	3	5
Performance					
Volume of LN (L)	3	6	10	15	25
Absorbable Volume of LN_2 (L)	1.3	2.9	3.4	6	9
Static Evapouration* (L/Day)	0.16	0.2	0.43	1.5	0.89
Liquid Phase Static Holding Time**(Day)	20	37	23	10	29
Vapour Phase Static Holding Time***(Day)	8	14	8	4	10
Dimensions					
Opening Diameter (mm)	50	80	125	216	216
Height (mm)	445	500	625	555	730
Outside Diameter (mm)	223	300	300	394	394
Canister Outside Diameter (mm)	38	63	97	—	—
Outside Height (mm)	120	120	120	—	—
Empty Weight (kg)	3.2	6.5	8.9	13	15
Full Weight (kg)	4.7	8.9	12.5	17.8	23
Shipping Weight (kg)	5.5	7.7	9.7	15.2	20.5

* Static evapouration and static holding time are theoretical values. Actual evapouration and holding time are affected by usage, atmospheric conditions and manufacturing tolerances.

** Liquid Phase Static Holding Time: the amount of days it takes for all of the LN to evapourate out after container is filled with liquid nitrogen to pre-cool and reach thermal equilibrium and the liquid nitrogen filling rate reaches 100% under standard atmospheric condition.

*** Vapour Phase Static Holding Time: the amount of days it takes for all of the LN to evapourate out after pouring liquid nitrogen into container to makeing absorbent materials fully absorb LN under standard atmospheric condition.

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
YDH-3	Dry shipper	YDH-3	YDH-3-YS	Includes 1 canister (Height 120mm), lockable cap and PU bag
	Canister	TTH3-50	TTH3-50	Φ38,120mm single tier canister, No goblet, suitable for YDH-3
	Smart cap	T-50	T-50-6H180	Used for monitoring real time temperature for containers with 50mm neck opening, 6 grooves and 180mm heigh cork, data can be transmitted to Haier's IoT platform, suitable for YDH-3
	Cork (50)	GS-50-180	GS-50-180	Suitable for YDS-3/YDH-3/YDS-6/YDS-10/YDS-13/YDS-25/YDS-50B
	Lockable cap	SG-50	SG-50	Suitable for container with 50mm neck opening
YDH-6-80	Dry shipper	YDH-6-80	YDH-6-80-YS	Includes 1 canister (Height 120mm), lockable cap and PU bag
	Canister	TTH6-80	TTH6-80	Φ63,120mm single tier canister, No goblet, suitable for YDH-6-80
	Smart cap	T-80	T-80-6H180	Used for monitoring real time temperature for containers with 80mm neck opening, 6 grooves and 180mm heigh cork, data can be transmitted to Haier's IoT platform, suitable for YDH-6-80
	Cork (80)	GS-80-180	GS-80-180	Suitable for YDH-6-80/YDS-10-80
	Lockable cap	SG-80	SG-80	Suitable for container with 80mm neck opening
	Protective case	HKX-300/530	/	Suitab for YDH-6-80
YDH-10-125	Dry shipper	YDH-10-125	YDH-10-125-FH	Includes 1 rack (4 layers),5*5 cryoboxes, lockable cap and PU bag
	Dry shipper	YDH-10-125	YDH-10-125-S	Includes lockable cap and PU bag; No Rack
	Rack	FTT-25-4H	FTT-25-4H	Used for storing 5*5 cryo boxes (2ml), 4 layers in total, with 5*5 cryo boxes included, suitable for YDS-30-125/YDS-10-125
	Canister	TTH10-125	TTH10-125	Φ97,120mm single tier canister, No goblet, suitable for YDH-10-125
	Smart cap	T-125	T-125-6H180	Used for monitoring real time temperature for containers with 125mm neck opening, 6 grooves and 180mm heigh cork, data can be transmitted to Haier's IoT platform, suitable for YDH-10-125/YDS-10-125
	Cork (125)	GS-125-180	GS-125-180	Suitable for YDS-10-125/YDH-10-125/YDS-50B-125
	Lockable cap	SG-125	SG-125	Suitable for container with 125mm and 127mm neck opening
	Protective case X	HKX-300/660	HKX-300/660	Suitable for YDH-10-125
YDH-15-216	Dry shipper	YDH-15-216	YDH-15-216-FH	Includes 1 rack (3 layers),9*9 cryoboxes , lockable cap and PU bag
	Rack (vertical type)	FDCJ-81-3H	FDCJ-81-3H	Used for storing 9*9 cryo boxes (2ml), 3 layers in total, With 9*9 cryoboxes included, Suitable for YDH-15-216
	Smart cap	T-216	T-216-6H150	Used for monitoring real time temperature for containers with 216mm neck opening, 6 grooves and 150mm heigh cork, data can be transmitted to Haier's IoT platform, suitable for YDH-15-216
	Cork (216-2)	GS-216-150 (L)	GS-216-150 (L)	Suitable for YDH-15-216
	Lockable cap	SG-216	SG-216	Suitable for container with 216mm neck opening
YDH-25-216	Dry shipper	YDH-25-216	YDH-25-216-FH	Includes 1 rack (5 layers),9*9 cryoboxes , lockable cap and PU bag
	Rack (vertical type)	FDCJ-81-5H	FDCJ-81-5H	Used for storing 9*9 cryo boxes (2ml), 5 layers in total, with 9*9 cryoboxes included,suitable for YDH-25-216\YDS-95-216
	Smart cap	T-216	T-216-6H210	Used for monitoring real time temperature for containers with 216mm neck opening, 6 grooves and 210mm heigh cork, data can be transmitted to Haier's IoT platform, suitable for YDH-25-216/YDS-65-216/YDS-95-216/YDS-115-216/YDS-145-216/YDS-175-216
	Cork (216)	GS-216-220-7	GS-216-220-7	Suitable for YDS-65-216/YDS-95-216/YDS-115-216/YDS-145-216/YDS-175-216/ YDH-15-216/YDH-25-216
	Lockable cap	SG-216	SG-216	Suitable for container with 216mm neck opening
	Protective case	HKX-394/800	/	Suitable for YDH-25-216

Self-pressurized Series for LN_2 Storage and Supply

Liquid Nitrogen Supplement Series for LN_2 Storage and Supply incorporates the latest innovation, its unique design utilises the pressure generated from the vapourisation of a small amount liquid nitrogen to discharge LN_2 into other containers. Storage capacities range from 5 to 500 litres.

- 5 Year Vacuum Warranty
- Decant Valves
- Liquid Storage
- Stainless Steel Construction
- Pressure Raising
- Integral Safety Mechanisms



Key Features

- All models are equipped with safety valves
- All welded stainless steel construction
- Rotary ring construction
- Labelled valves for easy identification
- 5 year vacuum warranty

Product Advantages

Stainless Steel Structure

Stainless steel structure can withstand the most demanding environment and ensure long-lasting security. It also provides reduced evapouration loss rate, compared with conventional welding insulation tanks.

Variety of accessories

Each Self-pressurized Series for LN2 Storage and Supply model is equipped with a pressure valve, a drain valve, a relief valve, and a pressure gauge.

Casters

All models have four casters for better mobility and convenient use in different occasions.

Accessories

Transfer Hose



Float-type Liquidometer



Additional Series for Liquid Nitrogen Tank (Comparison between Standard Series and K Series)

Standard series



K series



New Functions of K Series

Digital Display Level Gauge

DLZ-300
Digital display of fluid level
Remote data transmission function



Large diameter vent valve

Rapid relief of over pressure
Protection of safety valve



Pressure stabilizing valve

Stabilize fluid pressure during auto filling



Self-pressurized Series for LN_2 Storage and Supply

Technical Parameters

Model	YDZ-5	YDZ-15	YDZ-30	YDZ-50	YDZ-100 YDZ-100K
Performance					
Volume of LN_2 (L)	5	15	30	50	100
Static Evapouration (L/Day)	0.15	0.38	0.75	1	1.3
LN_2 Output (L/Min)	≥2	≥2	≥3	≥3	≥4
Dimensions					
Height (mm)	652	771	879	1009	1179
Outside Diameter (mm)	354	404	454	506	606
Empty Weight (kg)	19	26	32	54	86
Full Weight (kg)	23.0	38.1	62.2	94.4	166.8
Shipping Weight (kg)	32	37	53	63	107
Pressure Parameters (MPA)	1. Standard working pressure 0.05, 2. Maximum working pressure 0.09, 3. First stage safety valve relief pressure 0.099, 4. Second stage safety valve release pressure 0.15, 5. Pressure gauge range 0-0.25				

Model	YDZ-150	YDZ-200 YDZ-200K	YDZ-240K	YDZ-300 YDZ-300K	YDZ-500 YDZ-500K
Performance					
LN_2 Capacity (L)	150	200	240	300	500
Static Evapouration (L/Day)	1.95	2.4	2.9	3.3	5.5
LN_2 Output (L/Min)	≥6	≥8	≥8	≥8	≥10
Dimensions					
Height (mm)	1208	1288	1405	1484	1607
Outside Diameter (mm)	706	758	758	858	1008
Empty Weight (kg)	107	145	159	193	273
Full Weight (kg)	228	307	353	435	677
Shipping Weight (kg)	137	179	188	223	342
Pressure Parameters (MPA)	1. Standard working pressure 0.05, 2. Maximum working pressure 0.09, 3. First stage safety valve relief pressure 0.099, 4. Second stage safety valve release pressure 0.15, 5. Pressure gauge range 0-0.25, 6. Rupture disc burst pressure 0.47.				

* Static evapouration and static holding time are theoretical values. Actual evapouration and holding time are affected by usage, atmospheric conditions and manufacturing tolerances.

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
YDS	Self-pressurized Filling tank	YDZ-5	YDZ-5-W	Includes single-layer transfusion hoses (ZG-DN10/1.5)
	Self-pressurized Filling tank	YDZ-15	YDZ-15-W	Includes single-layer transfusion hoses (ZG-DN10/1.5)
	Self-pressurized Filling tank	YDZ-30	YDZ-30-W	Includes single-layer transfusion hoses (ZG-DN10/1.5)
	Self-pressurized Filling tank	YDZ-50	YDZ-50-W	Includes single-layer transfusion hoses (ZG-DN10/1.5)
	Self-pressurized Filling tank	YDZ-100	YDZ-100-F	Includes single-layer transfusion hoses (ZG-DN10/1.5) and float-type liquidometer
	Self-pressurized Filling tank	YDZ-150	YDZ-150-F	Includes single-layer transfusion hoses (ZG-DN10/1.5) and float-type liquidometer
	Self-pressurized Filling tank	YDZ-200	YDZ-200-F	Includes single-layer transfusion hoses (ZG-DN10/1.5) and float-type liquidometer
	Self-pressurized Filling tank	YDZ-300	YDZ-300-F	Includes single-layer transfusion hoses (ZG-DN10/1.5) and float-type liquidometer
	Self-pressurized Filling tank	YDZ-500	YDZ-500-F	Includes single-layer transfusion hoses (ZG-DN10/1.5) and float-type liquidometer
	Self-pressurized Filling tank	YDZ-100K	YDZ-100-K	Includes single-layer transfusion hoses (ZG-DN10/1.5).Digital display level gauge (DLZ-300) and pressure stabilizer, can be used for auto filling
	Self-pressurized Filling tank	YDZ-200K	YDZ-200-K	Includes single-layer transfusion hoses (ZG-DN10/1.5).Digital display level gauge (DLZ-300) and pressure stabilizer, can be used for auto filling
	Self-pressurized Filling tank	YDZ-240K	YDZ-240-K	Includes single-layer transfusion hoses (ZG-DN10/1.5).Digital display level gauge (DLZ-300) and pressure stabilizer, can be used for auto filling
	Self-pressurized Filling tank	YDZ-300K	YDZ-300-K	Includes single-layer transfusion hoses (ZG-DN10/1.5).Digital display level gauge (DLZ-300) and pressure stabilizer, can be used for auto filling
	Self-pressurized Filling tank	YDZ-320K	YDZ-320-K	Includes single-layer transfusion hoses (ZG-DN10/1.5).Digital display level gauge (DLZ-300) and pressure stabilizer, can be used for auto filling
	Self-pressurized Filling tank	YDZ-500K	YDZ-500-K	Includes single-layer transfusion hoses (ZG-DN10/1.5).Digital display level gauge (DLZ-300) and pressure stabilizer, can be used for auto filling
	Digital display level gauge	DLZ-300(YDZ-240K)	DLZ-300(YDZ-240K)	Digital display real time liquid nitrogen level of self pressurized tank, low power consumption battery, wireless transmission (YDZ-240K)
	Digital display level gauge	DLZ-300(YDZ-320K)	DLZ-300(YDZ-320K)	Digital display real time liquid nitrogen level of self pressurized tank, low power consumption battery, wireless transmission (YDZ-320K)
	Digital display level gauge	DLZ-300(YDZ-500K)	DLZ-300(YDZ-500K)	Digital display real time liquid nitrogen level of self pressurized tank, low power consumption battery, wireless transmission (YDZ-500K)
	Float-type Liquidometer	FZ-100	FZ-100	Suitable for YDZ-100
	Float-type Liquidometer	FZ-150	FZ-150	Suitable for YDZ-150
	Float-type Liquidometer	FZ-200	FZ-200	Suitable for YDZ-200
	Float-type Liquidometer	FZ-300	FZ-300	Suitable for YDZ-300
	Float-type Liquidometer	FZ-500	FZ-500	Suitable for YDZ-500

Self-pressurized Series for LN2 Storage and Supply

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
LN Pump	LN pump-Hand held type	YDB-5S-50	YDB-5S-50	Suitable for tank (20L-50L)with 50mm neck opening
	LN pump-Foot step type	YDB-8J-50	YDB-8J-50	Suitable for tank (20L-50L)with 50mm neck opening
Roller Base	Roller Base	YSC-600-5W	YSC-600-5W	Suitable for tanks with diameter less than Φ600. Suitable for GP 65L and 120L aluminium tank
	Roller Base	YSC-685-5W	YSC-685-5W	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels
	Roller Base	YSC-465-5W	YSC-465-5W	"Suitable for tanks with diameter less than Φ465. Can be used for 30L, 35L and 50L tank, equipped with 5 universal wheels."
	Roller Base	YSC-525-5W	YSC-525-5W	Suitable for tanks with diameter less than Φ525. Can be used for 47L alunimium tank, equipped with 5 universal wheels
YDS/YDZ Temperature Detector	Liquid Nitrogen Temperature Detector	ZTC-100A	ZTC-100A	Using platinum resistor to measure the temperature, and setting single-point level alarm through the temperature: with buzzer alarm function available
Full Bottom Canister	Full Bottom Canister	MTT2-30	MTT2-30	Φ19, 120mm single tier canister (full bottom), No goblet, suitable for YDS-2-30
	Full Bottom Canister	MTT2-35	MTT2-35	Φ25, 120mm single tier canister (full bottom), No goblet, suitable for YDS-2-35
	Full Bottom Canister	MTT3-50	MTT3-50	Φ38, 120mm single tier canister (full bottom), No goblet, suitable for YDS-3
	Full Bottom Canister	MTTH3-50	MTTH3-50	Φ38, 120mm single tier canister (full bottom), No goblet, suitable for YDH-3
	Full Bottom Canister	MTT6-50	MTT6-50	Φ38, 120mm single tier canister (full bottom), No goblet, suitable for YDS-6
	Full Bottom Canister	MTT10-50	MTT10-50	Φ38, 120mm single tier canister (full bottom), No goblet, suitable for YDS-10
	Full Bottom Canister	MTT15-50	MTT15-50	Φ38, 120mm single tier canister (full bottom), No goblet, suitable for YDS-15
	Full Bottom Canister	MTT30-50	MTT30-50	Φ38, 120mm single tier canister (full bottom), No goblet, suitable for YDS-20/YDS-30
	Full Bottom Canister	MTT35-50	MTT35-50	Φ38, 120mm single tier canister (full bottom), No goblet, suitable for YDS-25、YDS-35
	Full Bottom Canister	MTT50-50	MTT50-50	Φ38, 120mm single tier canister (full bottom), No goblet, suitable for YDS-50
	Full Bottom Canister	MTTH6-80	MTTH6-80	Φ63, 120mm single tier canister (full bottom), No goblet, suitable for YDH-6-80
	Full Bottom Canister	MTT10-80	MTT10-80	Φ63, 120mm single tier canister (full bottom), No goblet, suitable for YDS-10-80
	Full Bottom Canister	MTT30-80	MTT30-80	Φ63, 120mm single tier canister (full bottom) , No goblet, suitable for YDS-30-80
	Full Bottom Canister	MTT35-80	MTT35-80	Φ63, 120mm single tier canister (full bottom), No goblet, suitable for YDS-35-80
	Full Bottom Canister	MTTH10-125	MTTH10-125	Φ97, 120mm single tier canister (full bottom), No goblet, suitable for YDH-10-125
	Full Bottom Canister	MTT30-125	MTT30-125	Φ97, 120mm single tier canister (full bottom), No goblet, suitable for YDS-30-125
	Full Bottom Canister	MTT35-125	MTT35-125	Φ97, 120mm single tier canister (full bottom), No goblet, suitable for YDS-35-125
	Full Bottom Canister	MTT50-125	MTT50-125	Φ97, 120mm single tier canister (full bottom), No goblet, suitable for YDS-50B-125
	Full Bottom Canister	MTTS13-50	MTTS13-50	Φ38, 276mm double tiers canister (full bottom), with goblets included, suitable for YDS-13
	Full Bottom Canister	MTTS30-50	MTTS30-50	Φ38, 276mm double tiers canister (full bottom), with goblets included, suitable for YDS-20/YDS-30
	Full Bottom Canister	MTTS35-50	MTTS35-50	Φ38, 276mm double tiers canister (full bottom), with goblets included, suitable for YDS-25/YDS-35
	Full Bottom Canister	MTTS50-50	MTTS50-50	Φ38, 276mm double tiers canister (full bottom), with goblets included, suitable for YDS-50
	Full Bottom Canister	MTTS30-80	MTTS30-80	Φ63, 276mm double tiers canister (full bottom), with goblets included, suitable for YDS-30-80
	Full Bottom Canister	MTTS35-80	MTTS35-80	Φ63, 276mm double tiers canister (full bottom), with goblets included, suitable for YDS-35-80
	Full Bottom Canister	MTTS47-127-10T	MTTS47-127-10T	Φ72, 276mm double tiers canister (full bottom), with goblets included, suitable for YDS-47-127-10T
	Full Bottom Canister	MTTS35-125	MTTS35-125	Φ97, 276mm double tiers canister (full bottom), with goblets included, suitable for YDS-35-125
	Full Bottom Canister	MTTS47-127	MTTS47-127	Φ104, 276mm double tiers canister (full bottom), with goblets included, suitable for YDS-47-127
	Full Bottom Canister	MTTS50-125	MTTS50-125	Φ97, 276mm double tiers canister (full bottom), with goblets included, suitable for YDS-50B-125

Product List

Model	Product	Product Model	Factory Code	Description and Accessories
Cryobox	Vial cane	3X	3X	Used for holding 3 vials (2ml)
	Vial cane	6X	6X	Used for holding 6 vials (2ml), plastic sleeve not included
	Plastic cryo box	FH-25	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	FH-81	Used for storing1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-81/5.0	FH-81/5.0	Used for storing 4.5/4.7/5ml vial (81 holes)
	Plastic cryo box	FH-100	FH-100	Used for storing 1.8ml/2ml vial (interally threaded,100 holes)
	Plastic cryo box	YH-37	YH-37	Suitable for round rack to store 1.8ml/2ml vial (37 holes)
	Pastic Goblets	SNT-97	SNT-97	Suitable for diameter 97mm canisters
	Blood bag cassette	XH-25	XH-25	one bag per box,rocker arm type
	Blood bag cassette	XH-50	XH-50	one bag per box,drawer type
	Blood bag cassette	XH-250	XH-250	one bag per box, rocker arm type
	Plastic sleeve for vial cane	5016-0002 (6-type)	5016-0002 (6X)	Suitable for vial cane that can hold 6 vials
	Stainless steel cryo box	BH-25/5.0	BH-25/5.0	Used for storing 4.5ml/4.7ml/5ml vials (25 holes)
	Stainless steel cryo box	BH-81/5.0	BH-81/5.0	Used for storing 4.5ml/4.7ml/5ml vials (81 holes)
Other Accessories	Valve adaptor	CGA295	CGA295	Used for connecting the valve of YDZ self-pressurized tank with single layer transfer hose
	Cryogenic solenoid valve	DN7.0 (ASCO 24V)	DN7.0 (ASCO 24V)	Suitable for piping pressure≤0.5MPa, pressure 0.3MPA
	Cryogenic solenoid valve	DN7.0 (JASA 24V)	DN7.0 (JASA 24V)	Suitable for piping pressure≤0.5MPa
	Low temperature solenoid valve	DN3.0 (ASCO 24V)	DN3.0 (ASCO 24V)	Suitable for piping pressure≤0.5MPa, pressure 0.8MPA
	Vacuum isolated hose	GRG-DN10/1.0	GRG-DN10/1.0	Diameter10mm, Length 1m, special use for liquid nitrogen transferring, connection type for both side and length can be customized, charged by meter
	Vacuum isolated hose	GRG-DN10/2.0	GRG-DN10/2.0	Diameter10mm, Length 2m, special use for liquid nitrogen transferring, connection type for both side and length can be customized, charged by meter
	Single-layer transfusion Hose	ZG-DN10/1.5	ZG-DN10/1.5	Diameter10mm, Length 1.5m, Suitable for YDZ series
	Single-layer transfusion Hose	BG-DN10/1.0	BG-DN10/1.0	Diameter10mm, Length 1.0m, Suitable for liquid nitrogen pump YDB series
	Single-layer transfusion Hose	RG-DN10	RG-DN10	Diameter 10mm, used for liquid nitrogen transfering, fitting and length can be customized, charged in meters.
	Single-layer transfusion Hose	RG-DN6	RG-DN6	Diameter 6mm, used for liquid nitrogen transfering, fitting and length can be customized, charged in meters.
	Hose heat insulation cotton	BMT-DN10	BMT-DN10	Suitable for DN10 single layer metal hose, 1 meter
	Cryogenic gloves	ST-32	ST-32	overall length 32cm
	Cryogenic gloves	ST-45	ST-45	overall length 45cm
	Cryogenic gloves	ST-72	ST-72	overall length 72cm
	Level measuring scale	YWC-100	YWC-100	Measuring length100CM

Haier Biomedical Product Portfolio

Cryo Freezer



DW-150W209/209A

-86°C ULT Freezer



DW-86L578BPST
DW-86L728BPST
DW-86L828BPST

DW-86L579BP/729BP
DW-86L829BP/959BP

DW-86L579BPT/729BPT
DW-86L829BPT/959BPT

DW-86L419/579
DW-86L729/829

DW-86L338J/388J
DW-86L338JA

DW-86L490J
DW-86L490JA

DW-86L578JJA
DW-86L728JJA
DW-86L828JJA

DW-86L486E
DW-86L628E

DW-86L51J

DW-86L100J

Controlled Rate Freezer



CJ-L37

Freeze Dryer



DG-65Z04-10A

DG-65Z04-10AR

-60°C Freezer



DW-60W138/258/388

Chest



DW-86W100J

DW-86W420J
DW-86W420JA

Water Cooling Freezer



DW-86L828W/959W

Mini ULT Freezer



DW-80WZ15

-40°C Biomedical Freezer



DW-40L818BP

DW-40L92

DW-40L262

DW-40L298J

DW-40L568J

DW-40W138J

DW-40W255J/380J

DW-40L418D
DW-40L528D

-30°C Biomedical Freezer



DW-30L298J

DW-30L698

DW-30L278

-25°C Biomedical Freezer



DW-25L92

DW-25L262

Combined Refrigerator and Freezer



HYCD-282

HYCD-282A
HYCD-319A

HYCD-469

HYCD-469A

Pharmacy Refrigerator



HYC-1100C

HYC-1099

HYC-1099T

Forced Air Cooling Freezer



DW-30L818BP

DW-30L818

DW-30L520F

DW-30L1280F

Pharmacy Refrigerator



HYC-1099F

HYC-1099TF

HYC-509

HYC-509T

HYC-509F

HYC-509TF

HYC-509R

HYC-290

HYC-309

HYC-390

HYC-390F

HYC-410

HYC-461GD

HYC-610

HYC-639

Pharmacy Refrigerator



HYC-940

HYC-940F

HYC-1030GT

HYC-1031GD

HYC-1031FD

HYC-1378

HYC-68A

HYC-68

HYC-85GD

HYC-118A

HYC-118

Laboratory Refrigerator



HLR-310F

Spark Free Freezer/Refrigerator



DW-25L92SF

DW-30L298 SF/FL

HLR-118SF

HLR-310SF/FL

HLRF-319SF

Smart Vaccine Refrigerator



HYC-361

HYC-61

Ice-lined Refrigerator/ Freezer



HBC-120
HBC-240

HBCD-90
HBC-80/150/260

Vaccine &Icepack Freezer



HBD-86

HBD-265

Haier Biomedical Product Portfolio

Solar Direct Drive Vaccine Refrigerator



HTC-40/110/112

HTC-120/240

Solar Direct Drive Freezer



HTD-40

Solar Direct Drive Combined Refrigerator/Freezer



HTCD-90

Solar Direct Drive Blood Refrigerator



HTXC-120/240

RTMD



U-COOL

U-COOL-LoRa

U-COOL Pro

Gateway 502

Blood Bank Refrigerator



HXC-629TR

HXC-1369TR

HXC-149R

HXC-429/629R

HXC-629ZZ

HXC-149

HXC-279

HXC-279T

HXC-429

HXC-629 HXC-629B

HXC-1369

HXC-149T

HXC-429T

HXC-629T HXC-629TB

HXC-1369T

HXC-158 HXC-158B

HXC-106

HXC-149ZZ

Plasma Freezer



DW-30L1280FT

Plasma Apheresis System



XJ-III

Plasma Blast Freezer



XSD-24FL

XSD-24WFL

XSD-48WFL

Platelet Incubator with Agitator



HXZ-149

HXZ-1369

Transport Cooler



RKN-AT1

HZY-8Z/8ZA
HZY-15Z/15ZA

HZY-40Z

Transport Cooler



HZY-5B

HZY-35B

ALG50

BCD60

FS-6L/12/18/35/ 54LS/100L/110L FS-5/12/18/35/54LS

BW25-8/12/18/36/64A BW50-12A/36A BW25-12/36/64B

Laminar Flow Cabinet



HCB-1600H

HCB-900V/VS HCB-1300V/VS HCB-1600VS

Biological Safety Cabinet



HR30-IIA2 HR40-IIA2

HR40-IIB2

HR700-IIA2

HR900-IIA2-D/S HR1200-IIA2-D/S

Hydrogen Peroxide Disinfector



HGYX-Y500

HGYX-Y100

Ductless Fume Hood



HTF-1200W/1500W

Liquid Nitrogen Container



YDD/YDS/YDH Series

YDC-3000H

CryoBio 13

CryoBio 43

CryoBio 6S

CryoBio 11Z CryoBio 20Z CryoBio 34Z

Bio-2T Bio-Air

Smart Series



HR900-IIA2 HR1200-IIA2 HR1500-IIA2

HR1200-IIA2-X HR1500-IIA2-X HR1800-IIA2-X

HR900-IIA2-N HR1200-IIA2-N HR1500-IIA2-N HR1800-IIA2-N

CO_2 Incubator



HCP-80/B HCP-168/B HCP-258/B

HCP-80E HCP-168E HCP-258E

Standard Incubator

HFP-80 HZP-168

HFP-80E HZP-168E

Drying Oven

HZS-60

HFS-160

HZS-60E HFS-160E

Cooled Incubator

HSP-160

HSP-260

Climate Chamber

HHS-256

HHS-506

HHS-756

Autoclave

HRLM-80

HRLM-60A HRLM-80A

HRTM-18/23

Centrifuge

LX-75L2400R

LX-155T500R

LX-165T2R

LX-185T100R

LX-165T2-J

LX-60T100-J

LX-60T500-J

LX-120T2Z LX-50T2Z

Consumables

Walk-in Cold Room

PRODUCT PORTFOLIO