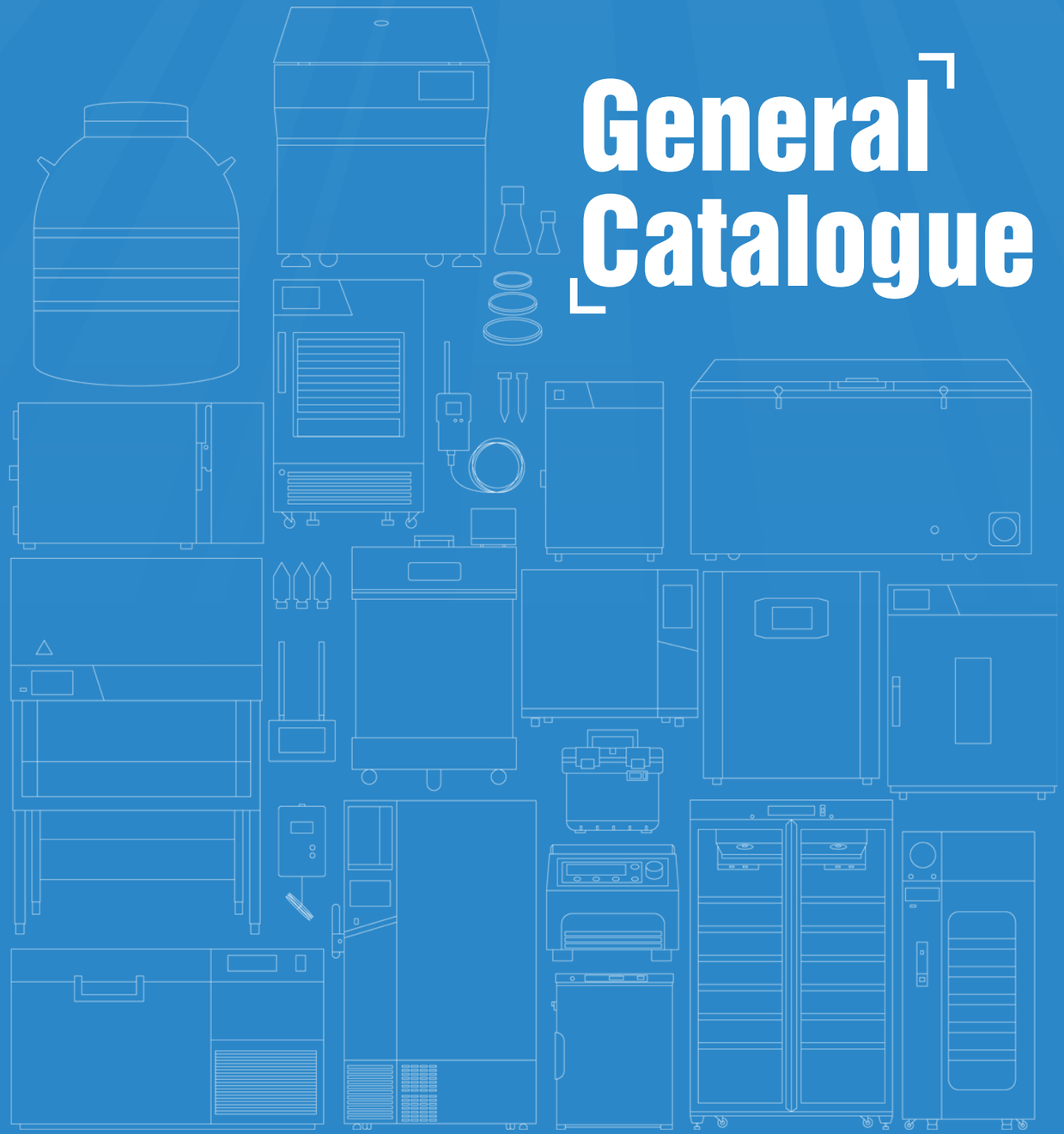
Haier Biomedical
Intelligent Protection of Life Science

General Catalogue



Your Haier Biomedical Partner

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

Mar.2025

We have six listed companies, and our subsidiary Haier Smart Home is named among the Fortune's Global 500 and World's Most Admired Companies. We have several global premium brands, including Haier, Casarte, Leader, GE Appliances, Fisher & Paykel, AQUA and Candy, and have the world's first smart home Scenario Brand, SAN YI NIAO. We have built the world-leading industrial Internet platform COSMOPlat and the comprehensive health industry ecosystem Incaier.

We believe: More collaboration will happen when more boundaries are broken, and more valuable relationships are established. Only then will the future of the world be filled with infinite wonderful possibilities.

*Data as of November 2024

Founded in 1984, Haier Group is a leading global provider of better life and digital transformation solutions. Based on the purpose of "More Creation, More Possibilities", we are committed to co-create infinite possibilities for a better life with users, and to co-create infinite possibilities for industrial development with the ecological partners.

Being an iconic company in the real economy, we've always been user centered, adhered to original technology and built a landscape of three pillars, Smart Living, Comprehensive Health and Industrial Internet. We have built 10 R&D centers, 71 research institutes, 35 industrial parks, 143 manufacturing centers and a sales network of 230,000 nodes around the world. We are the world's only IoT Ecosystem Brand that has been ranked in the Kantar BrandZ Top 100 Most Valuable Global Brands for six consecutive years. Additionally, we have ranked among the Top 10 in the Google & Kantar BrandZ Chinese Global Brand Builders for eight consecutive years, held the No.1 position in Euromonitor's Global Major Appliances Brand for 15 consecutive years, and have been selected as one of The World's 500 Most Influential Brands by the World Brand Lab for twenty consecutive years.

10+N R&D Centers

126 Marketing Centers

35 Industrial Parks

143 Factories

200+ Countries or Regions

About Haier Biomedical

Company Profile

Haier Biomedical was established in 2005 and listed on the Science and Technology Innovation Board of the Shanghai Stock Exchange in 2019 (stock code: 688139). The Company aims to create the best user experience for a wide range of user groups such as hospitals, biotechnology enterprises, universities & colleges, scientific research institutions, centres for disease control and prevention, plasma stations, and primary public health authorities. The Company mainly engages in two major business fields: life sciences and medical innovation. It provides comprehensive digital solutions with multiple types of products and services for scenarios including smart laboratories, smart compliance pharmaceuticals, digital hospitals, smart public health, and smart blood distribution.

Leveraging industry-leading technologies, the Company has promoted scientific and technological innovation and led industrial reform. Through successive breakthroughs in low-temperature biomedical technology, our company has maintained its international leadership in relevant research and development as well as industrialization. With ongoing investments in research and development, we have continuously achieved breakthroughs in core technologies and expanded our business into areas such as biological culture, centrifugal preparation, laboratory consumables, and in-hospital pharmacy services. Building on this foundation, we have pioneered transformative methods in the biomedical industry. This includes integrating emerging technologies like the Internet of Things (IoT) and cloud computing, as well as launching innovative comprehensive solutions for digital applications such as smart blood distribution and smart vaccination. These solutions have expanded into areas like smart laboratories, automated in-hospital pharmacy services, and public health screenings, reshaping the landscape of the industry.

As of the end of the reporting period, Haier Biomedical has established 6 technical platforms, owned a total of 1,321 authorized patents and 296 software copyrights, led or participated in the release of 1 international standard, 18 national and industry standards, 2 local standards, 17 group standards, and 2 CQC certification technical specifications. In addition, 32 achievements have reached the international leading level. Moreover, the Company has 28 items with more than 800 models of Class II and Class III medical device registration certificates, among which more than 200 models obtained the EU CE certification, more than 60 models obtained the US FDA certification, and more than 130 models obtained the US UL certification. Products certified under 21 items with 36 models were selected as excellent domestic medical equipment.

Haier Biomedical's products and solutions have been applied in more than 150 countries and regions worldwide, with our reach expanding all the time. In the domestic market, the Company has served tens of thousands of end users in the medical and health field, including hospitals, biotechnology enterprises, universities & colleges, scientific research institutions, centres for disease control and prevention, plasma stations, and testing institutions. Well-known customers in China include the Shanghai Ruijin Hospital, Wuxi Apptec, Shanghai Fudan University, China Centre for Disease Control and Prevention, Hualan Biological, Hengrui Pharmaceutical, and Fosun Pharmaceutical. The Company's international network is continuously expanding; as of the end of the reporting period, over 800 resell partners have joined the distribution network. To cultivate localized operations, the Company has established overseas operation centres, including the user experience and training centres in Dubai, Nigeria, and the UK and warehousing and logistics centres in the Netherlands and US. In addition, the Company has maintained long-term cooperative relationships with more than 60 international organizations such as the World Health Organization (WHO) and the United Nations Children's Fund (UNICEF).

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 certif ication 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

2024
- IEC Proposal Led by Haier Biomedical Has Been Approved
- Led in WHO Contract Awards for Chinese Suppliers
- Obtained LN2 Management System FDA Certification

Haier Biomedical

Intelligent Protection of Life Science

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Haier Biomedical
Intelligent Protection of Life Science

-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

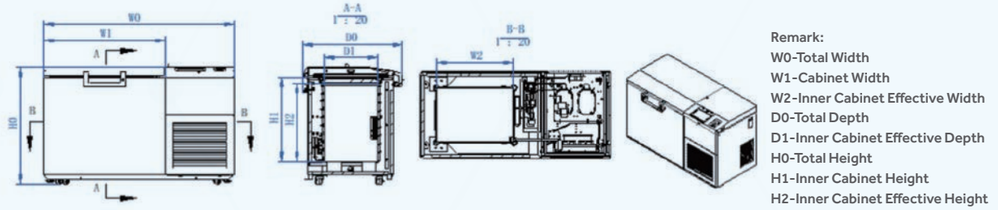
Noise-reduction features and noise reduction design lowers to noise to 55 dB (A)

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.

Follow the QR code and learn more about the Cryo Freezer DW-150W209 from Haier Biomedical

Product Dimensions



Remark:
W0-Total Width
W1-Cabinet Width
W2-Inner Cabinet Effective Width
D0-Total Depth
D1-Inner Cabinet Effective Depth
H0-Total Height
H1-Inner Cabinet Height
H2-Inner Cabinet Effective Height

Model \ Code	W0	W1	W2	H0	H1	H2	D0	D1
DW-150W209	1650mm	1050mm	667mm	1010mm	727mm	677mm	860mm	462mm
DW-150W209A	1650mm	1050mm	667mm	1010mm	727mm	677mm	860mm	462mm

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		LCD Touchscreen	LCD Touchscreen
Electrical Data	Power Supply (V/Hz)		220-240/50	208-230/60
	Max Power (W)		1750	2000
	Capacity (L/Cu.Ft)		209/7.4	209/7.4
Dimensions	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
	Cabinet Width (without handle and hinge)	mm	667	667
	Container Load (20'/40'/40'H)		12/24/24	12/24/24
Alarms	High/Low Temperature Alarm		Y	Y
	Hot Condenser Alarm		Y	Y
	Power Failure Alarm		Y	Y
	High/Low Voltage Alarm		Y	Y
	Sensor Error Alarm		Y	Y
	Low Battery Alarm		Y	Y
	High Ambient Temperature Alarm		Y	Y
	Door Ajar Alarm		Y	Y
	Start-up delay		Y	Y
Accessories	Caster		Y (4)	Y (4)
	Leveling Feet		Y (2)	Y (2)
	Porthole		1*rear, (25mm) diameter	1*rear,(25mm) diameter
	Inner Doors		2	2
	Shelves		N	N
	Shelf Dimensions (W*D) (mm)		N	N
	Max. Load per Shelf (kg)		N	N
	Freezer Racks Quantity (2" boxes)		12	12
	Capacity (2" boxes)		144	144
	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		Optional	Optional
Others	Certifications		CE, MDR	UL

Haier Biomedical
Intelligent Protection of Life Science

New Generation ULT Freezers

Ultra Low Temperature RFID Freezer

DW-86L728BPSTR

The Haier Biomedical ULT RFID freezer offers enhanced protection for high-value samples like genetic material, biosamples, and tissue. With quick freezing, secure access, and comprehensive inventory management features, it ensures product integrity and visibility while eliminating manual processes. Ideal for research facilities and laboratories seeking efficient sample storage solutions.

Product Features

Enhanced Efficiency

Effortlessly locate and inventory sample tubes without the need to open the door. The system automatically records the exact position of each sample in real-time, streamlining manual processes.

Rapid Inventory Management

Save time and effort with a single click inventory feature that completes within 5 seconds. Say goodbye to errors and delays.

Precision Identification

Achieve accurate and swift recognition with a 3-second automatic identification process for sample information and location. This system excels at high-density batch reading tasks.

Enhanced Safety Measures

The dual refrigeration system features double independent hydrocarbon refrigeration units, both capable of maintaining -80°C. This design not only ensures the safety of stored samples but also enhances reliability.

Innovative Design Features

Intuitive Monitoring Software

Benefit from a tailored sample management software that allows real-time tracking and monitoring of operational status, ensuring seamless workflow oversight.

Comprehensive Security Integration

Utilize the four-code integration tube system, combining RFID tags, bottom QR codes, tube barcodes, and tube digital codes for heightened security and reliability in sample management.

Streamlined User Interface

Navigate effortlessly through operations with a 15.6-inch LCD touch screen that provides an intuitive display of vital information. Accessing and managing tasks is made simple and efficient.

Free Sample Placement

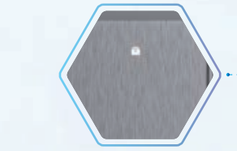
Samples can be placed freely without the need to be stored in specific locations, and the relevant sample information will be updated automatically。

15.6-inch LCD touch screen coupled with BIMS system, which is convenient for sample inventory

Indicator lights display and monitor operating status

The reader is placed on the left side of the door for easy sample identification and inventory

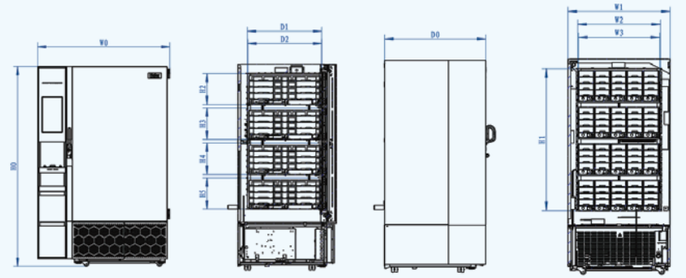
DW-86L728BPSTR



Storage area, which is convenient for users to store gloves and other consumables

Sliding-drawer freezer rack for convenient access

Product Dimension Drawings



DW-86L728BPSTR

Ramark
W0---Overall width of the machine
W1---Outer width of the cabinet
W2---Inner liner width
W3---Width of inner shelf
(Width of shelve for effective placement of freezing rack)D0---Overall depth of the machine
D1---Inner liner depth
D2---Inner depth of shelf
H0---Overall height of the machine
H1---Inner cabinet height
H2---1st floor height
H3---2nd floor height
H4---3rd floor height
H5---4th floor height

Model \ Code	W0	W1	W2	W3	D0	D1	D2	H0	H1	H2	H3	H4	H5
DW-86L728BPSTR	1314mm	947mm	766mm	752mm	947mm	716mm	712mm	1990mm	1310mm	298mm	303mm	303mm	301mm

Ultra Low Temperature RFID Freezer

Specifications

Model			DW-86L728BPSTR
Technical Data	Cabinet Type		Upright
	Climate Class		N
	Cooling Type		Direct Cooling
	Defrost Mode		Manual
	Refrigerant		HC
	Sound Level (dB(A))		42
Performance	Cooling Performance (°C)		-86
	Temperature Range (°C)		-40~-86
	Inventory Speed (Sec)		5
	Query Speed (Sec)		2
	Recognition Speed (Sec)		3
Control	Controller		Microprocessor
	Display		Touch Screen LCD
Electrical Data	Power Supply (V/Hz)		220/50
	Max Power (W)		1700
Dimensions	Capacity (L/Cu.Ft)		728/25.7
	Net/Gross Weight	kg	555/640
		lbs	1223.57/1410.96
	Interior Dimension (W*D*H)	mm	766*716*1310
		in	30.2*28.2*51.6
	Exterior Dimension (W*D*H)	mm	1300*1045*1980
		in	51.18*41.14*77.95
	Packing Dimension (W*D*H)	mm	1480*1175*2215
		in	58.27*46.26*87.20
	Cabinet Width (Without Handle and Hinge)	mm	1300
Alarms	High/Low Temperature Alarm		Y
	Hot Condenser Alarm		Y
	Power Failure Alarm		Y
	High/Low Voltage Alarm		Y
	Sensor Error Alarm		Y
	Low Battery Alarm		Y
	High Ambient Temperature Alarm		Y
	Door Ajar Alarm		Y
	Start-Up Delay		Y
Accessories	Caster		Y
	Leveling Feet		Y
	Porthole		Y/2
	Inner Doors		4
	Shelves		3- Stainless Steel Shelves
	Shelf Dimensions (W*D)(mm)		752*650
	Max. Load per Shelf (kg)		90
	Freezer Racks Quantity (2" boxes)		20
	Capacity (2" boxes)		400
	USB Interface		Y
	Remote Alarm		Y
	5V Power Supply Port		Y
	Temperature Chart Recorder		Optional
	RS232/485 Port		NA/Standard
	CO_2 Backup System		Optional
	LN_2 Backup System		Optional
Others	Certification		CE

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

Stirling ULT Freezer

DW-86L100STL

Applicable for products and samples which require strict storage conditions such as viruses, pathogens, red blood cells, skin, bones, bacteria, semen, biological products, ocean products, electronic devices and special materials. Suitable for long term storage applications and compliant with typical storage requirements found in blood stations, hospitals, disease control and prevention centers, scientific research institutes, biomedical engineering institutes etc.

Product Advantages

Energy Saving and Environmental Protection

Compared with the traditional overlapping system, Stirling refrigeration technology saving energy 30%, refrigerant reloading reduced 50%.

Multiple Temperature Ranges

Application range -20°C~32°C; full voltage configuration

Smart Internet of Things

The Internet of Things app can be configured to monitor the running state of the refrigerator for 24 hours.

Upgraded System and Loss Reduction

The refrigeration system is simplified and the failure rate is reduced.

High Uniformity

The whole machine temperature uniformity ≤±2°C.

Low Noise

Quadruple damping scheme, the noise of the whole machine is below 45 decibels.

Ergonomic Design

The engine room is moved up, and the height of the storage space is reduced for easy access.

Humanized Design: 10 inch LCD touch screen, intelligent human-computer interaction.

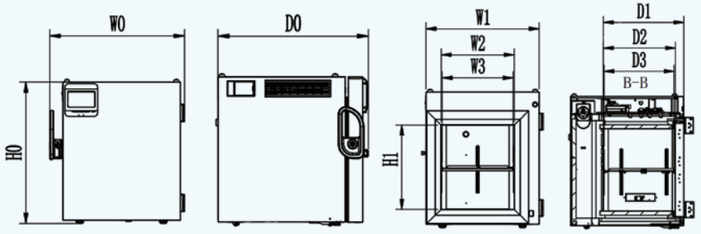
Integrated cast aluminum handle, self-locking design, more convenient switching.

Equipped with multiple security lock and multiple security guarantee, including secret lock, padlock, optional fingerprint lock, NFC punch lock.

Multiple interface configurations: standard USB interface, RS485 interface.

Stirling ULT Freezer

Product Dimension Drawings



DW-86L100STL

Ramark
W0---Overall width of the machine
W1---Outer width of the cabinet
W2---Inner liner width
W3---Width of inner shelf
(Width of shelve for effective placement of freezing rack)
D0---Overall depth of the machine
D1---Inner liner depth
D2---Inner depth of shelf
D3---Width of inner shelf
(Width of shelve for effective placement of freezing rack)
H0---Overall height of the machine
H1---Inner cabinet height

Model \ Code	W0	W1	W2	W3	D0	D1	D2	D3	H0	H1
DW-86L100STL	779mm	705mm	440mm	426mm	820mm	496mm	444mm	432mm	816mm	505mm

Specifications

	Model		DW-86L100STL	
Technical Data	Cabinet Type		Upright	
	Climate Class		N	
	Cooling Type		Direct cooling	
	Defrost Mode		Manual	
	Refrigerant		HC	
Performance	Sound Level(dB(A))		≤46	
	Cooling Performance (°C)		-86	
	Temperature Range (°C)		-20~-86	
Control	Controller		Microprocessor	
	Display		Touch Screen LCD	
Electrical Data	Power Supply (V/Hz)		220~240V/50/60Hz	110~120V/50/60Hz
	Max Power (W)		300	
	Capacity (L/Cu.Ft)		100/3.5	
Dimensions	Net/Gross Weight	kg	110/145	
		lbs	260.2/326.3	
	Interior Dimension (W*D*H)	mm	440*444*505	
		in	17.3*17.5*19.9	
	Exterior Dimension (W*D*H)	mm	779*820*816	
		in	30.7*32.3*32.1	
	Packing Dimension (W*D*H)	mm	850*920*1000	
		in	33.5*36.2*39.4	
	Cabinet Width (without handle and hinge)	mm	705	
	Container Load (20'/40'/40'H)		24/52/52	
Functions	High/Low Temperature Alarm		Y	
	Hot Condenser Alarm		NA	
	Power Failure Alarm		Y	
	High/Low Voltage Alarm		Y	
	Sensor Error Alarm		Y	
	Low Battery Alarm		Y	
	High Ambient Temperature Alarm		Y	
	Door Ajar Alarm		Y	
	Start-up delay		Y	
Accessories	Caster		Y	
	Leveling Feet		Y	
	Porthole		Y/1	
	Inner Doors		2	
	Shelves		1- stainless steel adjustable shelves	
	Shelf Dimensions (W*D) (mm)		425*430	
	Max. Load per Shelf (kg)		90	
	Freezer Racks Quantity (2" boxes)		6	
	Capacity (2" boxes)		72	
	USB Interface		Y	
	Remote Alarm		Y	
	5V Power Supply Port		Y	
	Temperature Chart Recorder		N	
	RS232/485 Port		NA/Standard	
	CO_2 Backup System		Optional	
	LN_2 Backup System		Optional	
Others	Certifications		CE	UL

UltraEco ULT Freezer

DW-86L730/830BPT

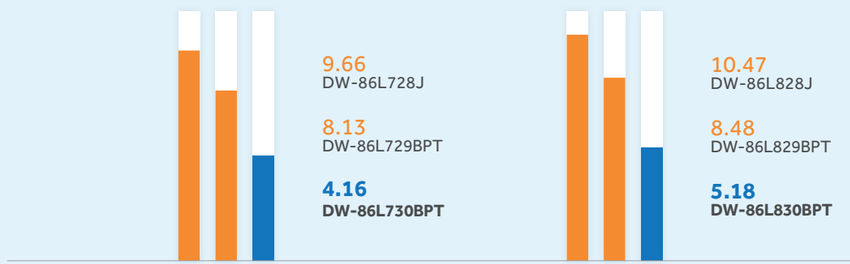
Super energy-saving technology and precise temperature control. Designed to provide long-term storage for various biological samples and sensitive items to ensure the integrity and stability of precious materials. With its outstanding energy-saving features, it not only reduces electricity consumption but also contributes to a greener environment.

Optimal Energy Efficient Performance

HC refrigerant, frequency conversion technology and optimized structural design combine to lower operating costs compared to previous generation by up to 50%.

ENERGY STAR certified with world-leading energy efficiency

Power Consumption Comparison (kWh/day)



*Above power consumption base on ENERGY STAR report

UltraEco ULT Freezer

Significantly Enhanced Performance

The upgraded compressor, along with the enhanced refrigeration system and improved insulation structure, significantly elevates the performance of UltraEco series. In comparison to the previous generation, UltraEco series features lower energy consumption, a longer holdover time, faster temperature recovery time and re-entry time, as well as reduced noise. All these enhancements will bring customers a completely new experience.

49%
Decrease in Energy Consumption

16%
Improvement in Warm-Up Time from -80°C to -50°C

80%
Faster Re-Entry Time

15 min
1 Min Door Opening Recovery Time

42dB(A)
Lower Sound Level

±2°C
Outstanding Temperature Uniformity

*Above data based on DW-86L730BPT

Model	DW-86L729BPT	DW-86L730BPT	DW-86L829BPT	DW-86L830BPT
Temperature Uniformity (°C)	±3	±2	±3	±3
ENERGY STAR Power Consumption (kWh/day)	8.13	4.16	8.48	5.18
1-Minute Open Door Recovery Time (20° C Ambient Running at -75°C)(mins)	24	15	35	32
Warm-Up Time at 20° C Ambient (from -80°C to -50°C)(mins)	300	348	315	378
Re-entry Time (Seconds)	300	60	300	60

*Freezer performance will vary based on customer product volume, storage format, operating conditions, test methodology and performing recommended maintenance

Green and Environmental Friendly

Naturally occurring Hydrocarbon (HC) refrigerants and insulation materials with ultra-low global warming potential (GWP) levels exert an extremely minimal impact on the environment. These are not only eco-friendly but also contribute to a sustainable future by reducing the carbon footprint and safeguarding the delicate balance of our ecosystem.

Safety and Reliability

- Dual sensors ensure accurate detection of temperature changes, providing double the security for sample storage.
- The self-diagnostic feature of the compressor triggers immediate alarms in case of issues, enabling swift maintenance to prevent sample damage.
- VIP insulation technology provides 6-hour durable thermal retention and safeguards samples during brief power failures.
- Optional built-in independent backup system guarantees sample safety even in the event of a long power outage.

UltraEco ULT Freezer

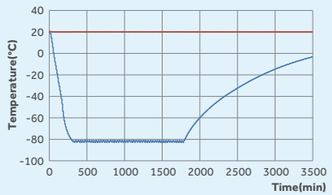
10 Inch Capacitive Touch Screen
State-of-art UI design coupled with sample management system to provide the optimal user experience

Improved Pressure Relief Port
Re-entry time shortened to just 60 seconds

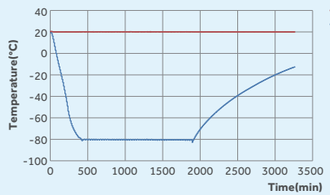
USB Interface
Enables users to download historical temperature data for compliance/auditing purposes

Innovative Light Bar Design
Clearly indicate the operating status of the freezer and offer strengthened visual alarm indications for effortless at-a-glance monitoring

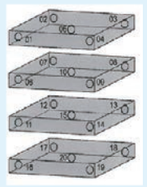
Typical Performance Characteristics at 20°C Ambient



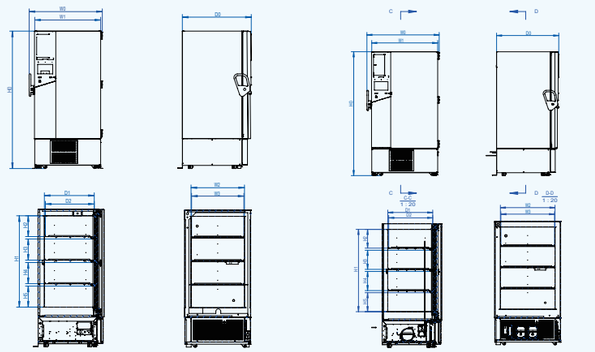
DW-86L730BPT Comprehensive Curve



DW-86L830BPT Comprehensive Curve



Temperature characteristics (20-point measurement)



DW-86L730BPT DW-86L830BPT

Ramark
W0---Overall width of the machine
W1---Outer width of the cabinet
W2---Inner liner width
W3---Width of inner shelf
(Width of shelve for effective placement of freezing rack)
D0---Overall depth of the machine
D1---Inner liner depth
D2---Inner depth of shelf
H0---Overall height of the machine
H1---Inner cabinet height
H2---1st floor height
H3---2nd floor height
H4---3rd floor height
H5---4th floor height

Model \ Code	W0	W1	W2	W3	H0	H1	H2	H3	H4	H5	D0	D1	D2
DW-86L730BPT	1046mm	946mm	766mm	750mm	1970mm	1310mm	298mm	303mm	303mm	301mm	998mm	716mm	700mm
DW-86L830BPT	1145mm	1050mm	870mm	854mm	1970mm	1310mm	298mm	303mm	303mm	301mm	998mm	716mm	700mm

Specifications

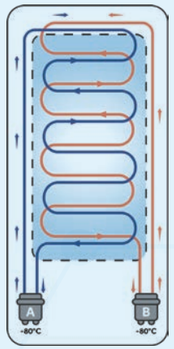
	Model		DW-86L730BPT	DW-86L830BPT
Technical Data	Cabinet Type		Upright	Upright
	Climate Class		N	N
	Cooling Type		Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual
	Refrigerant		HC	HC
	Sound Level (dB(A))		≤42	≤46
Performance	Cooling Performance (°C)		-86	-86
	Temperature Range (°C)		-40~-86	-40~-86
Control	Controller		Microprocessor	Microprocessor
	Display		Touch Screen LCD	Touch Screen LCD
Electrical Data	Power Supply (V/Hz)		100-230/50/60	100-230/50/60
	Max Power (W)		900	1050
Dimensions	Capacity (L/Cu.Ft)		730/25.8	830/29.3
	Net/Gross Weight (approx)	kg	315/368	336/390
		lbs	694.5/811.3	740.8/859.8
	Interior Dimensions (W*D*H)	mm	766*716*1310	870*716*1310
		in	30.2*28.2*51.6	34.3*28.2*51.6
	Exterior Dimensions (W*D*H)	mm	1046*998*1970	1145*998*1970
		in	41.2*39.3*77.6	45.1*39.3*77.6
	Packing Dimensions (W*D*H)	mm	1110*1150*2160	1220*1150*2160
		in	43.3*45.3*85	48*45.3*85
	Container Load (20'/40'/40'H)		10/20/20	8/20/20
Alarms	High/Low Temperature Alarm		Y	Y
	Hot Condenser Alarm		Y	Y
	Power Failure Alarm		Y	Y
	High/Low Voltage Alarm		Y	Y
	Sensor Error Alarm		Y	Y
	Low Battery		Y	Y
	High Ambient Temperature Alarm		Y	Y
	Door Ajar Alarm		Y	Y
	Start-Up Delay		Y	Y
Accessories	Caster		Y(4)	Y(4)
	Leveling Feet		Y(2)	Y(2)
	Porthole		2 Rear, (15mm)Diameter	2 Rear, (15mm)Diameter
	Inner Doors		4	4
	Shelves		3- Stainless Steel Adjustable Shelves	3- Stainless Steel Adjustable Shelves
	Shelf Dimensions (W*D)(mm)		752*650	856*650
	Max. Load per Shelf (kg)		90	108
	Freezer Racks Qty (2" boxes)		20	24
	Capacity (2" boxes)		500	600
	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		Optional	Optional
	LN_2 Backup System		Optional	Optional
Others	Certifications		CE, UL, ENERGY STAR	CE, UL, ENERGY STAR

Haier Biomedical
Intelligent Protection of Life Science

TwinCool Frequency Conversion ULT Freezers

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

Follow the QR code and learn more about the
TwinCool Frequency Conversion ULT Freezer DW-86L828BPST from Haier Biomedical

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

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

Magnetic filter screen
Filter screen is easy to clean

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

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

Networking function
Equipped with RS485 interface to connect multiple freezers

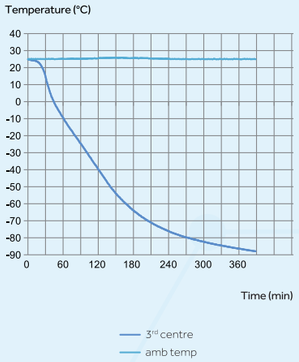
Adjustable feet
For easy positioning and levelling

DW-86L828BPST

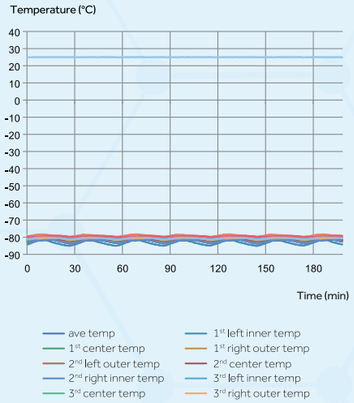
TwinCool Frequency Conversion ULT Freezer

Temperature Curve

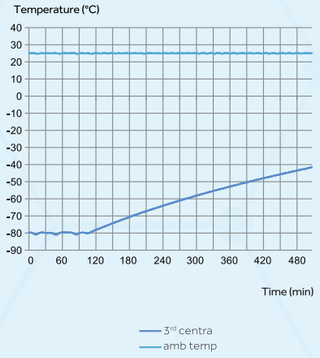
Temperature Cool Down Curve



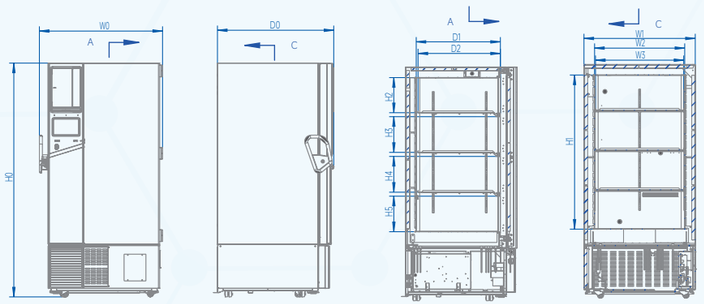
Stability Curve



Temperature Recovery Curve



Product Dimensions



Ramark
W0=Total Width
W1=Freezer Width
W2=Inner Cabinet Width
W3=Inner Cabinet Shelf Width
H0=Total Height
H1=Inner Cabinet Height
H2=1st Floor Height
H3=2ed Floor Height
H4=3rd Floor Height
H5=4th Floor Height
D0=Total Depth
D1=Inner Cabinet Width
D2=Inner Cabinet Shelf Width

Parameter / Model	W0	W1	W2	W3	H0	H1	H2	H3	H4	H5	D0	D1	D2
DW-86L578BPST	895mm	800mm	620mm	602mm	1980mm	1310mm	298mm	303mm	303mm	301mm	998mm	716mm	700mm
DW-86L728BPST	1046mm	946mm	766mm	750mm	1980mm	1310mm	298mm	303mm	303mm	301mm	998mm	716mm	700mm
DW-86L828BPST	1145mm	1050mm	870mm	854mm	1980mm	1310mm	298mm	303mm	303mm	301mm	998mm	716mm	700mm

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		LCD Touchscreen	LCD Touchscreen	LCD touchscreen
Electrical Data	Power Supply (V/Hz)		100-230/50/60Hz	100-230/50/60Hz	100-230/50/60Hz
	Max Power (W)		1100	1100	1400
Dimensions	Capacity (L/Cu.Ft)		578/20.4	728/25.7	828/29.2
	Net/Gross Weight	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	953*1071*2127	1105*1066*2117	1200*1080*2130
		in	37.5*42.1*83.7	43.5*42*83.3	47.2*42.5*83.9
	Cabinet Width (without handle and hinge)	mm	800	946	1050
	Container Load (20'/40'/40'H)		12/24/24	10/20/20	8/20/20
Functions	High/Low Temperature Alarm		Y	Y	Y
	Hot Condenser Alarm		Y	Y	Y
	Power Failure Alarm		Y	Y	Y
	High/Low Voltage Alarm		Y	Y	Y
	Sensor Error Alarm		Y	Y	Y
	Low Battery Alarm		Y	Y	Y
	High Ambient Temperature Alarm		Y	Y	Y
	Door Ajar Alarm		Y	Y	Y
	Start-up delay		Y	Y	Y
Accessories	Caster		Y (4)	Y (4)	Y (4)
	Leveling Feet		Y (2)	Y (2)	Y (2)
	Porthole		2*rear, (25mm) diameter	2*rear, (25mm) diameter	2*rear, (25mm) diameter
	Inner Doors		4	4	4
	Shelves		3- stainless steel adjustable shelves	3- stainless steel adjustable shelves	3- stainless steel adjustable shelves
	Shelf Dimensions (W*D) (mm)		606*650	752*650	856*650
	Max. Load per Shelf (kg)		72	90	108
	Freezer Racks Quantity (2" boxes)		16	20	24
	Capacity (2" boxes)		400	500	600
	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
Others	Certifications		CE, UL, ENERGY STAR, MDR	CE, UL, ENERGY STAR, MDR	CE, UL, ENERGY STAR, MDR

Haier Biomedical
Intelligent Protection of Life Science

PRESERVATION

Frequency Conversion ULT Freezers

Salvum Ultimate Smart Frequency Conversion ULT Freezer

Scope of Application

Applicable for products and samples which require strict storage conditions such as viruses, pathogens, red blood cells, white blood cells, skin, bones, bacteria, semen, biological products, electronics and special materials. Suitable for long term storage applications and compliant with typical storage requirements found in hospitals, disease control and prevention centers, scientific research institutions, biomedical engineering institutes, agriculture/ fishery companies and also used to store special materials and other products within the electronics and chemicals industries.

Advanced Hardware System

Smart Full-size Touch Screen

10-inch capacitive touch screen, state-of-art UI design coupled with sample management system to provide the optimal user experience.

HC & Variable Frequency Drive Refrigeration System for Additional Energy Saving

Advanced innovative design delivers excellent energy savings. The energy consumption is down to a single digit.

Optional IoT Software System

A Quicker product access, identification and retrieval

Instead of a manual system, the one-gun, one-code and one-key operation plus touch screen synchronization means you can access and retrieve your samples within seconds

Simplified Sample Management Experience

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

B 24-hour sample protection

Using Haier's app and IoT technology the unit can be monitored and can self-diagnose faults,ensuring you are always aware of your unit's status and able to make real-time and informed choices to protect your samples

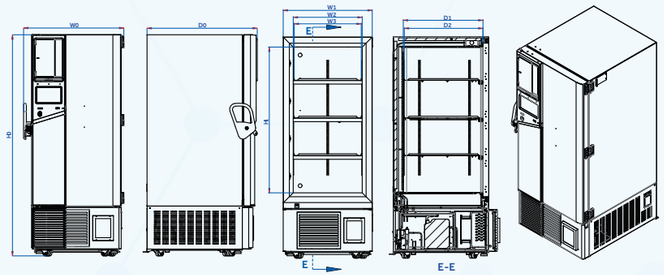
Wireless Monitoring Connectivity

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

C Cloud data storage available

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

Product Dimensions



Parameter Description:

W0--Overall width of the machine
W1--Outer width of the cabinet
W2--Inner liner width
W3--Width of inner shelf (Width of shelve for effective placement of freezing rack)
D0--Overall depth of the machine
D1-- Inner liner depth
D2-- Inner depth of shelf (Depth of shelve for effective placement of freezing rack)
H0--Overall height of the machine
H1--Inner liner height

Model \ Parameter	W0	W1	W2	W3	H0	H1	D0	D1	D2
DW-86L579BPT	895mm	800mm	620mm	602mm	1980mm	1310mm	998mm	716mm	706mm
DW-86L729BPT	1046mm	946mm	766mm	750mm	1980mm	1310mm	998mm	716mm	706mm
DW-86L828BPT	1145mm	1050mm	870mm	854mm	1980mm	1310mm	998mm	716mm	706mm
DW-86L959BPT	1296mm	1196mm	1016mm	1000mm	1980mm	1310mm	998mm	716mm	706mm

Follow the QR code and learn more about the
Smart Frequency Conversion ULT Freezer DW-86L829BPT from Haier Biomedical

Ergonomic 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 43.5dB

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

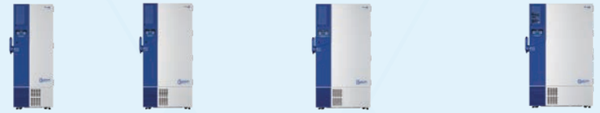
Super energy efficient with three environmentally friendly innovations

Ultra-low power consumption, down to less than 10kWh/day, ensuring a world leading energy saving performance

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 20%

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 (℃)		-86	-86	-86	-86
	Temperature Range (℃)		-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)		100~230/50/60	100~230/50/60	208~230/50/60 | 100~230/50/60	208~230/50/60 | 100~230/50/60
	Max Power (W)		1100	1100	1400	1750
Dimensions	Capacity (L/Cu.Ft)		579/20.4	729/25.7	829/29.2	959/33.9
	Net/Gross Weight	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	953*1071*2127	1105*1066*2117	1204*1072*2125	1365*1102*2164
		in	37.6*42.2*83.8	43.6*42*83.4	47.5*42.3*83.7	53.8*43.4*85.2
	Cabinet Width (without handle and hinge)	mm	800	946	1050	1196
	Container Load (20'/40'/40'H)		12/24/24	10/20/20	8/20/20	8/16/16
Functions	High/Low Temperature Alarm		Y	Y	Y	Y
	Hot Condenser Alarm		Y	Y	Y	Y
	Power Failure Alarm		Y	Y	Y	Y
	High/Low Voltage Alarm		Y	Y	Y	Y
	Sensor Error Alarm		Y	Y	Y	Y
	Low Battery Alarm		Y	Y	Y	Y
	High Ambient Temperature Alarm		Y	Y	Y	Y
	Door Ajar Alarm		Y	Y	Y	Y
	Start-up delay		Y	Y	Y	Y
Accessories	Caster		Y (4)	Y (4)	Y (4)	Y (4)
	Leveling Feet		Y (2)	Y (2)	Y (2)	Y (2)
	Porthole		2*rear, (25mm) diameter	2*rear, (25mm) diameter	2*rear, (25mm) diameter	2*rear, (25mm) diameter
	Inner Doors		4	4	4	4
	Shelves		3- stainless steel adjustable shelves	3- stainless steel adjustable shelves	3- stainless steel adjustable shelves	3- stainless steel adjustable shelves
	Shelf Dimensions (W*D) (mm)		606*650	752*650	856*650	1002*650
	Max. Load per Shelf (kg)		72	90	108	126
	Freezer Racks Quantity (2" boxes)		16	20	24	28
	Capacity (2" boxes)		400	500	600	700
	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
	RS232/485 Port		NA/Standard	NA/Standard	NA/Standard	NA/Standard
	CO_2 Backup System		Optional	Optional	Optional	Optional
	LN_2 Backup System		Optional	Optional	Optional	Optional
Others	Certifications		CE, UL, ENERGY STAR, MDR	CE, UL, ENERGY STAR, MDR	CE, ENERGY STARCE, MDR | UL, ENERGY STAR, MDR	CE, ENERGY STAR, MDR | UL, ENERGY STAR, MDR

Smart Frequency Conversion ULT Freezer

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

DW-86L829BP

The Smart Frequency 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 Effciency

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,

PreciseTemperature 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.

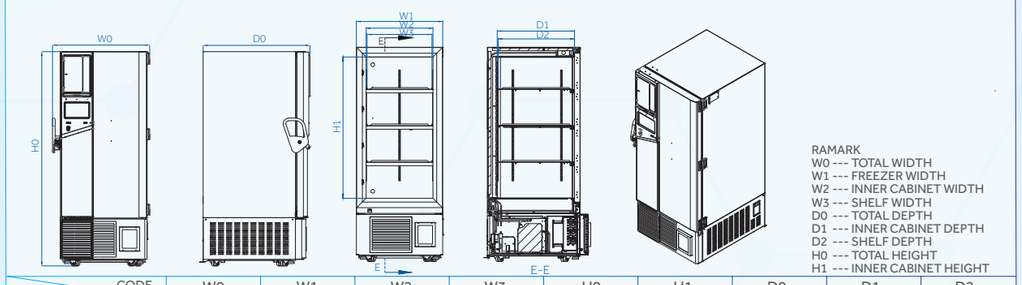
World-leading Energy Saving Refrigeration Technology

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).

Product Dimensions



RAMARK
W0 --- TOTAL WIDTH
W1 --- FREEZER WIDTH
W2 --- INNER CABINET WIDTH
W3 --- SHELF WIDTH
D0 --- TOTAL DEPTH
D1 --- INNER CABINET DEPTH
D2 --- SHELF DEPTH
H0 --- TOTAL HEIGHT
H1 --- INNER CABINET HEIGHT

MODEL / CODE	W0	W1	W2	W3	H0	H1	D0	D1	D2
DW-86L579BP	895mm	800mm	620mm	602mm	1980mm	1310mm	998mm	716mm	706mm
DW-86L729BP	1046mm	946mm	766mm	750mm	1980mm	1310mm	998mm	716mm	706mm
DW-86L829BP	1145mm	1050mm	870mm	854mm	1980mm	1310mm	998mm	716mm	706mm
DW-86L959BP	1296mm	1196mm	1016mm	1000mm	1980mm	1310mm	998mm	716mm	706mm

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

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

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

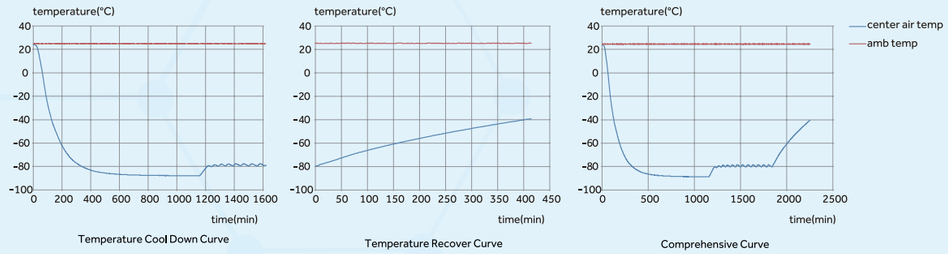
Multilayered Sealing Structure
Four layer of gaskets split between main and inner doors decreases heat loss and guarantee excellent warm up times in the event of a power failure

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

DW-86L829BP

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

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



Temperature Cool Down Curve

Temperature Recover Curve

Comprehensive Curve

Smart Frequency Conversion ULT Freezer

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 (℃)		-86	-86	-86	-86
	Temperature Range (℃)		-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	208~230/50/60	208~230/50/60
	Max Power (W)		1100	1100	1400	1750
Dimensions	Capacity (L/Cu.Ft)		579/20.4	729/25.7	829/29.2	959/33.9
	Net/Gross Weight	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	953*1071*2127	1105*1066*2117	1204*1072*2125	1365*1102*2164
		in	37.6*42.2*83.8	43.6*42*83.4	47.5*42.3*83.7	53.8*43.4*85.2
	Cabinet Width (without handle and hinge)	mm	800	946	1050	1196
	Container Load (20'/40'/40'H)		12/24/24	10/20/20	8/20/20	8/16/16
Functions	High/Low Temperature Alarm		Y	Y	Y	Y
	Hot Condenser Alarm		Y	Y	Y	Y
	Power Failure Alarm		Y	Y	Y	Y
	High/Low Voltage Alarm		N	N	N	N
	Sensor Error Alarm		Y	Y	Y	Y
	Low Battery Alarm		Y	Y	Y	Y
	High Ambient Temperature Alarm		Y	Y	Y	Y
	Door Ajar Alarm		Y	Y	Y	Y
	Start-up delay		Y	Y	Y	Y
Accessories	Caster		Y (4)	Y (4)	Y (4)	Y (4)
	Leveling Feet		Y (2)	Y (2)	Y (2)	Y (2)
	Porthole		2*rear, (25mm) diameter	2*rear, (25mm) diameter	2*rear, (25mm) diameter	2*rear, (25mm) diameter
	Inner Doors		4	4	4	4
	Shelves		3- stainless steel adjustable shelves	3- stainless steel adjustable shelves	3- stainless steel adjustable shelves	3- stainless steel adjustable shelves
	Shelf Dimensions (W*D) (mm)		606*650	752*650	856*650	1002*650
	Max. Load per Shelf (kg)		72	90	108	126
	Freezer Racks Quantity (2" boxes)		16	20	24	28
	Capacity (2" boxes)		400	500	600	700
	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
	RS232/485 Port		NA/Standard	NA/Standard	NA/Standard	NA/Standard
	CO_2 Backup System		Optional	Optional	Optional	Optional
	LN_2 Backup System		Optional	Optional	Optional	Optional
Others	Certifications		CE, UL, ENERGY STAR, MDR	CE, UL, ENERGY STAR, MDR	CE, ENERGY STAR, MDR	CE, ENERGY STAR, MDR

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

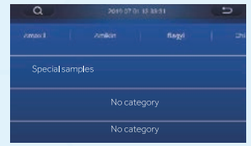
DW-86L579

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.

Optional IoT System Realizes Real-time Monitoring

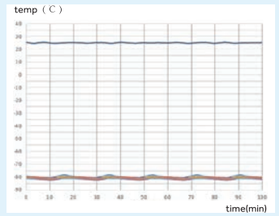
The IoT APP can monitor the operating status of the equipment anytime and anywhere. Equipped with multiple alarm functions and able to self-diagnose system faults to ensure sample safety. (Contact your local area representative to check local availability.)

Follow the QR code and learn more about the
Low Energy Series Touchscreen ULT Freezer from Haier Biomedical

Standard Low Energy ULT Freezer with LCD Touchscreen

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

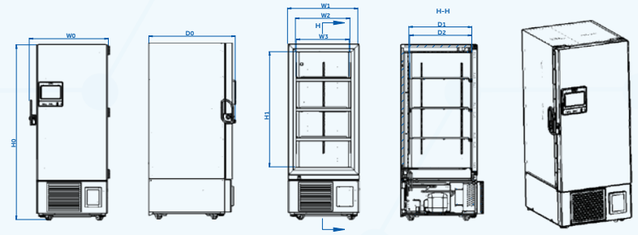
Filter Design

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

Product Dimensions



KEY

W0 --- TOTAL WIDTH
W1 --- FREEZER WIDTH
W2 --- INNER CABINET WIDTH
W3 --- SHELF WIDTH
D0 --- TOTAL DEPTH
D1 --- INNER CABINET DEPTH
D2 --- SHELF DEPTH
H0 --- TOTAL HEIGHT
H1 --- INNER CABINET HEIGHT

Model \ Parameter	W0	W1	W2	W3	H0	H1	D0	D1	D2
DW-86L419	830mm	725mm	465mm	450mm	1980mm	1310mm	980mm	716mm	710mm
DW-86L579	903mm	800mm	620mm	604mm	1960mm	1310mm	980mm	716mm	710mm
DW-86L729	1049mm	946mm	766mm	750mm	1980mm	1310mm	980mm	716mm	710mm
DW-86L829	1153mm	1050mm	870mm	854mm	1980mm	1310mm	980mm	716mm	710mm

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)		800	1000	1700	1900
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	870*1070*2110	950*1075*2110	1120*1090*2130	1200*1080*2130
		in	34.3*42.1*83.1	37.4*42.3*83.1	44.1*42.9*83.9	47.2*42.5*83.9
	Cabinet Width (without handle and hinge)	mm	725	800	946	1050
	Container Load (20'/40'/40'H)		12/26/26	12/24/24	10/20/20	10/20/20
Functions	High/Low Temperature Alarm		Y	Y	Y	Y
	Hot Condenser Alarm		Y	Y	Y	Y
	Power Failure Alarm		Y	Y	Y	Y
	High/Low Voltage Alarm		Y	Y	Y	Y
	Sensor Error Alarm		Y	Y	Y	Y
	Low Battery Alarm		Y	Y	Y	Y
	High Ambient Temperature Alarm		Y	Y	Y	Y
	Door Ajar Alarm		Y	Y	Y	Y
	Start-up delay		Y	Y	Y	Y
Accessories	Caster		Y(4)	Y(4)	Y(4)	Y(4)
	Leveling feet		Y(2)	Y(2)	Y(2)	Y(2)
	Porthole		2*rear, (25mm) diameter	2*rear, (25mm) diameter	2*rear, (25mm) diameter	2*rear, (25mm) diameter
	Inner Doors		2	4	4	4
	Shelves		3- stainless steel adjustable shelves	3- stainless steel adjustable shelves	3- stainless steel adjustable shelves	3- stainless steel adjustable shelves
	Shelf Dimensions(W*D)(mm)		441*657	606*649	752*650	856*650
	Max. Load per Shelf(kg)		54	72	90	108
	Freezer Racks Quantity(2" boxes)		12	16	20	24
	Capacity(2" boxes)		300	400	500	600
	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
	RS232/485 Port		NA/Standard	NA/Standard	NA/Standard	NA/Standard
	CO_2 Backup System		Optional	Optional	Optional	Optional
	LN_2 Backup System		Optional	Optional	Optional	Optional
Others	Certifications		CE, MDR	CE, ENERGY STAR, MDR	CE, ENERGY STAR, MDR	CE, ENERGY STAR, MDR

Salvum Ultimate 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.

ENERGY STAR

Advantages

- VIP+ World leading energy-effcient
- 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)

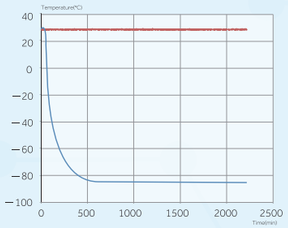
- Adjustable High/Low temperature alarm
- Sensor error
- Low battery
- Door ajar
- Power failure
- Hot condenser
- High ambient
- Remote alarm contact

Follow the QR code and learn more about the
Salvum Series Energy Saving -86°C ULT Freezer from Haier Biomedical

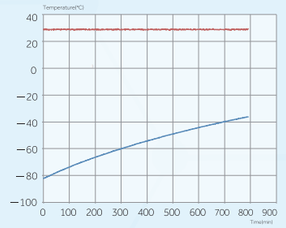
Extended Warm Up Time During Power Failure

- 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.

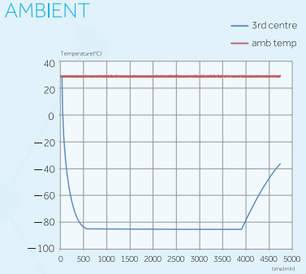
TYPICAL PERFORMANCE CHARACTERISTICS AT 25 °C AMBIENT



Temperature Cool Down Curve



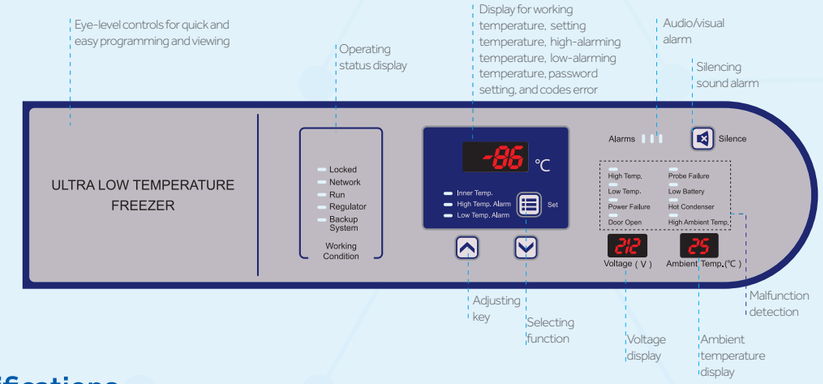
Temperature Recover Curve



Comprehensive Curve

Advantage

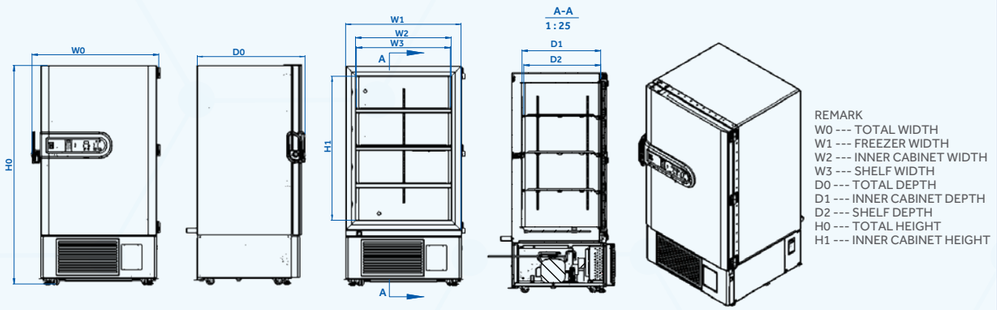
Salvum Ultimate Standard Low Energy ULT Freezer with LED Display



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

Product Dimensions



MODEL \ CODE	W0	W1	W2	W3	H0	H1	D0	D1	D2
DW-86L338J	830mm	725mm	465mm	450mm	1846mm	1165mm	893mm	630mm	626mm
DW-86L388J	830mm	725mm	465mm	450mm	1980mm	1310mm	980mm	716mm	700mm
DW-86L486E	953mm	850mm	590mm	574mm	1980mm	1310mm	900mm	630mm	618mm
DW-86L490J	873mm	770mm	590mm	574mm	1980mm	1310mm	900mm	630mm	618mm
DW-86L578J	903mm	800mm	620mm	604mm	1960mm	1310mm	980mm	716mm	700mm
DW-86L628E	1043mm	940mm	760mm	744mm	1980mm	1310mm	900mm	630mm	618mm
DW-86L728J	1049mm	946mm	766mm	750mm	1980mm	1310mm	980mm	716mm	700mm
DW-86L828J	1153mm	1050mm	870mm	854mm	1980mm	1310mm	980mm	716mm	700mm

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 monitoring 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

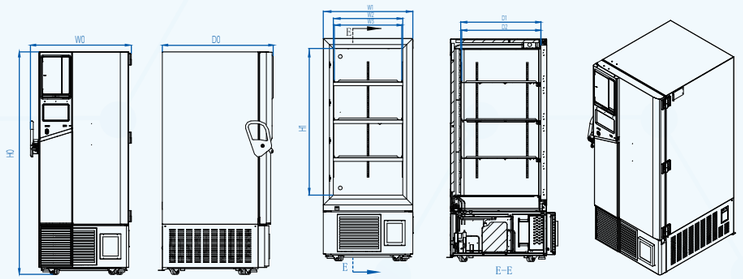
Salvum Ultimate Water-Cooled ULT Freezer

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

Product Dimensions



Parameter description:
W0---Overall width of the machine
W1---Outer width of the cabinet
W2---Inner liner width
W3---Width of inner shelf (width of shelf for effective storage)
D0---Overall depth of the machine
D1--- Inner liner depth
D2--- Inner depth of shelf (effective depth of shelf)
H0---Overall height of the machine
H1---Inner liner height

Model \ Parameter	W0	W1	W2	W3	H0	H1	D0	D1	D2
DW-86L828W	1145mm	1050mm	870mm	854mm	1980mm	1310mm	998mm	716mm	706mm
DW-86L959W	1296mm	1196mm	1016mm	1000mm	1980mm	1310mm	998mm	716mm	706mm

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 touchscreen	LCD Touch Screen
Electrical Data	Power Supply (V/Hz)		208-230/50/60	208-230/50/60
	Max Power (W)		1100	1300
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	1204*1072*2125	1365*1102*2164
		in	47.5*42.3*83.7	53.8*43.4*85.2
	Cabinet Width (without handle and hinge)	mm	1050	1196
	Container Load (20'/40'/40'H)		8/20/20	8/16/16
Functions	High/Low Temperature Alarm		Y	Y
	Hot Condenser Alarm		Y	Y
	Power Failure Alarm		Y	Y
	High/Low Voltage Alarm		Y	Y
	Sensor Error Alarm		Y	Y
	Low Battery Alarm		Y	Y
	High Ambient Temperature Alarm		Y	Y
	Door Ajar Alarm		Y	Y
	Start-up delay		Y	Y
Accessories	Caster		Y (4)	Y (4)
	Leveling Feet		Y (2)	Y (2)
	Porthole		2*rear, (25mm)diameter	2*rear, (25mm)diameter
	Inner Doors		4	4
	Shelves		3- stainless steel adjustable shelves	3- stainless steel adjustable shelves
	Shelf Dimensions (W*D) (mm)		856*650	1002*650
	Max. Load per Shelf (kg)		108	126
	Freezer Racks Quantity (2" boxes)		24	28
	Capacity (2" boxes)		600	700
	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		Optional	Optional
	LN_2 Backup System		Optional	Optional
Others	Certifications		CE, MDR	CE, MDR

Salvum Ultimate Under Counter ULT freezer

Suitable for clinical, medical, scientifc research, quarantine and other departments to store items under low temperature conditions. Applicable for universities, hospitals, disease prevention and control centers, blood stations, scientifc 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.

Follow the QR code and learn more about the
Under Counter ULT Freezer DW-86L100J from Haier Biomedical

Product Features

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.

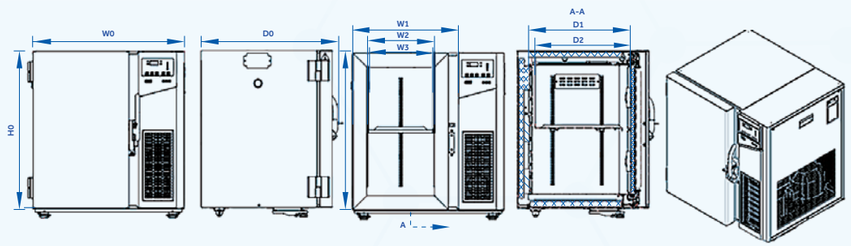
Porthole
Portholes as standard, allows for independent testing of cabinet temperature.

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.

Salvum Ultimate Under Counter ULT freezer

Product Dimensions



KEY

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

CODE / MODEL	W0	W1	W2	W3	D0	D1	D2	H0	H1
DW-86L100J	770mm	520mm	330mm	314mm	660m	481mm	465mm	810mm	630mm

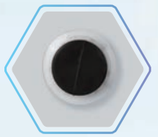
Specifications

	Model		DW-86L100J	
Technical Data	Cabinet Type		Upright	
	Climate Class		N	
	Cooling Type		Direct cooling	
	Defrost Mode		Manual	
	Refrigerant		HC	
	Sound Level (dB (A))		46.8	
Performance	Cooling Performance (°C)		-86	
	Temperature Range (°C)		-40~-86	
Control	Controller		Microprocessor	
	Display		LED	
Electrical Data	Power Supply(V/Hz)		220~240/50	120/60
	Max Power(W)		680	
Dimensions	Capacity(L/Cu.Ft)		100/3.5	
	Net/Gross Weight	kg	108/132	
		lbs	238/291	
	Interior Dimension (W*D*H)	mm	330*481*630	
		in	13*19*25	
	Exterior Dimension (W*D*H)	mm	770*660*810	
		in	30*26*32	
	Packing Dimension (W*D*H)	mm	830*730*1000	
		in	32.7*28.7*39.4	
	Cabinet Width (without handle and hinge)	mm	520	
	Container Load (20'/40'/40'H)		44/88/88	
Alarms	High/Low Temperature		Y	
	Hot Condenser		Y	
	Power Failure		Y	
	High/Low Voltage		Y	
	Sensor Error		Y	
	Low Battery		Y	
	High Ambient Temperature		Y	
	Door Ajar		Y	
	Start-up Delay		Y	
Accessories	Caster		Y(4)	
	Leveling Feet		Y(2)	
	Porthole		1 left side, (25mm)diameter	
	Inner Doors		2	
	Shelves		1- stainless steel adjustable shelves	
	Shelf Dimensions (W*D) (mm)		316*424	
	Max. Load per Shelf (kg)		22	
	Freezer Racks Quantity (2" boxes)		4	
	Capacity (2" boxes)		60	
	USB Interface		Y	
	Remote Alarm		Y	
	5V Power Supply Port		Y	
	Temperature Chart Recorder		/	
	RS232/485 Port		NA/Standard	
	CO_2 Backup System		Optional	
	LN_2 Backup System		Optional	
Others	Certification		CE, MDR	UL

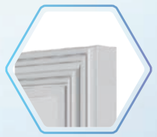
-86°C ULT Freezer

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



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



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

DW86L51J

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

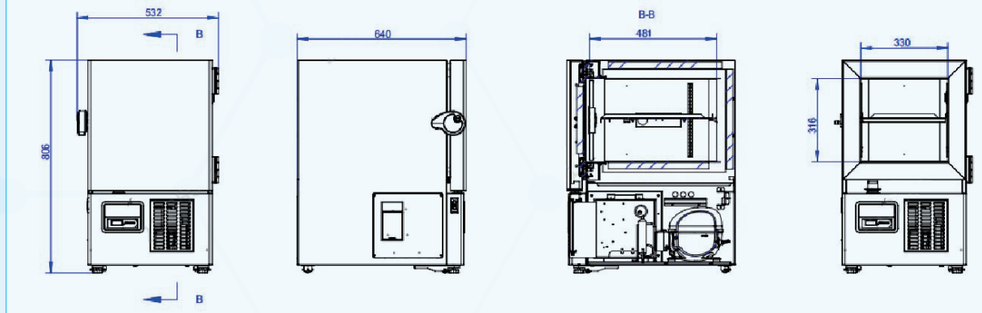
Internal Lock
Standard internal lock with 4 keys for multiple users

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

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

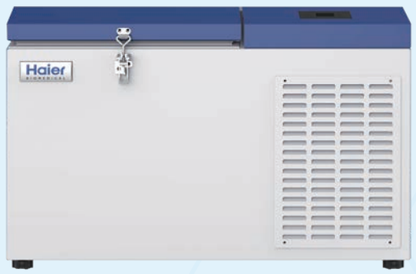
Suitable for pharmaceutical, clinical and medical research use, for the long-term storage of samples and products under ultra-low temperature conditions.

Product Dimensions



Mini ULT Freezer

Advantage



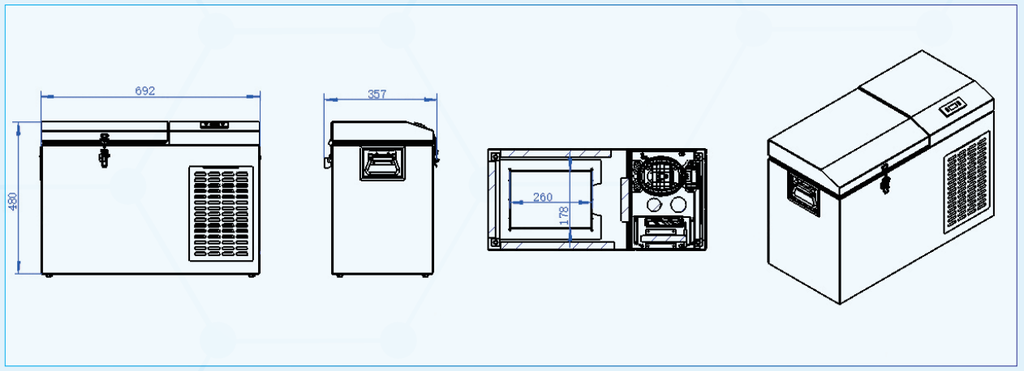
DW-80WZ15

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.

Product Dimensions



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.

Mini ULT Freezer

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, DC24	110/60, DC24	120V/60	220~240/50
	Max Power (W)		280		750	500
Dimensions	Capacity (L/Cu.Ft)		15/0.53		51/1.8	
	Net/Gross Weight	kg	27/33		77/90	73/86
		lbs	59.5/72.8		169.8/198.4	160.9/189.6
	Interior Dimension (W*D*H)	mm	260*180*330		330*481*316	
		in	10.2*7.1*13.0		13*16.5*12.4	
	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	
	Packing Dimension (W*D*H)	mm	805*430*725		570*735*1010	
		in	31.7*17.0*28.5		22.4*28.9*43.3	
	Cabinet Width (without handle and hinge)	mm	/		470	
	Container Load (20'/40'/40'H)		105/210/210		64/120/120	
Functions	High/Low Temperature Alarm		Y		Y	
	Hot Condenser Alarm		N		Y	
	Power Failure Alarm		Y		Y	
	High/Low Voltage Alarm		N		Y	
	Sensor Error Alarm		Y		Y	
	Low Battery Alarm		N		Y	
	High Ambient Temperature Alarm		N		Y	
	Door Ajar Alarm		N		Y	
	Start-up delay		N		Y	
Accessories	Caster		N		Y (4)	
	Leveling Feet		Y (4)		Y (2)	
	Porthole		N		1*right side, (25mm)diameter	
	Inner Doors		N		1	
	Shelves		N		1- stainless steel adjustable shelves	
	Shelf Dimensions (W*D) (mm)		N		316*424	
	Max. Load per Shelf (kg)		N		22	
	Freezer Racks Quantity (2" boxes)		N		2	
	Capacity (2" boxes)		10		30	
	USB Interface		N		Y	
	Remote Alarm		N		Y	
	5V Power Supply Port		N		NA	
	Temperature Chart Recorder		N		NA	
	RS232/485 Port		N		NA/Standard	
	CO_2 Backup System		N		NA	
	LN_2 Backup System		N		NA	
Others	Certifications		CE, MDR	UL	UL	CE, MDR

-86°C ULT Freezer

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	208~230/60	220~240/50	120/60	208~230/60	220~240/50
	Max Power (W)		900	900	1400	900	1000	1600	1700	900	1600	1200
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	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	830*900*1871			830*980*1980	953*900*1980	873*900*1980		903*980*1960		1035*900*1980
		in	32.7*35.4*73.7			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	879*974*2013			877*1070*2114	1020*1020*2130	934*980*2116		952*1063*2089		1110*1005*2130
		in	34.6*38.3*79.3			34.5*42.1*83.2	40.2*40.2*83.9	36.8*38.6*83.3		37.5*41.9*82.2		43.7*39.6*83.9
	Cabinet Width (without handle and hinge)	mm	725			725	850	770		800		940
	Container Load (20'/40'/40'H)		12/24/24			12/24/24	12/24/24	12/24/24		12/24/24		12/24/24
Functions	High/Low Temperature Alarm		Y			Y	Y	Y		Y		Y
	Hot Condenser Alarm		Y			Y	Y	Y		Y		Y
	Power Failure Alarm		Y			Y	Y	Y		Y		Y
	High/Low Voltage Alarm		N			N	N	N		N		N
	Sensor Error Alarm		Y			Y	Y	Y		Y		Y
	Low Battery Alarm		Y			Y	Y	Y		Y		Y
	High Ambient Temperature Alarm		Y			Y	Y	Y		Y		Y
	Door Ajar Alarm		Y			Y	Y	Y		Y		Y
	Start-Up Delay		Y			Y	Y	Y		Y		Y
Accessories	Caster		Y (4)			Y (4)	Y (4)	Y (4)		Y (4)		Y (4)
	Leveling Feet		Y (2)			Y (2)	Y (2)	Y (2)		Y (2)		Y (2)
	Porthole		2*rear, (25mm)diameter			2*rear, (25mm)diameter	2*rear, (25mm)diameter	2*rear, (25mm)diameter		2*rear, (25mm)diameter		2*rear, (25mm)diameter
	Inner Doors		2			2	4	4		4		4
	Shelves		3- stainless steel adjustable shelves			3- stainless steel adjustable shelves	3- stainless steel adjustable shelves	3- stainless steel adjustable shelves		3- stainless steel adjustable shelves		3- stainless steel adjustable shelves
	Shelf Dimensions (W*D) (mm)		451*597			443*657	576*597	576*567.5		606*650		746*567.5
	Max. Load per Shelf (kg)		44			54	58	58		72		72
	Freezer Racks Quantity (2" boxes)		12			12	16	16		16		20
	Capacity (2" boxes)		216			300	320	288		400		400
	USB Interface		Y			Y	Y	Y		Y		Y
	Remote Alarm		Y			Y	Y	Y		Y		Y
	5V Power Supply Port		Y			Y	Y	Y		Y		Y
	Temperature Chart 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
Others	Certifications		CE, MDR	CE	UL	CE, MDR	CE, MDR	CE, MDR	UL	CE, ENERGY STAR, MDR	UL, ENERGY STAR	UL	CE, MDR

-86°C ULT Freezer

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	220~240/50	208~230/60
	Max Power (W)		1700		1700		680	800	1600	
Dimensions	Capacity (L/Cu.Ft)		728/25.7		828/29.2		100/3.5	100/3.5	420/14.8	
	Net/Gross Weight	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		1153*980*1980		770*660*810	769*825*1120	2130*870*1020	
		in	41.3*38.6*78.0		45.4*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	1100*1069*2130		1197*1050*2117		830*730*1000	835*860*1280	2210*910*1160	
		in	43.3*42.1*83.9		47.1*41.3*83.3		32.7*28.7*39.4	32.9*33.9*50.4	87*35.8*45.7	
	Cabinet Width (without handle and hinge)	mm	946		1050		520	733	733	
	Container Load (20'/40'/40'H)		12/20/20		8/20/20		44/88/88	12/24/48	6/12/24	
Functions	High/Low Temperature Alarm		Y		Y		Y	Y	Y	
	Hot Condenser Alarm		Y		Y		Y	Y	Y	
	Power Failure Alarm		Y		Y		Y	Y	Y	
	High/Low Voltage Alarm		N		N		Y	N	N	
	Sensor Error Alarm		Y		Y		Y	Y	Y	
	Low Battery Alarm		Y		Y		Y	Y	Y	
	High Ambient Temperature Alarm		Y		Y		Y	Y	Y	
	Door Ajar Alarm		Y		Y		Y	Y	Y	
	Start-Up Delay		Y		Y		Y	Y	Y	
Accessories	Caster		Y (4)		Y (4)		Y (4)	Y (4)	Y (4)	
	Leveling Feet		Y (2)		Y (2)		Y (2)	Y (2)	Y (2)	
	Porthole		2*rear, (25mm)diameter		2*rear, (25mm)diameter		1*left side, (25mm)diameter	1*rear, (25mm)diameter	1*rear, (25mm)diameter	
	Inner Doors		4		4		2	1	3	
	Shelves		3- stainless steel adjustable shelves		3- stainless steel adjustable shelves		1- stainless steel adjustable shelves	N	N	
	Shelf Dimensions (W*D) (mm)		752*650		856*650		316*424	N	N	
	Max. Load per Shelf (kg)		90		108		22	N	N	
	Freezer Racks Quantity (2" boxes)		20		24		4	9	27	
	Capacity (2" boxes)		500		600		60	72	270	
	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 Chart Recorder		Optional		Optional		/	Optional	Optional	
	RS232/485 Port		Optional		Optional		NA/Standard	Optional	Optional	
	CO_2 Backup System		Optional		Optional		Optional	Optional	Optional	
	LN_2 Backup System		Optional		Optional		Optional	Optional	Optional	
Others	Certifications		CE, MDR	UL, ENERGY STAR UL	CE, MDR	UL, ENERGY STAR	CE, MDR UL	CE, MDR	CE, MDR	UL, MDR

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	Certifications	CE/UL

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	Certifications	CE/UL

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

- Advanced pulsed capacitor discharge resistance welding machine is used for welding, which makes the welding firm, smooth and beautiful.
- A wide range of specifications, can store cryogenic tube (box), SBS cryogenic tube (box), centrifuge tubes etc.
- Handle design, compared with the traditional design is less susceptible to freezing.
- Customized freezer racks according to different purposes or different freezers.

Drawer Freezer Rack	CAT.NO.	Model	Material	Adapte	Packing
	433001	(EXP)DCJ-55-B(SUS201)	SUS201	133*133*53mm box	1 pcs/ case
	433002	(EXP)DCJ-55-B(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433003	(EXP)DCJ-54-B(SUS201)	SUS201	133*133*53mm box	1 pcs/ case
	433004	(EXP)DCJ-54-B(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433005	(EXP)DCJ-53-B(SUS201)	SUS201	133*133*53mm box	1 pcs/ case
	433006	(EXP)DCJ-53-B(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433007	(EXP)DCJ-44-B(SUS201)	SUS201	133*133*53mm box	1 pcs/ case
	433008	(EXP)DCJ-44-B(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	434040	(EXP)DCJ-45-B(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	434041	(EXP)DCJ-33-B(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433009	(EXP)DCJ-35-B(3 inch/SUS304)	SUS304	133*133*94mm box	1 pcs/ case
	433010	(EXP)DCJ-34-B(3 inch/SUS304)	SUS304	133*133*94mm box	1 pcs/ case
	433011	(EXP)DCJ-75-B(SUS304)	SUS304	133*133*37mm box	1 pcs/ case

Side-access Freezer Rack	CAT.NO.	Model	Material	Adapte	Packing
	433012	(EXP)DCJ-55-A(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433013	(EXP)DCJ-54-A(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433037	(EXP)DCJ-53-A(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433014	(EXP)DCJ-35-A(3 inch/SUS304)	SUS304	133*133*94mm box	1 pcs/ case
	433015	(EXP)DCJ-34-A(3 inch/SUS304)	SUS304	133*133*94mm box	1 pcs/ case
	433016	(EXP)DCJ-44-A(SUS304)	SUS304	133*133*53mm box	1 pcs/ case

SBS Freezer Rack	CAT.NO.	Model	Material	Adapte	Packing
	433017	(EXP)DCJ-57-B(SUS304)	SUS304	86*128*50.8mm box	1 pcs/ case
	433018	(EXP)DCJ-77-B(SUS304)	SUS304	86*128*38.5mm box	1 pcs/ case
	433019	(EXP)DCJ-56-B(SUS304)	SUS304	86*128*50.8mm box	1 pcs/ case
	433020	(EXP)DCJ-57-B(SUS201)	SUS201	86*128*50.8mm box	1 pcs/ case
	433021	(EXP)DCJ-77-B(SUS201)	SUS201	86*128*38.5mm box	1 pcs/ case
	433022	(EXP)DCJ-56-B(SUS201)	SUS201	86*128*50.8mm box	1 pcs/ case

Vertical Freezer Rack	CAT.NO.	Model	Material	Adapte	Packing
	433023	(EXP)DCJ-6-A(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433025	(EXP)DCJ-8-A(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433026	(EXP)DCJ-10-A(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433028	(EXP)DCJ-12-A(SUS304)	SUS304	133*133*53mm box	1 pcs/ case

Centrifuge Tube Freezer Rack	CAT.NO.	Model	Material	Adapte	Packing
	433029	(EXP)SDCJ-15ml	SUS304	15ml centrifuge tube	1 pcs/ case
	433030	(EXP)SDCJ-50ml	SUS304	50ml centrifuge tube	1 pcs/ case

Cryogenic Storage Series

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

Cryogenic Tube

CAT.NO.	Volume (mL)	Material	Specification	Type	Sterile	Packing
413032	0.5	PP	SBS 12x8	box-packed	√	96 pcs/box, 80 boxes/ case
413033	0.75	PP	SBS 12x8	box-packed	√	96 pcs/box, 70 boxes/ case
413034	1.0	PP	SBS 12x8	box-packed	√	96 pcs/ box, 50 boxes/ case
413004	2.0	PP	SBS 6x8	box-packed	√	48 pcs/ box, 50 boxes/ case
413005	2.0	PP	10x10	box-packed	√	100 pcs/ box, 30 boxes/ case
413006	0.5	PP	/	bag-packed	√	220 pcs/ bag 60 bags/ case
413007	1.0	PP	/	bag-packed	√	150 pcs/ bag 40 bags/ case
413008	2.0	PP	/	bag-packed	√	70 pcs/ bag 50 bags/ case

* External cap , triple code, white code on black background

SBS Box

CAT.NO.	Adapte	Material	Specification	Packing
413009	0.5 ml SBS Tube	PC+ABS	SBS 8x12	80 boxes/ case
413010	0.75 ml SBS Tube	PC+ABS	SBS 8x12	70 boxes/ case
413011	1.0 ml SBS Tube	PC+ABS	SBS 8x12	50 boxes/ case
413012	2.0 ml SBS Tube	PC+ABS	SBS 6x8	50 boxes/ case
413013	2.0 ml SBS Tube	PC+ABS	10x10	30 boxes/ case

Cryogenic Storage Series

Cryo tubes can withstand ultra-low temperature refrigerator environment, no deformation under low temperature environment, tigh_x0002_tly closed tube mouth, low risk of contamination. The multi-colored caps are designed for easy sample differentiation.

- Temperature Range: -196 ℃ ~ 121 ℃

External thread	CAT.NO.	Volume (mL)	Material	Cap	Sterile	Packing
	423010	0.5	PP	Flat cap	√	100pcs/bag, 10bags/case
	423016	0.5	PP	Flat cap	√	100pcs/ box, 12 boxes/ case
	423011	1.5	PP	Flat cap	√	100pcs/bag, 10bags/ case
	423017	1.5	PP	Flat cap	√	100pcs/ box, 12 boxes/ case
	423032	0.5	PP	Automated cap	√	100pcs/bag, 20bags/ case
	423038	0.5	PP	Automated cap	√	100pcs/ box, 30 boxes/ case
	423028	1.0	PP	Automated cap	√	100pcs/bag, 20bags/ case
	423026	1.0	PP	Automated cap	√	100pcs/ box, 30 boxes/ case
	423035	1.5	PP	Automated cap	√	100pcs/bag， 20bags/ case
	423041	1.5	PP	Automated cap	√	100pcs/ box, 30 boxes/ case
	423029	2.0	PP	Automated cap	√	100pcs/bag, 20bags/ case
	423027	2.0	PP	Automated cap	√	100pcs/ box, 30 boxes/ case
	423012	2.0	PP	Concave cap	√	100pcs/bag, 10bags/ case
	423013	5.0	PP	Concave cap	√	100pcs/bag, 10bags/ case

Internal thread tube :

Concave cap
(color code inset possible)

External thread tube :

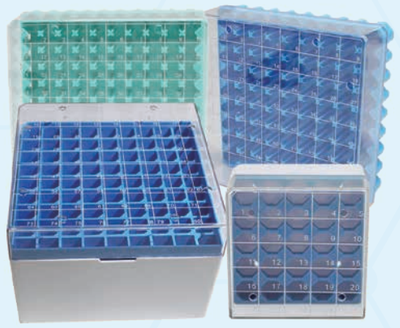
Automated cap

Flat cap

Concave cap
(color code inset possible)

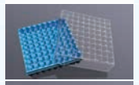
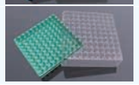
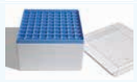
Internal thread	CAT.NO.	Volume (mL)	Material	Cap	Sterile	Packing
	423014	1.0	PP	Concave cap	√	100pcs/bag, 10bags/ case
	423015	2.0	PP	Concave cap	√	100pcs/bag, 10bags/ case

Cryogenic Box



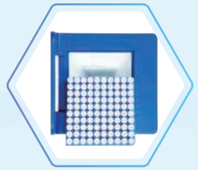
- Specifications: 25/81/100 wells
- Temperature Range: -196 ℃ ~ 121 ℃

Paper Box	CAT.NO.	Type	Specifications	Adapte	Packing
	423001	9*9	133*133*53mm White	0.5-2.0ml	50 boxes/case
	423002	10*10	133*133*53mm White	0.5-2.0ml	50 boxes/case

PC Box	CAT.NO.	Type	Specifications	Adapte	Packing
	422005	5*5	73*73*53mm Clear box cover, Blue center plate, white base	0.5-2.0ml	50 boxes/case
	422012	9*9	133*133*53mm Clear box cover, Blue base	0.5-2.0ml	50 boxes/case
	422013	10*10	133*133*53mm Clear box cover, Green base	0.5-2.0ml	50 boxes/case
	422014	9*9	133*133*94mm Clear box cover, Blue center plate, White base	5.0ml	24 boxes/case

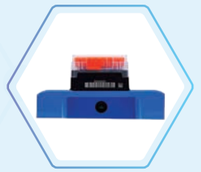
High Speed Batch Scanner

Haier Biomedical high speed batch scanner can be used to scan various specifications of boxed prefabricated code cryogenic tubes, 1S high-speed identification of sample information, to achieve efficient management of sample.



Intelligent induction tube box, automatic light filling, multi environment adaptation.

Tube bottom code and box code synchronous reading, three-dimensional construction data.



Detachable module design, compatible with SBS, square and other multi-specification cryogenic box.

Module anti-loss hook design, prevent module placement and loss trouble.

CAT.NO	Description	Quantity	Package
445005	Batch scanning, high-speed scanning, side code scanning, suitable SBS freezer box	1	1 set/case
445007	Batch high-speed scanning, top scanning model, suitable for 10*10/9*9 top labeled freezer box	1	1 set/case

Single Tube Scanner

Haier Biomedical single tube scanner is flexible and quick to scan the samples information.

Wireless communication distance up to 30 meters, easy to identify mobile scene information.

Support battery charging and replacement, a saturated charge can work for 20 hours or standby for 50 hours.

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

CAT.NO	Description	Quantity	Package
445012	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
445013	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
445053	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

Haier Biomedical batch cover opener opens or closes the multi-channel cap improves the efficiency compared to manual operation and reduces the risk of contact with biochemical reagents and safety risks.

- Multi-channel synchronized cap opening, up to 8 channels at a time
- Push-key design for quick and easy cap removal
- Rack storage, convenient storage of opened batch caps

CAT.NO.	Description	Quantity	Package
445016	8-channel, hand-held, for SBS 96 boxed cryo-tubes;	1	1 set/case
445020	6-channel, hand-held, for SBS 48/24 boxed cryo-tubes;	1	1 set/case

Haier Biomedical
Intelligent Protection of Life Science

Freeze Dryers

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

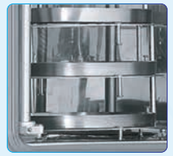
Multiple alarm functions
Multiple alarms including cold trap cooling overtime, vacuum pump oil replacement reminder, temperature sensor fault/cold trap temperature sensor fault, vacuum sensor fault, condenser sensor fault, ambient temperature sensor fault, abnormal refrigeration, motor overcurrent, condenser 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

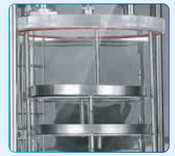
Ergonomic Design



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 the glance

Product Parts

Rotary Vane Vacuum Pump DRV10

Oil Filter

Product Advantages

- The two-level gas ballast design offers greater convenience in meeting the steam discharge requirements of diverse processes.
- The automatic anti-backflow oil design provides more reliable protection for the vacuum system, preventing it from being contaminated by oil after shutdown.
- The built-in gear wheel pump and constant pressure oil supply mechanism ensure forced oil supply, allowing stable and reliable operation even under high suction pressure.

Vacuum Pump

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-65Z04-10A
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
Penicillin Bottle	Optional
Vacuum Pump Oil	Optional
Oil Mist Filter	Optional
Certifications	CE

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

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

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

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

Ergonomic Design

Standard
Suitable for freeze-drying bulk samples

Manifolds
Suitable for freeze-drying samples in externally-attached flasks

Stoppering
Suitable for freeze-drying and stoppering samples in vials

Stoppering with Manifolds
Suitable for freeze-drying and stoppering samples in vials and externally-attached flasks

Freeze Dryer

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/-85
Condensation Effciency (kg/h)	4/24
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
Certifcations	CE

Pilot Freeze Dryer

The pilot freeze dryer is a smaller-scale freeze-drying system used in research, product development, and small-scale production processes.

HDG-85Z10-50

Product Advantages

Precise Temperature Control

- The ±0.5°C shelf temperature accuracy allows precise adjustments tailored to your sample's needs and freeze-drying conditions.
- Benefit from ±1°C cabinet temperature accuracy, ensuring consistent freeze-drying quality across your samples.

Efficient Refrigeration Technology

Experience rapid cold trap pull down from +20°C to -45°C in just 30 minutes, with the ability to reach ultimate temperatures of -85°C.

Achieve simultaneous cabinet and cold trap cooling, reducing wait times and enhancing efficiency.

PLC Control, User-Friendly Control Interface

Utilize editabl e automatic programs and multi-temperature segment control, meeting fine process requirements effortlessly.
Navigate easily through operations with the touchscreen interface, which can connect to a PC, enabling multi-user applications.

Comprehensive Documentation

Ensure compliance with FDA 21 CFR part 11, featuring e-signature capabilities for robust documentation.

Pilot Freeze Dryer

Product Features

Suitable for Small Batch Production & Pilot Run
Shelf total size: 0.54m²
Capacity: Circa. 3.690 Penicillin bottles Φ12mm
Circa. 2.046 Penicillin bottles Φ16mm
Circa. 1.056 Penicillin bottles Φ22mm

Custom Design Options
0.2m²/ 0.4m² / 1m² can be customized according to customer demand.
Optional eutectic point test, drying end point judgment, can be connected to the sterilizer and gas backfill system, semi-customized to meet a variety of needs of users.

Automatic Stoppering Function
Experience automatic stoppering functionality, facilitated by a customized hydraulic system. ideal for small batch production needs.

Sample Safety
Rest assured. with emergency protection functions and IoT monitoring, ensure the safety of your valuable samples.

Product Performances

Model	HDG-85Z10-50
Shelf Size	0.54m² Penicillin Φ12mm: Circa. 3690pcs Penicillin Φ16mm: Circa. 2046pcs Penicillin Φ22mm: Circa. 1056pcs
Cold Trap Temperature (°C)	-85°C
Cold Trap Cooling Speed	From +20°C to -45°C in 30min
Ice Condenser Capacity (kg)	10
Shelf Temperature Uniformity (°C)	±0.5°C On same shelf ±1°C For all shelves
Ultimate Vacuum (mbar)	0.005
Shelf Dimension (mm)	300*450
Shelf Quantity	4+1
Shelf Distance (mm)	80
Shelf Temperature (°C)	-60°C~60°C
Power (W)	5000
Exterior Dimension (W*D*H)(mm)	1530*890*1900
Weight (kg)	800
Power Supply (V/Hz)	220V/50Hz
Control System	PLC control (Touchscreen as standard, can connect with PC)
Vacuum Control	Leak control valve
Freeze Drying Curve & Records	Yes
Automated Program	Yes (Manually)
Penicillin Lid Press	Yes (Hydraulic)
N2 Back Fill System	Optional
Automatic Drainage	Yes
Frost Function	Heated water frost
IoT Monitoring	No
Sample Emergency Protection	Constantly cooling the sample when vacuum exceeds limit
FDA 21 CFR Part 11	Compliance
Drying End Point Judgment	Optional
Eutectic Point test	Optional
Sterilization	Optional for H_2O_2 sterilizer
IQ/OQ Confirmation	Optional
Certifications	CE

Laboratory Freeze Dryer

Bench-Top

HDG-86Z03-12T

Floor-Standing

HDG-86Z04-12

HDG-86Z06-18

The laboratory freeze-dryer is designed for laboratory research and sample preparation, and there are five types of design that can meet different needs.

Product Features

Offering different choices of ice condenser capacity: 3, 4, 6 kg per 24 hours

Rapid cooling to temperatures as low as -90°C

Environmentally-friendly HC refrigeration system

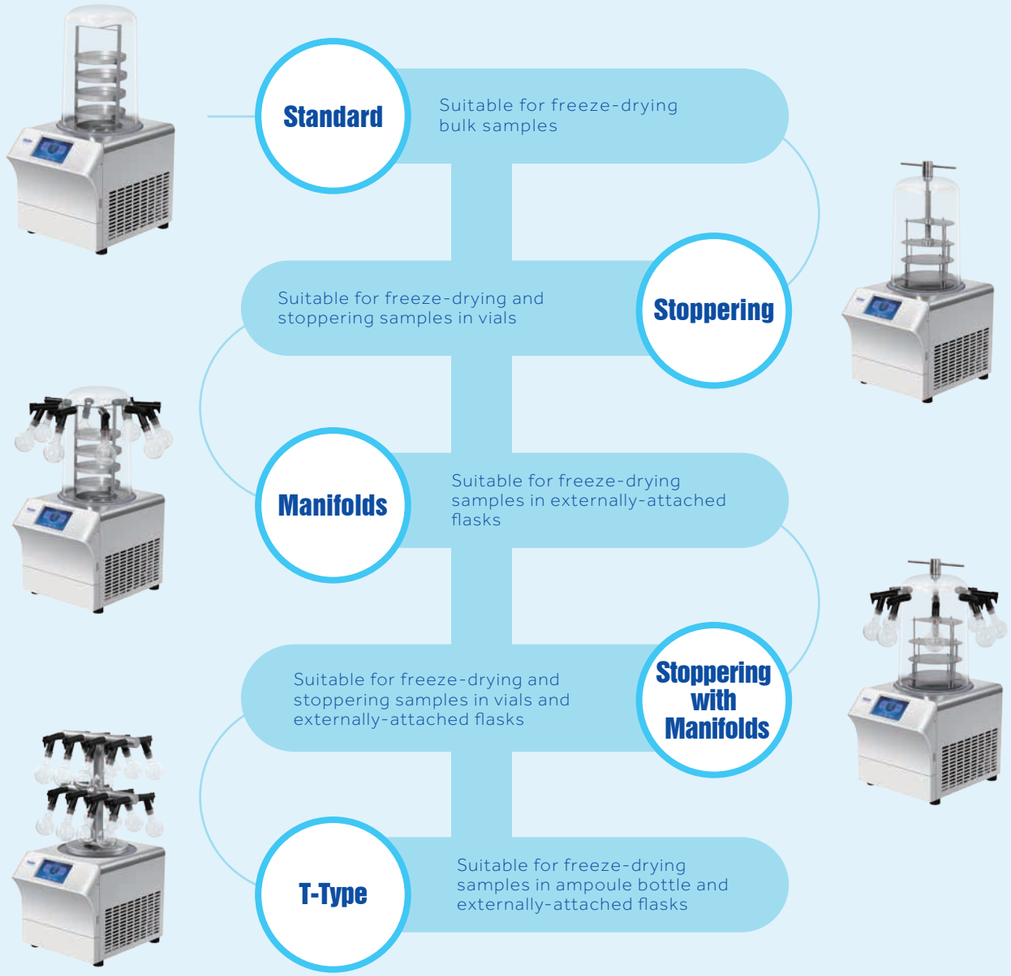
Optimal process control for quick and reliable freeze-drying

Real time display of sample temperature, vacuum curve, and cold trap temperature curve

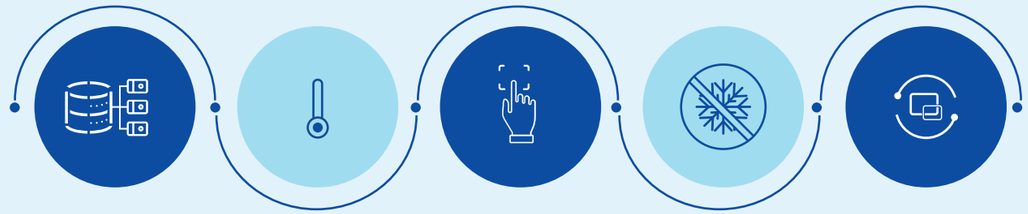
Laboratory Freeze Dryer

Ergonomic Design

Multiple Freeze-Drying Chamber Options



Freeze-Drying Function Options



Specifications

Model	HDG-86Z03-12T	HDG-86Z04-12	HDG-86Z06-18
Type	Bench-Top	Floor-Standing	Floor-Standing
Area (m2)	0.12/0.09	0.12/0.09	0.18/0.09
Ice Condenser Temperature (°C)	-86	-86	-86
Ice Condenser Capacity (kg)	3	4	6
Condensation Efficiency (kg/24h)	3	4	6
Maximum Vacuum (Pa)	≤ 5	≤ 5	≤ 5
Shelf Diameter (mm)	ϕ200	ϕ200	ϕ240/ϕ240
Number of Shelves	4/3	4/3	4/3
Distance Between Shelves (mm)	70	70	70
Freeze Chamber Dimension (mm)	ϕ300*150	ϕ300*210	ϕ340*250
Power Supply (V/Hz)	220V/50Hz	220V/50Hz	220V/50Hz
Power (W)	950	980	1000
Exterior Dimension (W*D*H) (mm)	406*550*430	406*550*720	645*600*720
Weight (kg)	44	50	60

Haier Biomedical
Intelligent Protection of Life Science

PRESERVATION

Biomedical Freezers

-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.

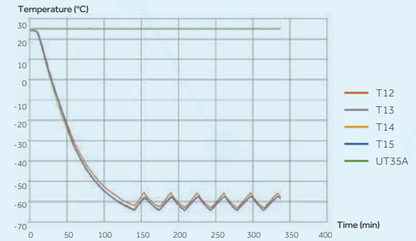
Dual seal design retains cold and reduces condensation.

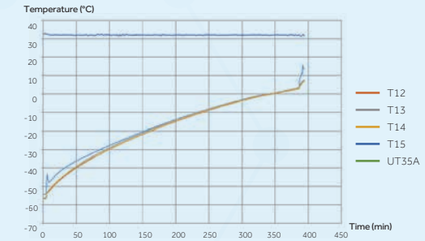
304 stainless steel is suitable for both laboratory and is certified food safe for commercial kitchen environments.

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)		3	3	3.5
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
	MDR		Y	Y	Y

-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

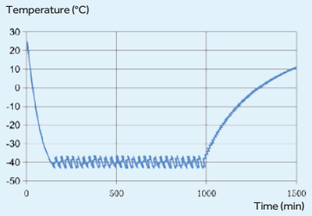
- Multiple alarms: high/low temperature alarm/sensor error alarm/power failure alarm. Optional high ambient warning and remote alarm contacts
- Battery backed-up alarm will alert for more than 24 hours in case of power failure
- Equipped with overcurrent protector for safety

Refrigeration System

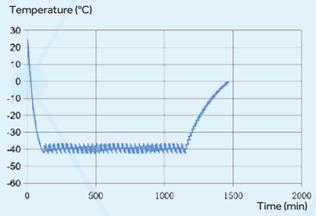
- Durable, market-leading brand compressors and EBM condensing fan ensure a high refrigeration efficiency and maximizes temperature performance
- High density insulation layer delivers superior insulation performance
- Evaporator and condenser design delivers excellent refrigeration efficiencies
- Non-toxic,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

Temperature Curve

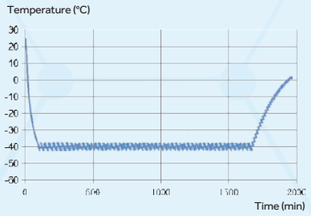
DW-40W138J



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, MDR	CE, MDR	CE, MDR

-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

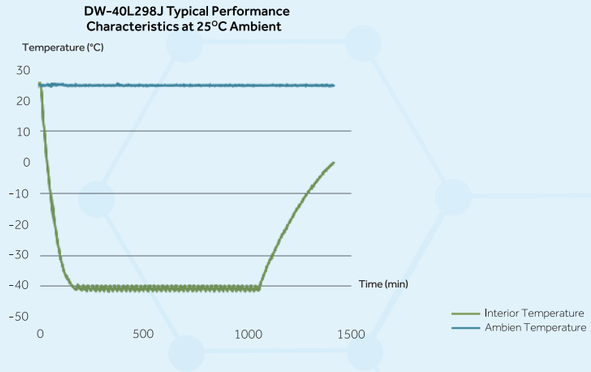
HC Energy-saving
High efficiency hydrocarbon compressor and refrigeration technology for a lower energy consumption

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



Specifications

	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	HC / CFC-Free	HC		HC
	Sound Level (dB(A))		29	41 / 44	40	42	45
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		LCD	LCD	LED		LCD
Electrical Data	Power Supply (V/Hz)		220-240/50/60	220-240/50/60 / 115/60	220-240/50	208-230/60	220-240/50
	Power (W)		340	310 / 600	350	270	340
Dimensions	Capacity (L/Cu.Ft)		92/3.3	262/9.3	298/10.5		568/20.1
	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		Y	Y	Y		Y
	Dirty Condenser		Y	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	Drawers, Optional		16/20/24-plastic blood bag 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, MDR	CE, MDR /	CE, MDR	CE	CE, MDR

-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

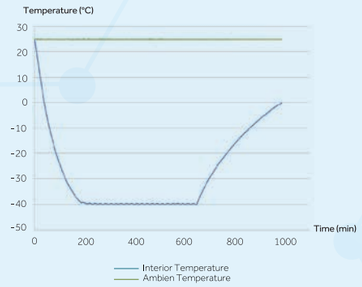
Hydrocarbon refrigerant, LBA foam polyurethane insulation layer

Adjustable Shelves

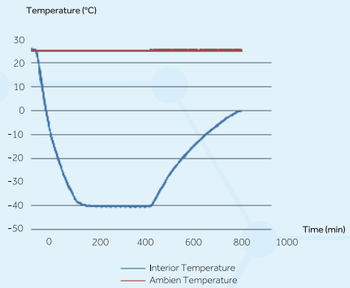
Built-in evaporator and adjustable shelves provides large available interior space. Users can store items of different sizes as needed

Temperature Curve

DW-40L418D Typical Performance Characteristics at 25°C Ambient



DW-40L528D Typical Performance Characteristics at 25°C Ambient



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	
Electrical Data	Power Supply (V/Hz)		220~240/50	220~240/50	208~230/60
	Power (W)		370	375	280
Dimensions	Capacity (L/Cu.Ft)		418/14.8	531/18.8	
	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, MDR	CE, MDR	CE

-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

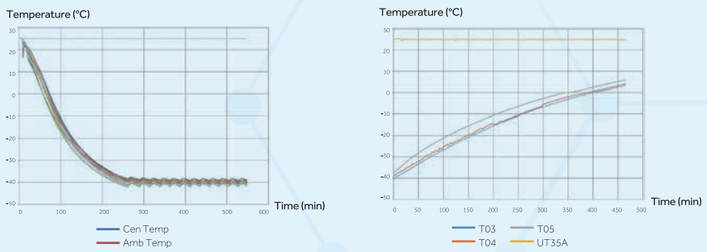
Configuration
Standard: RS485 interface
Optional: Temperature recorder , USB interface, 10-inch touch screen Stainless steel shelves, Blood basket,Plastic blood bag drawers

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

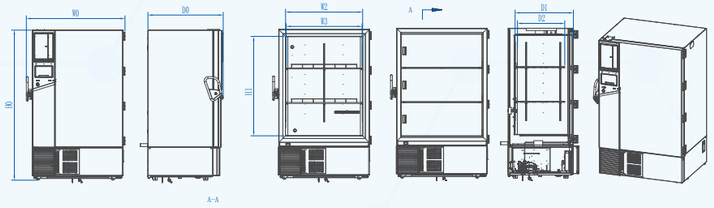
Shelf height can be adjusted according to the size of the stored articles, so as to realize the efficient use of large space in the cabinet (SUS304 stainless shelves as optional)

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

Code / Model	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
Electrical Data	Power Supply (V/Hz)		100-230/50/60	100-230/50/60	100-230/50/60	100-230/50/60
	Power (W)		795	795	800	800
Dimensions	Capacity (L/Cu.Ft)		818/28.9	818/28.9	959/33.9	959/33.9
	Net/Gross Weight (approx)	kg	210/240	210/240	350/400	350/400
		lbs	463.0/529.1	463.0/529.1	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*rear, (25mm)Diameter	Y, 2*rear, (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	21/42- Plastic Blood Bag Drawers, Optional	21/42- 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, UL, MDR	CE, UL, MDR	CE, UL	CE, UL

-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

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

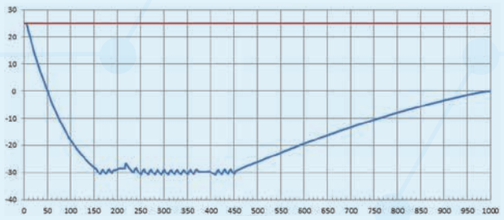
If one system fails, the other one would reach -25°C quickly, which doubles the safety of the sample; With air cooling technology, the inside uniformity can reach ±3°C (±5°C during the defrosting period).

Advanced Defrosting Technology Optimised Safety

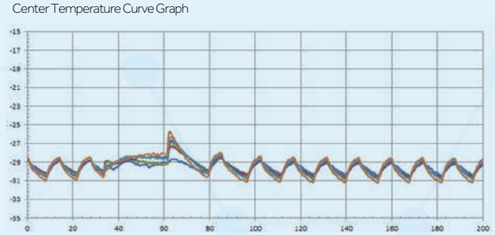
The automatic hot gas defrosting technology eliminates the risk of electrical leakage which can occur with heated wire defrosting techniques.

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



Follow the QR code and learn more about the Croygenic Freezer DW-30L1280F from Haier Biomedical

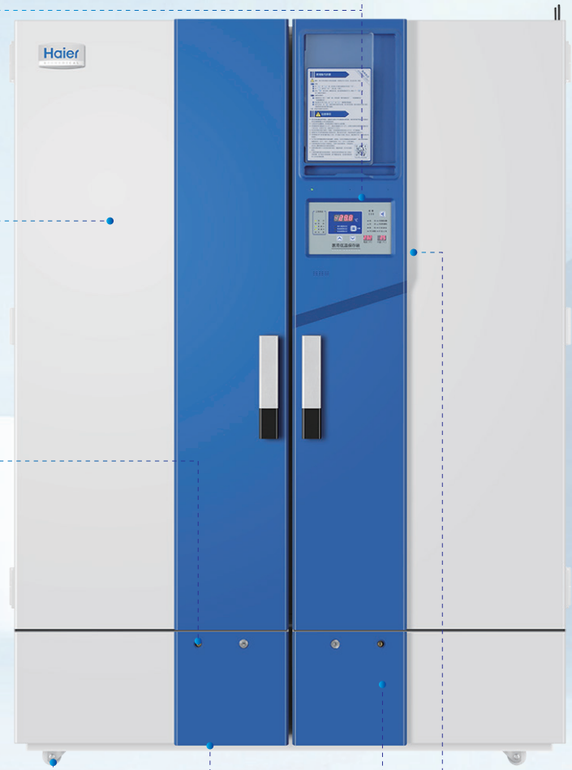
Product Parts

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

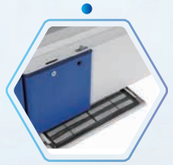
Optional : LCD Touchscreen

Supersized double outer doors, 70mm insulation layer

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



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)

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.

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

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

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

Product Parts

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

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

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

-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
Electrical Data	Power Supply (V/Hz)		220~240/50	208~230/60	220~240/50
	Power (W)		650	495	900
Dimensions	Capacity (L/Cu.Ft)		520/18.4		1280/45.2
	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		16/20-plasticbloodbagdrawers,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, MDR	MDR	CE, MDR

-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.

Follow the QR code and learn more about the Freezer DW-30L818BP from Haier Biomedical

-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.

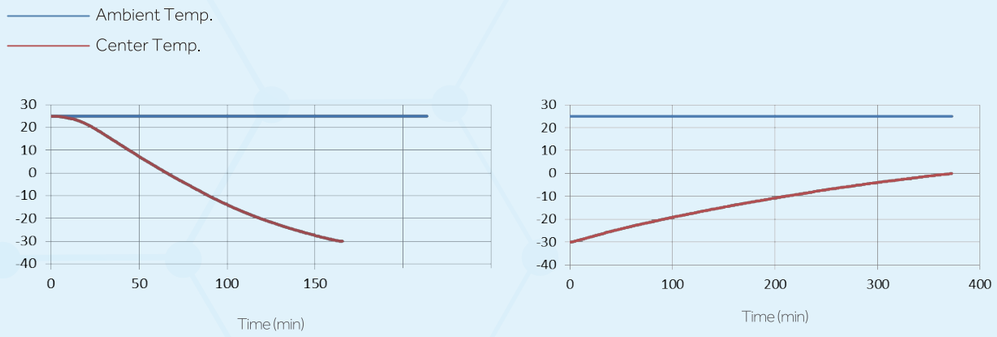
Security Lock

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.

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.

Product Advantages

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.

Double Seal Design Provides better insulation and saves energy.

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

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

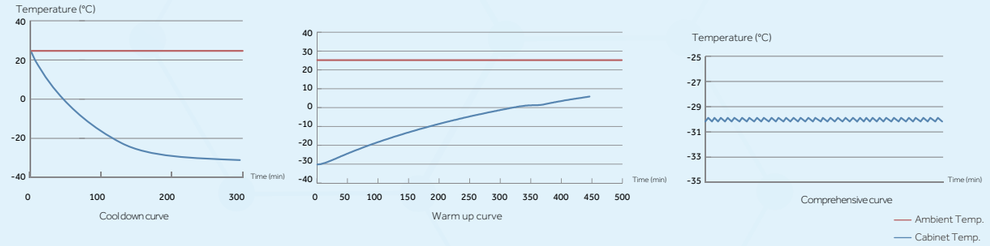
4 multi-directional casters and 2 lockable feet make it easy to move, level and lock in place.

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

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)

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

Typical Performance Characteristics at 25°C ambient



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
Electrical Data	Power Supply (V/Hz)		220-240/50	100-230/50/60
	Power (W)		380	680
Dimensions	Capacity (L/Cu.Ft)		818/28.9	818/28.9
	Net/Gross Weight (approx)	kg	225/260	251/287
		lbs	496.0/573.2	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*Rear, (25mm)Diameter	Y, 2*Rear, (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, MDR	CE, UL, ENERGY STAR, MDR

-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

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

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

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

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 (°C)		-30
	Temperature Range (°C)		-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, MDR

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

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

-30°C Biomedical Freezer (Direct Cooling)

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, MDR	UL

-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.

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

-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

Optimal Design

New Generation Appearance

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

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

Low Noise Design

Noise-reduction features and structure noise reduction design

Porthole

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

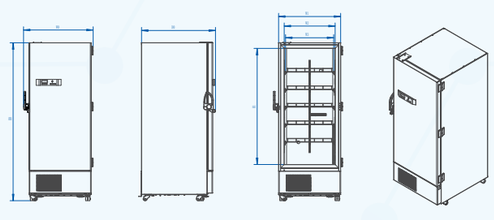
Adjustable Storage Shelf Height

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)

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*Rear, (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

-25°C Biomedical Freezer

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

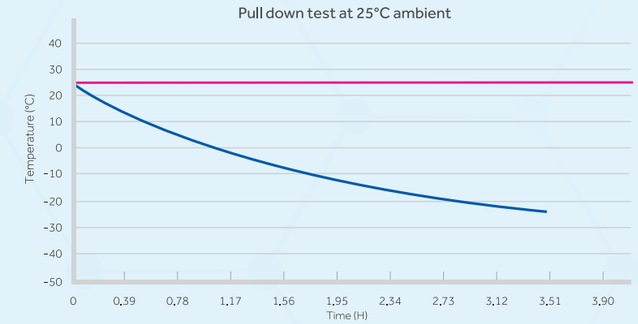
DW-25L92/262

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	
	Net/Gross Weight (approx) lbs	101.4/112.4		194.0/205.0	
	Interior Dimension (W×D×H) mm	435*410*635		480*465*1430	
	Interior Dimension (W×D×H) 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
	Exterior Dimension (W×D×H) 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	
	Packing Dimension (W×D×H) 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, MDR	UL	CE, MDR	UL

Haier Biomedical
Intelligent Protection of Life Science

Spark Free Refrigerators /Freezers

Spark Free Refrigerator

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

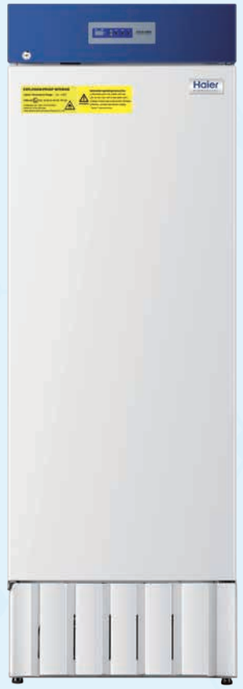
Smart temperature control system limits the temperature variance within ±3°C. Adjustable set point for the range of 3°C ~16°C, factory default set temperature is 5°C, controlling the temperature inside the chamber is 2~8°C.

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

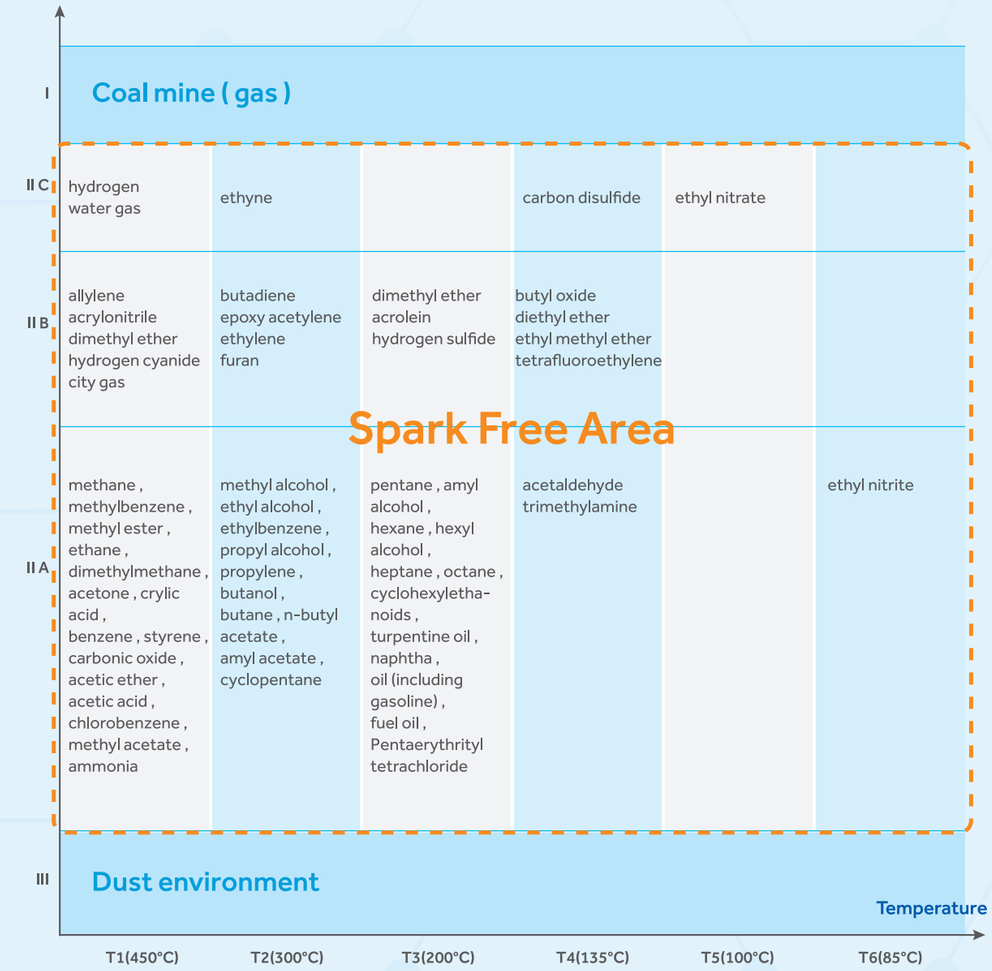
Explosion Proof Cabinet/Fan

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
	GWP (global warming potential)		20	20	20	20
	Sound Level (dB(A))		40	40	43	40
Performance	Temperature Range (°C)		3~16 Adjustable	3~16 Adjustable	3~16 Adjustable	3~16 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	2.5	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	27.6*28.0*36.6	26.8*27.1*74.4	26.8*27.1*74.4	26.8*27.1*74.4
	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

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 get temperature record

Multipurpose and Space Efficient

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

Environment Friendly

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

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

Stainless Steel Interior

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

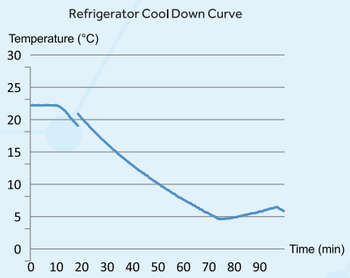
ATEX Certified

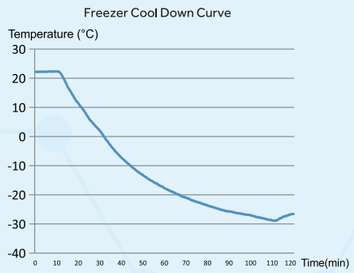
Low Energy Consumption: 1.5 kWh/24h

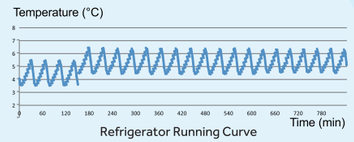
Combined Refrigerator and Freezer with Spark-free Interior

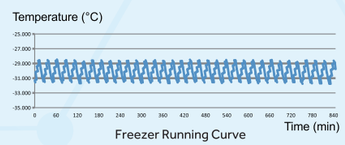
HLRF-319SF

25°C Ambient Temperature Curve









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

-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

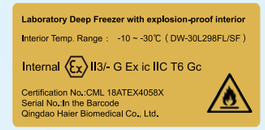
Hydrocarbon refrigerant, energy saving and environmental protection, built with LBA foam insulation, complies with European RoHS Directive

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)

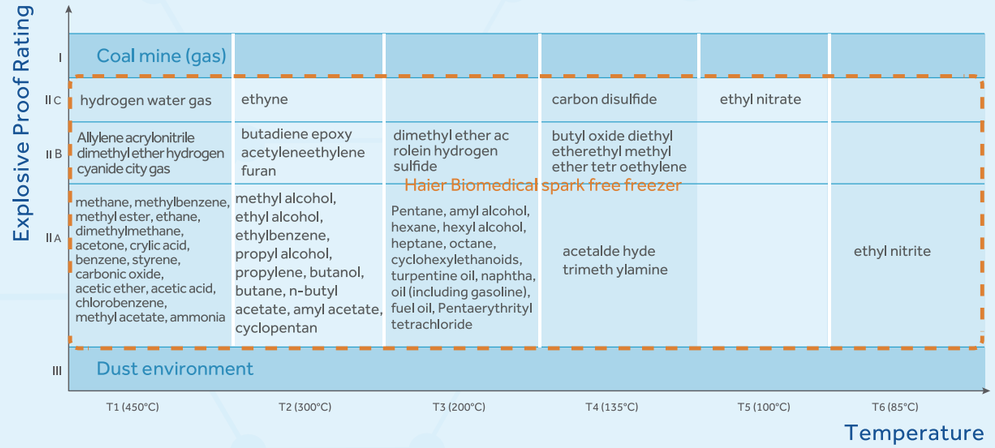
Improved Handle Design

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



-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

Haier Biomedical
Intelligent Protection of Life Science

Laboratory Refrigerators

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
	GWP (global warming potential)		20
	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

Haier Biomedical
Intelligent Protection of Life Science

Transportation

Active Temperature Controlled RKN Container

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: A330, A350, A380, B747, B767, B777, B787 as key examples		
Note	Tare weight and maximum payload might vary due to load variations and maintenance		

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
Others	CE	/	Y	Y

Specifications

	Model	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
Others	CE	/	/	Y

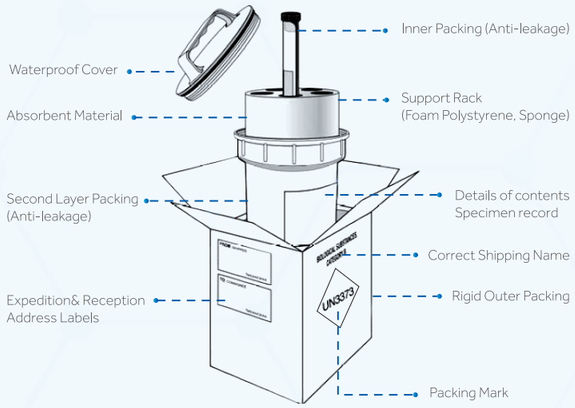
Transport Cooler for Infectious Products

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.

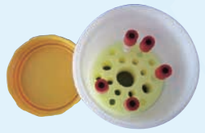
The power supply is equipped with a car cigarette lighter plug, which is convenient for vehicle transport

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.

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	

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)	425*262*305	425*262*305	570*305*365	615*415*450	800*440*440	870*520*400
Interior Dimensions (W*D*H)(mm)	325*170*225	363*203*244	475*245*270	510*315*355	700*385*340	790*460*330
Quantity of Icepacks (Pcs)	4	4	4	3	6	8
Net Weight (kg)	4.8	5.2	7.5	15	19.6	24
Others	CE	CE	CE	CE	CE	CE

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

Biosafety Transport Container

FS-12 18 35 54LS

- The sterilization process is easy, and the container can be used repeatedly
- High temperature outer case deformity protection for 10 years
- Manufactured with high-density polyethene and polypropylene material, which is non-toxic, UV resistant, non-fading and safe for direct food contact
- The container is filled with non-fluorinated polyurethane foam insulation material without any chemical materials, which is eco-friendly and without odor
- Easy to use: Smart-designed ice box, fixed clip, storage partition
- Integrated handles on both sides of the container, convenient, firm and durable
- Professional sealing with superior heat insulation and preservation effect
- Optional whole process temperature monitoring, which makes transportation more secure

Technical Parameters

Model	FS-12LS	FS-18LS	FS-35LS	FS-54LS
Temperature Range (°C)	2-10°C	2-10°C	2-10°C	2-10°C
Duration (H)	≥24h	≥24h	≥24h	≥24h
Exterior Dimensions (W*D*H) (mm)	425*262*305	425*262*305	570*305*365	615*415*450
Interior Dimensions (W*D*H) (mm)	325*170*225	375*215*250	475*245*270	510*315*355
QTY of Sealed Tanks (Pcs)	2	3	5	14
QTY of Samipling Tubes (Pcs)	40	60	100	280
Qty of ice packs (Pcs)	4	4	8	3
Net Weight (include ice packs) (Kg)	5.2	6.5	9	20
Others	CE	CE	CE	CE

Portable Transport Cooler

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
- Detachable temperature sensor
- LED lighting
- 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 DC 12V/24V	AC110-240V, 50/60Hz DC 12V/24V	AC110-240V, 50/60Hz DC 12V/24V
Power Consumption (kWh/24h)		0.23	0.25	0.25
Others		CE	CE	CE

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)	Electromagnetic 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

Follow the QR code and learn more about the
Cold Chain Transport Cooler HZY-40Z from Haier Biomedical

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.

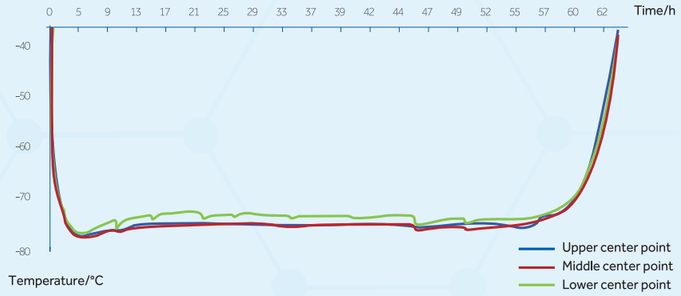
BW25-8A/12A/18A/36A/64A
BW50-12A/36A

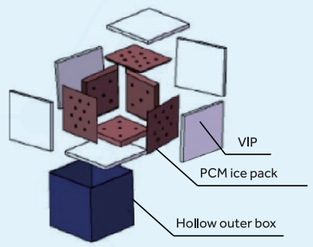
Stable performance, long service life

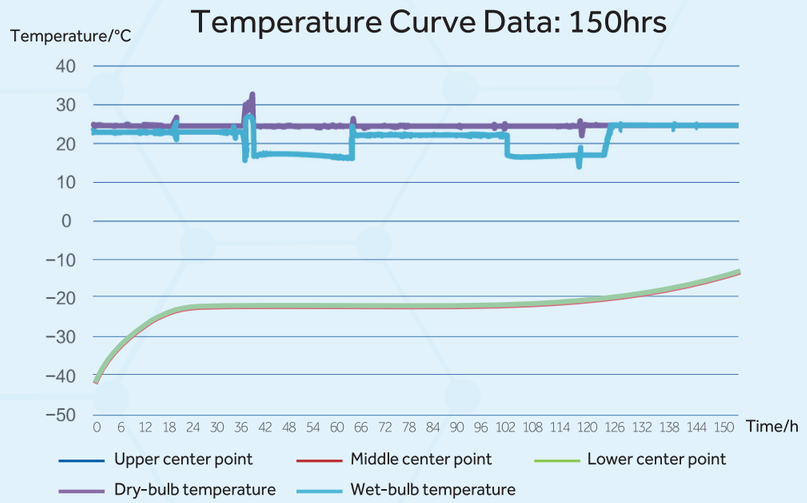
The product adopts VIP insulation technology which has an insulation performance of 5-8 times that of polyurethane foam, and significant extended time temperature control that handles the changing transportation conditions and environment; It has long service life by adopting nanometer core material.

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.

Scope of Application

Suitable for refrigerated transportation of vaccines and biological products, samples, reagents, blood products, specimens and medicines.

BW25-12B/36B/64B/55B

Product Advantages

Stable performance, long service life

Vacuum insulation technology, ultra low thermal conductivity, ultra long insulation time

Phase change cold storage, support multi-temperature range

It can be compatible with - 25-15°C, 2-8 °C and 15-25°C temperature ranges, and can be recycled

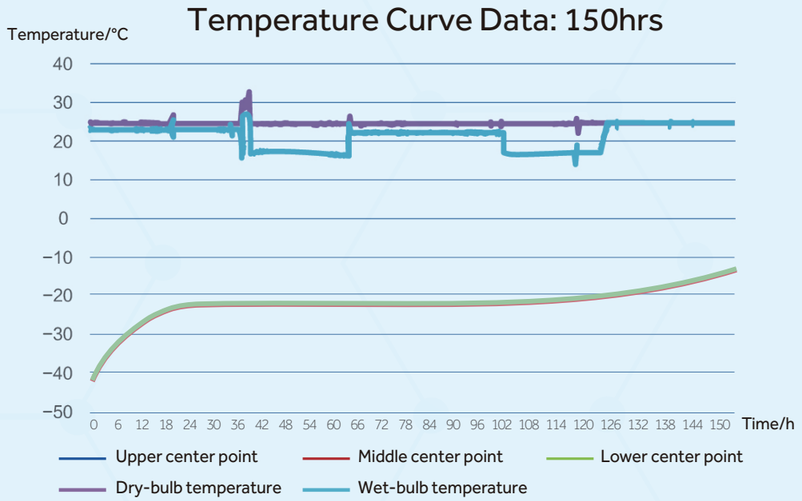
Intelligent IoT is optional, and the whole process can be traced

Equipped with built-in handle for easy handling

Six sided assembly structure is adopted for convenient maintenance

Six sided assembly structure is adopted for convenient maintenance

Temperature Curve



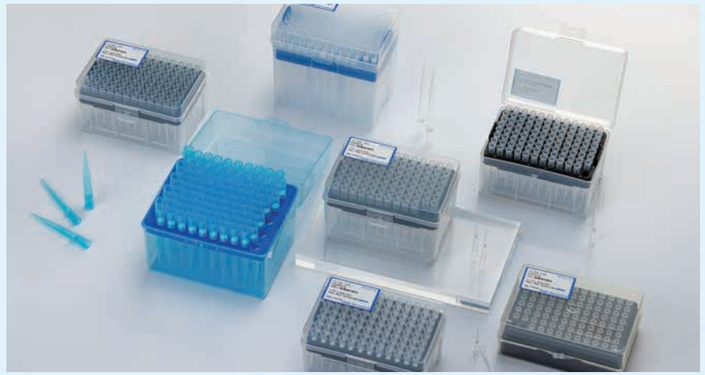
Specifications

Model	BW25-12B	BW25-36B	BW25-64B
Temperature Range (°C)	-25~-15/2-8/15-25	-25~-15/2-8/15-25	-25~-15/2-8/15-25
Exterior Dimensions (W*D*H mm)	410*345*355	515*450*460	590*525*525
Packing Dimensions (W*D*H mm)	504*436*444	609*541*549	679*611*619
Interior net Dimensions (W*D*H mm)	270*270*270	370*370*370	440*440*440
Payload Size (with ice pack) (mm)	230*230*230 (12L)	330*330*330 (36L)	400*400*400 (64L)
Net Weight (kg)	5.8	9.5	13
Gross Weight (kg)	7.8	12.5	16.8
Recorder Monitoring	Optional	Optional	Optional
Heat Insulating Material	Fiberglass VIP	Fiberglass VIP	Fiberglass VIP
Coolinng Way	Passive cooling		
Coolant Type	PCM		
Duration Time	48h	72h	72h

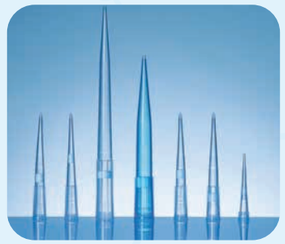
Haier Biomedical
Intelligent Protection of Life Science

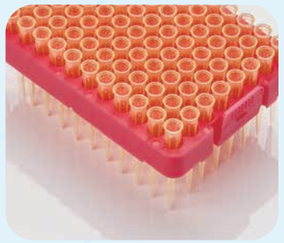
Consumables

Universal Pipette Tips



- Volume Selection: 10/20/50/100/200/300/1000/1250 μL
- Temperature Range: -80°C -121°C





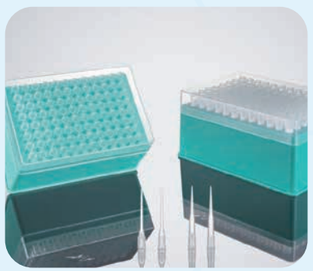
Product	CAT.NO.	Volume (μL)	Filter	Low-Retention	Sterile	Packing
10μl tips	122001	0.5-10				1000pcs/bag,20bags/case
	121002	0.5-10			√	96pcs/box,10boxes/inner box,50boxes/case
	122003	0.5-10		√		1000pcs/bag,20bags/case
	121004	0.5-10		√	√	96pcs/box,10boxes/inner box,50boxes/case
	112005	0.5-10	√			1000pcs/bag,10bags/case
	111006	0.5-10	√		√	96pcs/box,10boxes/inner box,50boxes/case
	111007	0.5-10	√	√	√	96pcs/box,10boxes/inner box,50boxes/case
20μl tips	112008	1-20	√			1000pcs/bag,10bags/case
	111009	1-20	√		√	96pcs/box,10boxes/inner box,50boxes/case
	111010	1-20	√	√	√	96pcs/box,10boxes/inner box,50boxes/case
50μl tips	112011	5-50	√			1000pcs/bag,10bags/case
	111012	5-50	√		√	96pcs/box,10boxes/inner box,50boxes/case
	111013	5-50	√		√	96pcs/box,10boxes/inner box,50boxes/case
	111014	5-50	√	√	√	96pcs/box,10boxes/inner box,50boxes/case
100μl tips	112015	10-100	√			1000pcs/bag,10bags/case
	111016	10-100	√		√	96pcs/box,10boxes/inner box,50boxes/case
	111017	10-100	√	√	√	96pcs/box,10boxes/inner box,50boxes/case
200μl tips	122018	10-200				1000pcs/bag,20bags/case
	121019	10-200			√	96pcs/box,10boxes/inner box,50boxes/case
	122020	10-200		√		1000pcs/bag,20bags/case
	121021	10-200		√	√	96pcs/box,10boxes/inner box,50boxes/case
	112022	10-200	√			1000pcs/bag,10bags/case
	111023	10-200	√		√	96pcs/box,10boxes/inner box,50boxes/case
	111024	10-200	√	√	√	96pcs/box,10boxes/inner box,50boxes/case
200μl tips with scale	122025	10-200				1000pcs/bag,20bags/case
	122026	10-200		√		1000pcs/bag,20bags/case
	111027	10-200			√	96pcs/box,10boxes/inner box,50boxes/case
	111028	10-200		√	√	96pcs/box,10boxes/inner box,50boxes/case
200μl extended tips (59mm)	122029	10-200				1000pcs/bag,20bags/case
	121030	10-200			√	96pcs/box,10boxes/inner box,50boxes/case
	111031	10-200	√		√	96pcs/box,10boxes/inner box,50boxes/case
	122032	10-200		√		1000pcs/bag,20bags/case
	111033	10-200	√	√	√	96pcs/box,10boxes/inner box,50boxes/case
200μl extended tips (78mm)	122034	10-200				1000pcs/bag,20bags/case
	111035	10-200	√		√	96pcs/box,10boxes/inner box,50boxes/case
	122036	10-200		√		1000pcs/bag,20bags/case
	111037	10-200	√	√	√	96pcs/box,10boxes/inner box,50boxes/case
300μl extended tips	122038	10-300				1000pcs/bag,5bags/case
	121039	10-300			√	96pcs/box,10boxes/inner box,50boxes/case
	122040	10-300		√		1000pcs/bag,5bags/case
	112041	10-300	√			1000pcs/bag,5bags/case
	111042	10-300	√		√	96pcs/box,10boxes/inner box,50boxes/case
	111043	10-300	√	√	√	96pcs/box,10boxes/inner box,50boxes/case
10μl extended tips	122044	0.5-10				1000pcs/bag,20bags/case
	121045	0.5-10			√	96pcs/box,10boxes/inner box,50boxes/case
	122046	0.5-10		√		1000pcs/bag,20bags/case
	121047	0.5-10		√	√	96pcs/box,10boxes/inner box,50boxes/case
	112048	0.5-10	√			1000pcs/bag,10bags/case
	111049	0.5-10	√		√	96pcs/box,10boxes/inner box,50boxes/case
	111050	0.5-10	√	√	√	96pcs/box,10boxes/inner box,50boxes/case

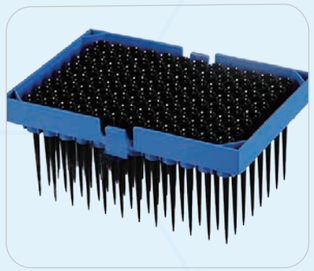
Pipette Tips

Product	CAT.NO.	Volume (μL)	Filter	Low-Retention	Sterile	Packing
1000μl tips	122051	100-1000				1000pcs/bag,5bags/case
	122052	100-1000				1000pcs/bag,5bags/case
	121053	100-1000			√	100pcs/box,10boxes/inner box,50boxes/case
	122054	100-1000		√		1000pcs/bag,5bags/case
	121055	100-1000		√		100pcs/box,10boxes/inner box,50boxes/case
	121056	100-1000		√	√	100pcs/box,10boxes/inner box,50boxes/case
	112057	100-1000	√			1000pcs/bag,5bags/case
	112058	100-1000	√			1000pcs/bag,5bags/case
	111059	100-1000	√		√	100pcs/box,10boxes/inner box,50boxes/case
	111060	100-1000	√	√	√	100pcs/box,10boxes/inner box,50boxes/case
1250μl tips	122061	100-1250				1000pcs/bag,5bags/case
	122062	100-1250				1000pcs/bag,5bags/case
	121063	100-1250			√	96pcs/box,10boxes/inner box,50boxes/case
	122064	100-1250		√		1000pcs/bag,5bags/case
	121065	100-1250		√	√	96pcs/box,10boxes/inner box,50boxes/case
	112066	100-1250	√			1000pcs/bag,5bags/case
	112067	100-1250	√			1000pcs/bag,5bags/case
	111068	100-1250	√		√	96pcs/box,10boxes/inner box,50boxes/case
	111069	100-1250	√		√	96pcs/box,10boxes/inner box,50boxes/case
	111070	100-1250	√	√	√	96pcs/box,10boxes/inner box,50boxes/case

Automation Tips

- Type: Non-Conductive / Conductive
- Temperature Range: -80°C -121°C





Pipette Tips

Product	CAT.NO.	Volume (μL)	Filter	Low-Retention	Sterile	Packing
Hamilton	521001	1000				96 pcs/box, 5 boxes/strip, 8 strips/case
	521002	1000	√			96 pcs/box, 5 boxes/strip, 8 strips/case
Agilent Bravo amd VPrep	121075	30			√	384pcs/box, 10boxes/inner box, 5boxes/case
	121076	30		√	√	384pcs/box, 10boxes/inner box, 5boxes/case
	111077	30	√		√	384pcs/box, 10boxes/inner box, 5boxes/case
	111078	30	√	√	√	384pcs/box, 10boxes/inner box, 5boxes/case
	121079	70			√	384pcs/box, 10boxes/inner box, 5boxes/case
	121080	70		√	√	384pcs/box, 10boxes/inner box, 5boxes/case
	111081	70	√		√	384pcs/box, 10boxes/inner box, 5boxes/case
	111082	70	√	√	√	384pcs/box, 10boxes/inner box, 5boxes/case
	121083	250		√		96pcs/box, 10boxes/inner box, 5boxes/case
	121084	250		√		96pcs/box, 10boxes/inner box, 5boxes/case
	121085	250			√	96pcs/box, 10boxes/inner box, 5boxes/case
	121086	250		√	√	96pcs/box, 10boxes/inner box, 5boxes/case
	111087	250	√		√	96pcs/box, 10boxes/inner box, 5boxes/case
	111088	250	√	√	√	96pcs/box, 10boxes/inner box, 5boxes/case
BECKMAN Tip, adapted to i5i7	121089	50				96pcs/box, 10boxes/inner box, 5boxes/case
	121090	50		√		96pcs/box, 10boxes/inner box, 5boxes/case
	121091	50			√	96pcs/box, 10boxes/inner box, 5boxes/case
	121092	50		√	√	96pcs/box, 10boxes/inner box, 5boxes/case
	111093	50	√		√	96pcs/box, 10boxes/inner box, 5boxes/case
	111094	50	√	√	√	96pcs/box, 10boxes/inner box, 5boxes/case
	121095	250				96pcs/box, 10boxes/inner box, 5boxes/case
	121096	250		√		96pcs/box, 10boxes/inner box, 5boxes/case
	121097	250			√	96pcs/box, 10boxes/inner box, 5boxes/case
	121098	250		√	√	96pcs/box, 10boxes/inner box, 5boxes/case
	111099	250	√		√	96pcs/box, 10boxes/inner box, 5boxes/case
	111100	250	√	√	√	96pcs/box, 10boxes/inner box, 5boxes/case

Product	CAT.NO.	Volume (μL)	Filter	Low-Retention	Sterile	Packing
Tecan LiHa, clear	121101	20				96pcs/box, 24boxes/case
	121102	20		√		96pcs/box, 24boxes/case
	121103	20			√	96pcs/box, 24boxes/case
	121104	20		√	√	96pcs/box, 24boxes/case
	111105	20	√		√	96pcs/box, 24boxes/case
	111106	20	√	√	√	96pcs/box, 24boxes/case
	121107	50				96pcs/box, 24boxes/case
	121108	50		√		96pcs/box, 24boxes/case
	121109	50			√	96pcs/box, 24boxes/case
	121110	50		√	√	96pcs/box, 24boxes/case
	111111	50	√		√	96pcs/box, 24boxes/case
	111112	50	√	√	√	96pcs/box, 24boxes/case
	121113	200				96pcs/box, 24boxes/case
	121114	200		√		96pcs/box, 24boxes/case
	121115	200			√	96pcs/box, 24boxes/case
	121116	200		√	√	96pcs/box, 24boxes/case
	111117	200	√		√	96pcs/box, 24boxes/case
	111118	200	√	√	√	96pcs/box, 24boxes/case
	121119	1000				96pcs/box, 16boxes/case
	121120	1000		√		96pcs/box, 16boxes/case
	121121	1000			√	96pcs/box, 16boxes/case
	121122	1000		√	√	96pcs/box, 16boxes/case
	111123	1000	√		√	96pcs/box, 16boxes/case
	111124	1000	√	√	√	96pcs/box, 16boxes/case
Tecan LiHa, conductive, for Genesis Freedom, Freedom Evo	121125	20		√		96pcs/box, 24boxes/case
	121126	20		√		96pcs/box, 24boxes/case
	121127	20			√	96pcs/box, 24boxes/case
	121128	20		√	√	96pcs/box, 24boxes/case

Pipette Tips

Product	CAT.NO.	Volume (μL)	Filter	Low-Retention	Sterile	Packing
Tecan LiHa, conductive, for Genesis Freedom, Freedom Evo	111129	20	√		√	96pcs/box, 24boxes/case
	111130	20	√	√	√	96pcs/box, 24boxes/case
	121131	50				96pcs/box, 24boxes/case
	121132	50		√		96pcs/box, 24boxes/case
	121133	50			√	96pcs/box, 24boxes/case
	121134	50		√	√	96pcs/box, 24boxes/case
	111135	50	√		√	96pcs/box, 24boxes/case
	111136	50	√	√	√	96pcs/box, 24boxes/case
	121137	200				96pcs/box, 24boxes/case
	121138	200		√		96pcs/box, 24boxes/case
	121139	200			√	96pcs/box, 24boxes/case
	121140	200		√	√	96pcs/box, 24boxes/case
	111141	200	√		√	96pcs/box, 24boxes/case
	111142	200	√	√	√	96pcs/box, 24boxes/case
	121143	1000				96pcs/box, 16boxes/case
	121144	1000		√		96pcs/box, 16boxes/case
	121145	1000			√	96pcs/box, 16boxes/case
	121146	1000		√	√	96pcs/box, 16boxes/case
	111147	1000	√		√	96pcs/box, 16boxes/case
	111148	1000	√	√	√	96pcs/box, 16boxes/case
Tecan LiHa , clear,SBS	121149	20				96pcs/box, 24boxes/case
	121150	20		√		96pcs/box, 24boxes/case
	121151	20			√	96pcs/box, 24boxes/case
	121152	20		√	√	96pcs/box, 24boxes/case
	111153	20	√		√	96pcs/box, 24boxes/case
	111154	20	√	√	√	96pcs/box, 24boxes/case
	121155	50				96pcs/box, 24boxes/case
	121156	50		√		96pcs/box, 24boxes/case
	121157	50			√	96pcs/box, 24boxes/case
	121158	50		√	√	96pcs/box, 24boxes/case
	111159	50	√		√	96pcs/box, 24boxes/case
	111160	50	√	√	√	96pcs/box, 24boxes/case
	121161	200				96pcs/box, 24boxes/case
	121162	200		√		96pcs/box, 24boxes/case
	121163	200			√	96pcs/box, 24boxes/case
	121164	200		√	√	96pcs/box, 24boxes/case
	111165	200	√		√	96pcs/box, 24boxes/case

Product	CAT.NO.	Volume (μL)	Filter	Low-Retention	Sterile	Packing
Tecan LiHa , clear,SBS	111166	200	√	√	√	96pcs/box, 24boxes/case
	121167	1000				96pcs/box, 16boxes/case
	121168	1000		√		96pcs/box, 16boxes/case
	121169	1000			√	96pcs/box, 16boxes/case
	121170	1000		√	√	96pcs/box, 16boxes/case
	111171	1000	√		√	96pcs/box, 16boxes/case
	111172	1000	√	√	√	96pcs/box, 16boxes/case
Tecan LiHa , conductive, SBS	121173	20				96pcs/box, 24boxes/case
	121174	20		√		96pcs/box, 24boxes/case
	121175	20			√	96pcs/box, 24boxes/case
	121176	20		√	√	96pcs/box, 24boxes/case
	111177	20	√		√	96pcs/box, 24boxes/case
	111178	20	√	√	√	96pcs/box, 24boxes/case
	121179	50				96pcs/box, 24boxes/case
	121180	50		√		96pcs/box, 24boxes/case
	121181	50			√	96pcs/box, 24boxes/case
	121182	50		√	√	96pcs/box, 24boxes/case
	111183	50	√		√	96pcs/box, 24boxes/case
	111184	50	√	√	√	96pcs/box, 24boxes/case
	121185	200				96pcs/box, 24boxes/case
	121186	200		√		96pcs/box, 24boxes/case
	121187	200			√	96pcs/box, 24boxes/case
	121188	200		√	√	96pcs/box, 24boxes/case
	111189	200	√		√	96pcs/box, 24boxes/case
	111190	200	√	√	√	96pcs/box, 24boxes/case
	121191	1000				96pcs/box, 16boxes/case
	121192	1000		√		96pcs/box, 16boxes/case
	121193	1000			√	96pcs/box, 16boxes/case
	121194	1000		√	√	96pcs/box, 16boxes/case
	111195	1000	√		√	96pcs/box, 16boxes/case
	111196	1000	√	√	√	96pcs/box, 16boxes/case
	121197	5000				96pcs/box, 16boxes/case
	121198	5000		√		96pcs/box, 16boxes/case
	121199	5000			√	96pcs/box, 16boxes/case
	121200	5000		√	√	96pcs/box, 16boxes/case
	111201	5000	√		√	96pcs/box, 16boxes/case
	111202	5000	√	√	√	96pcs/box, 16boxes/case

Serological Pipette

Serological Pipette

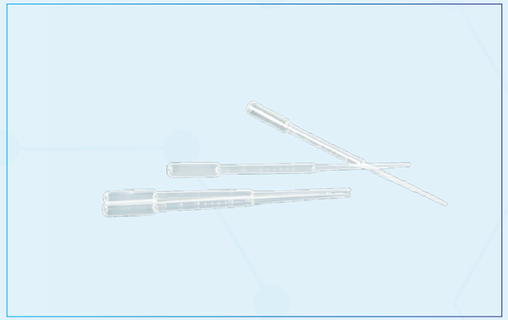
- Volume Selection: 1/2/5/10/25/50/100 mL
- Serological Pipette is mainly used for accurately measuring or transferring a certain volume of liquid, and widely used in fields such as cell culture, bacteriology, clinical practice, and scientific research experiments.

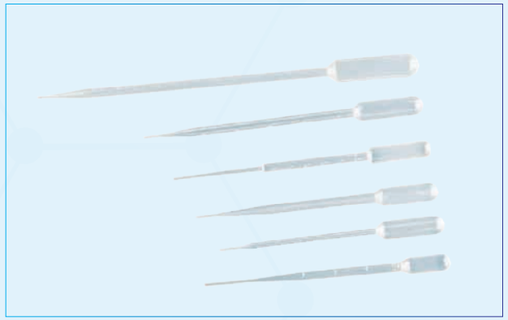
CAT.NO.	Volume (mL)	Scale	Color Ring	Type	Packing
692209	1	1/100mL		Paper-Plastic	100pcs/bag,10bags/case
692210	2	1/50mL		Paper-Plastic	100pcs/bag,10bags/case
692211	5	1/10mL		Paper-Plastic	50pcs/bag,4bags/case
692212	10	1/10mL		Paper-Plastic	50pcs/bag, 4bags/case
692213	25	2/10mL		Paper-Plastic	25pcs/bag, 10bags/case
692214	50	1/2mL		Paper-Plastic	25pcs/bag, 4bags/case
692215	100	1mL		Paper-Plastic	20pcs/bag, 6bags/case

Compatible with all kinds of pipettes, suitable for measuring a certain volume of liquid and vacuum suction.

Pasteur Pipette

Pasteur pipette





CAT.NO.	Volume (mL)	Lengths	Package Type	Sterile	Packing
603008	1	145 mm	Individually Packaged	√	250pcs/bag,4 bags/case
603009	2	150 mm	Individually Packaged	√	250pcs/bag,4 bags/case
603010	3	162 mm	Individually Packaged	√	250pcs/bag,4 bags/case
603011	3	183mm	Individually Packaged	√	200pcs/bag,3 bags/case
603012	3	183mm	Bulk		200pcs/bag,3 bags/case
603013	1	162 mm	Bulk		100pcs/bag,50bags/ case
603014	2	162 mm	Bulk		100pcs/bag,50bags/ case
603015	3	162 mm	Bulk		100pcs/bag,50bags/ case
603016	3	195 mm	Bulk		100pcs/bag,45bags/ case
603017	5	210 mm	Bulk		100pcs/bag,25bags/ case
603018	10	285 mm	Bulk		100pcs/bag,12bags/ case

Centrifuge Tube

- Cap: HDPE, Tube: PP
- Temperature Range: -80°C -121°C

CAT.NO.	Volume (mL)	Color	RCF	Sterile	Packing
311005	15	Blue Cap	16000xg	√	25 pcs/bag, 20 bags/ case
311006	50	Blue Cap	16000xg	√	25 pcs/bag, 20 bags/ case

Microcentrifuge Tube

- Holding samples, mixing reagents. Low temperature storage of antibodies, nucleic acids, etc. Sample preparation during the experiment. Centrifuge separation and precipitation of trace samples.
- Temperature Range: -80°C -121°C

CAT.NO.	Volume (mL)	Material	RCF	Color	Sterile	Packing
311001	0.6	PP	20000xg	Clear	×	1000 pcs/box, 10 boxes/ case
311002	1.5	PP	20000xg	Clear	×	500 pcs/box, 10 boxes/ case
311004	2.0	PP	20000xg	Clear	×	500 pcs/box, 10 boxes/ case

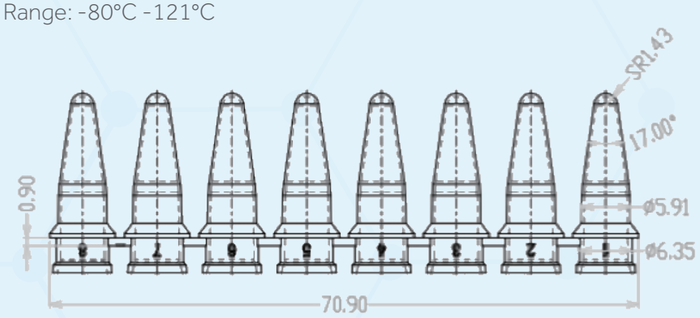
Centrifuge Bottle

- Volume Selection: 225/250/500 mL
- Temperature Range: -80°C -121°C

CAT.NO.	Volume (mL)	Type	Material	RCF	Sterile	Packing
321007	225	Conical bottom	Tube: PP;Cap: HDPE	6000xg	√	6 pcs/bag, 6 bags/ case
321008	250	Conical bottom	Tube: PP;Cap: HDPE	6000xg	√	6 pcs/bag, 17 bags/ case
321009	500	Conical bottom	Tube: PP;Cap: HDPE	6000xg	√	6 pcs/bag, 6 bags/ case
321010	500	Flat bottom	PP	8000xg	×	6 pcs/bag, 10 bags/ case

PCR Tube

- Volume Selection: 100/200 µL
- Temperature Range: -80°C -121°C

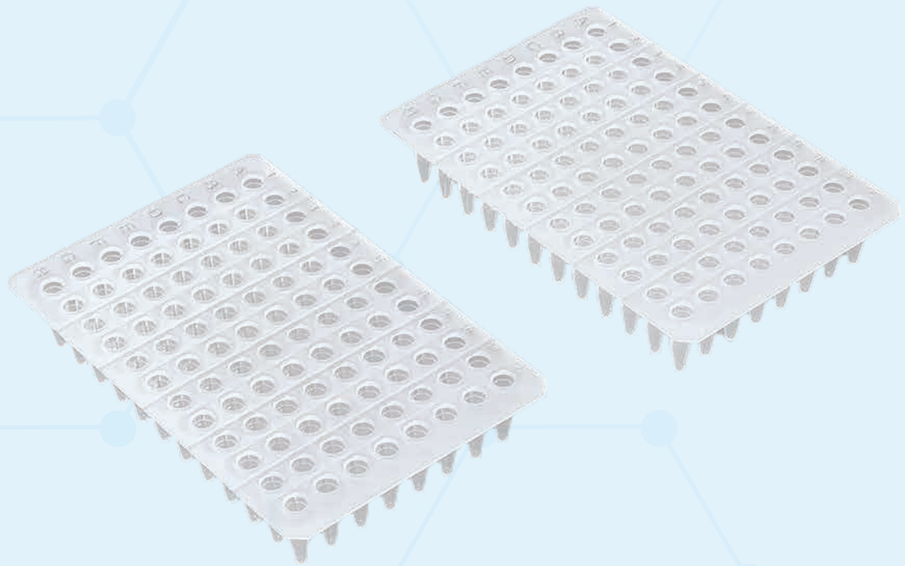


Product	CAT.NO.	Volume (mL)	Color	Product Description	Packing
PCR tubes	211001	0.2	Clear	single tube, thin-wall, flat cap	500pcs/bag, 2 bags/box, 10 boxes/case
PCR 8-strip tubes	222002	0.1	Clear	8-strip tube,flat cap	125 sets/bag, 10 bags/case
	222003	0.1	White	8-strip tube,flat cap	125 sets/bag, 10 bags/case
	292004	0.1	Clear	8-strip tube--type B,flat cap	125 sets/bag, 10 bags/case
	292005	0.1	White	8-strip tube--type B,flat cap	125 sets/bag, 10 bags/case
	292006	0.2	Clear	8-strip tube--type B,flat cap	125 sets/bag, 10 bags/case
	292007	0.2	White	8-strip tube--type B,flat cap	125 sets/bag, 10 bags/case
	222008	0.2	Clear	8-strip tube, flat cap	125 sets/bag, 10 bags/case
	272009	0.2	Clear	8-strip tube,convex cap	125 sets/bag, 10 bags/case

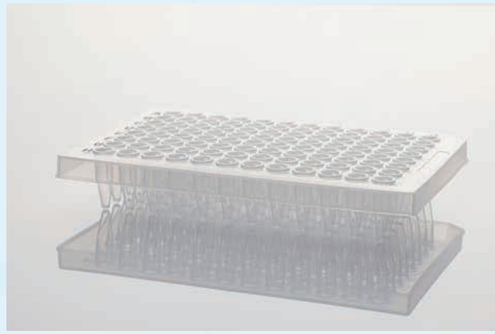
PCR Plate

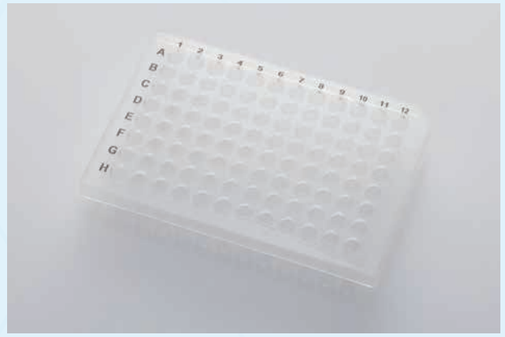
The PCR series products(Polymerase Chain Reaction, PCR) are mainly used as primers, Taq DNA polymerase, dNTP, template nucleic acid, Mg, buffer, and other carriers involved ,They are widely used in genetics, biochemistry, immunity, medicine, and other fields. They are not only used in basic research such as gene isolation, cloning, and nucleic acid sequence analysis, but also in disease diagnosis or anywhere with DNAor RNA.

PCR are used in batch samples to meet different user needs and have wide applicability, making them suitable for different autom ation applications.



PCR Series





CAT.NO.	Volume (mL)	Type	Color	Sterile	Packing
232024	0.2	No Skirt	Clear	×	10pcs/box, 5boxes/case
242025	0.2	Half Skirt	Clear	×	10pcs/box, 5boxes/case
242026	0.2	Half Skirt,Anti-static	Clear	×	10pcs/box, 5boxes/case
232029	0.1	No Skirt	Clear	×	10pcs/box, 5boxes/case
242030	0.1	Half Skirt	Clear	×	10pcs/box, 5boxes/case
242031	0.1	Half Skirt,Anti-static	Clear	×	10pcs/box, 5boxes/case
252032	0.1	Full Skirt	Clear	×	10pcs/box, 5boxes/case
252035	0.1	Full Skirt,H1	Clear+White	×	10pcs/box, 5boxes/case
252033	0.1	Full Skirt,Anti-static	Clear	×	10pcs/box, 5boxes/case

PCR Plate Seals

Product	CAT.NO.	Dimension	Temperature Range	Packing
	202034	140mm*80mm	-20℃~120℃	100pcs/box

Cell Culture Dish

Cell Culture Dish is a small shallow transparent culture vessel with a lid, mainly used for the culture of microorganisms and cells in biological experiments, consists of a flat disk-shaped bottom and a lid.

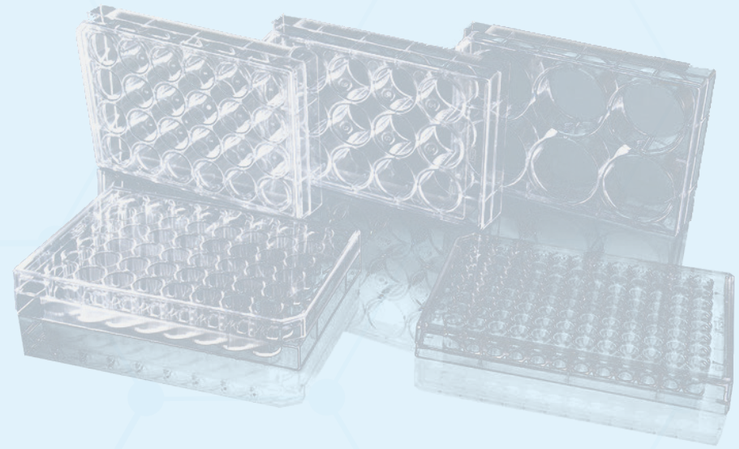
It is mostly made of polyethylene materials, suitable for inoculation, scribing, separating bacteria and other operations, and are mostly used for the monolayer culture of plant cells and animal cells after TC treatment.

CAT.NO.	Specifications	Cultivated Area	Type	TC Treatment	Sterile	Packing
622011	60mm	21cm²	With easy grip	√	√	10pcs/bag,50bags/case
622125	60mm	21cm²		√	√	10pcs/bag,50bags/case
622012	100mm	55cm²	With easy grip	√	√	10pcs/bag,30bags/case
622127	100mm	55cm²		√	√	10pcs/bag,30bags/case
622013	150mm	148cm²		√	√	5pcs/bag,20bags/case
621014	60mm	21cm²	With easy grip		√	10pcs/bag,50bags/case
622126	60mm	21cm²			√	10pcs/bag,50bags/case
621015	100mm	55cm²	With easy grip		√	10pcs/bag,30bags/case
622128	100mm	55cm²			√	10pcs/bag,30bags/case
621016	150mm	148cm²			√	5pcs/bag,20bags/case

Cell Culture Plate

Cell culture plates are indispensable cell culture consumables for cell culture, cell transfection, immunofluorescence, clone formation and other experiments.

6 wells, 12 wells, 24 wells, and 48 wells are mainly used for immunofluorescence, scratch, HE staining, and cell transfection, while 96 wells are mainly used for MTT, CCK8, Elisa, and BCA,384 wells are mainly used for high-throughput screening.



CAT.NO.	Specifications	Type	TC Treatment	Sterile	Packing
612001	96-well	Flat Bottom	√	√	1pcs/bag, 100bags/case
612002	48-well	Flat Bottom	√	√	1pcs/bag, 100bags/case
612003	24-well	Flat Bottom	√	√	1pcs/bag, 100bags/case
612004	12-well	Flat Bottom	√	√	1pcs/bag, 100bags/case
612005	6-well	Flat Bottom	√	√	1pcs/bag, 50bags/case
611006	96-well	Flat Bottom		√	1pcs/bag, 100bags/case
611007	48-well	Flat Bottom		√	1pcs/bag, 100bags/case
611008	24-well	Flat Bottom		√	1pcs/bag, 100bags/case
611009	12-well	Flat Bottom		√	1pcs/bag, 100bags/case
611010	6-well	Flat Bottom		√	1pcs/bag, 50bags/case

Cell Culture Flask

Cell culture flask are the most suitable culture vessels for long time cell culture and large amount of cell expansion. With smaller mouth, the flasks are not easy to be contaminated by the cells, which can be conveniently and safely handled to ensure that the ex_x0002_perimental process is carried out.

Vented Cap	CAT.NO.	Specifications	TC Treatment	Sterile	Packing
	634018	25cm²	√	√	10pcs/bag,20bags/case
	634020	75cm²	√	√	5pcs/bag,20bags/case
	634022	175cm²	√	√	5pcsbag,8bags/case
	634024	225cm²	√	√	5pcs/bag,5bags/case
	632026	25cm²		√	10pcs/bag,20bags/case
	632028	75cm²		√	5pcs/bag,20bags/case
	632030	175cm²		√	5pcs/bag,8bags/case
	632032	225cm²		√	5pcs/bag,5bags/case

Sealed Cap	CAT.NO.	Specifications	TC Treatment	Sterile	Packing
	633017	25cm²	√	√	10pcs/bag,20bags/case
	633019	75cm²	√	√	5pcs/bag,20bags/case
	633021	175cm²	√	√	5pcsbag,8bags/case
	633023	225cm²	√	√	5pcs/bag,5bags/case
	631025	25cm²		√	10pcs/bag,20bags/case
	631027	75cm²		√	5pcs/bag,20bags/case
	631029	175cm²		√	5pcs/bag,8bags/case
	631031	225cm²		√	5pcs/bag,5bags/case

Erlenmeyer Flask

Erlenmeyer flasks are commonly used in cell culture, suitable for industrial microbial strain screening, large-scale fermentation experi_x0002_ments, suspension cells and bacteria large-scale expansion culture, is the ideal choice for the culture of suspended cells and strains, in addition, it can also be used for medium preparation, storage and liquid transfer, etc., and can be used in conjunction with large capacity culture shaker.

Plain Type	CAT.NO.	Specifications	Cap	Material	Sterile	Packing
	643057	125	Sealed Cap	PC	√	1pcs/bag,24bags/case
	644061		Vented Cap	PC	√	1pcs/bag,24bags/case
	643058	250	Sealed Cap	PC	√	1pcs/bag,12bags/case
	644062		Vented Cap	PC	√	1pcs/bag,12bags/case
	643059	500	Sealed Cap	PC	√	1pcs/bag,12bags/case
	644063		Vented Cap	PC	√	1pcs/bag,12bags/case
	643060	1000	Sealed Cap	PC	√	1pcs/bag,6bags/case
	644064		Vented Cap	PC	√	1pcs/bag,6bags/case

Baffled Type	CAT.NO.	Specifications	Cap	Material	Sterile	Packing
	645065	125	Sealed Cap	PC	√	1pcs/bag,24bags/case
	646069		Vented Cap	PC	√	1pcs/bag,24bags/case
	645066	250	Sealed Cap	PC	√	1pcs/bag,12bags/case
	646070		Vented Cap	PC	√	1pcs/bag,12bags/case
	645067	500	Sealed Cap	PC	√	1pcs/bag,12bags/case
	646071		Vented Cap	PC	√	1pcs/bag,12bags/case
	645068	1000	Sealed Cap	PC	√	1pcs/bag,6bags/case
	646072		Vented Cap	PC	√	1pcs/bag,6bags/case

Square Serum Bottles

- 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.
- 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.	Volume (mL)	Material	Color	Sterile	Packing
751001	30	Cap:PP & HDPE, Bottle:PET	Natural	√	40 pcs/ bag,7 bags/ case
751002	60	Cap:PP & HDPE, Bottle:PET	Natural	√	40 pcs/ bag,5 bags/ case
751003	125	Cap:PP & HDPE, Bottle:PET	Natural	√	24 pcs/ bag,4 bags/ case
751004	250	Cap:PP & HDPE, Bottle:PET	Natural	√	30 pcs/ bag,2 bags/ case
751005	500	Cap:PP & HDPE, Bottle:PET	Natural	√	20 pcs/ bag,2 bags/ case
751006	1000	Cap:PP & HDPE, Bottle:PET	Natural	√	12 pcs/ bag,2 bags/ case

Syringe Filter

- Made of high quality polycarbonate material, high cleanliness, avoid contamination.
- The surface filter membrane and imported shell material ensure the stability and safety of raw materials.
- The expansion of the filter membrane area increases the flow rate and filtration amount during the filtration operation, and improves the filtration efficiency.
- Each filter is individually packaged for ease of use.
- No pyrogen, no endotoxin, no DNase/RNase.

CAT.NO.	Diameter	Membrane Material	Pore Size	Sterile	Packing
1001301	30 mm	PVDF	0.22 μm	√	100pcs/case
1001302	30 mm	PES	0.22μm	√	100pcs/case

Vacuum Filter

- The filter cup and liquid storage bottle are made of polystyrene(PS)with high transparency and comply with USP VI standards.
- Selection of imported high-quality membrane materials, strong bacterial retention ability, bactericidal filtration efficiency: LRV>7.
- A variety of membrane materials, a variety of specifications (500 mL, 1000 mL), to meet different experimental needs.
- The filter cup has high flow rate and large flux, which can shorten the filtration time and improve the filtration efficiency.
- The connection between the filter cup, membrane, filter nozzle, liquid storage bottle and the filter has high firmness and tightness.
- DNase and RNase free, No pyrogen, no endotoxin.

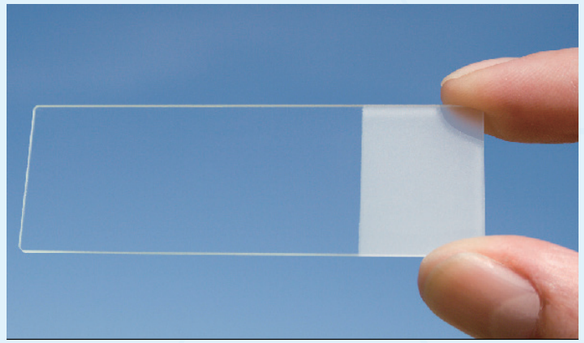
Others

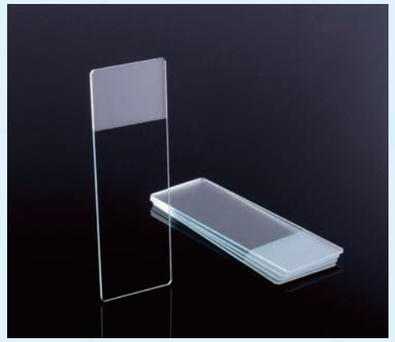
Complete	CAT.NO.	Volume (mL)	Membrane Material	Pore Size	Sterile	Packing
	1002501	500	PES	0.22 μm	√	1pcs/bag, 12 bags/case
	1002502		PES	0.45 μm	√	1pcs/bag, 12 bags/case
	1002503		PVDF	0.22 μm	√	1pcs/bag, 12 bags/case
	1002504		PVDF	0.45 μm	√	1pcs/bag, 12 bags/case
	1002511	1000	PES	0.22 μm	√	1pcs/bag, 12 bags/case
	1002510		PES	0.45 μm	√	1pcs/bag, 12 bags/case
	1002513		PVDF	0.22 μm	√	1pcs/bag, 12 bags/case
	1002512		PVDF	0.45 μm	√	1pcs/bag, 12 bags/case

Upper cup	CAT.NO.	Volume (mL)	Membrane Material	Pore Size	Sterile	Packing
	1002506	500	PES	0.22 μm	√	1pcs/bag, 24 bags/case
	1002507		PES	0.45 μm	√	1pcs/bag, 24 bags/case
	1002508		PVDF	0.22 μm	√	1pcs/bag, 24 bags/case
	1002509		PVDF	0.45 μm	√	1pcs/bag, 24 bags/case
	1002515	1000	PES	0.22 μm	√	1pcs/bag, 24 bags/case
	1002516		PES	0.45 μm	√	1pcs/bag, 24 bags/case
	1002517		PVDF	0.22 μm	√	1pcs/bag, 24 bags/case
	1002518		PVDF	0.45 μm	√	1pcs/bag, 24 bags/case

Receiver bottle	CAT.NO.	Volume (mL)	Membrane Material	Pore Size	Sterile	Packing
	1002505	500	/	/	√	1pcs/bag, 24 bags/case
	1002514	1000	/	/	√	1pcs/bag, 12 bags/case

Slide





- Pathological grade slide, high quality glass material.
- Use advanced cutting and grinding technology to achieve perfect cutting with precise dimensions and precise edging chamfer.
- Precision screen printing technology, easy to write marks.
- Advanced cleaning technology to ensure ultra-clean surface, no pollution, ready-to-use.
- The imaging is clear, and a variety of biological materials can be observed under the microscope.

	CAT.NO.	Dimensions	Thickness	Packing
Microscope Coverslip	911001	20*20mm	0.13-0.16mm	200pcs/box, 120 boxes/ case
	911002	24*32mm	0.13-0.16mm	100pcs/box, 120 boxes/ case
	911003	24*50mm	0.13-0.16mm	100 pcs/box, 120 boxes/ case

	CAT.NO.	Product Description	Packing
Microscope Slides	912001	Single frosted, ground edges 45°corners, non-clamp,float glass,moisture-proof packaging	50 pcs/box, 50 boxes/ case
	912002	Single-sided white coating,ground edges 45°corners, non-clamp,float glass,moisture-proof packaging	50 pcs/box, 50 boxes/ case
	913001	Positively charged surface, ground edges 45°corners, single-sided white coating,with two "+" symbols	50pcs/box,40boxes/case

Paraffin Film

The flexible sealing film described is versatile proprietary blend of waxes and polyolefin' s on a paper release liner, the product is suitable for various applications across different industries.

It is highly insensitive to water, moisture loss and moisture absorption, yet is permeable to oxygen and carbon dioxide. Haier Biomedical stretches more than 350% of its original length and is self sealing, allowing it to cling around irregular shapes and surfaces. These unique properties make it ideal for protecting the contents of test tubes, flasks, beakers, and Petri dishes as well as an overwrap to further secure stoppers, lids and caps.

CAT.NO.	Description (D*W*L)	Case Qty	Packing
914001	125μm*3cm*15m	96	4pcs/box, 24boxes/case
914002	125μm*10cm*38m	12	1pcs/box, 12boxes/case
914003	125μm*50cm*15m	4	1pcs/box, 4boxes/case
914004	125μm*3cm*15m	4	4pcs/box
914005	125μm*10cm*38m	1	1pcs/box
914006	125μm*50cm*15m	1	1pcs/box

Haier Biomedical
Intelligent Protection of Life Science

PHARMACY REFRIGERATORS

Chromatography 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

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 easy movement and positioning

Heated double-layer tempered glass door featuring self closing hinges and magnetic gasket seals

Hydrocarbon refrigerant (R290) and CFC -free polyurethane insulation

Multiple alarm functions with audible and visual alerts

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

Energy-efficient interior LED lighting provides bright low heat lighting

Specifications

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, 90g
	GWP(global warming potential)		3
	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)	51.8*22.4*60.0
	Exterior Dimension (W*D*H)	(mm)	1420*630*1980
		(in)	55.9*24.8*78.0
	Packing Dimension (W*D*H)	(mm)	1550*875*2100
		(in)	61.0*34.5*82.7
	Container Load (20'/40'/40'H)		7/15/15
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 L&R on each side
	Clamp Fit		2 Sets
	Shelves/Drawers		1 Supporting Frame + 2 Adjustable Shleves
	Printer		Optional
	Chart Recorder		Optional
	USB Interface		Yes
	RS485		Optional
Others	Certification		CE

Haier Biomedical
Intelligent Protection of Life Science

PHARMACY REFRIGERATORS

Pharmacy Refrigerators

New Generation Pharmacy Refrigerator

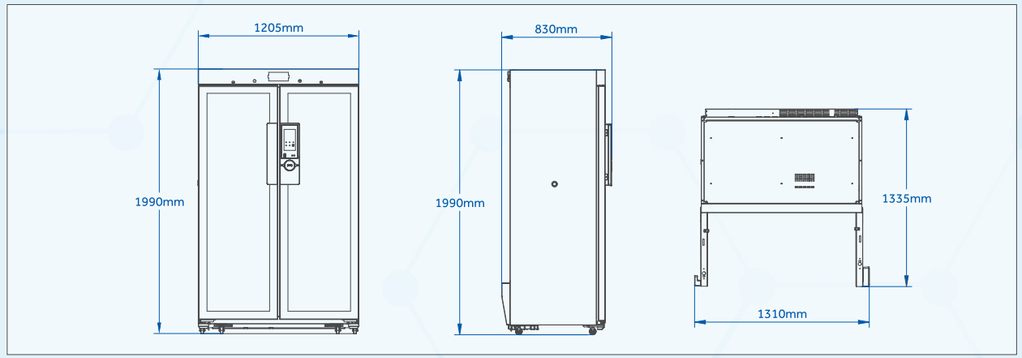
Used for storage of medicines, vaccines, reagents, biological products and other items that require a temperature between 2-8°C in hospitals, pharmacies, pharmaceutical factories, clinics and laboratories as key examples.

Product Advantages

- High performance with low noise level： 37dB(A)
- Low energy consumption 2.2kWh /day
- 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
- 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

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



Follow the QR code and learn more about the
Pharmacy Refrigerator HYC-1030GT from Haier Biomedical

HYC-1030GT

Specifications

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

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.

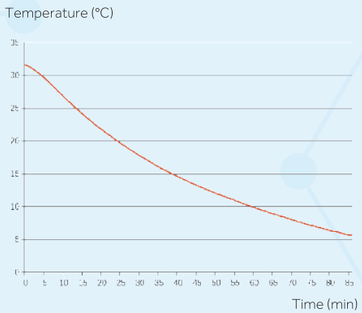
HYC-1031GD/FD

Innovative Design

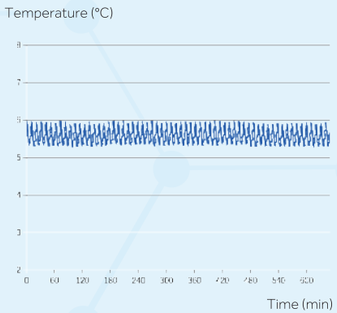
- High performance with low noise level
- Eco-friendly and energy saving
- Condensation free even at ambient 32°C & 80% RH
- Convenient monitoring and data export

Cabinet Temperature

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



HYC-1031GD
Stability (ambient 25°C)



HYC-1031GD

New Generation Pharmacy Refrigerator

Product Features

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

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

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

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

HYC-1031GD:
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
HYC-1031FD:
Self-closing door hinge; Magnectic gaskets to ensure a positive seal

Convenient security with a top-mounted unique-key lock

4 swivel casters with 2 leveling feet for easily movement and fixing

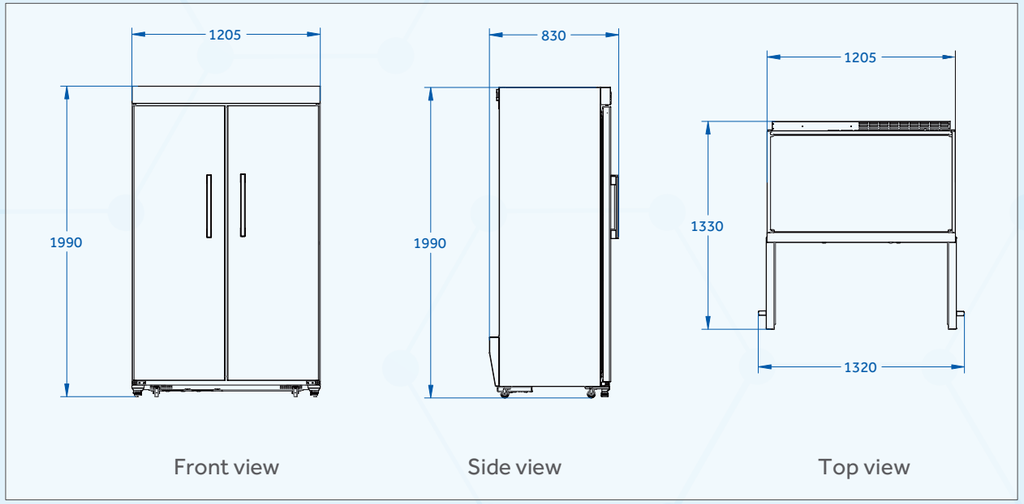
Energy efficient interior LED lighting, side-mounted to enlighten full space

Digital controller with 0.1° C resolution with easy to check min/max temperature in the past 24 hours

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

Adjustable plastic-coated wire shelves for improved circulation and flexible storage

Product Dimension



Specifications

Model			HYC-1031GD		HYC-1031FD
Technical Data	Cabinet Type		Upright, Glass Door		Upright, Solid Door
	Climate Class		N, 16-32°C		N, 16-32°C
	Cooling Type		Forced Air Cooling		Forced Air Cooling
	Defrost Mode		Auto		Auto
	Refrigerant		R290		R290
	GWP (global warming potential)		3		3
	Sound Level (dB(A))		39		39
Performance	Temperature Range (°C)		2~8		2~8
Control	Controller		Microprocessor		Microprocessor
	Display		LED		LED
Electrical Data	Power Supply (V/Hz)		220~240/50/60	115V/60	220~240/50/60
	Electrical Current (A)		2.2	3.6	2.2
Performance Characteristics	Temperature Sensor		NTC		NTC
	Power Consumption (kWh/24h)		2.48	2.04	2.48
Dimensions	Capacity (L/Cu.Ft)		1031/36.4		1031 / 36.4
	Net/Gross Weight (approx)	(kg)	255/265		255/265
		(lbs)	562/584		562/584
	Interior Dimensions (W*D*H)	(mm)	1115*590*1670		1115*590*1670
		(in)	43.9*23.2*65.7		43.9*23.2*65.7
	Exterior Dimensions (W*D*H)	(mm)	1205*800*1990		1205*830*1990
		(in)	47.4*31.5*78.3		47.4*32.7*78.3
	Packing Dimensions (W*D*H)	(mm)	1310*925*2150		1310*925*2150
		(in)	51.6*36.4*84.6		51.6*36.4*84.6
	Container Load (20'/40'/40'H)		10/21/21		10/21/21
Alarms	High/Low Temperature		Y		Y
	High Ambient Temperature		Y		Y
	Door Ajar		Y		Y
	Power Failure		Y		Y
	Low Battery		Y		Y
	Sensor Error		Y		Y
	Communication Failure		Y		Y
	Condenser Heat		Y		Y
	Remote Alarm		Y		Y
	Audible and Visual Alarm		Y		Y
Accessories	Caster		4		4
	Foot		2		2
	Porthole		2		2
	Shelves/Drawers		14/-		14/-
	Printer		Optional		Optional
	Chart Recorder		N/A		N/A
	USB Interface		Optional		Optional
	RS485		Optional		Optional
	Electromagnetric Lock		N/A		N/A
	Plastic Basket		Optional		Optional
Material	Exterior Material		Painted Steel		Painted Steel
	Interior Material		Painted Steel		Painted Steel
	Door Thickness (mm)		50		50
	Cabinet Thickness (mm)		45		45
	Shelves Material		Steel Wire, Coated with Plastic		Steel Wire, Coated with Plastic
	No. of Shelves		12+2		12+2
Others	Certification		CE, DIN13277 (Optional)	UL, Energy Star	CE, DIN13277 (Optional)

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-461GD/FD

Product Advantages

Eco-friendly hydrocarbon refrigerant (R600a) and CFC- free polyurethane insulation for reduced global warming potential

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

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

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

Adjustable plastic-coated wire shelves for improved circulation and flexible storage

HYC-461GD:
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
HYC-461FD:
Self-closing door hinge; Magnectic gaskets to ensure a positive seal

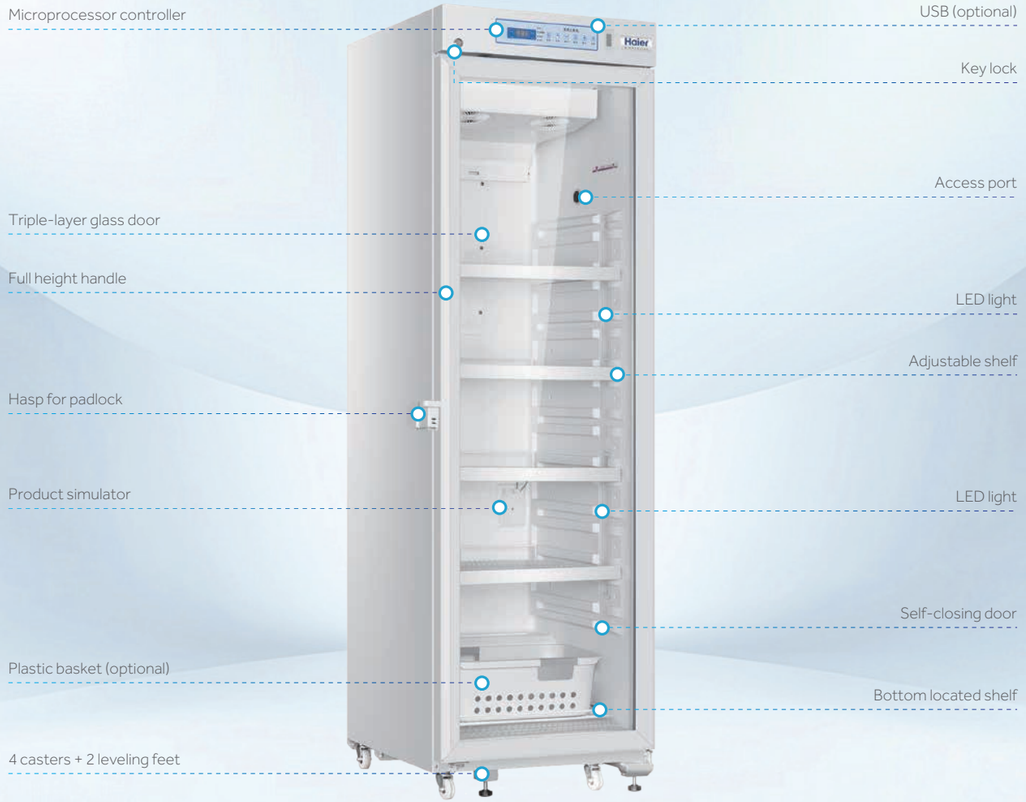
Energy efficient interior LED lighting, side-mounted to enlighten full space

Aφ25mm probe access port is standard on side wall to accept user-provided monitoring equipment

4 swivel casters with 2 leveling feet for easy movement and fixing

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

NEW



HYC-461GD

New Generation Pharmacy Refrigerator

Specifications

Model			HYC-461GD	HYC-461GD (115V)	HYC-461FD	HYC-461FD (115V)
Technical Data	Cabinet Type		Upright, Glass Door	Upright, Glass Door	Upright, Solid Door	Upright, Solid Door
	Climate Class		N, 16~32°C	N, 16~32°C	N, 16~32°C	N, 16~32°C
	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
	GWP (global warming potential)		20	20	20	20
	Sound Level (dB(A))		37	37	37	37
Performance	Temperature Range (°C)		2~8	2~8	2~8	2~8
Control	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
	Power(W)		310	230	310	230
	Electrical Current (A)		1.7	3.1	1.7	3.1
Performance Characteristics	Temperature Sensor		NTC	NTC	NTC	NTC
	Power Consumption (kWh/24h)		1.85	1.33	1.85	1.33
Dimensions	Capacity (L/Cu.Ft)		461/16.3	461/16.3	461 / 16.3	461 / 16.3
	Net/Gross Weight (approx)	kg	115/125	115/125	115/125	115/125
		lbs	254/276	254/276	254/276	254/276
	Interior Dimensions (W*D*H)	mm	500*590*1670	500*590*1670	500*590*1670	500*590*1670
		in	19.7*23.2*65.7	19.7*23.2*65.7	19.7*23.2*65.7	19.7*23.2*65.7
	Exterior Dimensions (W*D*H)	mm	595*800*1990	595*800*1990	595*800*1990	595*800*1990
		in	23.4*31.5*78.3	23.4*31.5*78.3	23.4*31.5*78.3	23.4*31.5*78.3
	Packing Dimensions (W*D*H)	mm	720*930*2100	720*930*2100	720*930*2100	720*930*2100
		in	28.3*36.6*82.7	28.3*36.6*82.7	28.3*36.6*82.7	28.3*36.6*82.7
	Container Load (20'/40'/40'H)		18/37/37	18/37/37	18/37/37	18/37/37
Alarms	High/Low Temperature		Y	Y	Y	Y
	High Ambient Temperature		Y	Y	Y	Y
	Door Ajar		Y	Y	Y	Y
	Power Failure		Y	Y	Y	Y
	Low Battery		Y	Y	Y	Y
	Sensor Error		Y	Y	Y	Y
	Communication Failure		Y	Y	Y	Y
	Condenser Heat		Y	Y	Y	Y
	Remote Alarm		Y	Y	Y	Y
Accessories	Caster		4	4	4	4
	Foot		2	2	2	2
	Porthole		2	2	2	2
	Shelves/Drawers		6/-	6/-	6/-	6/-
	Printer		Optional	Optional	Optional	Optional
	Chart Recorder		N/A	N/A	N/A	N/A
	USB Interface		Optional	Optional	Optional	Optional
	RS485		Optional	Optional	Optional	Optional
	Electromagnetric Lock		N/A	N/A	N/A	N/A
	Plastic Basket		Optional	Optional	Optional	Optional
Material	Exterior Material		Painted Steel	Painted Steel	Painted Steel	Painted Steel
	Interior Material		Polystyrene	Polystyrene	Polystyrene	Polystyrene
	Door Thickness (mm)		50	50	50	50
	Cabinet Thickness (mm)		45	45	45	45
Others	Certification		CE, DIN13277 (Optional)	UL, Energy Star	CE, DIN13277 (Optional)	UL, Energy Star

New Generation Pharmacy Refrigerator

Used for storage of medicines, vaccines, reagents, biological products and other items in hospitals, pharmacies,pharmaceutical factories, clinics and laboratories etc.

HYC-130GD/FD

- Purpose-built for medical and laboratory use
- High performance with low noise level
- Eco-friendly and energy saving
- Condensation free even at ambient 32°C & 80% RH
- Convenient monitoring and data acquisition

Product Features

- Eco-friendly hydrocarbon refrigerant (R600a) and CFC-free polyurethane insulation for reduced global warming potential
- Hermetically sealed compressor, forced-air circulation with auto defrost to ensure high cooling performance
- Adjustable plastic-coated wire shelves for improved circulation and flexible storage
- 25mm probe access port to accept user- provided monitoring equipment
- Optional USB, optional RS485 for easy data acquisition
- Quiet operation with noise level of only 37dB(A)
- HYC-130GD: Triple layer glass door with frame heater to achieve condensation free even at 32°C, 80% RH ambient; magnetic gaskets to ensure a positive seal
  HYC-130FD: Self-closing door hinge with 10° stop; Magnectic gaskets to ensure a positive seal
- Multiple alarm functions for safer monitoring, audible/ visual alert with mute function; remote alarm contacts as standard in rear of the unit
- Easy to check the min/max temperature in the past 24 hours
- Microprocessor controller, wipe clean display with 0.1°C resolution for accurate control
- Energy efficient interior LED lighting

Product Details

Specifications

Model			HYC-130GD	HYC-130GD (115V)
Technical Data	Cabinet Type		Under-Counter, Glass Door	
	Climate Class (°C)		N, 16~32	
	Cooling Type		Forced Air Cooling	
	Defrost Mode		Auto	
	Refrigerant		R600a, 30g	
	GWP (Global Warming Potential)		20	
	Sound Level (dB(A))		37	
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)		220~240/50/60	115/60
	Power (W)		180	
Performance Characteristics	Temperature Sensor		NTC	
	Power Consumption (kWh/24h)		1	
Dimensions	Capacity (L/Cu.Ft)		130 / 4.6	
	Net/Gross Weight (approx)	kg	48 / 52	
		lbs	105.8 / 114.6	
	Interior Dimensions (W*D*H)	mm	515*455*625	
		in	20.3*17.9*24.6	
	Exterior Dimensions (W*D*H)	mm	595*670*840	
		in	23.4*26.4*33.1	
	Packing Dimensions (W*D*H)	mm	670*730*890	
		in	26.4*28.7*35.0	
	Container Load (20'/40'/40'H)		48/102/102	
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 Right Side Wall	
	Shelves/Basket		3/1	
	Printer		N/A	
	Chart Recorder		N/A	
	USB Interface		Optional	
	RS485		Optional	
Material	Exterior Material (mm)		Painted Steel	
	Insulation Material (mm)		Polystyrene	
	Door Thickness		50	
	Cabinet Thickness		45	
	Shelves Material		Steel Wire, Coated with Plastic	
Others	Certification		CE, UKCA, DIN13277 (Optional)	UL, Energy Star (to be issued)

New Generation Pharmacy Refrigerator

Model			HYC-130FD	HYC-130FD(115V)
Technical Data	Cabinet Type		Under-Counter, Solid Door	
	Climate Class (°C)		N, 16-32	
	Cooling Type		Forced Air Cooling	
	Defrost Mode		Auto	
	Refrigerant		R600a, 30g	
	GWP (Global Warming Potential)		20	
	Sound Level (dB(A))		37	
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)		220-240/50/60	115/60
	Power (W)		180	
Performance Characteristics	Temperature Sensor		NTC	
	Power Consumption (kWh/24h)		0.55	
Dimensions	Capacity (L/Cu.Ft)		130 / 4.6	
	Net/Gross Weight (approx)	kg	48 / 52	
		lbs	105.8 / 114.6	
	Interior Dimensions (W*D*H)	mm	515*455*625	
		in	20.3*17.9*24.6	
	Exterior Dimensions (W*D*H)	mm	595*670*840	
		in	23.4*26.4*33.1	
	Packing Dimensions (W*D*H)	mm	670*730*890	
		in	26.4*28.7*35.0	
	Container Load (20'/40'/40'H)		48/102/102	
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 Right Side Wall	
	Shelves/Basket		3/1	
	Printer		N/A	
	Chart Recorder		N/A	
	USB Interface		Optional	
	RS485		Optional	
Material	Exterior Material (mm)		Painted Steel	
	Insulation Material (mm)		Polystyrene	
	Door Thickness		50	
	Cabinet Thickness		45	
	Shelves Material		Steel Wire, Coated with Plastic	
Others	Certification		CE, UKCA, DIN13277 (Optional)	UL, Energy Star(to be issued)

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-85GD/FD

Product Advantages

- User reversible door hinge
- Excellent performance: temperature uniformity ≤±1°C ①
- Quiet operation: 35dB (A)
- Magnetic gasket for positive seal
- Multiple alarms for safer monitoring

* ①Tested by TUV according to DIN13277

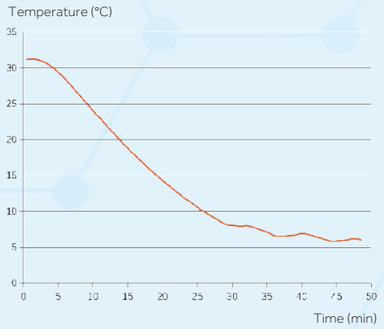
- **HYC-85GD:** Intelligent anti-condensation: triple-paned tempered glass door with door frame heater, effectively reduces condensation even at 32°C, 80% RH ambient temperature
  HYC-85FD: CFC-free solid door, highly effective insulation
- Optional USB and RS485, easy to export temperature data
- Eco-friendly hydrocarbon refrigerant (R600a) 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

New Generation Pharmacy Refrigerator

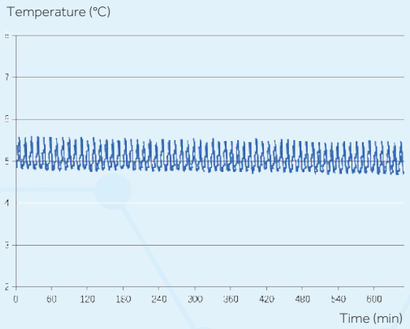
HYC-85GD

Cabinet Temperature

HYC-85GD
Cooling down (ambient 32°C)



HYC-85GD
Stability (ambient 25°C)



Specifications

Model			HYC-85GD	HYC-85FD
Technical Data	Cabinet Type		Counter-Top / Under-Counter, Glass Door	Counter -Top / Under-Counter, Solid Door
	Climate Class (°C)		N, 16~32	N, 16~32
	Cooling Type		Forced Air Cooling	Forced Air Cooling
	Defrost Mode		Auto	Auto
	Refrigerant		R600a, 45g	R600a, 45g
	GWP(global warming potential)		20	20
	Sound Level (dB(A))		35	35
Performance	Temperature Range (°C)		2~8	2~8
Control	Will the fan stop automatically when opening the door		Y	Y
	Controller		Microprocessor	Microprocessor
	Display		LED	LED
Electrical Data	Power Supply (V/Hz)		220~240/50 / 115V/60	220~240/50
	Electrical Current (A)		0.98 / 1.2	0.98
Performance Characteristics	Temperature Sensor		NTC	NTC
	Power Consumption (kWh/24h)		0.99 / 0.72	0.5
Dimensions	Capacity (L/Cu.Ft)		85/3.0	85/3.0
	Net/Gross Weight(approx)	kg	36 / 41	33 / 38
		lbs	79.4 / 90.4	72.8 / 83.9
	Interior Dimensions (W*D*H)	mm	405*405*555	405*405*555
		in	15.9*15.9*21.9	15.9*15.9*21.9
	Exterior Dimensions (W*D*H)	mm	495*550*740	495*550*740
		in	19.5*21.7*29.1	19.5*21.7*29.1
	Packing Dimensions (W*D*H)	mm	590*650*830	590*650*830
		in	23.2*25.6*32.7	23.2*25.6*32.7
	Container Load (20'/40'/40'H)		54/120/180	54/120/180
Alarms	High/Low Temperature		Y	Y
	High Ambient Temperature		Y	Y
	Door Ajar		Y	Y
	Power Failure		Y	Y
	Low Battery		Y	Y
	Sensor Error		Y	Y
	Communication Failure		Y	Y
	Condenser Heat		N	N
	Remote Alarm		Y	Y
	Audible and Visual Alarm		Y	Y
Accessories	Caster		2	2
	Foot		2	2
	Porthole		1	1
	Shelves/Basket		2/1	2/1
	Printer		N/A	N/A
	Chart Recorder		N/A	N/A
	USB Interface		Optional	Optional
	RS485		Optional	Optional
Material	Exterior Material		Painted Steel	Painted Steel
	Interior Material		Polystyrene	Polystyrene
	Door Thickness (mm)		50	50
	Cabinet Thickness (mm)		45	45
	Shelves Material		Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic
Other	Certification		CE, UKCA, DIN13277 (Optional) / UL, Energy Star	CE, UKCA, DIN13277 (Optional)

RFID Refrigerator

Smart Management of Medicine and Reagents Starts with IoT Technology

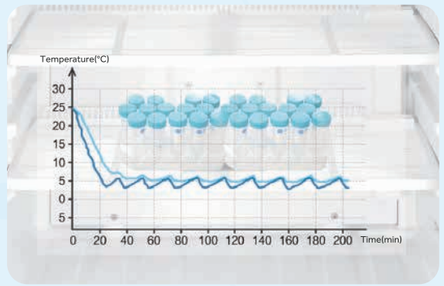
Perform statistical analysis of market data and medicine or reagents usage to report on market trends providing highly useful feedback to production and sales.

HYC-509R

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

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

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

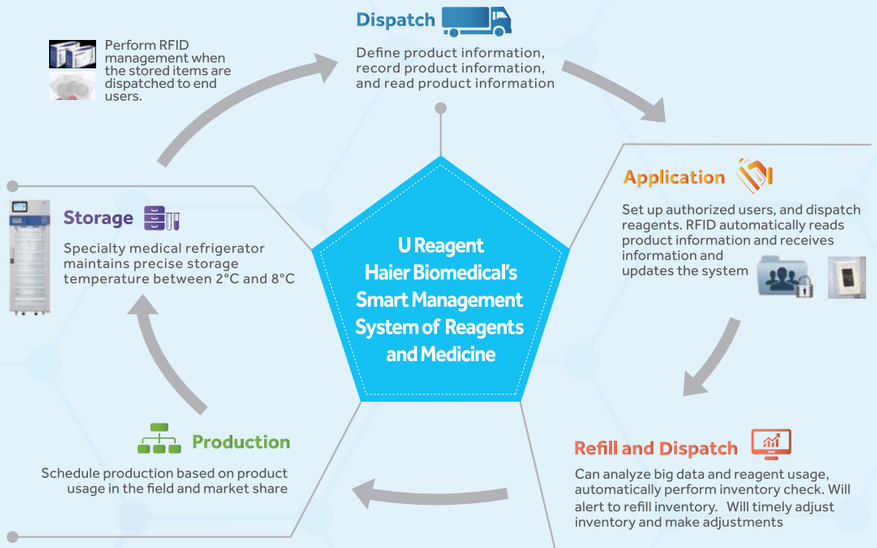
Sales channels can provide timely feedback information to improve shipping, refilling, dispatching and inventory control, to provide continuity on supply and to optimize inventory level.

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.

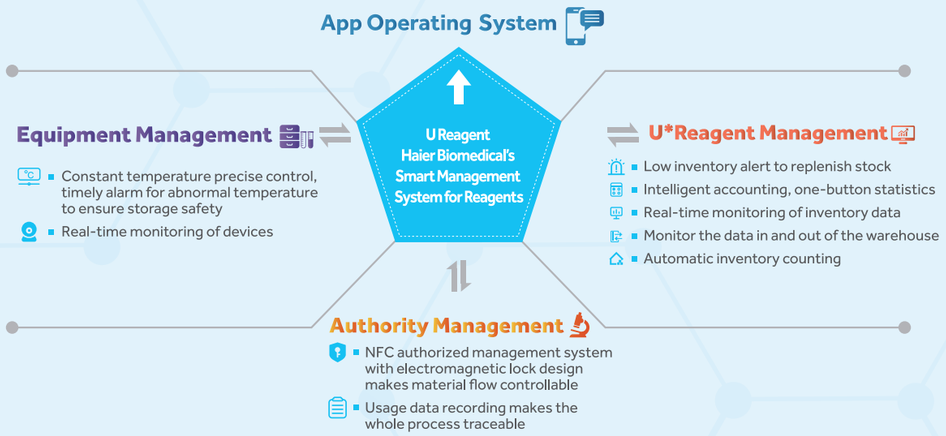
Smart Management of Products

(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)



Specifications

Model			HYC-509R
Technical Data	Cabinet Type		Upright, Single Glass Door
	Climate Class		N
	Cooling Type		Forced Air Cooling
	Defrost Mode		Auto
	Refrigerant		R600a
	GWP (global warming potential)		20
	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

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

Follow the QR code and learn more about the
Advanced Control Touchscreen Pharmacy Refrigerator from Haier Biomedical

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

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
	GWP (global warming potential)		20	20	20	20	20	20	20	20
	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
Dimensions	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
	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	Y	Y	Y	Y
	Shelves/Drawers		6 on each side, clerance 19.5cm/Optional	6 on Each Side, Clerance 19.5cm/Optional	12/Optional	12/Optional	6 on Each Side, Clerance 19.5cm/Optional	6 on Each Side, Clerance 19.5cm/Optional	12/Optional	12/Optional
	Drawer Material		Steel Wire Dipping Plastic	Steel Wire Dipping Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic	Steel Wire Dipping Plastic	Steel Wire Dipping Plastic	Steel Wire, Coated with Plastic	Steel Wire, Coated with Plastic
	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)		50	50	50	50	50	50	50	50
	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,DIN (optional)	CE, UKCA,DIN (optional)

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

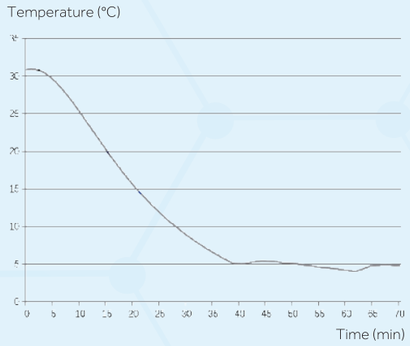
- Microcomputer controller, display/control accuracy 0.1°C
- Temperature range 2~8°C, temperature uniformity ±2°C
- Energy-efficient conversion compressors and non-toxic, environmentally-friendly hydrocarbon refrigerant
- Self-closing door design
- Electrically heated glass door prevents condensation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

Safe and reliable

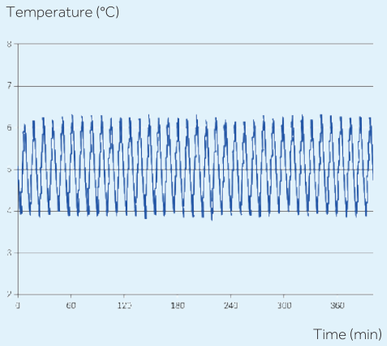
- Key lock and provision for padlock to ensure safe and secure product storage
- Multiple alarms: High/Low temperature alarm, high ambient temperature alarm, door ajar alarm, power failure, low battery, sensor error, comms error and remote alarm contacts
- Alarm mode: Audible/visual and remote alarm 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

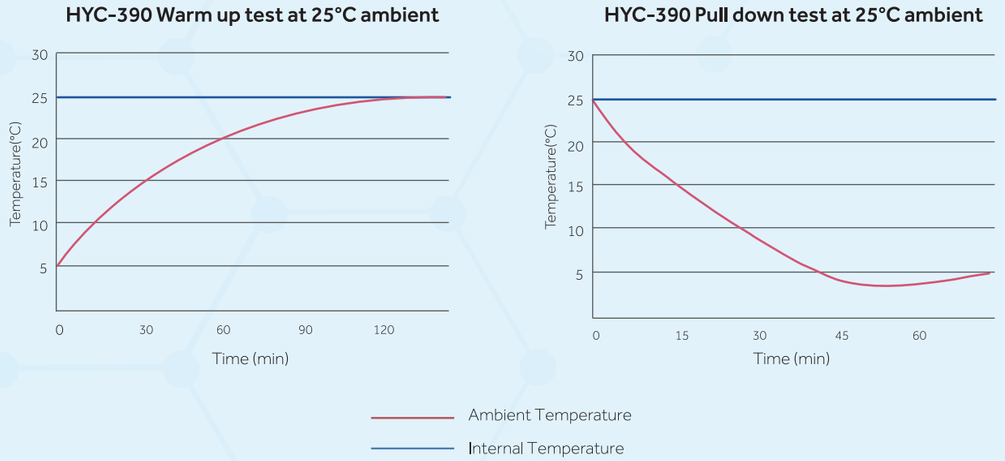
Ergonomic Design

- 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

Shelves:

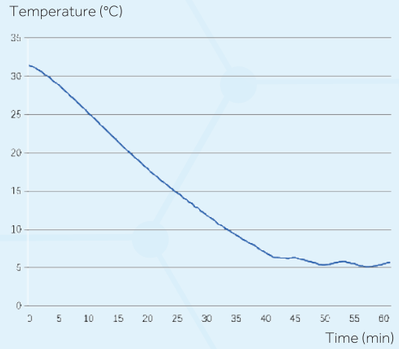
Standard with 6 shelves

HYC-410

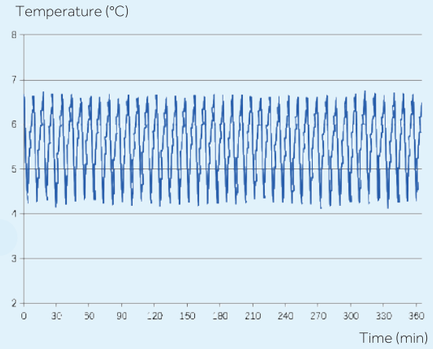
*Optional: USB, printer, RS485/232 interface

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

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

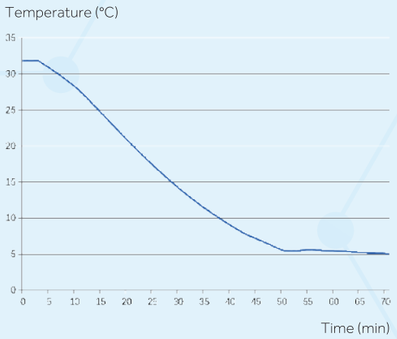
Equipped with safety lock , safe storage of drugs

Temperature recorder

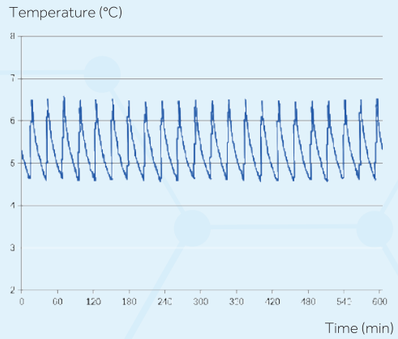
Standard equipped with USB port, the printer and RS485 interface are optional

Typical Performance Characteristics in 32°C Ambient Temp

HYC-639
Cooling down (ambient 32°C)



HYC-639
Stability (ambient 25°C)



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

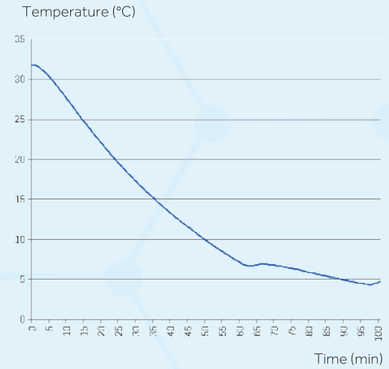
- Equipped with a complete temperature alarm system featuring audible buzzer and visible flashing light
- Capable of alerting failures due to high or low temperature, sensor error, door ajar, remote alarm, power failure and low battery

Ergonomic Design

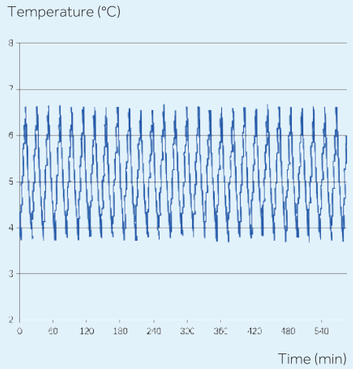
- Optimized space utilization design with multi-level and adjustable shelf height to accommodate the different storage requirements of varied sized pharmaceutical products.
- Safety lock to prevent unauthorized access
- Caster design and levelling feet
- Interior light

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

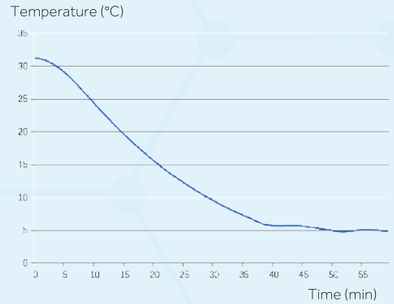
- Equipped with a complete temperature alarm system featuring audible buzzer and visual flashing light
- Capable of alerting failures due to high and low temperature, sensor error, door ajar, power failure, and remote alarm interface

Ergonomic Design

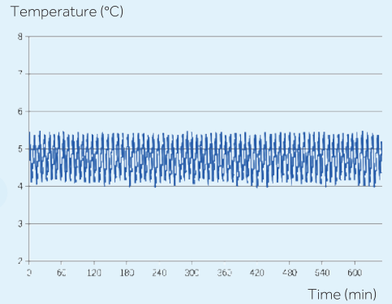
- Interior LED light
- Safety lock to prevent unauthorized access

Product Performance

HYC-118A
Cooling down (ambient 32°C)



HYC-118A
Stability (ambient 25°C)



Pharmacy Refrigerator

Specifications

Model			HYC-390F	HYC-610	HYC-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
	Climate Class		N	N	ST	N	N	N
	Cooling Type		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
	Refrigerant		R600a	R600a	R600a	R600a	R600a	R600a
	GWP (global warming potential)		20	20	20	20	20	20
	Sound Level (dB(A))		43	43 / 45	43	41	43	41
Performance	Temperature Range (°C)		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
	Controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display		LED	LED	LED	LED	LED	LED
Electrical Data	Power Supply (V/Hz)		220~240/50/60 / 115/60	220~240/50/60 / 115/60	220~240/50/60 / 115/60	220~240/ 50/60	220~240/50/60 / 115/60	220~240/50
	Electrical Current (A)		1 / 1.5	3 / 6.2	1.8 / 2.2	1.9	1.8 / 2.4	2.0
Performance Characteristics	Temperature Sensor		Digital Sensor	Digital Sensor	Digital Sensor	NTC	Digital Sensor	NTC
	Power Consumption (kWh/24h)		1.5 / 2.5	6.6 / 5.5	4.4 / 5.1	4.5	43	5.5
Dimensions	Capacity (L/Cu.Ft)		390/13.8	610/21.6	290/10.2	309/10.9	390/13.8	410/14.5
	Net/Gross Weight (approx)	(kg)	106/129	204/227	105/127	77/87	116/139	116/139
		(lbs)	233.8/284.5	449.7/500.4	231.6/280.1	170/192	255.8/306.6	255.7/306.4
	Interior Dimension (W*D*H)	(mm)	530*555*1380	680*640*1400	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	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	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	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	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	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	22/44/44	24/51/51	22/44/44	22/44/44
Alarms	High/Low Temperature		Y	Y	Y	Y	Y	Y
	Remote Alarm		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
	Door Ajar		Y	Y	Y	Y	Y	Y
	Audible and Visual Alarm		Y	Y	Y	Y	Y	Y
Accessories	Caster		Y	Y	Y	Y	Y	4
	Foot		Y	Y	Y	Y	Y	2
	Porthole		Y	Y	Y	Y	Y	Y
	Shelves/Drawers		7/-	6/-	5/-	5/-	7/-	6 /-
	USB Interface		Optional / Y	Optional	Optional / Y	Optional	Optional / Y	Optional
	Printer		Optional	/	Optional	Optional	Optional	Optional
Material	Exterior Material		Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel
	Interior Material		Polystyrene	Stainless Steel	Polystyrene	Polystyrene	Polystyrene	Polystyrene
	Door Thickness (mm)		40	40	40	40	40	45
	Cabinet Thickness (mm)		40	50	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
	No. of Shelves		7	6	5	5	7	6
Other	Certificate		CE / UL	CE / UL	CE / UL	CE, UKCA	CE / UL	CE, ENERGY STAR

Pharmacy Refrigerator

Specifications

Model			HYC-940		HYC-940F	HYC-639	HYC-639 (115V)	HYC-1378	
Technical Data	Cabinet Type		Upright, Double Glass Door		Upright, Double Solid Door	Upright, Single Door		Upright, Double Door	
	Climate Class		N		N	ST		N	
	Cooling Type		Forced Air Cooling		Forced Air Cooling	Forced Air Cooling		Forced Air Cooling	
	Defrost Mode		Auto		Auto	Digital (Accuracy 0.1°C)	Auto	Auto	
	Refrigerant		R290		R290	R600a		R290	
	GWP (global warming potential)		3		3	20		3	
	Sound Level (dB(A))		43	45	43	43	46	43	45
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)		220~240/50/60	115/60	220~240/50/60	220~240/50	115/60	220~240/50/60	115/60
	Electrical Current (A)		3.5	7.5	2.7	2.15	2.5	3	7.35
Performance Characteristics	Temperature Sensor		NTC		NTC	NTC		NCT	
	Power Consumption (kWh/24h)		11		11	5		11	12.47
Dimensions	Capacity (L/Cu.Ft)		890/31.4		890/31.4	639/22.6	600/21.2	1378/48.7	
	Net/Gross Weight (approx)	(kg)	227/279		207/259	200/240		310/360	
		(lbs)	500.4/615.1		456.4/571.1	551.15/639.33		683.4/793.7	
	Interior Dimension (W*D*H)	(mm)	1030*590*1425		1030*590*1425	620*706*1520		1320*700*1500	
		(in)	40.6*23.2*56.1		40.6*23.2*56.1	24.4*27.8*59.8		52.0*27.6*59.1	
	Exterior Dimension (W*D*H)	(mm)	1130*755*1980		1130*755*1980	760*897*1993		1440*950*1980	
		(in)	44.5*29.7*78.0		44.5*29.7*78.0	29.9*35.3*78.5		56.7*37.4*78.0	
	Packing Dimension (W*D*H)	(mm)	1250*850*2170		1250*850*2170	910*1030*2170		1620*1040*2140	
		(in)	49.2*33.5*85.4		49.2*33.5*85.4	35.8*40.6*85.4		63.8*41.0*84.3	
	Container Load (20'/40'/40'H)		10/22/22		10/22/22	12/24/24		6/14/14	
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	
	Door Ajar		Y		Y	Y		Y	
	Audible and Visual Alarm		Y		Y	Y		Y	
Accessories	Caster		Y		Y	Y/4		Y	
	Foot		Y		Y	Y/2		Y	
	Porthole		Y		Y	Y		Y	
	Shelves/Drawers		12/-		12/-	4/-		12/-	
	USB Interface		Optional		Optional	Y		Y	
	Printer		Optional		Optional	Optional		Optional	
	Chart Recorder		N/A		N/A	Optional		Optional	
Material	Exterior Material		Painted Steel		Painted Steel	Painted Steel		Painted Steel	
	Interior Material		Painted Steel		Painted Steel	Painted Steel, Optional Stainless Steel		Painted Steel	
Other	Certificate		CE	UL	CE	CE, UKCA	UL, Energy Star, ANSI 456	CE	UL

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	
	GWP (global warming potential)		20		20		20		20	
	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	Foot		Y/2		Y/2		Y/2		Y/2	
	Porthole		Y ;1 Right Side Wall		Y; 1 Right Side Wall		Y; 1 Left Side Wall		Y; Left Side Wall	
	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

Combined Refrigerator and Freezer

Scope of Application

This product is designed to store biomaterials, vaccines, electronic devices and low temperature tests of special materials, in 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 warming

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

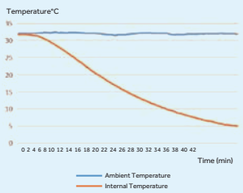
- Refrigerator temperature 2-8°C with resolution of 0.1°C
- Freezer temperature -40~-10°C with resolution of 1°C
- Multiple alarm functions with remote alarm contact to ensure safe monitoring

High Performance

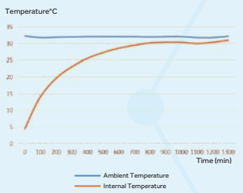
- Refrigerator: Forced-air cooling system with cycle defrost, temperature uniformity±3°C
- Freezer: Cold wall cooling system, manual defrost, temperature uniformity±5°C
- Standard USB port & optional printer, easy to get temperature record

Product Performance

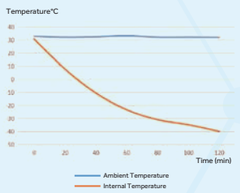
Refrigerator Cool Down Curve



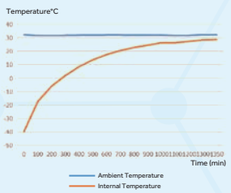
Refrigerator Warm Up Curve



Freezer Cool Down Curve



Freezer Warm Up Curve



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
	GWP (global warming potential)		R600a:20	R290:3	R600a:20	R290:3
	Sound Level (dB(A))		43		43	
Performance	Temperature Range (°C)		2~8	-10~-40	2~8	-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	
		lbs	319.7/352.7		319.7/352.7	
	Interior Dimensions (W*D*H)	mm	605*510*720	515*465*440	605*510*720	515*465*440
		in	23.8*20*28.3	20.2*18.3*17.3	23.8*20*28.3	20.2*18.3*17.3
	Exterior Dimensions (W*D*H)	mm	735*660*1810		735*660*1810	
		in	28.9*26.0*71.3		28.9*26.0*71.3	
	Packing Dimensions (W*D*H)	mm	795*740*2010		795*740*2010	
		in	31.3*29.1*79.1		31.3*29.1*79.1	
	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	

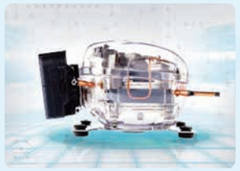
Combined Refrigerator and Freezer

Main Application

This product is designed to store biomaterials, vaccines, electronic devices and low temperature tests of special materials.

HYCD-469

Temperature Control



Security Guaranteed

Variable Frequency Hydrocarbon Refrigeration System

Data Storage

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		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		R600a	R290	R600a	R290	R600a	R290	R600a	R290
	GWP (global warming potential)		20	3	20	3	20	3	20	3
	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		150/60	
	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		12/28/28		12/28/28		12/28/28	
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	1/2 (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	

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

UV Sterilization Lamp

- 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.

7 Inch LCD Screen

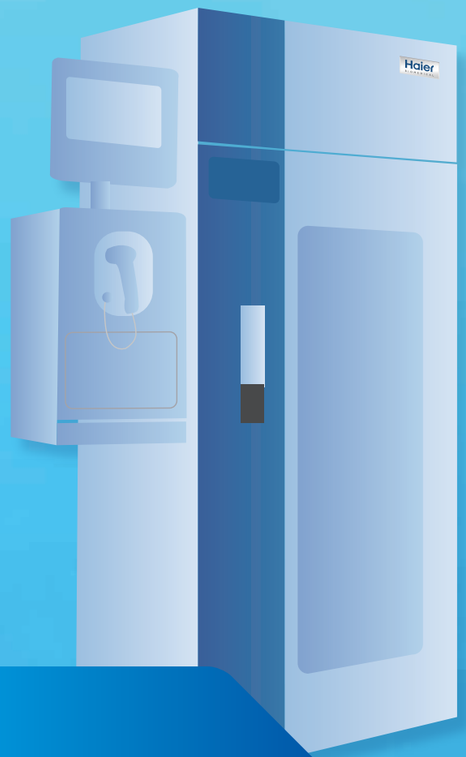
Ergonomic Design

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

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)		220-240/50/60
	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

Haier Biomedical
Intelligent Protection of Life Science



Blood Bank Solutions

Follow the QR code and learn more about the Blood Bank Solutions from Haier Biomedical

Automated Blood Management Refrigerator

HXC-429TR

HXC-629TR

HXC-1369TR

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.

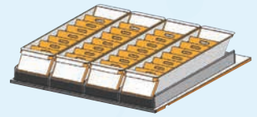
Standard USB Port

With optional disc temperature recorder.

Information Flow

Place the blood bag with RFID tag in blood basket

>>



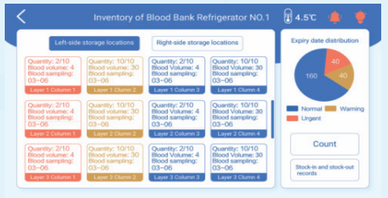
Using built-in RFID read & write board of the refrigerator to read blood bag information

RFID Tag Information

Server

<<

RFID Tag Information



Refrigerator Screen APP

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

Automated Blood Management Refrigerator

Specifications

Model			HXC-629TR	HXC-1369TR
Technical Data	Type		Basket-Type	Basket-Type
	Climate Class		N	N
	Cooling Type		Forced Air Cooling	Forced Air Cooling
	Defrost Mode		Auto	Auto
	Refrigerant		R600a	R600a
	Sound Level (dB(A))		40	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)		220~50/60	220~50/60
	Power (W)		255	320
	Electrical Current (A)		1.5	2
Dimensions	Capacity (L/Cu.Ft)		629	1369
	Blood Storage Capacity (400ml Blood Bags)		192	384
	Net/Gross Weight (approx)	kg	252/292	430/495
		lbs	556/644	948/1091
	Interior Dimensions (W*D*H)	mm	645*680*1455	1425*680*1455
		in	25.2*26.5*56.7	55.6*26.5*56.7
	Exterior Dimensions (W*D*H)	mm	765*940*1980	1545*940*1980
		in	29.8*36.7*77.2	60.3*36.7*77.2
	Packing Dimensions (W*D*H)	mm	880*1010*2090	1678*1044*2085
		in	34.6*39.8*82.3	66.1*41.1*82.1
	Container Load (20'/40'/40'H)		12/26/26	7/14/14
Alarms	High/Low Temperature		Y	Y
	Power Failure		Y	Y
	Sensor Error		Y	Y
	Low Battery		Y	Y
	Door Ajar		Y	Y
	Alarm of Dirty Condenser		Y	Y
	Remote Alarm		Y	Y
Accessories	Caster		4	4
	Foot		2	2
	Porthole		Y	Y
	Baskets		24	48
	Shelves/Drawers		6/0	12/0
	Inner Doors		N	N
	USB Interface		Y	Y
	Temperature Recorder		Y	Y
Others	Certification		N	N

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.

Automated Blood Management Refrigerator

Specifications

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

R sufffx - RFID with IoT model for blood bag management
Product appearance and specifcations are subject to change without notice

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

HXC-429RV/629RV

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.

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.

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

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

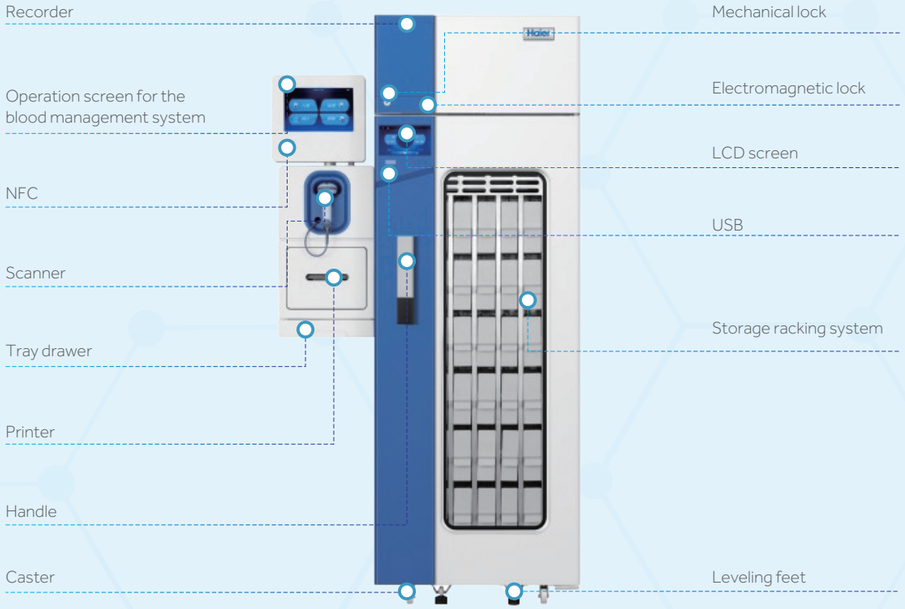
Ozone Sterilization

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

Automatic Inventory

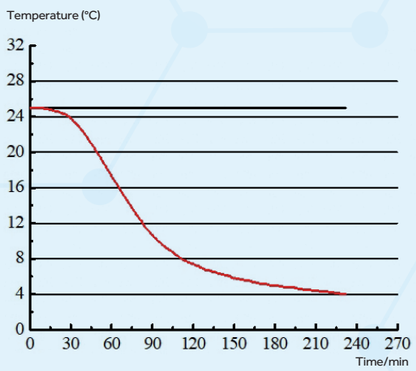
Automatic inventory and blood bag information at a glance

Automated Blood Management Refrigerator

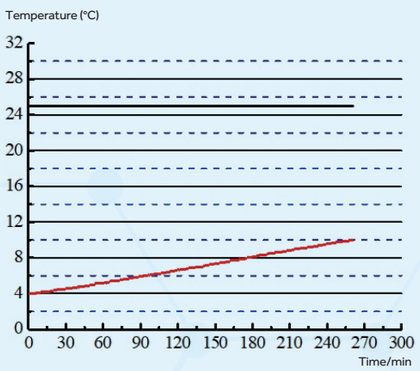


Product Performance

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
Dimensions	Capacity (L/Cu.Ft)	429/15.1	629/22.2
	Blood Storage Capacity (450ml blood bags)	36	88
	Net/Gross Weight (approx) kg	245/280	295/335
	Net/Gross Weight (approx) lbs	539/616	649/737
	Interior Dimensions (W*D*H) mm	505*680*1315	645*680*1455
	Interior Dimensions (W*D*H) 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
	Exterior Dimensions (W*D*H) 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
	Packing Dimensions (W*D*H) 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
	Remote Alarm	Y	Y
Accessories	Caster	4	4
	Foot	2	2
	Porthole	Y	Y
	Drawers	36	44
	USB Interface	Y	Y
	Temperature Recorder	Y	Y
Others	Certification	CE	CE

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.

Safe and reliable, making blood collection process traceable

A drawer corresponds to a lock

- 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

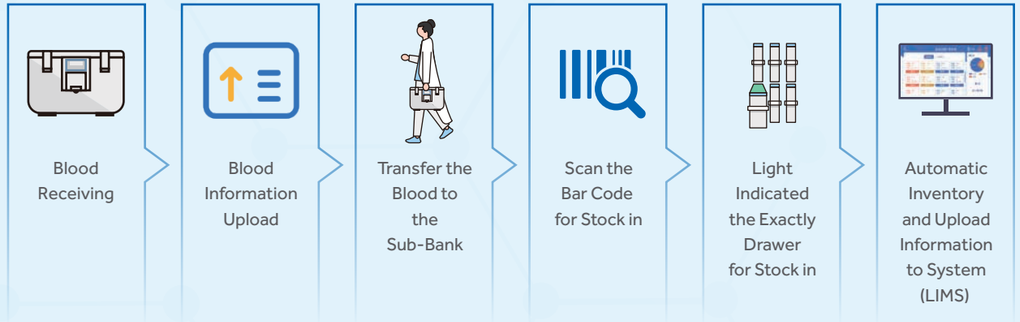
Ergonomic Design

- 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.

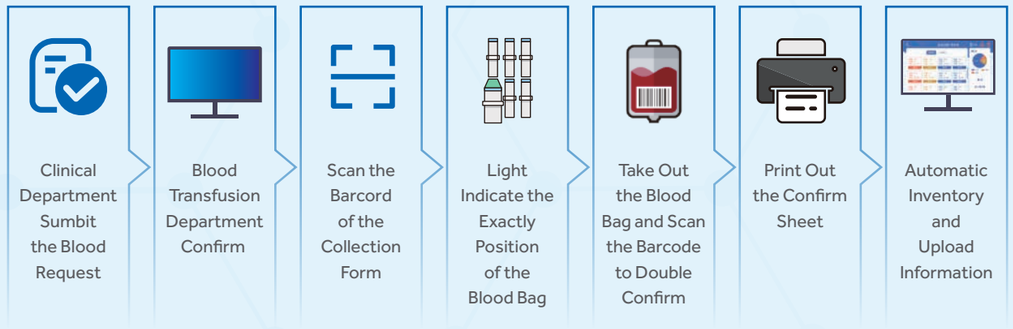
User-machine interaction, making management visual

- 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.

Stock-in Work Flow



Stock-out Work Flow



The following improvements were experienced by individual hospitals after implementing the

Unattended Self-service Blood Distribution Refrigerator& Haier Blood Management System

- Blood collection time reduced from 20 minutes to 2 minutes
- Blood waste rate reduced to 0
- 85% reduction in blood bank staff time
- 80% reduction in clinical staff time

Unattended Self-service Blood Distribution Refrigerator

How does the Haier Intelligent Blood Management system interact with Haier refrigerator and with Hosptial system (LIMS)

- ☐ Self-service blood distribution: self-service operation through the blood collection form
- ☐ Realize real-time management of Stock-in and Stock-out blood;
- ☐ Quick and accurate positioning management of target blood;
- ☐ Multiple protection: Security management, electromagnetic lock, camera, NFC authorization card
- ☐ Real-time monitoring and management of refrigerator temperature

- The refrigerator is placed on the front line of blood use, and can be used on demand (need to apply in advance).
- Emergency blood support (Type O blood and other emergency blood guarantee at the first time).

- Only the blood that has been applied for can be taken each time, and all the others are locked to ensure safety.
- Real-time monitoring of the entire refrigerator and blood collection environment.

- The refrigerator is linked to the blood transfusion department in real time, and the blood crossmatching process and blood handover can all be realized through intelligent equipment;
- Unattended design, can realize 7×24h self-service management.

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)		220-240-50/60
	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	1454*1058*2131
		in	57.2*41.65*83.89
	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
	Shelves/Drawers		0/72
	USB Interface		Y
	Temperature Recorder		N
Others	Certification		CE, MDR

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

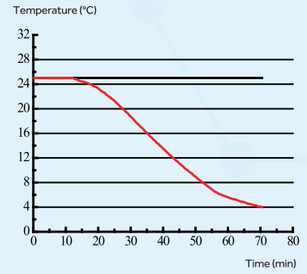
- Equipped with fingerprint and NFC access modules providing dual permission modes to open the electromagnetic lock
- Each drawer is equipped with an independent electronic lock to ensure that only the unique and correct blood bag can be taken out in each blood collection operation
- The camera module 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

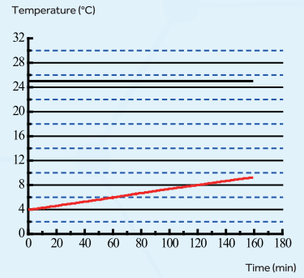
HXC-149ZZ

Product Performance

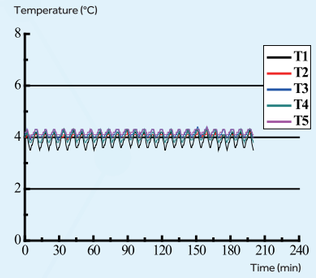
Cool down curve (empty loaded)



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	748*958*1610
		in	29.44*37.72*63.38
	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
	Shelves/Drawers		0/12
	USB Interface		Y
	Temperature Recorder		Option
Others	Certification		CE

Advanced Blood Bank Refrigerator with LCD Touchscreen

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

Product Advantages

Control Interface

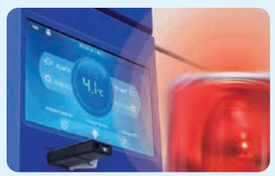
- The simple and intuitive high-definition LCD touch screen can display temperature graph, working status, events and alarm record.

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.

Follow the QR code and learn more about the
Advanced Blood Bank Refrigerator with Touchscreen from Haier Biomedical

Advanced Blood Bank refrigerator with LED Display

HXC-1369 HXC-629/629B 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

Blood Bank Refrigerator

Specifications

	Model		HXC-149		HXC-429		HXC-629		HXC-629B	HXC-1369		HXC-149T		HXC-279T	HXC-429T		HXC-629T		HXC-1369T	
Technical Data	Type		Basket-Type		Basket-Type		Basket-Type		Basket-Type	Basket-Type		Drawer-Type		Drawer-Type	Drawer-Type		Drawer-Type		Drawer-Type	
	Climate Class		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	
	Defrost Mode		Auto		Auto		Auto		Auto	Auto		Auto		Auto	Auto		Auto		Auto	
	Refrigerant		R600a		R600a		R600a		R600a	R600a		R600a		R600a	R600a		R600a		R600a	
	Sound Level (dB(A))		39		40		40		41	41		39		39	40		40		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	
	Ambient Temperature (°C)		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	
	Display		LED		LED		LED		LED	LED		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	230-50/60	220-240/50	230-50/60	220-240/50	230-50/60	220-240/50	230-50/60
	Power (W)		240		245		255		255	400		240		295	245		255		400	
	Electrical Current (A)		1.4		1.5		1.5		3	2		1.4		1.5	1.5		1.5		2	
Dimensions	Capacity (L/Cu.Ft)		149/5.3		429/15.15		629/22.21		629/22.21	1369/48.35		149/5.3		279/9.85	429/15.15		629/22.21		1369/48.35	
	Blood Storage Capacity (450ml Blood Bags)		60		195		312		312	624		60		48.34577874	195		312		624	
	Net/Gross Weight (approx)	kg	97/125		169/204		187/217		187/217	345/410		108/136		113/130	182/217		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		249/286.6	400.4/477.4		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*1315	505*680*1315		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		19.9*16.1*51.8	19.7*26.5*51.3		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		630*705*1750	625*940*1830		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		24.8*27.8*68.9	24.4*36.7*71.4		29.8*36.7*77.2		60.3*36.7*77.2	
	Packing Dimensions (W*D*H)	mm	730*926*1236		749*1008*1960		880*1010*2090		880*1010*2090	1678*1044*2085		730*926*1236		748*777*1881	749*1008*1960		880*1010*2090		1678*1044*2085	
		in	28.7*36.5*48.7		29.5*39.7*77.2		34.7*39.8*82.3		34.7*39.8*82.3	66.1*41.1*82.1		28.7*36.5*48.7		29.4*30.6*74.1	29.5*39.7*77.2		34.7*39.8*82.3		66.1*41.1*82.1	
	Container load (20'/40'/40'H)		18/38/76		18/35/35		12/26/26		12/26/26	7/14/14		18/38/76		14/45/45	18/35/35		12/26/26		7/14/14	
Alarms	High/Low Temperature		Y		Y		Y		Y	Y		Y		Y	Y		Y		Y	
	Power Failure		Y		Y		Y		Y	Y		Y		Y	Y		Y		Y	
	Sensor Error		Y		Y		Y		Y	Y		Y		Y	Y		Y		Y	
	Low Battery		Y		Y		Y		Y	Y		Y		Y	Y		Y		Y	
	Door Ajar		Y		Y		Y		Y	Y		Y		Y	Y		Y		Y	
	Remote Alarm		Y		Y		Y		Y	Y		Y		Y	Y		Y		Y	
Accessories	Caster		4		4		4		4	4		4		4	4		4		4	
	Foot		2		2		2		2	2		2		2	2		2		2	
	Porthole		Y		Y		Y		Y	Y		Y		Y	Y		Y		Y	
	Baskets		6		15		24		24	48		6		15	15		24		48	
	Shelves/Drawers		2/0		5/0		6/0		6/0	12/0		0/2		5/0	0/5		0/6		0/12	
	Inner doors		2		5		6		6	12		0		5	0		0		0	
	USB Interface		Y		Y		Y		Y	Y		Y		Y	Y		Y		Y	
	Temperature Recorder		Y		Y		Y		Y	Y		Y		/	Y		Y		Y	
Others	Certification		CE, MDR	UL, MDR	CE, MDR	UL, MDR	CE, MDR	UL, MDR	UL	CE, MDR	UL, MDR	CE, MDR	UL, MDR	CE, MDR	CE, MDR	UL, MDR	CE, MDR	UL, MDR	CE, MDR	UL, MDR

4°C Blood Bank Refrigerator

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-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.

Interior lighting:
The cabinet is equipped with LED lights and external independent light switches.

Door lock and door lock alarm:
Prevent random door opening.

Door handle:
Easy to open

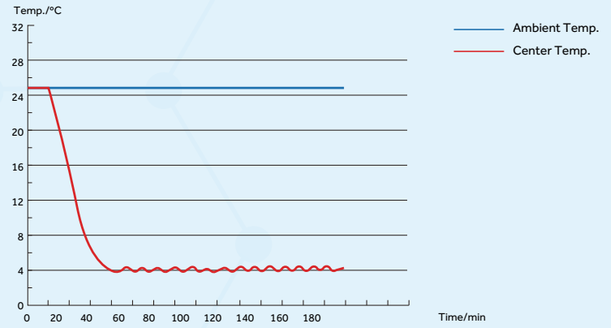
Foot:
Stable and adjustable

LED digital display:
The internal temperature 2-6°C, digital display of upper and lower temperature, the average temperature display and the resolution of 0.1°C.

Air cooling design:
Ensure that the temperature in any corner of the box is maintained within the calibration temperature range.

The temperature measuring box is used to monitor the temperature in the cabinet in real time.

3 shelves, 4 blood baskets, blood basket with a label slot, easy to label. Capable of storing 54 bags of 400ml blood totally .



Temperature drop and insulation curve

4°C Blood Bank Refrigerator

Specifications

Model			HXC-106
Technical Data	Type		Basket-Type
	Climate Class		N
	Cooling Type		Forced Air Cooling
	Defrost Mode		Auto
	Refrigerant		R600a
	Noise Lever (dB(A))		41
Performance	Temperature Range (°C)		4±1
	Ambient Temperature (°C)		16-32
Control	Controller		Microprocessor
	Display		LED
Electrical Data	Power Supply (V/Hz)		220-240~50/60
	Power (W)		253
	Electrical Current (A)		1.6
Dimensions	Capacity (L/Cu.Ft)		106
	Blood Storage Capacity (400ml Blood Bags)		54
	Net/Gross Weight (approx)	kg	49/52
		lbs	108.03/114.64
	Interior Dimensions (W*D*H)	mm	430*350*830
		in	16.93*13.78*32.68
	Exterior Dimensions (W*D*H)	mm	500*514*1055
		in	19.69*20.34*41.54
	Packing Dimensions (W*D*H)	mm	565*615*1145
		in	22.24*24.21*45.08
	Container Load (20'/40'/40'H)		36/72/72
Alarms	High/Low Temperature		Y
	Power Failure		Y
	Sensor Error		Y
	Low Battery		Y
	Door Ajar		Y
	Remote Alarm		Y
Accessories	Caster		0
	Foot		4
	Porthole Hole		1
	Shelves/Baskets		3/4
	Inner doors		0
	USB Interface		N
	Temperature Recorder		N
Others	Certificate		CE, MDR

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.

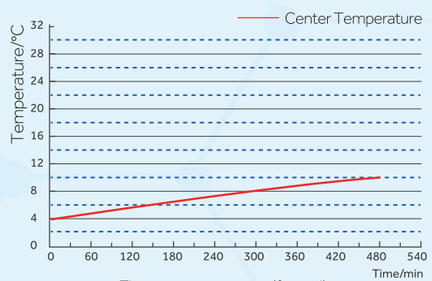
HXC-279

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

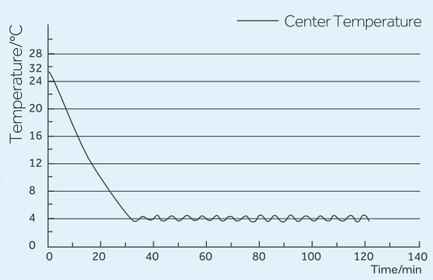
Under full load and power off conditions, holdover time for 4°C to 6°C is more than 150 minutes, more secure.



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

4°C Blood Bank Refrigerator

Specifications

Model			HXC-279 (Vehicle Mounted)
Technical Data	Type		Drawer-Type
	Climate Class		N
	Cooling Type		Forced Air Cooling
	Defrost Mode		Auto
	Refrigerant		R134a
	Sound Level (dB(A))		39
Performance	Temperature Range (°C)		4±1
	Ambient Temperature (°C)		16-32
Control	Controller		Microprocessor
	Display		LCD
Electrical Data	Power Supply (V/Hz)		230~50
	Power (W)		400
	Electrical Current (A)		1.5
Dimensions	Capacity (L/Cu.Ft)		279/9.85
	Blood Storage Capacity (450ml Blood Bags)		135
	Net/Gross Weight (approx)	kg	113/130
		lbs	249/286.6
	Interior Dimensions (W*D*H)	mm	505*410*1315
		in	19.9*16.1*51.8
	Exterior Dimensions (W*D*H)	mm	660*705*1750
		in	25.98*27.8*68.9
	Packing Dimensions (W*D*H)	mm	748*777*1881
		in	29.4*30.6*74.1
	Container load (20'/40'/40'H)		14/45/45
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		15
	Shelves/Drawers		5/0
	Inner doors		5
	USB Interface		Y
	Temperature Recorder		/
Others	Certification		/

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
- Adjustable Shelf And Basket
- Condensation Free Design
- 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

Blood Bank Refrigerators

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
	Sound Level (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)		1.9	1.9
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
	Remote Alarm		Y	Y
	Power Failure		Y	Y
	Sensor Error		Y	Y
	Low Battery		Y	Y
	Door Ajar		Y	Y
Accessories	Castor		Y	Y
	Foot		Y	Y
	Porthole		Y	Y
	Shelves/Baskets		4/4	-
	Drawers/Inner Doors		-/2	4/-
	USB Interface		Optional	Optional
	Temperature Recorder		Optional	Y
Others	Certificate		CE, MDR	CE, MDR

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, efhcient 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.

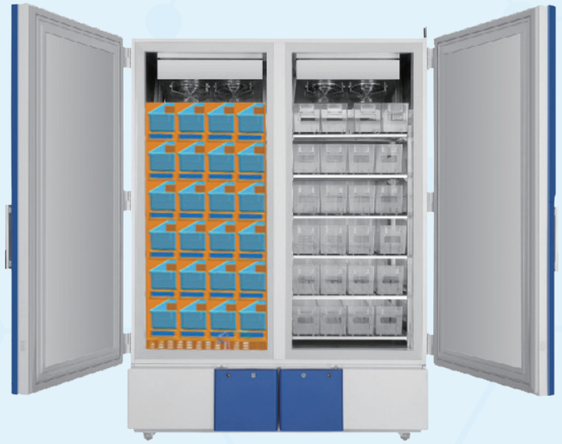
Equipped with IoT function, ensuring real-time temperature monitoring.

- 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.

Plasma Freezer



Multistage Plasma Storage Basket

- Multistage plasma 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			DW-30L1280FT
Technical Data	Cabinet Type		Upright
	Climate Class		N
	Cooling Type		Forced Air Cooling
	Defrost Mode		Automatic Defrost
	Refrigerant		R290
	Sound Level (dB(A))		46
Performance	Cooling Performance (°C)		-30
	Temperature Range(°C)		-10~-30
Control	Controller		Microprocessor
	Display		LCD
Electrical Data	Power Supply (V/Hz)		220/50
	Power (W)		900
	Electrical Current (A)		5
Dimensions	Capacity (L/Cu.Ft)		1280/45.2
	Net/Gross Weight (approx)	kg	620/680
		lbs	1366/1499
	Interior Dimensions (W*D*H)	mm	1320*752*1260
		in	52*29.6*49.6
	Exterior Dimensions (W*D*H)	mm	1520*1065*1996
		in	59.8*41.9*78.6
	Packing Dimensions (W*D*H)	mm	1580*1100*2100
		in	62.2*43.3*82.7
	Container Load (20'/40'/40'H)		6*14*14
Alarms	High/Low Temperature		Y
	Remote Alarm		Y
	Power Failure		Y
	Sensor Error		Y
	Low Battery		Y
	High Ambient Temperature		Y
	Door Ajar		Y
Accessories	Castor		Y
	Foot		Y
	Porthole		Y
	Drawers/Inner Doors		N
	Temperature Recorder		Y
	USB Interface		Y
	RS485		Y
Others	Certification		MDR

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.

Large color touch screen, easy to operate.

The unit is small in size, movable and easy to use, which reduces the burden of users.

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.

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.

The monitor prevents manual process errors

The separator will e
and corresponding
there is any misalign
If this occurs the s mit an alarm sound
carry out the nex text prompt when
completely eliminat ed of anticoagulant.
error, and avoids ystem is unable to
endangers the sa t operation, which
donor. es the risk of infusion
any accident that
fety of the plasma

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.

Maintain & Protect Blood

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

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

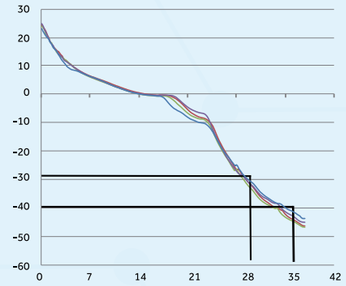
Mainly applicable to the quick-frozen treatment of plasma products in blood stations or medical institutions.

XSD-24FL

Features

- Traceability of each freezing cycle
- Maximum freezing effciency
- 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

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	●	●	Pallet cart for plasma transfer × 1	1. Made of aluminum alloy sections, firm and durable 2. Universal wheels, for convenient operation
	Tray	●	●	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	●	●	Analog sensor × 1	Supports the accurate regulation of blood bag
	Dummy Bag	●	●	Dummy bag × 1	Equipped with internal temperature measuring tube, convenient for determining the temperature at the center of blood bag

Plasma Blast Freezer

Model	XSD-24FL
Freezing Capacity (Plasma Bag)	16 at 1000ml /24 at 400ml /40 at 200ml
Freezing Plate Temperature (°C)	-59
Storage Temperature (°C)	Manual Adjustment Between -30° to -50°
Freezing Time to Core Temperature of -30 °C	24 unit (450ML) ±30min 16 unit (1000ML) ±45min
Defrosting	Integrated thermal defrosting, defrosting delay time about 10 minutes; Defrost for 15 minutes.
Noise Level (db(A))	≤56
Refrigerant Type	R507
Cooling Type	Forced Air Cooling
Operating Voltage Range	3~380V~400V/50Hz(60Hz)
Power (W)	7000
Dimension of Indoor Machine (W*D*H)(mm)	Open Status: 1455*915*1665 Close Status: 1455*915*1465
Pakcing Demension of Indoor Machine (W*D*H)(mm)	1570*1000*1620
Dimension of Outside Machine (W*D*H)(mm)	/
Packing Demension of Outdoor Machine (W*D*H)(mm)	/
Net Weight of Indoor Machine(kg)/Gross Weight	480/540
Net Weight of Outside Machine(kg)/Gross Weight	/
GWP	3985

XSD-24WFL

XSD-48WFL

Mainly intended for the quick-frozen treatment of blood plasma or biological samples to a core below -30°C in blood stations or medical institutions

Ergonomic Design

Flexible set up

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

Electric lifting system

Height control is more accurate and quieter than pneumatic lifting system

Simple operation

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

Password protection

Parameter setting is password protected to 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

Friendly interface

Friendly interface display design, clearer temperature observation

Plasma Blast Freezer

Product Advantages

Low rapid-freezing temperature

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

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

Plate Rapid-Freezing, efficient Cooling

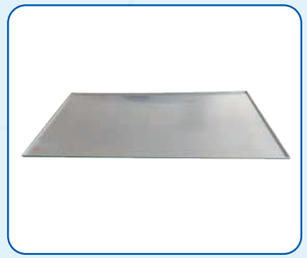
The central temperature of full-load plasma can be quickly frozen to below -30°C within 45 minutes, which effectively guarantees the activity of factor VIII

Efficient core components, energy saving

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

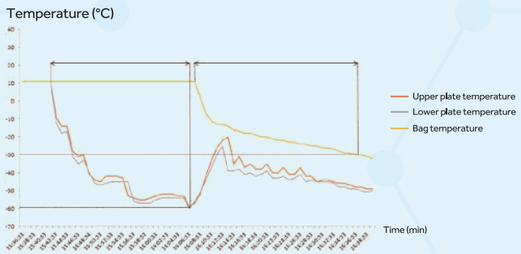
Optional Accessories

Trolley

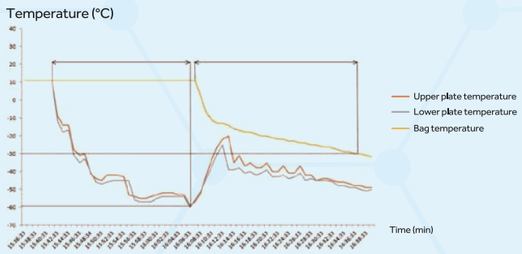


Tray

Temperature Curve



XSD-24WFL



XSD-48WFL

Model	XSD-24WFL	XSD-48WFL
Freezing Capacity (Plasma Bag)	16 at 1000ml /24 at 400ml /40 at 200ml	32 at 1000ml /48 at 400ml /80 at 200ml
Freezing Plate Temperature (°C)	-59	-59
Storage Temperature (°C)	Manual Adjustment Between -30° to -50°	Manual Adjustment Between -30° to -50°
Freezing Time to Core Temperature of -30 °C	24 unit (450ML) ±30min 16 unit (1000ML) ±45min	48 unit (450ML) ±30min 32 unit (1000ML) ±45min
Defrosting	Integrated thermal defrosting, defrosting delay time about 10 minutes; Defrost for 15 minutes.	Integrated thermal defrosting, defrosting delay time about 10 minutes; Defrost for 15 minutes.
Noise Level (db(A))	≤40	≤40
Refrigerant Type	R507	R507
Cooling Type	Forced Air Cooling	Forced Air Cooling
Operating Voltage Range	3~380V/50Hz(60Hz)	3~380V/50Hz(60Hz)
Power (W)	7000	14000
Dimension of Indoor Machine (W*D*H)(mm)	Open Status: 1455*915*1665 Close Status: 1455*915*1465	2040*880*1895mm
Pakcing Demension of Indoor Machine (W*D*H)(mm)	1570*1000*1620	2205*1105*2100
Dimension of Outside Machine (W*D*H)(mm)	1340*760*1640	1340*760*1640
Packing Demension of Outdoor Machine (W*D*H)(mm)	1595*910*1998	1595*910*1998
Net Weight of Indoor Machine(kg)/Gross Weight	320/380	640/720
Net Weight of Outside Machine(kg)/Gross Weight	360/410	360*2/410*2
GWP	3985	3985

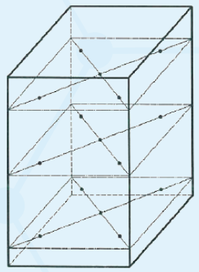
Platelet Incubator with Agitator

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.

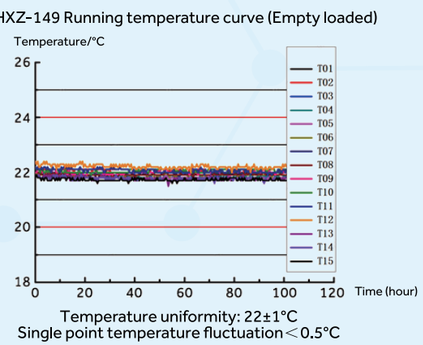
HXZ-149

HXZ-1369

Product Performance



HXZ-149 15 test points



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

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

Follow the QR code and learn more about the
Platelet Incubator with Agitator from Haier Biomedical

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 control from Touch Screen

Adjust Oscillation Frequency (30-100 cycles/minute) to meet the customer needs

Robust Structure

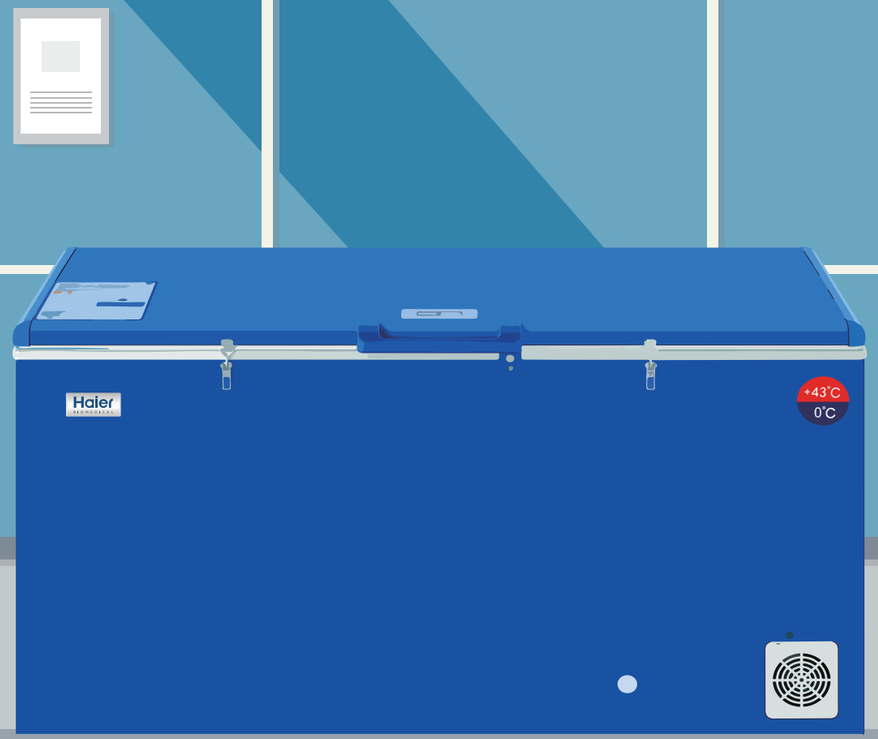
Internal material is stainless steel 304 and External material is powder coated cold-roll steel sheets without sharp edges, easy to disinfect

Specifications

Model			HXZ-149	HXZ-1369
Performance	Temperature Range (°C)		20-24	20-24
	Ambient Temperature (°C)		10-32	10-32
	Amplitude		50±5mm Amplitude	50±5mm Amplitude
	Display Accuracy (°C)		0.1	0.1
	Noise		50	55
	Variable Agitation Speed (cycles/min)		30-80	30-80
Control	Controller		Microprocessor	Microprocessor
	System Temperature Control		Peltier Technology (Semi-Conductor Heating and Cooling)	Peltier Technology (Semi-Conductor Heating and Cooling)
	Display		LCD	LCD
Electrical Data	Power Supply (V/Hz)		200-240/50	200-240/50
	Power (W)		300	1500
Dimensions	Capacity (L/Cu.Ft)		149/5.26	1369/48.35
	Blood Storage Capacity (300ml Blood Bags)		36	216
	Net/Gross Weight (approx)	kg	94/122	412/480
		lbs	207/269	908/1058
	Interior Dimensions (W*D*H)	mm	505*560*610	1425*680*1455
		in	19.8*22*24	56.1*26.8*57.3
	Exterior Dimensions (W*D*H)	mm	625*795*1050	1545*915*1945
		in	24.6*31.3*41.3	60.8*36*76.6
	Packing Dimensions (W*D*H)	mm	718*815*1228	1610*995*2090
		in	28.3*36.2*48	63.4*39.2*82.08
	Container Load (20'/40'/40'H)		18/38/76	7/14/14
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
	Abnormal Oscillation Motor Alarm		Y	Y
Accessories	Caster		Y	Y
	Foot		Y	Y
	Porthole		Y	Y
	Baskets		N	N
	Shelves/Drawers		8	18
	Inner Doors		N	N
	USB Interface		Y	Y
	IoT Function		Optional	Optional
Others	Certification		CE	CE

Haier Biomedical
Intelligent Protection of Life Science

Vaccine Storages



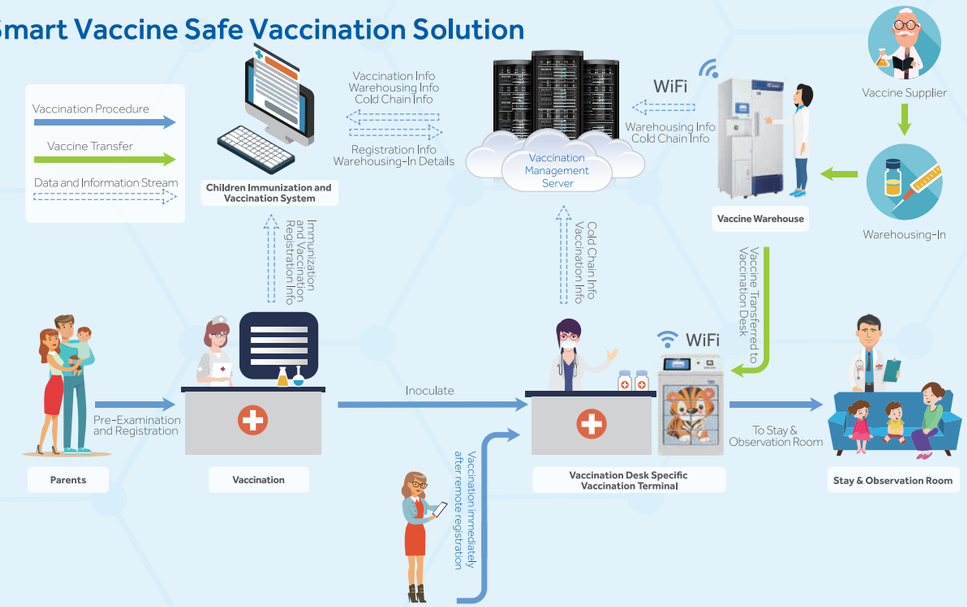
Smart Vaccine Refrigerator

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.

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 (℃)		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	/
Others	Registeration certification for medical equipment		Y	Y	/
	CE		Y	Y	/

Solar Direct Drive Combined Refrigerator/Freeze

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-160B

Product Features

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

Superior Performance

- Complies with WHO PQS specification Vaccine freeze protection classification: Grade A
- 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
- Double door sealing strips design and adjustable door lock catch to ensure superior insulation performance

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 indicates clearly the internal temperature.

Shelves

Equipped with 2 plastic dipping shelves (refrigerator), with large packing volume to meet different requirements

Casters and feet

4 one-way casters +2 bottom feet for easy movement and leveling.

Product Advantages

Environmental Protection

- Ultra low GWP value
- Without any battery
- 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

Ergonomic Design

- Safety door lock
- Intelligent control
- Low DC voltage ensures personal safety
- The height of the temperature display screen is moderate, and the inner temperature can be checked at any time
- Plug-and-play type quick plug, positive and negative pole error-proof
- Built-in handgrips on both sides of the cabinet facilitate overall movement
- The waterpack freezing capacity is 2.0kg/24h, meeting the daily requirement

Durable Construction Materials

Interior is made of aluminum oxide, the exterior is coated with cold rolled steel plate, easy to clean and corrosion-resistant

30-Day Electronic Temperature Logger

Easy to view data with a recording capacity of up to 30 days

Door Design

- Outer door: foamed outer door, dual sealing strips, good insulation performance
- Inner door: high density PE foamed inner door effectively reduces cold loss

Specifications

Model			HTCD-160B
Technical Data	Cabinet Type		Upright
	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
	Controller		Microprocessor
	Display		Solar LCD Temperature Display
	Power supply (V)		24
Control	Maximal Current (A)		6
	Energy Consumption: stable running (KWh/24h)		0.99
Electrical Data	Energy Consumption: cool down test (KWh/24h)		1.1
	Holdover time at 43°C		/
	Holdover time at 32°C		230hrs10mins
	Autonomy Time at 43°C		139hrs27mins
	Autonomy Time at 32°C		/
	At a Solar Radiation Reference Period of (kwh/m²/day)		3.5
Construction	Vaccine Storage Capacity (L/Cu.Ft)		100/3.5
	Gross Volume (L/Cu.Ft)		Refrigerator: 120/4.2 Freezer:40/1.4
	Net/Gross Weight (approx)	kg	150/186
		lbs	330/410
	Interior Dimensions (W*D*H)	mm	Cooling Chamber: 545*500*530 Freezer Chamber: 560*520*150
		in	Cooling Chamber: 21.5*19.7*20.9 Freezer Chamber: 22.0*20.5*5.9
	Exterior Dimensions (W*D*H)	mm	865*825*1695
		in	34.1*32.6*66.9
	Packing Dimensions (W*D*H)	mm	985*920*1860
		in	38.8*36.2*73.2
	Waterpack Storage Capacity(kg)		22.4
	Waterpack Freezing Capacity(kg/24h)		2
Loading Quantities	Container Load (20'/40'/40'H)		12/24/24
Alarm	High/Low Temperature		Y
	Sensor Error		Y
Accessories	Baskets		/
	Shelves		2 (Part)
Others	CE, WHO/PQS		Y

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 battery

High Performance

- Complies with WHO PQS specification E003
- Vaccine freeze protection classification: Grade A
- 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 waterpack freezing capacity is 2.4kg/24h, 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

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
Control	Controller		Microprocessor
	Display		Solar LCD Temperature Display
Electrical Data	Power supply(V)		24
	Maximal Current(A)		7
	Energy Consumption: stable running (KWh/24h)		0.858
	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
	Autonomy Time at 32°C		/
	At a Solar Radiation Reference Period of (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*654*875
		in	44.4*25.7*34.3
	Packing Dimensions (W*D*H)	mm	1190*770*1080
		in	46.9*30.3*42.5
	Container Load (20'/40'/40'H)		26/56/56
	Waterpack Storage Capacity(kg)		12.52
	Waterpack Freezing Capacity(kg/24h)		2.43
Alarm	High/Low Temperature		Y
	Sensor Error		Y
Accessories	Baskets		2 (Refrigerator Parts) & 2 Ice Holder (Freezer Parts)
	Shelves		/
Others	CE, WHO/PQS		Y

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

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 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
- 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

- Complies with WHO PQS specification E003
- Vaccine freeze protection classification: Grade A
- 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°C ~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
- Without any battery

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
	Defrost Mode		/	/	/
	Refrigerant		HC	HC	HC
	Sound Level (dB (A))		< 30	< 30	< 30
Performance	Temperature Range (°C)		2-8	2-8	2-8
Control	Controller		Microprocessor	Microprocessor	Microprocessor
	Display		Solar LCD Temperature Display	Solar LCD Temperature Display	Solar LCD Temperature Display
Electrical Data	Power supply(V)		24	24	24
	Maximal Current(A)		5	5	5
	Energy Consumption: stable running (KWh/24h)		0.688	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
	Autonomy Time at 32°C		/	/	145hrs29mins
	At a Solar Radiation Reference Period of (kwh/m²/day)		3.5	3.5	3.5
Construction	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	55/82	69/105	69/105
		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*21.9	21.5*13.6*21.9	21.5*13.6*21.9
	Exterior Dimensions (W*D*H)	mm	788*654*875	1128*654*875	1128*654*875
		in	31.0*25.7*34.4	44.4*25.7*34.4	44.4*25.7*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	High/Low Temperature		Y	Y	Y
	Sensor Error		Y	Y	Y
Accessories	Baskets		2 (Refrigerator Parts) & 2 Ice Holder (Freezer Parts)	4	4
	Shelves		/	/	/
Others	CE, WHO/PQS		Y	Y	Y

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
- Without battery

Superior Insulation Performance

- Complies with WHO PQS specification E003
- 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		/	/
	Refrigerant		HC	HC
	Sound Level (dB (A))		≤43	≤43
Performance	Temperature Range (°C)		2~8	2~8
Control	Controller		Microprocessor	Microprocessor
	Display		Solar LCD Temperature Display	Solar LCD 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
	Holdover time at 43°C		/	/
	Holdover time at 32°C		/	/
	Autonomy Time at 43°C		112Hrs24mins	95Hrs23mins
	Autonomy Time at 32°C		183hrs20mins	151hrs10mins
	At a Solar Radiation Reference Period of (kwh/m²/day)		3.5	3.5
Construction	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	High/Low Temperature		Y	Y
	Sensor Error		Y	Y
Accessories	Baskets		/	/
	Shelves		3	4
Others	CE, WHO/PQS		Y	Y

Ice Pack Freezer

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

HTD-40

High Performance

- Complies with WHO PQS specification E003
- 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
Control	Controller		Microprocessor
	Display		Solar LCD 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
	Holdover time at 43°C		/
	Holdover time at 32°C		/
	Autonomy Time at 43°C		/
	Autonomy Time at 32°C		/
	At a Solar Radiation Reference Period of (kwh/m²/day)		3.5
Construction	Vaccine Storage Capacity (L/Cu.Ft)		/
	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	Cooling chamber: 135*370*310 Freezer chamber: 265*370*555
		in	Cooling chamber: 3.3*14.6*12.2 Freezer chamber: 10.4*14.6*21.9
	Exterior Dimensions (W*D*H)	mm	788*654*875
		in	31.0*25.7*34.3
	Packing Dimensions (W*D*H)	mm	850*770*1080
		in	33.4*30.3*42.5
	Container Load (20'/40'/40'H)		36/78/78
Alarm	High/Low Temperature		N
	Sensor Error		Y
Accessories	Baskets		2
	Shelves		/
Others	CE, WHO/PQS		Y

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.

HTXC-240

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)
- Excellent autonomy time ensures the safety of blood
- Solar direct drive refrigerator without battery
- Environmentally friendly hydrocarbon refrigerant R600a and foam material LBA
- Electronic temperature controller, digital temperature display, the display precision is 0.1°C and the control range is 2°C~8°C
- Broad working ambient temperature range of 5~43°C
- Vertical structure, first-in first-out, easy operation
- Automatic drainage design

Specifications

Model			HTXC-120	HTXC-240
Technical Data	Cabinet Type		Upright	Upright
	Ambient Temperature (°C)		5~43	5~43
	Cooling Type		Direct Cooling	Direct Cooling
	Defrost Mode		/	/
	Refrigerant		HC	HC
	Sound Level (dB (A))		≤43	≤43
Performance	Temperature Range (°C)		2~8	2~8
Control	Controller		Microprocessor	Microprocessor
	Display		Solar LCD Temperature Display	Solar LCD 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
	Holdover time at 43°C		/	/
	Holdover time at 32°C		/	/
	Autonomy Time at 43°C		112Hrs24mins	95Hrs23mins
	Autonomy Time at 32°C		183hrs20mins	151hrs10mins
	At a Solar Radiation Reference Period of (kwh/m²/day)		3.5	3.5
Construction	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	890*825*1815
		in	34*32*56	35*32*71
	Packing Dimensions (W*D*H)	mm	980*920*1585	985*920*1980
		in	38.6*36.2*62.4	38.8*36.2*78
	Container Load (20'/40'/40'H)		12/24/24	12/24/24
Alarm	High/Low Temperature		Y	Y
	Sensor Error		Y	Y
Accessories	Baskets		9	12
	Shelves		3	4
Others	CE, WHO/PQS		N	N

Combined Refrigerator and Freezer

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.

HBCD-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 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 waterpack freezing capacity is 4.0kg/24h, meeting the daily requirement
- Broad working ambient temperature range of 5~43°C , outstanding performance

Ergonomic Design

- Intelligent control
- 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 (°C)		Freezer ≤-10 Refrigerator: 2~8
	Freezer Protection Level		A
Control	Controller		Microprocessor
	Display		Solar LCD Temperature Display
Electrical Data	Power Supply (V/Hz)		220V~240V/50Hz
	Power (W)		190
	Electrical Current (A)		1.5
	Power Consumption:stable running (KWh/24h)		0.7
	Power Consumption: cool down test (KWh/24h)		0.66
	Holdover Time at 43°C		63hrs48mins
	Holdover Time at 32°C		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*654*875
		in	44.4*25.7*34.4
	Packing Dimensions (W*D*H)	mm	1190*770*1080
		in	47*30*42.5
	Container Load (20'/40'/40'H)		26/56/56
	Waterpack Storage Capacity(kg)		16
	Waterpack Freezing Capacity(kg/24h)		4
Functions	High/Low Temperature		Y
	Power Failure		N
Accessories	Sensor Error		Y
	Foot		N
Others	CE, WHO/PQS		Y

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.

HBC-80/150/260

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

- Complies with WHO PQS specification E003
- 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(50/60Hz)		HBC-150(50/60Hz)		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
	Defrost Mode		/		/		/
	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 LCD Temperature Display		Solar LCD Temperature Display		Solar LCD Temperature Display
Electrical Data	Power Supply(V/Hz)		220~240/50	220V~240V (50/60Hz)	220~240/50	220V~240V (50/60Hz)	220V~240V (50/60Hz)
	Power(W)		110	140	120	150	165
	Electrical Current(A)		1	1.3	1	1.5	1.4
	Power Consumption: stable running(KWh/24h)		0.57	0.55	0.54	0.72	1.47
	Power Consumption: cool down test(KWh/24h)		0.63	0.65	0.62	0.76	1.62
	Holdover Time at 43°C		59hrs51mins	57hrs34mins	60hrs50mins	57hrs34mins	62hrs
	Holdover Time at 32°C		98hrs26mins	/	96hrs23mins	/	117hrs24mins
	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
Dimensions	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*654*875		1128*654*875		1650*654*940
		in	31*25.7*34.4		44.4*25.7*34.4		64.8*25.7*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
Functions	High/Low Temperature		Y		Y		Y
	Power Failure		N		N		N
Accessories	Sensor Error		Y		Y		Y
	Foot/Castor		N		N		Y
Others	CE, WHO/PQS		Y		Y		Y

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

- Complies with WHO PQS specification
- 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
	Defrost Mode		/	/
	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 LCD Temperature Display	Solar LCD Temperature Display
Electrical Data	Power Supply (V/Hz)		220V~240V (50/60Hz)	220V~240V (50/60Hz)
	Power (W)		145	145
	Electrical Current (A)		1	1
	Power Consumption: stable running (KWh/24h)		0.4	0.44
	Power Consumption: cool down test (KWh/24h)		0.35	0.4
	Holdover Time at 43°C		128hrs48min	87h14min
	Holdover Time at 32°C		185H	165H
	Vaccine Storage Capacity(L/Cu.Ft)		100/3.6	200/7.2
	Gross Volume (L/Cu.Ft)		120/4.3	240/8.5
Dimensions	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*1820
		in	35.04*32.64*56.10	35.04*32.64*71.65
	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
Functions	High/Low Temperature		Y	Y
	Power Failure		N	N
Accessories	Sensor Error		Y	Y
	Foot/Castor		Y	Y
Others	CE, WHO/PQS		Y	Y

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 -25°C to -15°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		0~43	0~43
	Cooling Type		Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual
	Refrigerant		HC	HC
	Sound Level (dB (A))		40.6	39.3
Performance	Temperature Range (°C)		-25~-15	-25~-15
Control	Controller		Microprocessor	Microprocessor
	Display		LCD	LCD
Electrical Data	Power Supply (V/Hz)		220~240V 50/60Hz	220~240V 50/60Hz
	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)	More than11hrs25min (up to -5°C)
Dimensions	Vaccine Storage Capacity (L/Cu.Ft)		61/2.2	211/7.5
	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
	Waterpack Storage Capacity(kg)		61	211
	Waterpack Freezing Capacity(kg/24h)		17.6	32.4
Accessories	Foot/Castor		N	N
	Sensor Error		Y	Y
	Baskets		3	9
Others	CE, WHO/PQS		Y	Y

Voltage Stabilizer

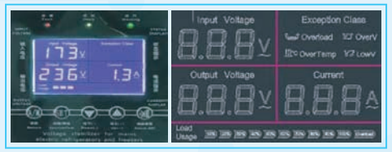
Scope of Application

The HVS-1000U voltage stabilizer is developed, designed and manufactured according to the latest PQS standards. The product consists of single-phase multi-tap dry type transformer, relay integrated board, single-chip intelligent detection board and supporting display, external protection and control circuit. The voltage stabilizer central control system adopts single-chip intelligent control, which highlights the safety, reliability and stability of the voltage stabilizer under bad power supply conditions. With intelligent control, high safety, high reliability and other significant advantages!
IoT modules can be selected to remotely view the power supply and power quality analysis, and achieve remote alarm of abnormal situations.

HVS-1000U

Fundamental Functions

- Requires no maintenance
- Microprocessor controlled stabiliser
- Very wide input withstand range (0-500V)
- Meet the latest WHO/PQS standards (VS01.6)
- With LCD screen, display input/output/working status information

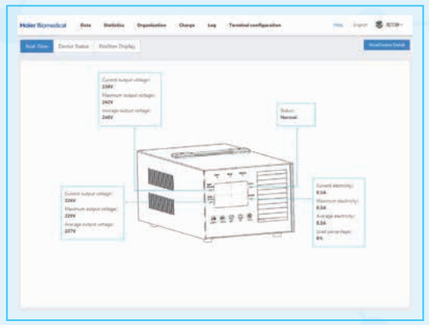


- Fault record/protection record, can be viewed locally
- Frequency real-time detection, out of range protection
- Record the number of relay actions, which can be viewed locally
- The IoT function is optional to remotely view and analyze power supply information
- The product integrates a microcontroller-based intelligent detection board and a display, and the operation panel has been equipped with parameter setting buttons so that users or technicians can modify the working parameters of the voltage stabilizer.

Specifications

Model	HVS-1000U
Output Voltage Range (V)	230 ±10%
Input Voltage Range (V)	110-264 AC
Continuous Input Withstand Range (V)	0-500 AC
Input Frequency (Hz)	47-63
Display	Output Voltage/Input Voltage/Current Value/Alarm State
Protection Function	Overvoltage, overcurrent, undervoltage, overload, over frequency, under frequenc; Short circuit, high temperature
Packing Dimension (W*D*H)(mm)	450*370*300
Gross Weight (kg)	11

IoT modules can be selected to remotely view the power supply and power quality analysis, and achieve remote alarm of abnormal situations.



Walk-In Cold/Freezer Room

Application Scenario

The storage temperature of 2-8°C and -20°C is suitable for vaccine storage in CDC, hospitals,inoculation sites and other places.

Solution of Vaccine Cold Room-Mono Block Unit Cold Room

- The inner temperature is kept constantly at 2 ~ 8°C (or -25~-15°C).
- Dual refrigeration systems, one system can backup the other system, extremely safe.
- The refrigeration system has a variety of protection functions for start delay, overheat, overload, high and low pressure,over-voltage,under-voltage, etc.
- Automatic defrosting by electric or hot gas.
- Over temperature alarm, and power failure alarm.
- Complies with WHO PQS specification.

Specifications

Insulation System

· Stainless steel eccentric locking device is embedded under the insulation plate. The room is connected in hexahedral locking method which makes the room solid with good insulation effect

· Double-sided color steel plate, the intermediate insulation material is rigid high pressure foaming fluorine-free polyurethane. Stainless steel panel is optional

· Cold room plate thickness: 100mm; Freezer room plate thickness: 120mm; Steel plate thickness: 0.5mm; Polyurethane density: 42kg/m3; Thermal conductivity: ≤0.021W/(m.k); Adhesive strength: 0.14 MPa; Compressive strength: 258kPa; Bending bearing capacity: 5.67mm

· Door dimension 800*1975*100mm. Semi-buried design provides good insulation effect and the size of the door can be customized

· The door is equipped with anti-lock device to prevent the personnel from being locked in the warehouse

Refrigeration System

· Dual refrigeration system is safe and reliable, which will automatically switch to the other system when failure occurs to one

· Dual system will switch regularly so that uniform wear of refrigeration unit will prolong the service life of the unit

· Fluorine-free refrigerant: R448A, ODP: 0

· Automatic defrosting by electric or hot gas

· The technology of liquid-subcooling and exhaust-precooling via defrosting water is adopted to save energy

Shelves

· The main body of the shelf is designed with aluminum profile, and the partition is made of stainless steel. Overall strong and durable to prevent corrosion

· The shelf has 5 layers of partitions, and the distance between the partitions can be adjusted

Illumination

· Equipped with three-proof LED lights, water-proof grade ≥IP68

· The illumination on the vertical surface of the lowest shelf ≥150Lux

Accessories

· 3mm thick non-slip embossed aluminum plate improve the compressive and wear resistance of the cold room floor and extends its service life

· PVC curtain can reduce the leakage of cold air when opening the door and reduce temperature fluctuation

Parameter--Cold/Freezer Room

Monobloc										
Product Category	WIC (10 cbm)	WIF (10 cbm)	WIC (20 cbm)	WIF (20 cbm)	WIC (30 cbm)	WIC (30 cbm)	WIC (40 cbm)	WIF (40 cbm)	Combi. 40 cbm WIC/WIF	
									WIC (25 cbm)	WIF (15 cbm)
Model	ZK-G10AWX01U	ZK-D10AWX01U	ZK-G20AWX01U	ZK-D20AWX01U	ZK-G30AWX01U	ZK-D30AWX01U	ZK-G40AWX01U	ZK-D40BWX01U	ZK-D40AWX01U	
External Dimension (L*W*H)(m)	2*2.6*2.6	2*2.88*2.6	3.84*2.5*2.6	3.84*2.6*2.6	4.8*2.93*2.6	4.8*3*2.8	4.8*3.8*2.6	4.8*3*2.8	5.2*3.8*2.6	
Interior Dimension (L*W*H)(m)	1.8*2.4*2.4	1.7*2.58*2.3	3.64*2.3*2.4	3.6*2.36*2.36	4.6*2.73*2.4	4.5*2.9*2.5	4.6*3.6*2.4	4.5*3.6*2.5	4.96*3.56*2.36	
WHO PQS Code	E001/003									
Refrigerant	R448A									
Defrost Mod	Hot Gas Defrost									
Internal Temperature Range (°C)	2~8	-20	2~8	-20	2~8	-20	2~8	-20	-20	
Power Supply (V/ph~Hz)	220/1N~/50	220/1N~/50	220/1N~/50	380/3N~/50	380/3N~/50	380/3N~/50	380/3N~/50	380/3N~/50	380/3N~/50	
Power (W)/ Unit	894	1057	1285	1670	1590	2200	1590	2950	1670	
Refrigeration Output (W)/ Unit	1425	1330	2427	2090	3700	3030	3700	4290	2090	
Condensation Temperature (°C)	43									
Density (Kg/Cbm)	40+/-2									
Insulation Thickness (mm)	100	150	100	120	100	150	100	150	120	

Split										
Product Category	WIC (10 cbm)	WIF (10 cbm)	WIC (20 cbm)	WIF (20 cbm)	WIC (30 cbm)	WIC (30 cbm)	WIC (40 cbm)	WIF (40 cbm)	Combi. 40 cbm WIC/WIF	
									WIC (25 cbm)	WIF (15 cbm)
Model	ZK-G10AWX02U	ZK-D10AWX02U	ZK-G20AWX02U	ZK-D20AWX02U	ZK-G30AWX02U	ZK-D30AWX02U	ZK-G40AWX02U	ZK-D40BWX02U	ZK-D40AWX02U	
External Dimension (L*W*H)(m)	2*2.6*2.6	2*2.88*2.6	3.84*2.5*2.6	3.84*2.6*2.6	4.8*2.93*2.6	4.8*3*2.8	4.8*3.8*2.6	4.8*3.9*2.8	5.2*3.8*2.6	
Interior Dimension (L*W*H)(m)	1.8*2.4*2.4	1.7*2.58*2.3	3.64*2.3*2.4	3.6*2.36*2.36	4.6*2.73*2.4	4.5*2.9*2.5	4.6*3.6*2.4	4.5*3.6*2.5	4.96*3.56*2.36	
WHO PQS Code	E001/003									
Refrigerant	R448A									
Defrost Mod	Electrical Heating									
Internal Temperature Range (°C)	2~8	-20	2~8	-20	2~8	-20	2~8	-20	2~8	-20
Power Supply (V/ph~Hz)	380/3N~/50	380/3N~/50	380/3N~/50	380/3N~/50	380/3N~/50	380/3N~/50	380/3N~/50	380/3N~/50	380/3N~/50	380/3N~/50
Power (W)/ Unit	1260	1540	1260	1670	1590	2200	1860	2950	1590	1670
Refrigeration Output (W)/ Unit	2510	1660	2510	2090	3700	3030	4600	4290	3700	2090
Condensation Temperature (°C)	43									
Density (Kg/Cbm)	40+/-2									
Insulation Thickness (mm)	100	150	150	120	100	150	100	150	120	

Solar Direct Drive Cold Room

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.

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.

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 m^3 solar cold room can save 700 USD in electricity bills per year (the electricity bill is based on 0.14 USD/1kWh).

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.

Compared with ordinary cold rooms using generators for power supply, Haier Biomedical's SDD cold room has less noise and no fuel costs.

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.

Environmentally friendly design

Uses environmentally friendly refrigerant R1234yf, GWP=4,ODP=0 The main refrigeration system does not use batteries.

Solar Direct Drive Cold Room

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.

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.

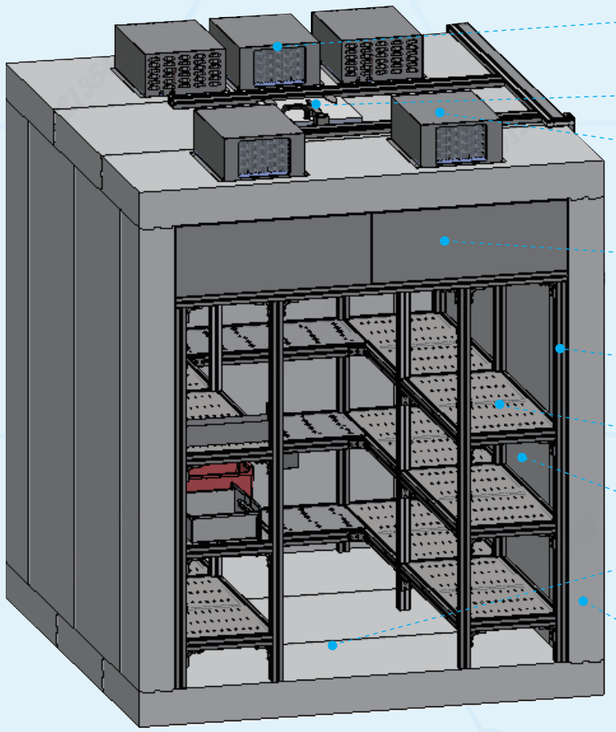
Safety system

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.

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.

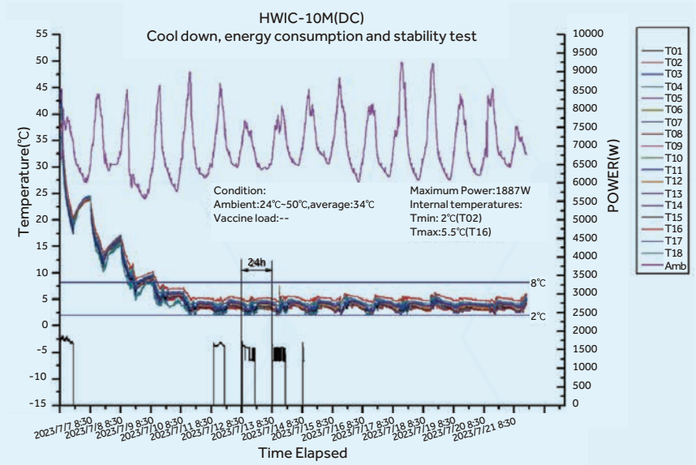
Product Parts



- 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

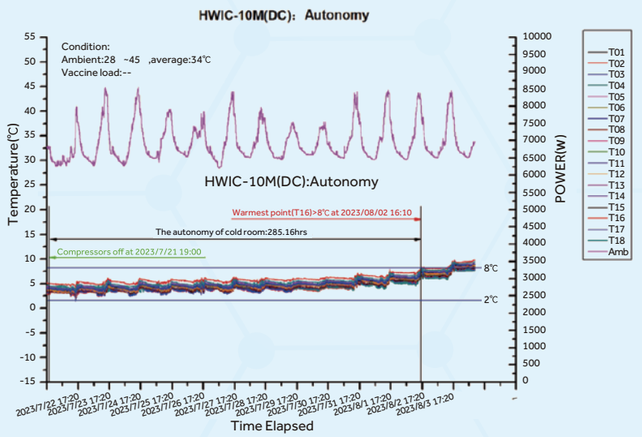
Test Conclusion:

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

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.

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: -40°C ~ +65°C (NTC) -200°C ~ +150°C (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

U-COOL Remote Temperature Monitoring Device

For the real-time temperature monitoring of activities including the warehousing, distribution and laboratory preparation and storage of medicines, vaccines, blood, reagents, biological products and tissues etc. Primarily focused on cold storage from -196°C to +8°C, it can also be used for incubators, climate chambers and drying ovens up to +150°C.

U-COOL-PRO

Innovative Design

- Remote platform monitoring
- LBS base station positioning
- Sensor is user configurable, and automatically uploads data to the online portal
- High accuracy
- User configurable
- Unplug and replace sensors as required
- Support 4G/3G/2G signal
- Live sensor location can be displayed on GoogleMaps
- USB data export
- The device supports a local sound/light alarm
- One full charge, more than 5 days of battery life (In good signal area)

Specifications

Item	Specifications
Model	U-Cool-Pro
Temperature Sensor	2 Pluggable Digital temperature sensors (or PT100 optional)
Temperature Range	NTC sensor: -40°C~+65°C PT100 sensor(optional): -200°C~+150°C
Accuracy	NTC sensor:±0.5°C within 0°C to +65°C, ±1°C within -40°C to +0°C PT100 sensor (optional) ±0.3°C
Door Sensor	1 Pluggable Reed Switch sensor
Battery	Lithium battery: 4000mAh
Alarm	Audio-visual: buzzer + LED light
Map Location	Google map and LBS (Location Based Service-Mobile Base Station Positioning)
USB	Micro USB: download data /charging
Material	Shell: PC
IP	IP64
Dimension	112mm*75mm*21mm
Communication Network Mode	4G/3G/2G
Charging Voltage	5V~12V
Charging Current	≤1A
Working Current	≤2A
Working Temperature	-10°C~+55°C
SIM Card	Micro SIM Card
USB	Micro USB, supports charging; When the device is turned off, it can be connected to the computer as a Flash drive to export data in PDF/TXT format. When the device is turned on, it can be connected to the computer as a virtual serial port, which can then be configured using the configuration tool.

U-COOL Remote Temperature Monitoring System

For the real-time temperature monitoring of activities including the warehousing, distribution and laboratory preparation/storage of medicines, vaccines, blood, reagents, biological products and tissues etc. Primarily focused on cold storage from -196°C to +8°C, they can also be used for incubators, climate chambers and drying ovens up to +150°C. Can also monitor power/door status and humidity.

YB-HC600-01
Temperature Data Logger

YB-HC600-02
Door On-off Monitor

YB-HC600-03
Power Outage Monitor

YB-HZ600-01
Smart Gateway

Innovative Design

- LoRa wireless ad hoc network communication technology, strong adaptability
- Smart gateway with backup battery, supports data breakpoint with continued transmission
- Sensors are battery powered, with an expected battery life of up to 3 years
- Real-time display of measurement data
- Suitable for monitoring temperature, door and power status

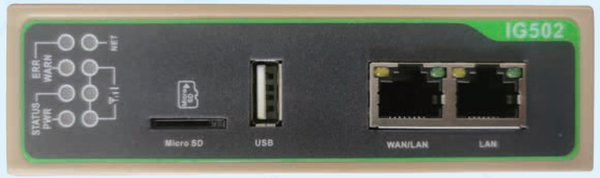
Technical Parameters

Product	Temperature Data Logger	Door On-off Monitor	Power Outage Monitor
Model	YB-HC600-01	YB-HC600-02	YB-HC600-03
Sensor	One line (5m) digital sensor	One line (3m) digital sensor	One line (3+3m) digital sensor
Measuring Function	Temperature Range: NTC Sensor: -40°C~+80°C PT100 Sensor (optional): -199°C~+199°C Precision: 0.1°C Accuracy: ±0.5°C	Door open-close monitoring	Power supply monitoring
Dimension (H*W*D mm)	125*73*23		
Battery	3.6V/5400mAh		
Communication	LoRa		
Display	LCD display, real-time display of measured data, such as battery level, signal strength, etc.		
Local-storage	Local storage data of 60000 sets and it supports breakpoint continued transmission		

Product	Smart Gateway
Model	YB-HZ600-01
Transit Network	4G SIM card/LAN
Maximum Number of Transmitters That Can Be Used (pcs)	60
Dimension (W*H*D mm)	160*100*33
Battery	3.7V/10000mAh
Communication	LoRa
Local-storage	60000 sets

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

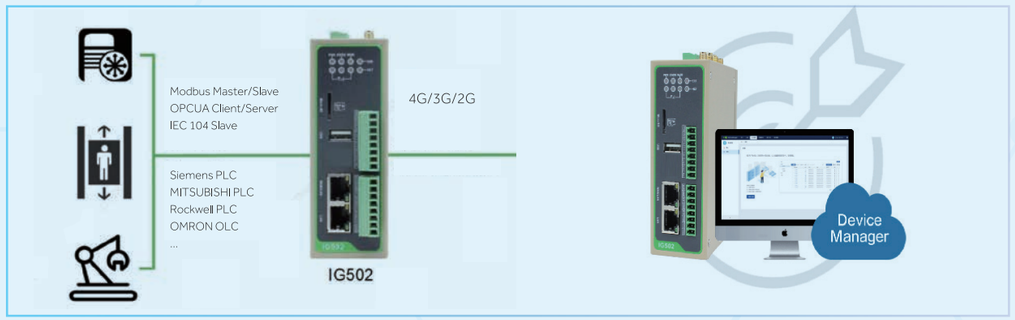
Uninterrupted and highly reliable connectivity through the 2G/3G/4G network, with data uploaded to the cloud-based monitoring platform.

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.

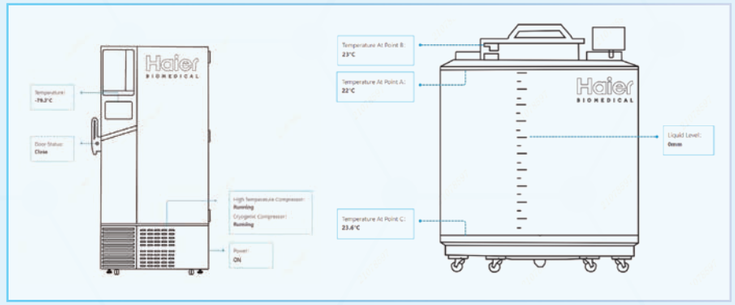
Purposely Designed for Industrial Scenarios

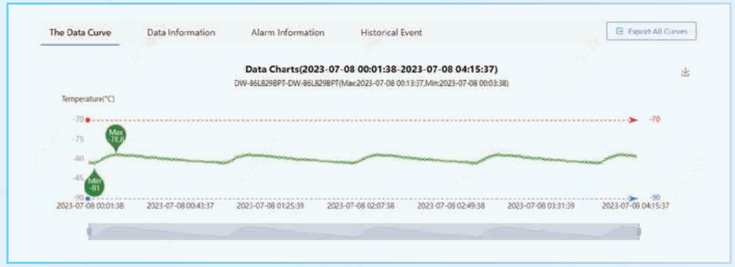
EMC level 3, IP30 protection rating, and wide temperature and voltage ranges make it enduring in challenging environments.



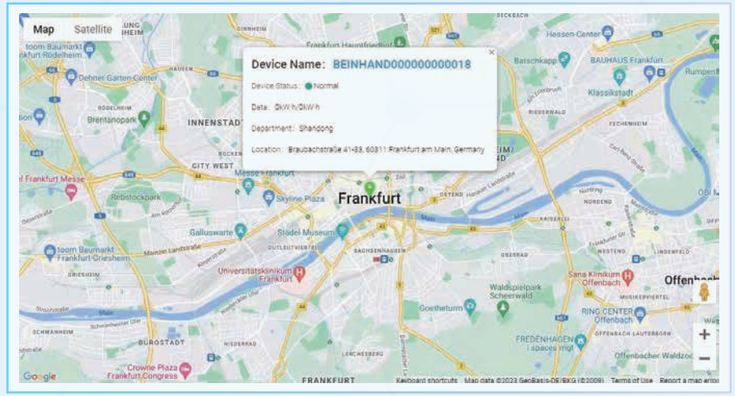
Equipment Management

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

	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.

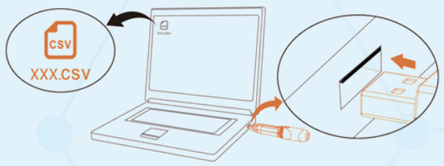
30-Day Electronic Temperature Logger

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 Prequalified
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

Haier Biomedical

Intelligent Protection of Life Science

Clean Air Solutions

CLEAN AIR SOLUTIONS

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.

Designed with dual DC centrifugal fans to ensure stable air flow and reduce noise. Air speed is quick and easy to adjust

The hot-ball anemometer monitors the air speed in the working area and exhaust area of the safety cabinet in real time, then compares this with the standard air speed. The rotating speed of the fan is adjusted through the microprocessor system to maintain the constant air speed of the safety cabinet

LCD screen:
Digital display of running status, abnormal operation conditions alarm, filter and UV lamp service life warning function,UV lamp timing function and interlock technology

Adjustable height stand (optional)

One-piece arm rest, comfortable to use and relieves fatigue

The ergonomic 10 °inclination of the cabinet makes the operation more comfortable and the vision clearer

Designed with an ultra-high efficiency filter to provide air flow with ultra-high cleanliness in the working area, reaching the US standard Fed STD 209E class 1

2 Electrical Sockets Waterproof sockets with timing technology allows user to program timed on/off function

UV Lamp:
In addition to the standard opening method,timed on/off unction is added, the sterilization time can be preset according to user needs

Universal casters with built-in threaded support feet

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 dispay 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.

Smart IoT Series Biological Safety Cabinet

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

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.

Follow the QR code and learn more about the Smart IoT Series Biological Safety Cabinet from Haier Biomedical

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

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

Follow the QR code and learn more about the Biological Safety Cabinet from Haier Biomedical

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

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

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.

Mini Biological Safety Cabinet

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

Follow the QR code and learn more about the Mini Biosafety Cabinet HR700-IIA2 from Haier Biomedical

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

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

Follow the QR code and learn more about the
Classic Series Biological Safety Cabinet from Haier Biomedical

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
- The internal walls on three sides of operation area is constructed by a single plate, and the 12mm arc angle corner for optimal cleaning
- 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
- 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 volume of liquid tank is over 4L, designed with outlet valve for convenient cleaning and maintenance

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

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

Animal Containment Workstation

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

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

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

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

The air cleanliness conforms to Class 5 of the IS014644.1 Standard, and is better than Class 100 cleanliness requirements

Built-in lighting prevents exposure to fluorescent lamp to avoid eye stain

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

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

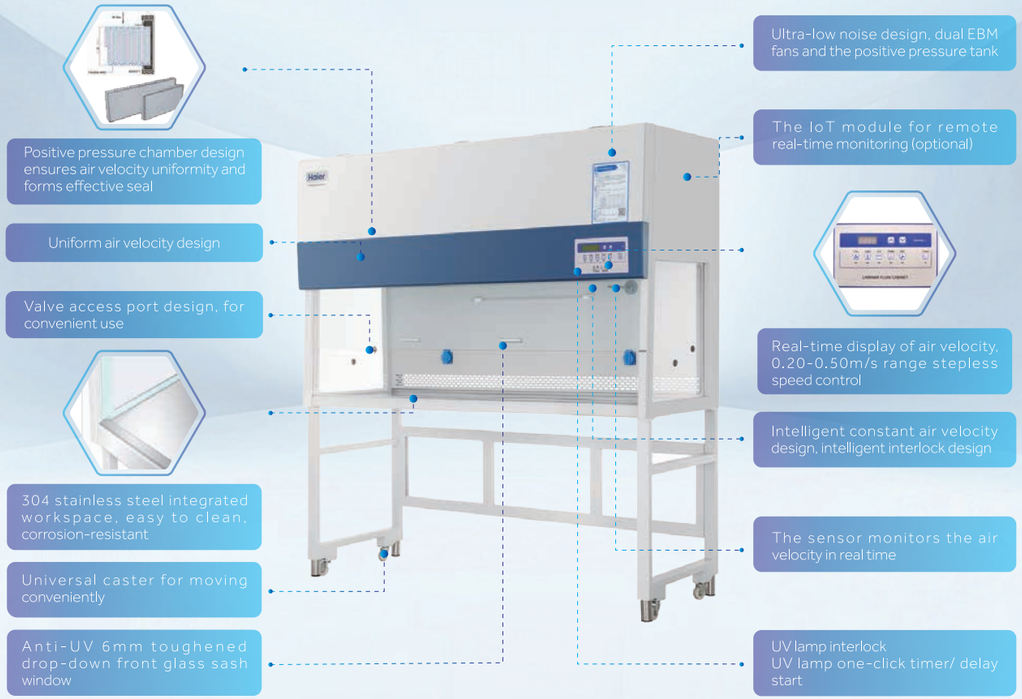
Laminar Flow Cabinet

Vertical Airflow
HCB-900V/1300V

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

Laminar Flow Cabinet



HCB-1300VS/1600VS

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		/	/

Ductless Fume Hood

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

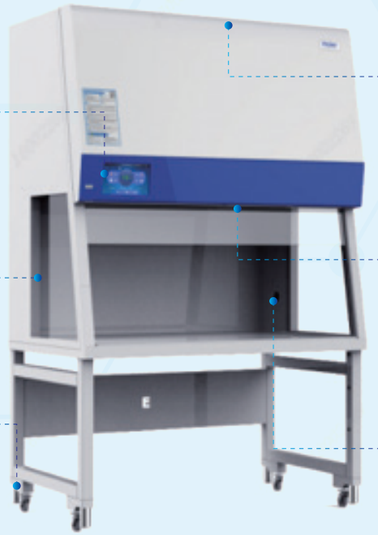
- Intelligent constant speed design, ensures the best adsorption effect of the filter
- Energy-efficient EC fan for a longer service life and reliable operation
- Offers a broad range of accessories and options to meet clients' different requirements
- Standard VOC sensor detects presence of volatile 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

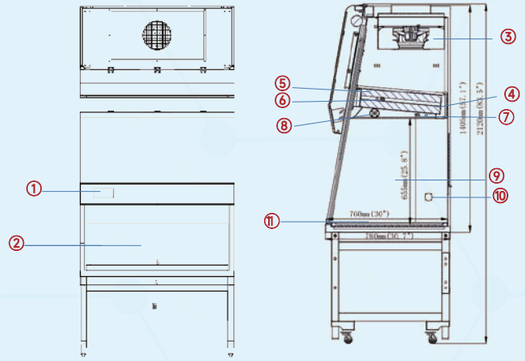
Electrically operated glass sash

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)
Others		CE	CE

Haier Biomedical
Intelligent Protection of Life Science

Incubators

CO_2 Incubator

Haier Biomedical CO_2 incubator with 180°C dry heat sterilisation provides a safe and secure reproducible growth environment for cell cultures.

HCP-80 (B) HCP-168 (B) HCP-258 (B)

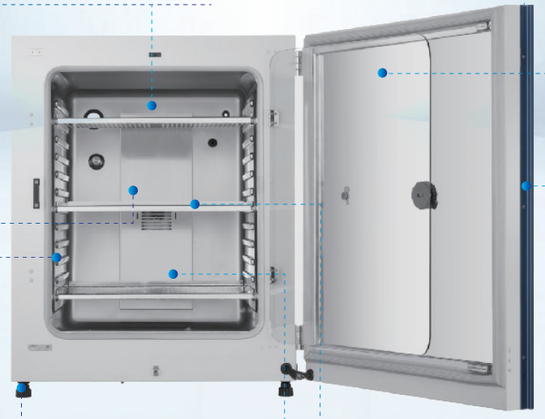
IR Sensitive Control of CO_2 Concentration

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



Inner Door

The door ensures the inside of the cabinet is sealed

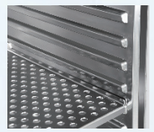
Outer Door

The heated outer door prevents the condensation of the inner door

Internal Partition

Safety anti-slip design of pull out shelves

304 Stainless Interior



Adjustable Feet

It can be double stacked

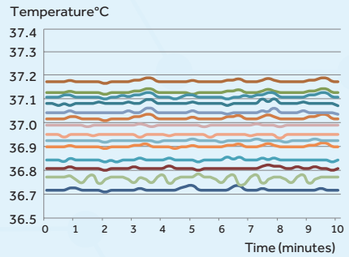
180°C Dry-heat Sterilization

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. The unit can withstand sterilization at 180°C with no disassembly and no manual calibration

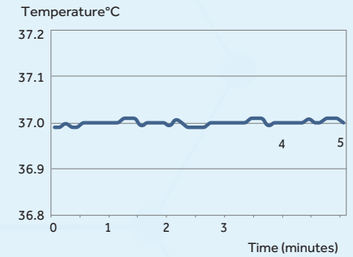
Follow the QR code and learn more about the CO_2 Incubator from Haier Biomedical

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

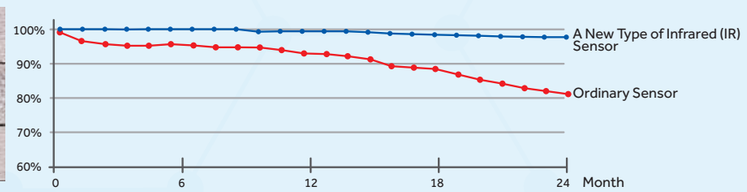


Central consistency point <±0.1°C

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 air flow 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.

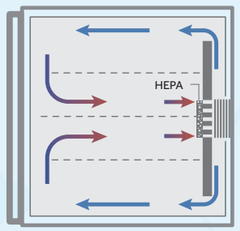
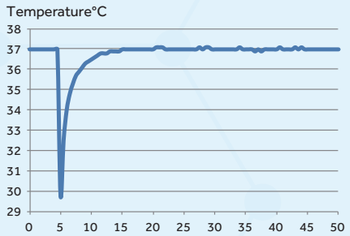
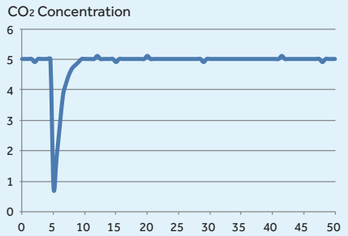


Illustration of purified airflow



Temperature recovery curve (door open for 30s)



CO_2 concentration recovery curve (door open for 30s)

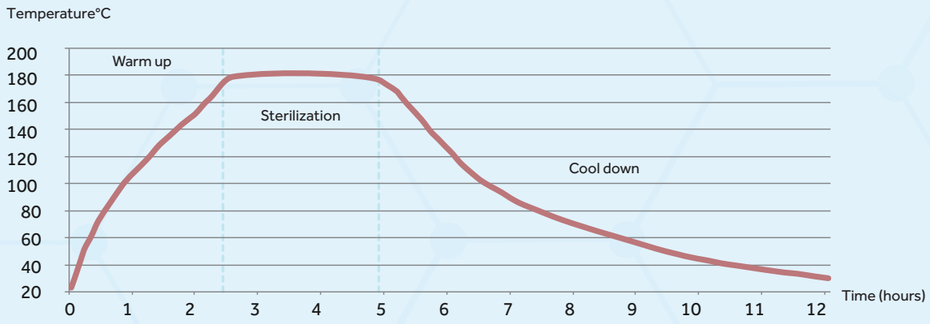
CO_2 Incubator

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

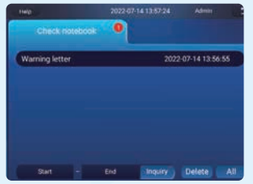
The working chamber is plasma electro polished, stamped stainless steel with wide-arc, laser welded corners. Bracketless shelving design ensures that it is quick and easy to clean.

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 designed 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 uploaded parameters, operation parameters, operation curves, records and event records through the IoT cloud platform. The operation of the incubator can be monitored anytime and anywhere through a computer terminal. Alarm function and service function are available through a 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, optimising the air flow to avoid air volatilization of samples and ensuring proper uniformity throughout the chamber.

Comprehensive Safety Alarm System

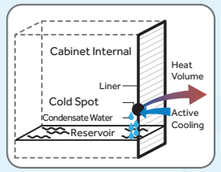
The system ensures the safety of experiments and processes by utilizing an independent temperature alarm system, including a sound light and remote reminder.

Other alarms include CO2 concentration, door ajar and water shortage.

CO_2 Incubator

Safe anti-slip design with pull out shelves.

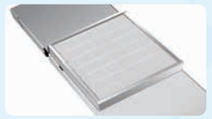
Drainage design



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.

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 (HCP-168/B)	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
4-20mA	The analog acquisition interface for carbon dioxide and oxygen concentrations Multiple incubators can have the temperatures and carbon dioxide concentration data of all the incubators monitored at one computer terminal
Liner	SUS 304 SUS 316 Pure copper

Specifications

	Model		HCP-80	HCP-80B	HCP-168	HCP-168B	HCP-258	HCP-258B
Type			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		/		42mm Diameter		35mm Diameter	
	Data Outputs		Remote Alarm Contacts, USB					
Dimensions	Net/Gross Weight (approx)	kg	75/95		95/130		110/155	
		lbs	165/209		209.4/286.6		243/341	
	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*1150	
		in	27.6*30.3*35.8		31.5*35.0*41.3		34.2*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					
	Construction		Perforated, Adjustable					
Electrical	Sterilization power (W)		850	750	1300	1100	1350	1200
	Rated Voltage Power Supply (V/Hz)		220-240/50/60	115/60	220-240/50/60	115/60	220-240/50/60	115/60
	Power 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					
	Display		7 "LCD Screen					
CO_2	Control Accuracy		0.10%					
	Range		0-20%					
	Alarm Range		±0.5%					
	Inlet Pressure		12-17Psi (0.8-1.2 Bar)					
	Gas Purity		min.99.5% or Medical Quaity					
	CO_2 Inlet		1/4" Hose (Barbed)					
	Senser		IR					
	Recovery Time ** (after 30s door opening ,98% from initial value) Min		4					
	CO_2 Inlet Filter (μm)		0.2					
Alarms	High/Low Temperature		Y					
	Remote Alarm		Y					
	Sensor Error		Y					
	Excessive CO_2 Concentration		Y					
	Water Shortage Reminder		Y					
	Door Ajar		Y					
Temperature Parameter	Control Accuracy (℃)		0.1					
	Range		Ambient Temperature+3-55℃					
	Uniformity		±0.3					
	Ambient range (℃)		18-32					
	Temperature Fluctuations (℃)		±0.1					
	Senser		2*PT1000					
	Recovery time *** (after 30s door opening ,98% from initial value) Min		4					
Sterilization Cycle	Cycle Temperature		180°C Dry-Heat Sterilization					
	Cycle Duration		Under 12 Hours					
Humidity	RH		93% ± 3% @ 37°C					
	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		Y		Y		Y	
	Humidity Display		N		Y		N	
	Oxygen Module		Y		Y		Y	
	Electromagnetic Lock		N		Y		N	
	heightening Stand		Y		Y		Y	
	IoT		Y		Y		Y	
Others	Certification		CE	UL	CE	UL	CE	UL

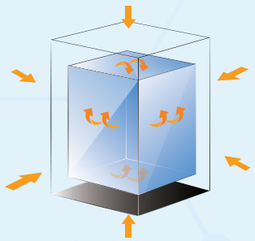
** For CO_2 not exceeding 5.2%
*** For temperature not exceeding 37℃

CO_2 Incubator

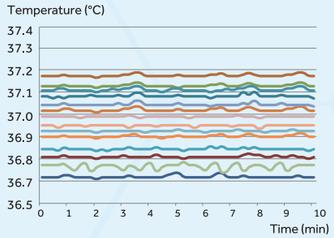
HCP-80E HCP-168E HCP-258E

Precise and Accurate Temperature Control

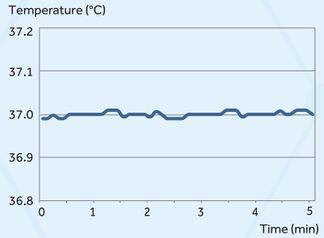
Controls the temperature precisely, within ±0.1°C, with six-sided heating based on the fuzzy PID control principle, to provide a stable temperature to ensure the normal growth of cells throughout their life cycle.



Six-sided heating



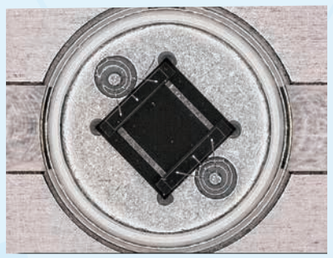
Uniformity of 27measuring points<±0.3°C



Central consistency point<±0.1°C

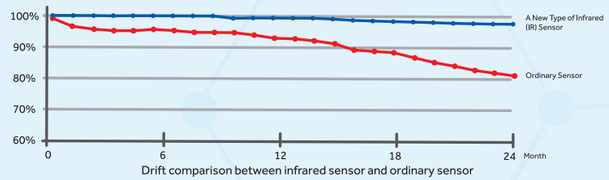
Precise CO_2 Concentration Using New IR Sensor Control Technology

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.

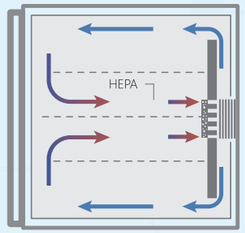
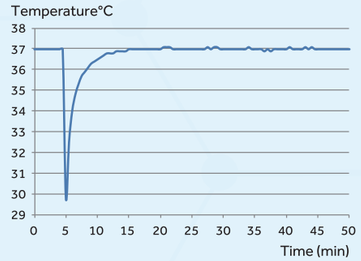
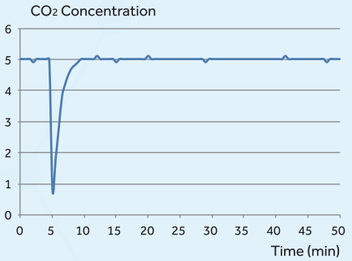


Illustration of purified airflow



Temperature recovery curve (door open for 30s)



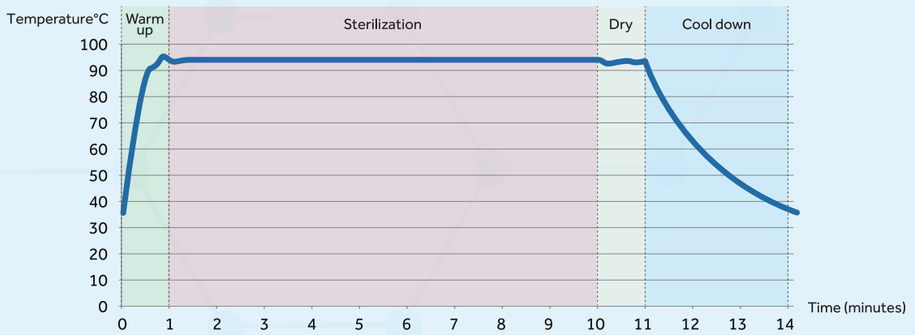
CO_2 concentration recovery curve (door open for 30s)

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

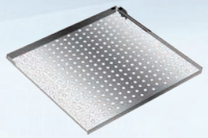
- The new IR sensor with high temperature resistance of 100°C, can withstand more than 300 high heat sterilization cycles
- Based on the NDIR measurement principle and uses a silicon MEMS transmitter to replace the traditional light source
- Zero drift and without need for calibration

Door Switch

When the door opens, heating, air intake and fan automatically stop to minimize the risk of cross contamination

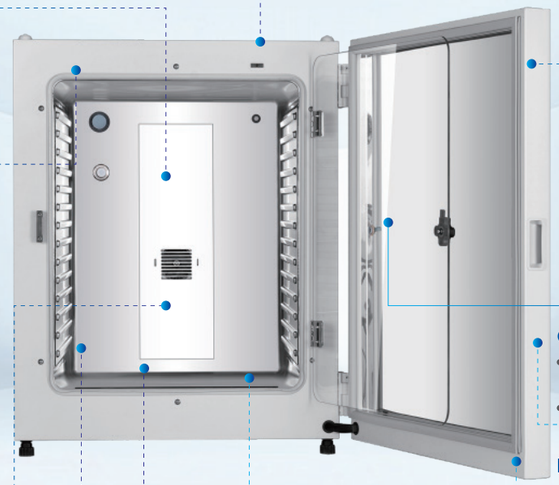
Partition

- 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

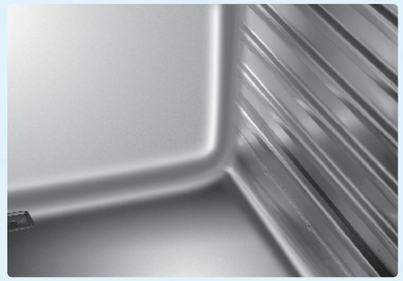
- Silicone material, prevent aging after heating
- Close the inner cavity to ensure the cleanliness and uniformity of the inner chamber

Bottom Reservoir Humidification

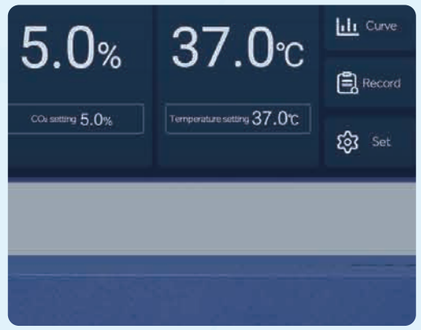
- Reservoir humidification method, no water tray, easy to clean, avoid breeding bacteria
- Large evaporation area and fast humidity recovery

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.



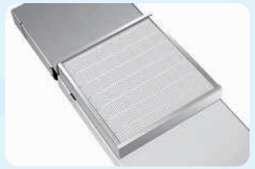
Innovative Design with Attention to Detail



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

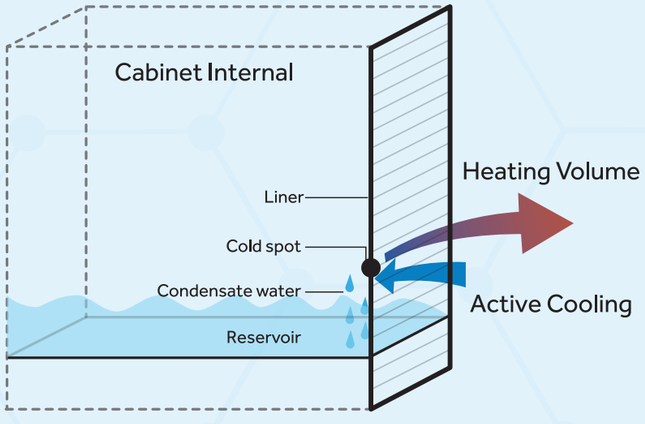


The optional HEPA high-efficiency filtration system combined with the unique air duct circulation design can continuously filter pollutants (biological pollutants and suspended particles) in the cabinet, ensuring that the incubator can reach the ISO class 5 clean room within 5 minutes after the external 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	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
4-20mA	The analog acquisition interface for carbon dioxide and oxygen concentrations Multiple incubators can have the temperatures and carbon dioxide concentration data of all the incubators monitored at one computer terminal
Liner	SUS 304 SUS 316 Pure copper

Specifications

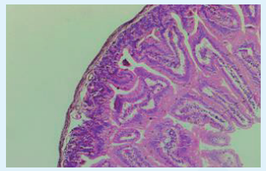
Model			HCP-80E	HCP-168E	HCP-258E
Type			Air Jacket		
Construction	Chamber Volume (L/Cu.Ft)		80/2.8	170/6.0	258/9.1
	Interior Chamber		304 Stainless Steel		
	Exterior Chamber		Cold-Rolled Steel Powder Coated		
	Access Port		/	42mm Diameter	35mm Diameter
	Data Outputs		Remote Alarm Contacts, USB		
Dimensions	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*1150
		in	27.6*30.3*35.8	31.5*35.0*41.3	34.2*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		
	Construction		Perforated, Adjustable		
Electrical	Rated Voltage Power Supply (V/hz)		220-240/50/60	220-240/50/60	220-240/50/60
	Power consumption (kw) (Steri-Run)		0.08 (1.0)	0.095 (1.5)	0.12 (1.8)
Control	Sterilization power (W)		1000	1500	1800
	Controller		Microprocessor		
	Display		4 inch LED Button Screen		
CO_2	Control Accuracy		0.10%		
	Range		0-20%		
	Alarm Range		±0.5%		
	Inlet Pressure		12-17PSI (0.8-1.2bar)		
	Gas Purity		Min.99.5% or Medical Quaity		
	CO_2 Inlet		1/8" Hose (Barbed)		
	Senser		IR		
	Recovery Time ** (after 30s door opening ,98% from initial value) Min		4		
	CO_2 Inlet Filter (μm)		<0.2		
Alarms	High/Low Temperature		Y		
	Remote Alarm		Y		
	Sensor Error		Y		
	Excessive CO_2 Concentration		Y		
	Water Shortage Reminder		N		
	Door Ajar		Y		
Temperature Parameter	Control Accuracy (°C)		0.1		
	Range		Ambient Temperature+3-55°C		
	Uniformity		±0.3		
	Ambient Range (°C)		18-34		
	Temperature Fluctuations (°C)		±0.1		
	Senser		1*PT1000		
	Recovery time *** (after 30s door opening ,98% from initial value) Min		4		
Sterilization Cycle	Cycle Temperature		90°C Moist Heat Sterilization		
	Cycle Duration		Under 14 Hours		
Humidity	RH		93% ± 3% @ 37°C		
	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		Y	Y	Y
	Humidity Display		N	N	N
	Oxygen Module		Y	Y	Y
	Electromagnetic Lock		N	N	N
	Heightening Stand		Y	Y	Y
	IoT		Y	Y	Y
Others	Certification		CE	CE	CE

** 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

Data traceability

Data traceable up to 15 years with base storage 8GB and data exportable through USB

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

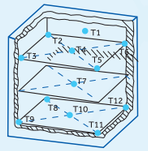
High thermal insulation performance, energy saving and environmental protection

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



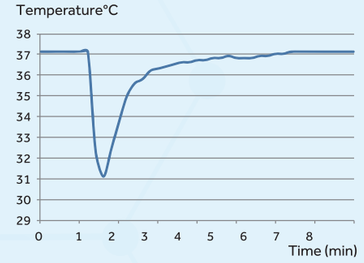
ASTM standard,
12 points testing

Based on PID control principle, manufactured with U-shaped 3-sided heating to achieve superior temperature control and uniformity control.

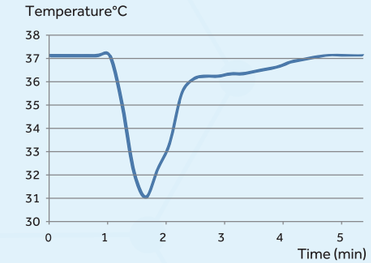
Rapid Recovery After Door Open

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

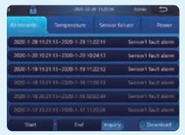


HFP-80

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.



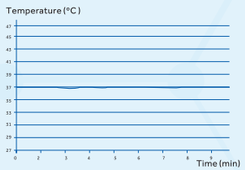
Records abnormal information in real time, eliminating any hidden abnormalities which ensures the culturing is more secure.

Multiple operating modes.

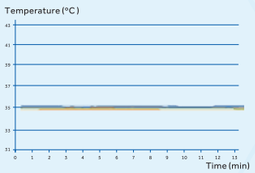
The program can be edited and set at any number of segments to meet the needs of various detection tests.

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.

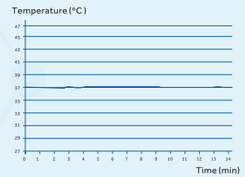


Temperature fluctuation ±0.1°C (37°C)

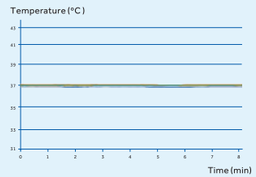


Temperature uniformity ±0.5°C (37°C)

HZP-168



Temperature fluctuation ±0.1°C (37°C)



Temperature uniformity ±0.3°C (37°C)

HFP-80

Standard Incubator

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.

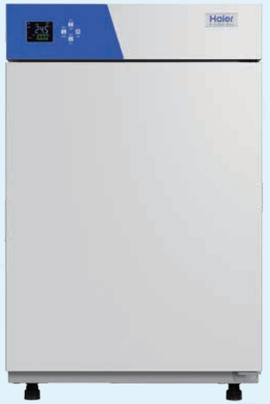
Product Parameters

	Model		HZP-168	HFP-80
Performance	Temperature Sensor		PT100	PT100
	Control Accuracy	°C	±0.1	±0.1
	Control Range	°C	RT+5~105	RT+5~105
	Temperature Fluctuation (37°C)	°C	±0.1	±0.1
	Temperature Uniformity (37°C)	°C	±0.5at 37°C	±0.3at 37°C
	Recovery Time After Open Door for 30s (37°C)	min	5	2.5
Control	Heating Mode		Direct heating	Direct heating
	Control Principle		Fuzzy PID	Fuzzy PID
	Display		7" LCD Touchscreen	7" LCD Touchscreen
Electrical	Power Supply (V/Hz)		220-240~50/60	220-240~50/60
	Power (W)		640	510
Construction	Capacity (L/Cu.Ft)		168/5.9	80/2.8
	Net/Gross Weight	kg	99/110	72/80
		lbs	217.8/242	158.4/176
	Interior Dimension (W*D*H)	mm	490*550*626	400*400*480
		in	19.3*21.7*24.6	15.7*15.7*18.9
	Exterior Dimension (W*D*H)	mm	650*782*1028	560*662*870
		in	25.6*30.8*40.5	22.0*26.1*34.3
	Packing Dimension (W*D*H)	mm	800*900*1200	720*770*1060
		in	31.4*35.4*47.2	28.3*30.2*41.6
	Shelves		2/17	2/12
	Shelf Capacity	kg	20	20
	Partition Spacing	mm	20	20
Alarms	High/Low Temperature		Y	Y
	Over-Temperature Protection		Y	Y
	Sensor Error		Y	Y
	Door Ajar		Y	Y
	End of Program		Y	Y
	Alarm Mode		Sound and Light / Buzzer	Sound and Light / Buzzer
Accessories	Mechanical Independent Temperature		Y	Y
	RS485		Y	Y
	USB		Y	Y
	IoT Module		Optional	Optional
Certification	CE		Y	Y

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.

HFP-168E



HZP-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

4-inch LED screen with simple operation and clear display

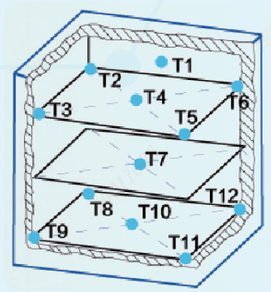
Standard independent intelligent temperature safety controller to ensure experimental safety

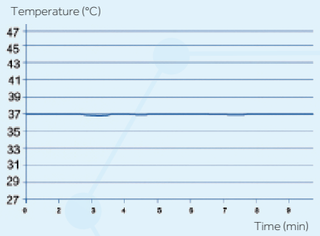
Smooth inner chamber with easy to clean rounded corners

Adjustable feet for easy positioning and levelling

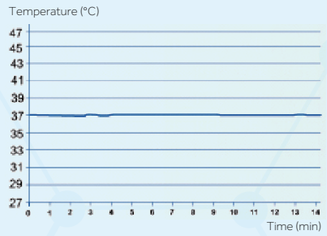
Precise Temperature Control

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°C





Temperature fluctuations±0.1°C
(HZP-80E)

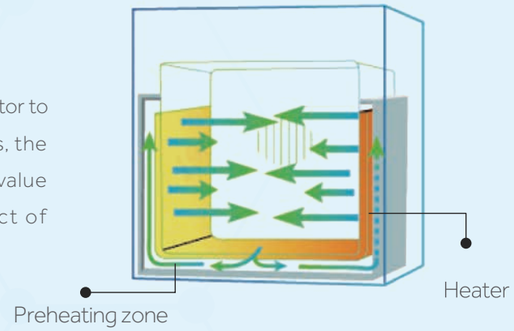


Temperature fluctuations ±0.1°C
(HFP-168E)

Climate Chamber

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



Product Parameters

	Model		HFP-168E	HZP-80E
Performance	Temperature Sensor		PT100	PT100
	Control Accuracy	°C	±0.1	±0.1
	Control Range	°C	RT+5-105	RT+5-105
	Temperature Fluctuation (37°C)	°C	±0.1	±0.1
	Temperature Uniformity (37°C)	°C	±0.3 at 37°C	±0.5 at 37°C
	Recovery Time After Open Door for 30s (37°C)	min	2.5	5
Control	Heating Mode		Direct heating	Direct heating
	Control Principle		Fuzzy PID	Fuzzy PID
	Display		4" Pen segment screen	4" Pen segment screen
Electrical	Power Supply (V/Hz)		220-240-50/60	220-240-50/60
	Power (W)		520	350
Construction	Capacity (L/Cu.Ft)		168/5.9	80/2.8
	Net/Gross Weight	kg	99/110	72/80
		lbs	217.8/242	158.4/176
	Interior Dimension (W*D*H)	mm	490*560*630	400*400*480
		in	19.3*21.7*24.6	15.7*15.7*18.9
	Exterior Dimension (W*D*H)	mm	650*780*1028	560*620*870
		in	25.6*30.8*40.5	22.0*26.1*34.3
	Packing Dimension (W*D*H)	mm	800*900*1200	720*770*1060
		in	31.4*35.4*47.2	28.3*30.2*41.6
	Shelves		2/17	2/12
	Shelf Capacity	kg	20	20
	Partition Spacing	mm	20	20
Alarms	High/Low Temperature		Y	Y
	Over-Temperature Protection		Y	Y
	Sensor Error		N	N
	Door Ajar		Y	Y
	End of Program		Y	Y
	Alarm Mode		Sound and Light / Buzzer	Sound and Light / Buzzer
Accessories	Mechanical Independent Temperature		Y	Y
	RS485		Optional	Optional
	USB		N	N
	IoT Module		Optional	Optional
Certification	CE		N	N

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

* test condition: 40°C, 75%rh

Precise control

Accurate temperature and humidity control, long-term stability, 40 °C temperature uniformity ±0.5°C and central temperature fluctuation ±0.2°C, 75% humidity fluctuation ±1%

* Ambient temp. 22°C, ambient humidity 40% RH

Power saving

Semiconductor technology means the daily power consumption is as low as 5kWh; 90% more energy efficient than compressor technologies

Product Parts

HHS-756

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

High precision temperature sensor, dual PT1000 sensors for more accurate temperature control

Optional electromagnetic lock, suitable for multiple users with independent management for safety

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

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

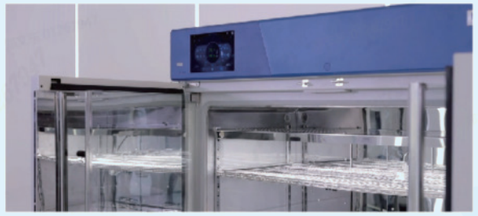
An access port with a diameter of 35mm on the left side of the cabinet to facilitate independent testing of temperature and humidity

High insulating performance polythene foam provides excellent insulation and stable cabinet temperatures reducing energy consumption

High precision capacitive humidity sensor

Climate Chamber

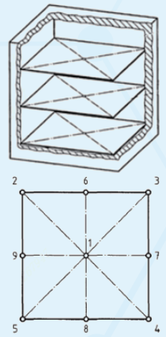
With ICH-compliant Light Source and Light-dose Control (optional)



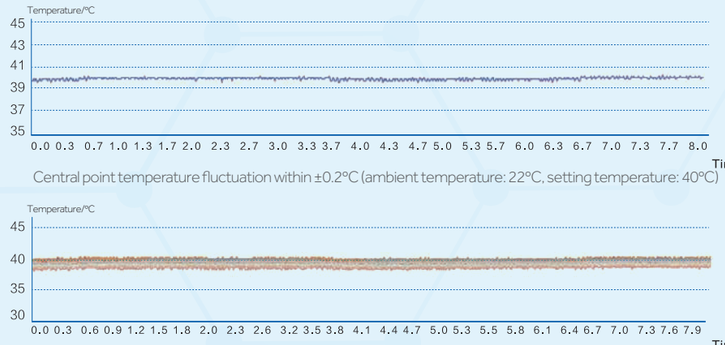
ICH compliant illumination for photo-stability testing [0~10000LUX， UV-A 320~400nm, 0~1.1W/m²]
Positionable illumination cassetes with ICH-compliant UV/Vis-light source Independent light-dose control of UV-A and visible light with sensors

International Quality Assurance

Accurate Temperature Control



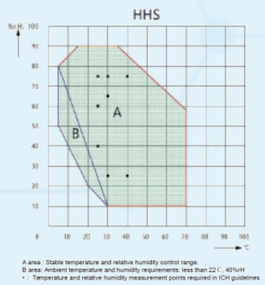
DIN12880 standard 27 test points

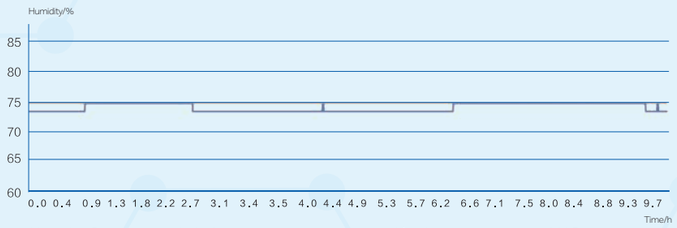


Central point temperature fluctuation within ±0.2°C (ambient temperature: 22°C, setting temperature: 40°C)

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)

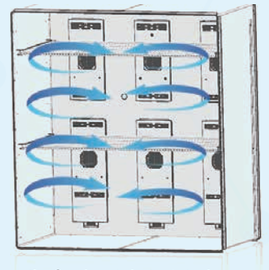
• There shall be some gap around the product, and there must be no less than 150cm gap on the back side, so as to facilitate heat dissipation of semiconductor and cut off the power supply in case of emergency;

• Sample dehumidification is not applicable, which may cause humidity deviation from the initial setup;

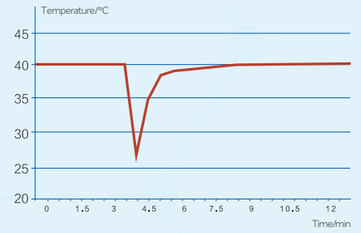
• The ambient temperature changes may cause the temperature and humidity to fluctuate beyond the limit;

• 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.

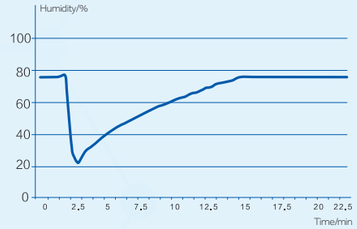
Internal Cabinet Environment Quick Recovery System



Professional air duct design, ensuring temperature and humidity uniformity



The time required for temperature to return to to 40°C 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.

Climate Chamber

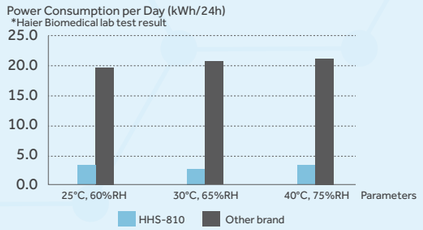
Drug stability testing, food shelf-life testing, electronic component aging testing, microbiological research, sample storage.

HHS-500/810/1060

Product Advantages

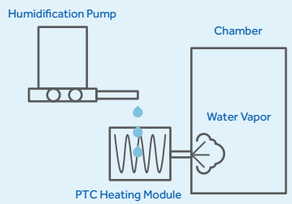
ART Intelligent Sensing and Control Technology

Intelligent dynamic control to optimize refrigerant levels, prevent evaporator frosting, and deliver excellent energy efficiency.



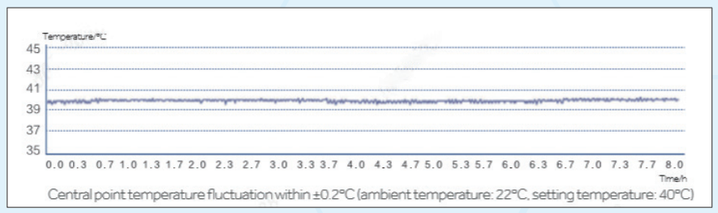
Preheats and vaporizes water droplets. Water consumption < 320 ml per day

Latest high-temperature steam injection humidification technology. Conserve both energy and water. Reduce the need for frequent water refills.



Intelligent fuzzy algorithm. Temperature fluctuation of ±0.2°C

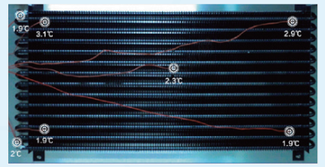
Intelligent temperature control system. PT100 temperature sensor. Precise regulation. Temperature fluctuation of ±0.2°C.



Central point temperature fluctuation within ±0.2°C (ambient temperature: 22°C, setting temperature: 40°C)

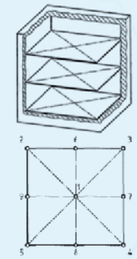
Dual evaporator system ensures a frost-free environment at a stable 4°C

Dual evaporators operate independently. Intelligent defrosting. Consistent frost-free operation and a stable internal temperature as low as 4°C.

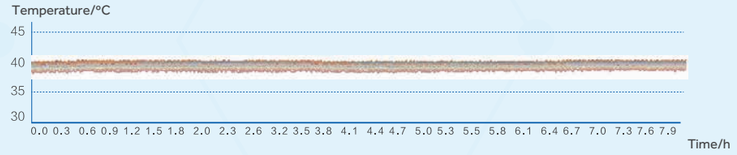


Circulating air flow system. Temperature uniformity ±0.5°C

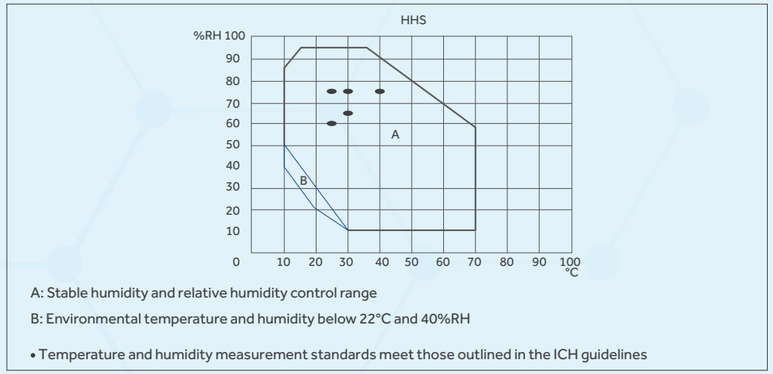
10 adjustable wind speed levels. Pre-mixed and split-flow circulation system. Lattice-type airflow structure.Temperature uniformity ±0.5°C.



DIN12880 standard
27 test points



27 test points temperature uniformity is ±0.5°C(ambient temperature: 22°C, setting temperature: 40°C)



A: Stable humidity and relative humidity control range

B: Environmental temperature and humidity below 22°C and 40%RH

• Temperature and humidity measurement standards meet those outlined in the ICH guidelines

Imported humidity sensor with a wide humidity range of 10%RH–95%RH

A wider range of humidity control to accommodate even the most stringent testing requirements.

There needs to be some clearance around the product, and the clearance on the back should be no less than 150 cm to facilitate heat dissipation and cut off the power supply in case of an emergency;

• Sample dehumidification is not applicable, which may cause the humidity to deviate from the initial setting;

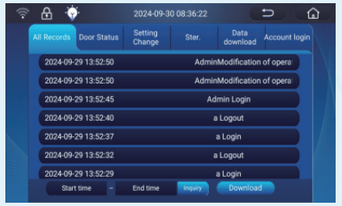
• Changes in the ambient temperature may cause the temperature and humidity to fluctuate beyond the limit;

• In Area B, make sure the ambient temperature is lower 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 setting.

Climate Chamber

Safe and traceable. Data can be traced for up to 15 years.

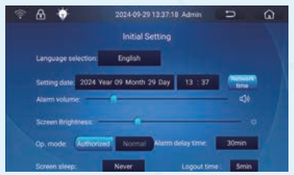


8G data storage. Store and track data for up to 15 years.

Optional IoT module. Real-time monitoring of equipment operational status.

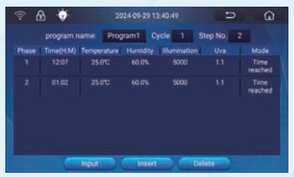
User-Friendly Design

- 7-inch LCD touch screen for easy operation.
  PID control algorithm ensures precise temperature control.

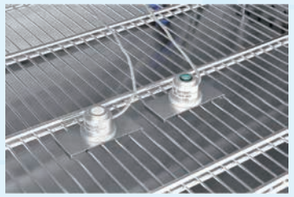


• Compliant with GMP requirements, meeting audit trail

Multi-level user management system for safety and compliance. Electronic signature and records meet US FDA PART11 certification requirements.



- Programmable mode up to 50 segments and 99 cycles. Simplify temperature and humidity settings for diverse testing and detection needs.



• UV sensor & illuminance sensor

ICH Q1B-compliant illumination for photostability testing [0–10000 lux, UV-A 320–400 nm, 0–1.1 W/m] Positionable illumination cassettes with ICH-compliant UV/Vis-light sources. Independent light-dose control for UV-A and visible light with sensor.

• Observation test hole

Equipped with a 35-mm diameter test hole on the left side of the chamber, allowing easy observation and recording of the test conditions inside to meet various testing requirements.

• Optional lock module

Provides two secure unlocking options: electromagnetic and mechanical locks to ensure the safety of test samples.

Specifications

Model			HHS-500	HHS-810	HHS-1060
Construction	Chamber Volume (L)		515	810	1070
	Interior Chamber		Stainless Steel	Stainless Steel	Stainless Steel
	Exterior Chamber		Coated Cold Rolled Steel	Coated Cold Rolled Steel	Coated Cold Rolled Steel
	Access Port		35mm Diameter	35mm Diameter	35mm Diameter
Dimensions	Net/Gross Weight	kg	248/305	320/383	360/430
		lbs	546.75/672.41	705.48/844.37	793.66/947.99
	Interior Dimensions (W*D*H)	mm	650*630*1260	1100*590*1260	1350*630*1260
		in	25.61*24.82*49.64	43.34*23.25*49.64	53.19*24.82*49.64
	Exterior Dimensions (W*D*H)	mm	1300*1000*1858	1380*1050*1858	1750*1000*1858
		in	51.22*39.40*73.21	54.37*41.37*72.89	68.95*39.40*73.21
	Packing Dimensions (W*D*H)	mm	1080*1060*1990	1495*1010*1990	1780*1050*1990
		in	42.55*41.76*78.41	58.9*39.79*78.41	70.13*41.37*78.41
	Container Load (20'/40'/40'H)		10/22/22	7/15/15	6/13/13
Shelves	Dimension (W*D)(mm)		598*528	1048*528	1298*528
	Standard Quantity/Max Quantity		2	2/16	2
	Max Weight per Shelf (kg)		45	45	45
	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)		2000	2000	2600
	Daily Consumption at 25°C & 40%RH (kWh)		4.3	4.3	6.5
Control	Controller		Microprocessor	Microprocessor	Microprocessor
	Display		7 "LCD Screen	7 "LCD Screen	7 "LCD Screen
Temperature Parameter	Setting Range (°C)		Dry 0°C~70°C/ Humid 10°C~70°C/ Light 0°C~60°C/ Humid and Light 10°C~60°C	Dry 0°C~70°C/ Humid 10°C~70°C/ Light 0°C~60°C/ Humid and Light 10°C~60°C	Dry 0°C~70°C/ Humid 10°C~70°C/ Light 0°C~60°C/ Humid and Light 10°C~60°C
	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
	Sensor		PT100*1	PT100*1	PT100*1
	30 Seconds Recovery Time after Door Opening at 40°C (min)		≤4min	≤4min	≤4min
Humidity Parameter	Humidity Setting Range (%RH)		10-95	10-95	10-95
	Humidity Setting Accuracy (%RH)		0.1	0.1	0.1
	Humidity Fluctuation at 40°C & 75%RH (%RH)		±2	±2	±2
	Daily Water Consumption (ml)		240	320	400
Optional	Electromagnetic Lock (Password)		Y	Y	Y
	Printer		Y	Y	Y
	IoT Module		Y	Y	Y
Standard	Remote Alarm Interface		Y	Y	Y
	RS485		Y	Y	Y
	Water Level Alarm		Y	Y	Y

Climate Chamber

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
Others	Certification		CE	CE	CE

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. It is highly specialized in cultivation, enabling it to meet the cultivation and preservation of most bacteria, molds, and microorganisms, as well as to serve purposes such as water analysis and biochemical oxygen demand (BOD) determination, and it can also conduct darkroom cultivation of plant tissues.

HSP-260

HSP-160

Product Advantages

Temperature Range

The temperature control ranges from 0°C to +70°C regardless of ambient conditions

Multiple Operating Modes

Meet a variety of experimental 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 and data exportable through USB

High Thermal Insulation Performance, Energy Saving and Environmental Protection

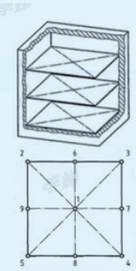
The chamber features a two doors (one inner door ;another is outer door) configuration and utilizes separate inner liner foam to enhance thermal insulation performance, reduces energy consumption, while also being environmentally friendly

Cooled Incubator

375/376

Fuzzy PID Control Technology

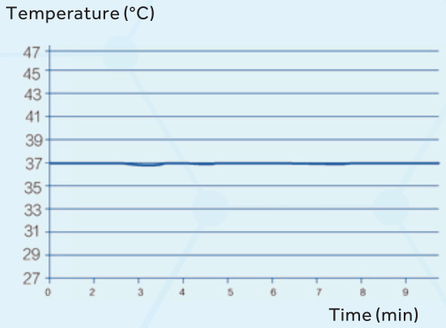
Based on the principle of fuzzy PID control, this product achieves high-precision temperature control. Referring to the DIN 12880 standard, with 27-point testing, the temperature fluctuation is ±0.2°C (@37°C, ambient temperature 22°C).

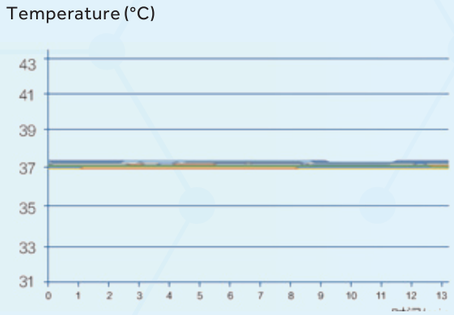


DIN12880 standard 27 test points

Precise Temperature Control, Energy Efficiency, and Eco-friendly

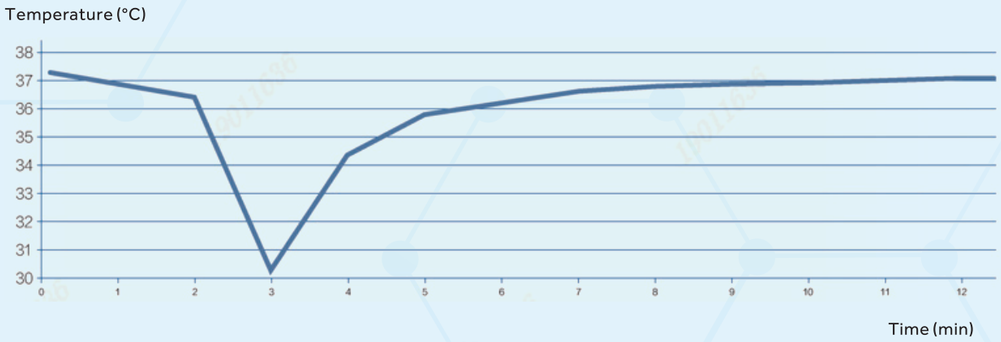
High-quality insulation materials, and professional air duct design to ensure precise temperature control while keeping power consumption to a minimum





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

Product Parameters

	Model		HSP-160	HSP-260
Performance	Temperature Sensor		PT100	PT100
	Control Accuracy	°C	±0.1	±0.1
	Control Range	°C	0~70	0~70
	Temperature Fluctuation (37°C)	°C	±0.2	±0.2
	Temperature Uniformity (37°C)	°C	±0.6 at 37°C	±0.6 at 37°C
	Recovery Time After Open Door for 30s (37°C)Restore to 98%	min	7	7
Control	Heating Mode		Direct heating	Direct heating
	Control Principle		Fuzzy PID	Fuzzy PID
	Display		7" LCD Touchscreen	7" LCD Touchscreen
Electrical	Power Supply (V/Hz)		220-240V~50/60Hz	220-240V~50/60Hz
	Power (W)		1760	1870
Construction	Capacity (L/Cu.Ft)		160/5.7	260/9.2
	Net/Gross Weight	kg	105/135	125/165
		lbs	231.49/297.62	275.58/363.76
	Interior Dimension (W*D*H)	mm	520*568*610	520*568*1000
		in	20.47*22.36*24.02	20.47*22.36*39.37
	Exterior Dimension (W*D*H)	mm	640*800*1255	640*800*1650
		in	25.2*31.5*49.4	25.2*31.5*65.0
	Packing Dimension (W*D*H)	mm	745*865*1440	745*865*1835
		in	29.33*34.06*56.69	29.33*34.06*72.24
	Container load (20'/40'/40'H)		12/28/28	12/28/28
	Shelves		3/7	4/11
	Shelf Capacity	kg	15	15
Alarms	High/Low Temperature		Y	Y
	Over-temperature Protection		Y	Y
	Sensor Error		Y	Y
	Door Ajar		Y	Y
	End of program		Y	Y
	Alarm Mode		Sound and Light / Buzzer	Sound and Light / Buzzer
Accessories	Mechanical Independent Temperature Limiting Switch		Y	Y
	RS485		Y	Y
	USB		Y	Y
Optional	Electromagnetic lock(password)		Y	Y
	Printer		Y	Y
	UV-lamp		Y	Y
	IoT Module		Y	Y
Certification	CE		Y	Y

- The power includes a reserved 1000W for the BOD socket;
- The temperature will return to 98% of the set value after opening the door;
- When the set temperature is less than 20°C, the temperature may fluctuate during the default low-temperature automatic defrosting of the device, which is a normal phenomenon. Do not use it beyond the working environment range.

Haier Biomedical
Intelligent Protection of Life Science

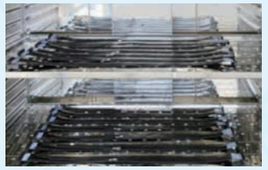
Drying Oven

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 cotto n insulation provides excellent insulation performance to reduce energy consumptio n and lower running costs.

Personalized interface, easy to transfer data

Equipped with USB and RS485 interfaces to better meet the different needs of users fo r 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.

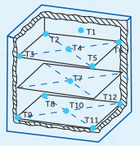
Operation mode

Four operation modes for multiple temperature requirements.

PID Control Technology

HFS-160
Forced convection

HZS-60
Natural convection

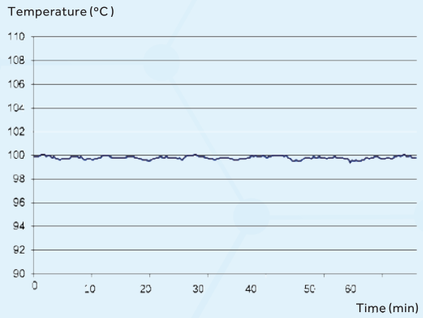


ASTM standard,
12 points testing

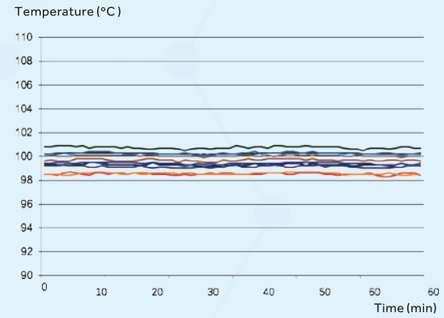
Based on PID control principle, manufactured with U-shaped 3-sided heating to achieve superior temperature control and uniformity control.

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.

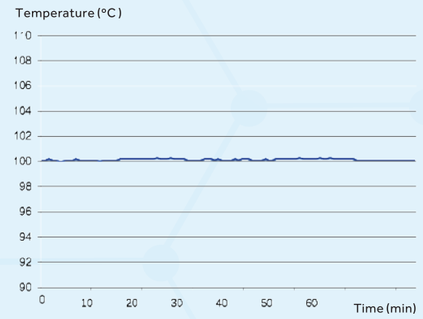


Temperature fluctuation ±0.3°C (100°C)

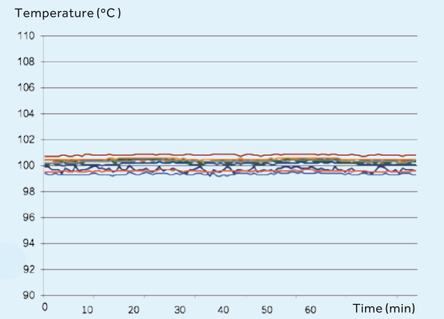


Temperature uniformity ±2°C (100°C)

HFS-160



Temperature fluctuation ±0.2°C (100°C)



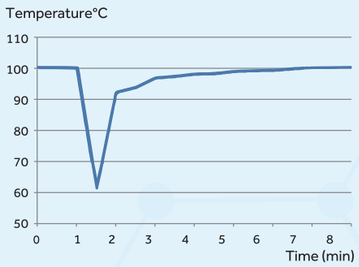
Temperature uniformity ±1.5°C (100°C)

HZS-60

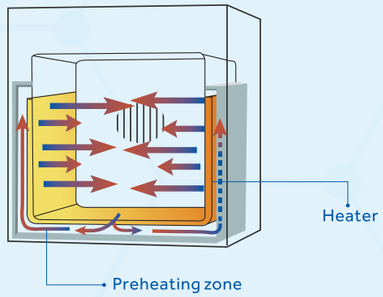
Drying Oven

Rapid Recovery After Door Open

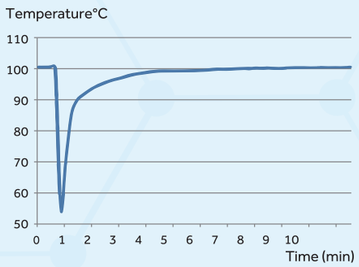
The temperature inside the unit quickly recovers after opening the door without overshoot.



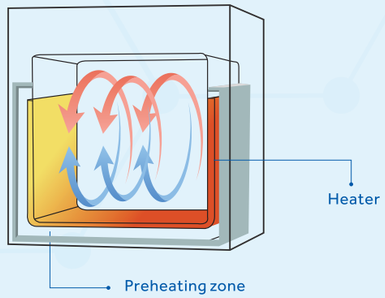
Temperature recovery curve to 100°C after opening the door for 30s



HFS-160



Temperature recovery curve to 100°C after opening the door for 30s

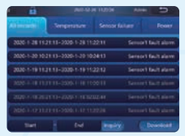


HZS-60

Convenient and Intelligent Management at a Glance

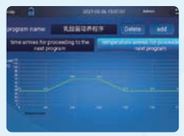
7-inch touchscreen, easy to operate and sensitive, it can respond quickly even when wearing rubber gloves.

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

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

*HFS-160 glass window for observing the process is optional

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

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

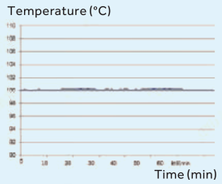
4-inch Display Screen
Intuitive user interface and easy-to-read display

Multiple Safety Protections
Multiple protection systems such as overheating, overcurrent, and independent temperature limiting; overtemperature, high and low temperature and other alarms for safety

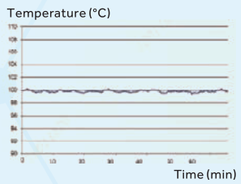
Innovative Air Duct Structure
Improved level of temperature uniformity inside the chamber as good as ±2°C at 100°C (HFS-60E)

Precise Temperature Control

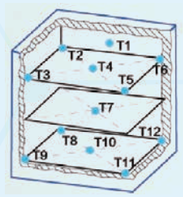
Based on the principle of fuzzy PID control, the product achieves high-precision temperature control. The temperature fluctuation measured using the ASTM standard 12 points temperature detection method is less than 0.3° C. (Test environment temperature 22° C, set temperature 100°C)



Temperature fluctuations±0.2°C (HFS-60E)

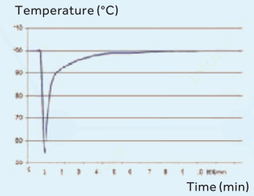


Temperature fluctuations±0.1°C (HZS-160E)

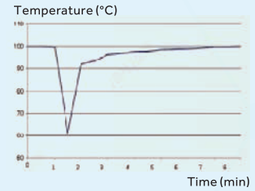


Rapid Temperature Recovery After Door Opening

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



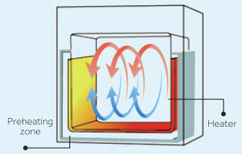
Temperature recovery curve to 100°C after opening the door for 30s (HFS-60E)



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



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.

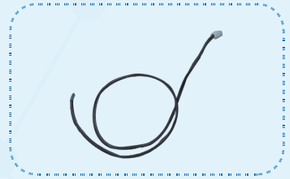
Air Switch Solution

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
ABS Box/ PC Transparent 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	ϕ386*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

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

HRLM-110A

Product Advantages

Dual Cooling System

High density finned condenser and high air volume cooling fan are connected in series to provide two-stage cooling for the outdoor steam exhaust of sterilization, ensuring the condensation effect of the exhaust steam.

Ten-Moodel 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.

Linkage Door Lock System

Pressing self-locking structure, safety electromagnetic lock, door pressure mechanical interlocking, locking in place before connecting to the power supply.

Pneumatic Pressure Door Lock

The detection of pressure in the internal chamber will automatically lock to ensure absolute safety, and this function is also available even under conditions such as power off and out of control.

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.

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.

Drainage Without Exhaust

Dual cooling system and ten-model exhaust control technology ensures 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.

One-Click Start of Sterilization

Standarding dressings, instruments, rubber, liquid one click start program.

Ergonomic Design

Ergonomic and anti-scald door handle.

Mechanical safety valve.

4-inch LCD display screen and touch buttons.

Vaporous protection plate of door cover.

Waterway and electrical circuit of correspond to independent access door.

Specifications

	Model		HRLM-60A	HRLM-80A	HRLM-110A
Technical Data	Cabinet Type		Upright	Upright	Upright
	Temp Range		5-40	5-40	5-40
	Heating Type		Electric Heating Tube	Electric Heating Tube	Electric heating tube*3
	Cool air removal Type		Gravity Displacement, Positive Pressure Pulsation	Gravity Displacement, Positive Pressure Pulsation	Gravity displacement, Positive Pressure Pulsation
	Drainage Method		Standard: Hand Movement; Optional: Auto	Standard: Hand Movement; Optional: Auto	Standard: Hand Movement; Optional: Auto
	Dry Function		Optional	Optional	Optional
	Water Tank		Condensate Water Tank	Condensate Water Tank	Condensate Water Tank
	Sterilization Process		Auto	Auto	Auto
	Water Infusion		Standard: Hand Movement; Optional: Auto	Standard: Hand Movement; Optional: Auto	Standard: Hand Movement; Optional: Auto
	Chamber Materials		SUS304	SUS304	SUS304
	Protection		Anti-dry burning, over-temperature power failure, automatic over-pressure relief, over-current protection, sensor disconnection detection	Anti-dry burning, over-temperature power failure, automatic over-pressure relief, over-current protection, sensor disconnection detection	Anti-dry burning, over-temperature power failure, automatic over-pressure relief, over-current protection, sensor disconnection detection
	Scheduled Start		Y	Y	Y
	Sensor Type		PT100	PT100	PT100
	Open the Door		Action Bars+Upward Flipping Door	Action Bars+Upward Flipping Door	Action Bars+Upward Flipping Door
Performance	Sterilization Temperature Range (°C)		105-136	105-136	105-136
Control	Controller		Micro-Computer	Micro-Computer	Micro-Computer
	Display		TFT	TFT	TFT
Electrical Data	Power Supply (V/Hz)		220-240-50/60	220-240-50/60	3~380-50/60
	Power (W)		4000	4000	9000
	Electrical Current (A)		15	15	12
Dimensions	Capacity (L/Cu.Ft)		60/2.1	80/2.8	110/3.9
	Net/Gross Weight (Approx)	kg	100/125	120/145	130/160
		lbs	220.5/275.6	264.5/320	286.6/352.7
	Interior Dimension (mm)	mm	Φ386*520	Φ386*695	Φ450*727
		in	Φ15*20.5	Φ15*27	Φ17.7*28.6
	Exterior Dimensions (W*D*H)	mm	581*706*903	581*706*1020	640*640*1030
		in	23*28*35.5	23*28*41	25.2*25.2*40.6
	Packing Dimensions (W*D*H)	mm	665*860*1200	665*860*1230	835*790*1235
		in	26.2*34*47.24	26.2*34*48.43	32.9*31.1*48.6
	Container Load (20'/40'/40'H)		18/39/78	18/39/78	18/28/56
Functions	Design Pressure (Mpa)		0.28	0.28	0.28
	Design Temperature (°C)		150	150	150
	Rated Working Pressure (Mpa)		0.22	0.22	0.22
	Pressure Display Range (Mpa)		-0.1-0.3	-0.1-0.3	-0.1-0.3
	Sterilization Temperature Range (°C)		105-136	105-136	105-136
	Temperature Control Precision (°C)		±0.1	±0.1	±0.1
	Dynamic Pulse Exhaust Times		0-99 (Settable)	0-99 (Settable)	0-99 (Settable)
	Dynamic Pulse Exhaust Temperature (°C)		105-132	105-132	105-132
	Dissolution Temperature (°C)		40-100	40-100	40-100
	Heat Preservation Temperature (°C)		40-100	40-100	40-100
	Sterilization Time (min)		0-9999	0-9999	0-9999
	Printer		Optional	Optional	Optional
Accessories	Instruction		1	1	1
	Basket		2x(Φ364.5x190)	2x(Φ364.5x270)	2x(Φ430*265)
	Beaker		1	1	1
	Drain Pipe		1	1	1
	Power Cord		N, Air Switch	N, Air Switch	N
Certificate	PED		Y	Y	NO
	CE		Y	Y	Y

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/HRTM-45

Ergonomic Design

Programmable Mode

The program can be edited to meet different requirements.

High Efficiency Vacuum Pump

The sterilization cycle is greatly shortened, and the sterilization and drying effects are improved.

Advanced Structure Design

One-piece stretch liner with 304 stainless steel , without dead angles and is easy to clean.

New Steam Generator Technology

An efficient steam generator with high heat exchange efficiency and large gas output has been developed to meet the requirements of rapid temperature rise and sterilization which ensures thorough sterilization of the 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 is activated, the water storage capacity will also meet the requirements of primary sterilization.

Product Advantages

Triple Protection of Temperature and Pressure Monitoring,Electronic Lock and Mechanical Safety Devices

When the set pressure is exceeded, the safety valve opens automatically to release the pressure.

High Degree of Security 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, which improves the drying effect.

4- inch LCD color screen

4- inch LCD color screen makes graphics and figures clear at a glance, easy to use

New Technology

Adopts a new generation steam generator to increase the saturation of the saturated steam which ensures thorough sterilization.

Specifications

Model			HRTM-18	HRTM-23	HRTM-23
Technica Data& Dimensions	Display		4 inch TFT screen	4 inch TFT screen	7-inch Touchscreen
	Chamber Volume (L)	Capacity (L/Cu.Ft)	18/0.6	23/0.8	45/1.6
	Internal Dimensions (w*d*h)	mm	Φ247*350	Φ247*450	Φ316*615
		in	Φ9.7*13.8	Φ9.7*17.7	Φ24.2*47.2
	External Dimensions (w*d*h)	mm	490*600*455	490*690*455	640*840*575
		in	19.3*23.6*7.9	19.3*27.2*17.9	25.2*33.1*22.6
	Packing Dimensions (w*d*h) (With Packaging Bottom Support)	mm	590*680*620	590*760*620	720*965*730
		in	23.2*26.8*24.4	23.2*29.9*24.4	28.3*38*28.7
	Net/Gross Weight (approx)	kg	47/56	53/64	120/140
		lbs	103.6/123.5	116.8/141.1	264.6/308.6
	Container Load (20'/40'/40'H)		72/153/204	63/126/168	54/72/108
	Inner Material		304 stainless steel (option:316 stainless steel)	304 stainless steel (option:316 stainless steel)	304 stainless steel (option:316 stainless steel)
	The Main Body Material		Coated cold rolled steel	Coated cold rolled steel	Coated cold rolled steel
Electrical Data	Power (W)		2800	3200	4800
	Power Supply(V/Hz)		220-240~50/60	220-240~50/60	220-240~50/60
	Electrical Current (A)		13.0	14.5	22
Performance	The sterilization temperature range (°C)		105-138	105-138	115-134
	Temperature fluctuations (°C)		0~3	0~3	0~3
	Temperature uniformity (°C)		<2	<2	<2
	Design Temperature (°C)		150	150	150
	Design Pressure (Mpa)		0.3	0.3	0.3
	Rated Working Pressure (Mpa)		0.22	0.22	0.22
	Dynamic Pulse Exhaust Times		1-9 (settable)	1-9 (settable)	1-9 (settable)
	Sterilization Time (min)		1-999	1-999	1-999
	Noise (dB(A))		≤65	≤65	≤65
	Temperature Sensor		PT100	PT100	PT100
	Ambient Range (°C)		5-40	5-40	5-40
	Humidity Reservoir (L)		2.6	2.6	8.5
Accessories	Shelves Dimensions (w*d)(mm)		281*183	376*183	500*215
	Shelves Number Standard/Maximum		3/5	3/5	3/5
	USB		Y	Y	Y
	Printer		Optional	Optional	Standard
Others	CE		Y	Y	Y
	PED		Optional	Optional	Optional

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 Parts

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

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

Eco-Friendly 7%~7.5% Hydrogen Peroxide Sterilizing
Safe, non-toxic disinfection method

High Disinfection Level
It provides a 6-log sporicidal kill on exposed surfaces

Ergonomic Design
Compact design with wheels, easy to move and store as required

High-efficiency
It takes less than 3 hours for total disinfection, saving time

Product Parts

Ergonomic Design

PIR Sensor Technology
With the PIR sensor, equipment does not work if any persons are detected.

Unique Patented Nozzle
The spray system has unique patented sprinkler head and the spray particle size average is ≤3μm.

Multiple Alarms
Audible and visual alarm functions: high/low temperature alarm, high and low humidity alarm, and residual liquid volume alarm.

Real Time Detection of Temperature and Humidity
Real time monitoring and recording of data during operation.

Energy Saving and Environmental Protection
Using a hydrogen peroxide solution, it decomposes into water and oxygen after disinfection.

USB Interface
Capable of storing more than 10 years of data.

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
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.

Follow the QR code and learn more about the
Floor-Standing Low-Speed Refrigerated Centrifuge from Haier Biomedical

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

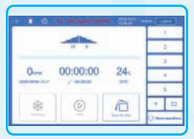
Ergonomic Design

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

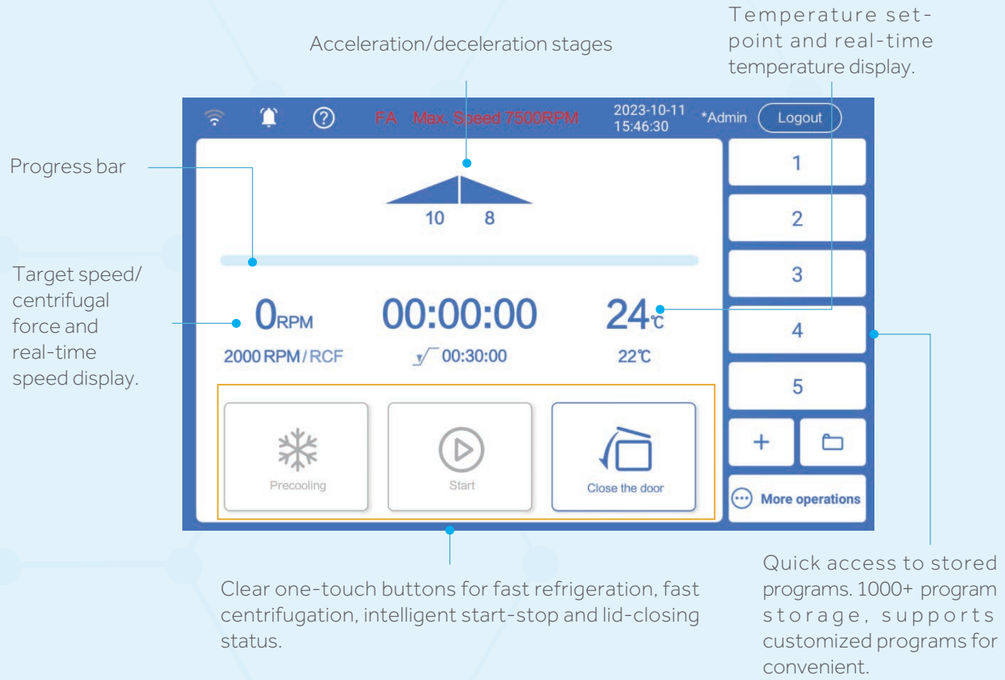
Enlarged track bar display of set and actual run conditions during centrifugation, ensuring clear visibility from a distance.

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.

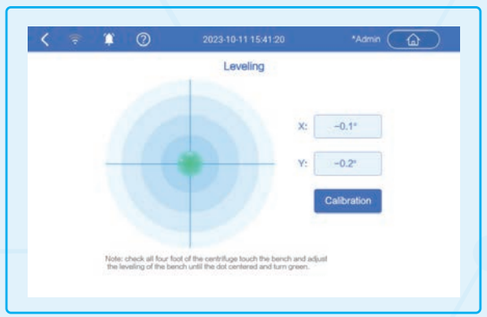


Floor-Standing Low-Speed Refrigerated Centrifuge

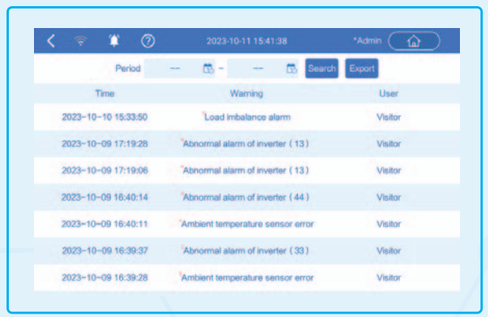
Multiple operation setting modes, including unique blood bank mode function, convenient for blood bank users to use

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.

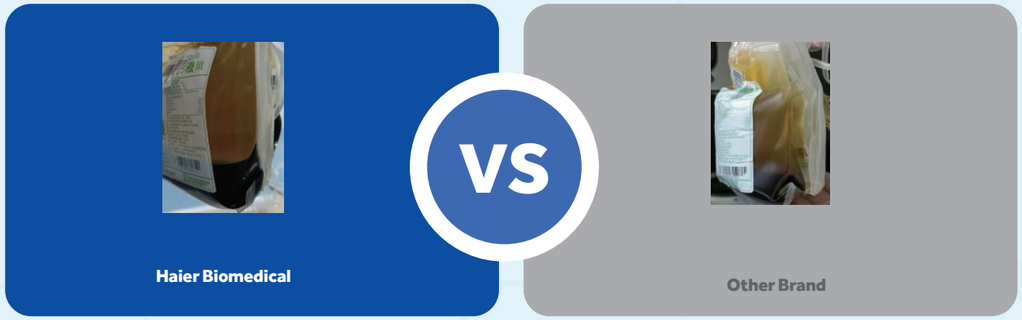
High-Quality Connectivity

Equipped with an imported 5-core aviation plug for easy, fast, and safe usage.

Floor-Standing Low-Speed Refrigerated Centrifuge

Real-World Efficacy

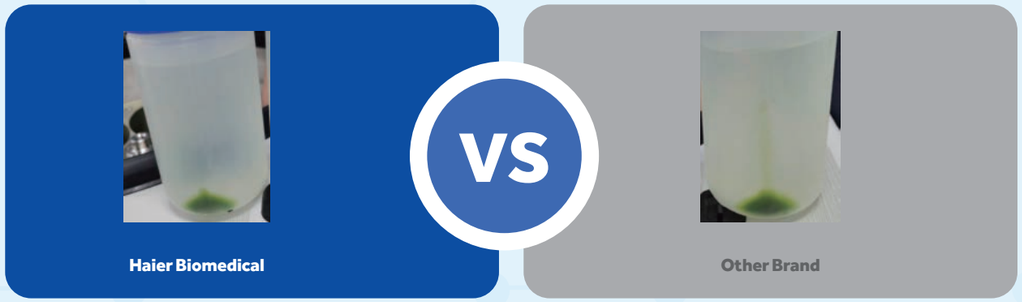
Blood Station User: Blood centrifugal test



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*2000ml or 16*500ml blood bags
Max Speed (rpm)	7500
Max RCF (xg)	13376
Speed Accuracy (rpm)	±10
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 50/60
Power (W)	6400
Exterior Dimensions (W*D*H)(mm)	900*1050*1020
Lid Opening Height (mm)	1780
Net Weight (kg)	620
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

Laboratory centrifuges contain fluorinated greenhouse gases in the sealing equipment.

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(xg)	13376	-	-	-
Max Speed (rpm)	7500	-	-	-
Max Bottle Capacity (ml)	1000	500	250	-
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 Bags

Swing-Out
Rotor Block

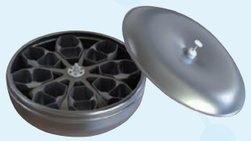
BE No.	BE12F5001
Max. RCF (xg)	5331
Max. speed (rpm)	4000

Bucket
(Sets of 6)

BE No.	BE12H4000
Max Capacity	2*500ml blood bags or 2400ml
Bucket Type	Flat bottom

Adapter/Bottle(Sets of 6) for BE12H4000

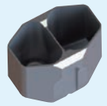
BE No.	BE12JT001	BE12K0000
Type	Double blood bag adapter	Centrifuge bottle
Max Capacity	2*500ml blood bags	2400ml
Blood bags/Bottles per rotor	12 blood bags	6 bottles



Swing-Out Rotor
16 Blood Bags

Swing-Out
Rotor Block

BE No.	BE12FP001
Max. RCF (xg)	5706
Max. speed (rpm)	4000



Double Blood Bag
Bucket (Sets of 8)

BE No.	BE12H9000
Max Capacity	2*500ml blood bags or 2000ml*
Bucket Type	Flat bottom

Adapter(Sets of 8) for BE12H9000

BE No.	BE12JF002
Type	Double blood bag adapter
Max Capacity	2*500ml blood bags
Blood bags per rotor	16

Floor-Standing Low-Speed Refrigerated Centrifuge

Scope of Application

Haier Biomedical LX-60L1000R Blood Banking Centrifuge seamlessly integrates a remarkably compact footprint with top-tier performance.It can handle up to six 500-ml blood bags at a time, providing excellent accuracy in speed and temperature control. This ensures optimal sample integrity and consistency throughout each centrifugation cycle.

NEW

LX-60L1000R

Excellent Performance

Precision Control
Ensure excellent speed and temperature control accuracy, and maintain the integrity and consistency of samples in each centrifugation cycle, thus achieving high-quality blood treatment.

Rapid Cooling
The unique refrigeration technology enables rapid cooling. It achieves 4°C in just 10 minutes from room temperature under pre-cooling mode, offering impressive time savings.

Expansive Memory
Maximize efficiency with over 1000 program memories, enabling the streamlining of the workflow.

Automated Door Management
Featuring a one-touch automatic opening and closing function for both the centrifuge door and the rotor lid, it also comes with a storage solution for the rotor lid.

Quick-Lock Rotor Exchange
Patented tool-free rotor exchange technology enables the installation and removal of rotors on the centrifuge automatically and securely without the need for tools.

Quiet Operation
The sound design is optimized for low noise levels (≤ 54dB(A)).

Floor-Standing Low-Speed Refrigerated Centrifuge

Product Parts

Automatic rotor lid opening and closing with lid storage.

Motorized gas springs offer smooth and controlled opening and closing of the centrifuge door.

7-inch touch screen interface for convenient operation.

Emergency lid release: Pry out the side - plate's white plug with a tool and pull the release cord 7+ times to open the lid.

Quick rotor exchange design for installation and removal with no tools required.

316 stainless steel centrifuge chamber is rust-free and easy to clean.

USB port for exporting operation records, including data on speed, time, temperature, operation curves, and alarm messages.

Intuitive Interface

Large, bright, interactive 7-inch LCD interface offers:

The 45° angled, glove-compatible touchscreen provides a wide viewing angle for easy visibility and comfortable use by technicians of all heights.

Advanced user settings and password protection ensure safe operation. Multiple user profiles can be created to customize access and settings, improving workflow and sample safety.

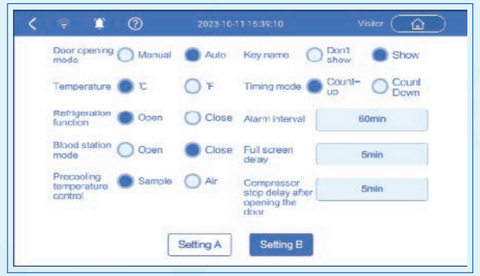
During operation, the display of settings and actual operating conditions can be easily monitored through the enlarged tracking bar, so as to obtain a clear vision and ensure that the operator can see them from a distance.

Store more than 1,000 programs, and can directly access 5 or 10 commonly used programs, depending on the model. Programs can be named alphanumerically, ensuring easy identification and selection, minimizing the risk of errors during operation.

Users can change the speed, centrifugal force, time and temperature during the centrifugation.

Intuitive Interface

Multiple operation setting modes, including unique blood bank mode function, convenient for blood bank users to use.



Electronic level assists in installation and leveling, making installation easier and simpler.

Multi-echelon program running mode, achieving continuous operation of multiple speed steps for special users

The operation record including speed, time and temperature, operation curve, alarm messages etc. can be tracked on the screen and exported by USB port.

Floor-Standing Low-Speed Refrigerated Centrifuge

Enhanced Safety

Automatic radio - frequency rotor identification (RFID) enables immediate identification of a rotor once it is securely placed in the centrifuge chamber, avoids over-speed, reduces error messages, and enhances the safety.

Real time loading imbalance detection and intelligent lid locking monitoring, immediate shutdown protection in case of imbalance or lid opening.

Use of brushless induction motors to provide maintenance-free operation, eliminating carbon particle emissions.

Multiple alarms including abnormal voltage alarm, high temperature alarm, overspeed alarm, load imbalance alarm, rotor absent alarm, brake abnormal alarm, rotor life reminder alarm, and other alarm functions can effectively ensure the safety of the centrifuge.

A triple - layer construction paired with a fully covered steel plate protective sleeve provides an effective safeguard.

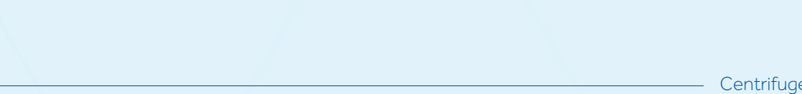
Specifications

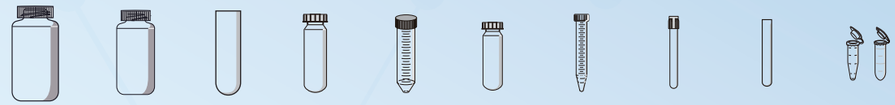
Model	LX-60L1000R
Max Capacity	6*1000ml or 6*500ml blood bags
Speed Rang (rpm)	500-6000
Max RCF (xg)	6279
Speed Accuracy (rpm)	±5
Time Setting Range	1min～99h59m59s (1-second increment)
Precooling Function	Yes
Temperature Setting Range	-20°C~40°C, adjustable to 1°C
Display	7 inch touch screen
Cooling	Direct Cooling
Noise (dB (A))	≤54
Power Supply (V/Hz)	AC220 50/60
Power (W)	3500
Exterior Dimensions (W*D*H) (mm)	920*740*990
Lid Opening Height (mm)	1720
Net Weight (kg)	338
Packing Dimensions (W*D*H) (mm)	1150*940*1270
Gross Weight (kg)	423

Fixed-Angle Rotor

BE No.	BE12DL001
Type	Sealed
Max Capacity	6*500ml
Max RCF (xg)	6,279
Max Speed (rpm)	6,000

Adapter(Sets of 6) for BE12DL001



BE No.	No adapter needed	BE12JT002	BE12JU002	BE12JV002	BE12JW002	BE12JX002	BE12JY002	BE12JZ002	BE12J0003	BE12J1003
Max Capacity	500ml	250ml	100ml	2*50ml	2*50ml	4*30ml	7*15ml	8*10ml	10*5ml	14*1.5/2ml
Tubes Per Adapter/Rotor	6	1/6	1/6	2/12	2/12	4/24	7/42	8/48	10/60	14/84
Tube										
Max Tube Dimensions (Ø x L mm)	69.5*170	62*123	38*120	29*105	29*118	25*102	17*121	16*86	13*54	11*38
Tube Type	Flat bottom	Flat bottom	Round bottom	Round bottom	Conical bottom	Round bottom	Conical bottom	Round bottom	Round bottom	Conical /Round bottom

Floor-Standing Low-Speed Refrigerated Centrifuge

Swing-Out Rotor

Swing-out Rotor Block

BE No.	BE12FT001
Max. RCF (xg)	4570
Max. speed (rpm)	4000

Round Bucket (Sets of 6)

BE No.	BE12G9000
Max. RCF (xg)	4570
Max. speed (rpm)	4000
Max Capacity	1000ml
Bucket Type	Flat bottom

Adapter(Sets of 6) for BE12G9000

BE No.	No adapter needed	BE12J8004	BE12J9004	BE12J7004	BE12J6004	BE12J5004	BE12JA004
Max Capacity	1000ml	500ml	500ml	300ml	250ml	200ml	4*100ml
Bottles Per Adapter /Rotor	6	1/6	1/6	1/6	1/6	1/6	4/24
Tube							
Max Tube Dimensions (Ø x L mm)	102*179	96*150	80*170	60*138	60*165	/	38*120
Tube Type	Flat Bottom	Conical Bottom	Flat Bottom	Flat Bottom	Conical Bottom	Blood Bag	Round Bottom

Adapter(Sets of 6) for BE12G9000

BE No.	BE12JB004	BE12JC004	BE12JD004	BE12JE004	BE12JH004	BE12JF004	BE12JG004
Max Capacity	5*50ml	5*50ml	14*15ml	14*15ml	37*7ml	24*5/7ml	28*1.5/2ml
Tubes Per Adapter /Rotor	5/30	5/30	14/84	14/84	37/222	24/144	28/168
Tube							
Max Tube Dimensions (Ø x L mm)	29*118	29*105	17*121	17*121	12*100	13*75/106	11*38
Tube Type	Conical Bottom	Round Bottom	Conical Bottom	Round Bottom	Round Bottom	Small/Large Blood Collection Tube	Conical / Round Bottom

Swing-out Rotor Block

BE No.	BE12FT001
Max. RCF (xg)	4570
Max. speed (rpm)	4000

Square Bucket (Sets of 6)

BE No.	BE12HD000
Max. RCF (xg)	4570
Max. speed (rpm)	4000
Max Capacity	1000ml
Bucket Type	Flat bottom

Adapter(Sets of 6) for BE12HD000

BE No.	BE12J3004
Type	Blood bag adapter
Max Capacity	500ml blood bag
Blood Bags Per Adapter /Rotor	1/6

Floor-Standing Highspeed Refrigerated Centrifuge

Haier Biomedical LX-210L750R is a floor-standing highspeed refrigerated centrifuge features with 3L capacity and performance up to 47,400 x g, which is ideal for all-purpose use in the industrial and research sectors.

NEW

LX-210L750R

- Offering a broad portfolio of fixed-angle and swing-out rotors, which can accommodate tubes and bottles from 1.5 ml to 750 ml, as well as deep-well plates
- Automatic radio-frequency rotor identification (RFID) that enables immediate identification of a rotor once it is securely placed in the centrifuge chamber, avoid over-speed, reduce error messages, and enhance the safety
- Low center of gravity design, amplitude less than 0.05mm, ensuring stable operation and good centrifugal effect
- Use of brushless induction motors to provide maintenance-free operation, eliminating carbon particle emissions
- Optimized multi-layer shock absorption technology makes the sound level ≤ 56(dB(A))
- High-strength, aero-aluminum rotor, which is acid and alkali corrosion-resistant, greatly increases the service life, and allows for 50,000 uses

Product Parts

Dual self-lock design to ensure safe operation

316 stainless steel centrifuge chamber is rust-free and easy to clean

Dual gas springs with safety protection

USB port for exporting operation record including speed, time and temperature, operation curve with alarm messages etc

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

- Patented tool-free rotor exchange technology enables the installation and removal of rotors on the centrifuge automatically and securely without the need for an tools
- Pull the handle to quickly remove and install the rotor

Triple-layer construction to ensure safe use

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

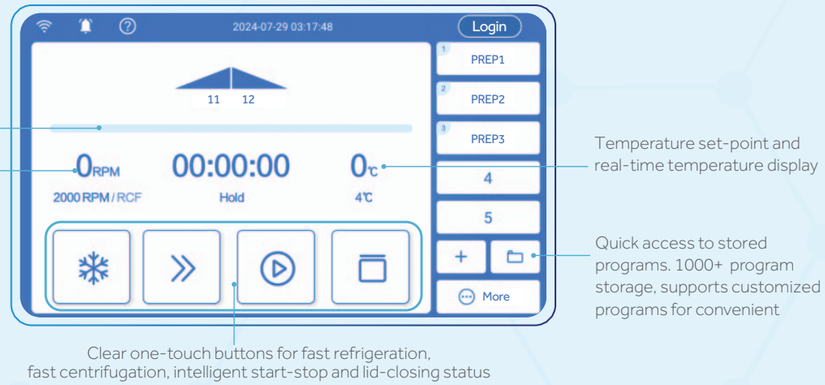
Easily monitor the display of set and actual run conditions with enlarged track bar during the run for clear visibility, which ensures the operator can see them from a distance

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

11 acceleration + 12 deceleration stages

Floor-Standing Highspeed Refrigerated Centrifuge



Enhanced Safety

Real time loading imbalance detection and intelligent lid locking monitoring, immediate shutdown protection in case of imbalance or lid opening

Adopting Φ80mm adjustable feet for more stable installation

Multiple alarm including abnormal voltage alarm, high temperature alarm, overspeed alarm, load imbalance alarm, rotor absent alarm, brake abnormal alarm, rotor life reminder alarm, and other alarm functions

Fully covered steel plate protective sleeve and 12mm steel shell

Specifications

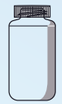
Model	LX-210L750R
Max Capacity	4*750ml
Speed Range (rpm)	500-21,000
Max RCF (xg)	47,400
Speed Accuracy (rpm)	±10
Time Setting Range	1min~99h59m59s(1-second increment)
Precooling Function	Yes
Temperature Setting Range (°C)	-20~40, adjustable to 1
Display	7 inch touch screen
Cooling	Direct Cooling
Noise (dB(A))	≤56
Power Supply(V/Hz)	AC220 50/60
Power (W)	3400
Exterior Dimensions (W*D*H)(mm)	920*740*990
Lid Opening Height (mm)	1720
Net Weight (kg)	375
Packing Dimensions (W*D*H)(mm)	1150*940*1270
Gross Weight (kg)	470
Certification	CE

Laboratory centrifuges contain fluorinated greenhouse gases in the sealing equipment.

Fixed-angle Rotor

BE No.	BE12D0001
Type	Sealed
Max Capacity	6*500ml
Max RCF (xg)	17,778
Max Speed (rpm)	10,000

Adapter(Sets of 6) for BE12D0001

BE No.	No adapter needed	BE12JT002	BE12JU002	BE12JV002	BE12JW002	BE12JX002	BE12JY002	BE12JZ002	BE12J0003	BE12J1003
Max Capacity	500ml	250ml	100ml	2*50ml	2*50ml	4*30ml	7*15ml	8*10ml	10*5ml	14*1.5/2ml
Tubes Per Adapter/Rotor	6	1/6	1/6	2/12	2/12	4/24	7/42	8/48	10/60	14/84
Tube										
Max Tube Dimensions (Ø x L mm)	69.5*170	62*123	38*120	29*105	29*118	25*102	17*121	16*86	13*54	11*38
Tube Type	Flat bottom	Flat bottom	Round bottom	Round bottom	Conical bottom	Round bottom	Conical bottom	Round bottom	Round bottom	Conical/Round bottom

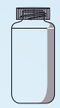
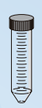
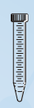
Floor-Standing Highspeed Refrigerated Centrifuge

Fixed-angle Rotor

BE No.	BE12D1001
Type	Sealed
Max Capacity	6*250ml
Max RCF (xg)	25,115
Max Speed (rpm)	12,000

BE No.	BE12D5001
Type	Sealed
Max Capacity	4*250ml
Max RCF (xg)	29,440
Max Speed (rpm)	14,000

Adapter(Sets of 6) for BE12D1001, BE12D5001

BE No.	No adapter needed	BE12JF003	BE12JG003	BE12JH003	BE12JJ003
Max Capacity	250ml	100ml	50ml	50ml	5*15ml
Tubes per adapter/ rotor (BE12D1001)	6	1/6	1/6	1/6	5/30
Tubes per adapter/ rotor (BE12D5001)	4	1/4	1/4	1/4	5/20
Tube					
Max Tube Dimensions (Ø x L mm)	62*123	38*120	29*105	29*118	17*121
Tube Type	Flat bottom	Round bottom	Round bottom	Conical bottom	Conical bottom

Fixed-angle Rotor

BE No.	BE12D4001
Type	Sealed
Max Capacity	10*100ml
Max RCF (xg)	21,280
Max Speed (rpm)	12,000

Adapter(Sets of 6) for BE12D0001

BE No.	No adapter needed	BE12JS003	BE12JR003	BE12JQ003	BE12JN003	BE12JP003	BE12JT003
Max Capacity	100ml	50ml	50ml	25ml	15ml	15ml	2*10ml
Tubes Per Adapter/Rotor	10	1/10	1/10	1/10	1/10	1/10	2/20
Tube							
Max Tube Dimensions (Ø x L mm)	38*120	29*105	29*118	22*110	17*121	17*121	16*86
Tube Type	Round bottom	Round bottom	Conical bottom	Round bottom	Round bottom	Conical bottom	Round bottom

Floor-Standing Highspeed Refrigerated Centrifuge

BE No.	BE12D7001
Type	Sealed
Max Capacity	8*50ml
Max RCF (xg)	38,460
Max Speed (rpm)	18,000

Adapter(Sets of 8) for BE12D7001

BE No.	No adapter needed	BE12JK003
Max Capacity	50ml	15ml
Tubes Per Adapter/Rotor	1/8	1/8
Tube		
Max Tube Dimensions(Ø x L mm)	29*105	17*121
Tube Type	Round bottom	Round bottom

Fixed-angle Rotor

BE No.	BE12D6001
Type	Sealed, round bottom
Max Capacity	6*50ml
Max RCF (xg)	44,800
Max Speed (rpm)	20,000

Adapter(Sets of 6) for BE12D6001

BE No.	No adapter needed	BE12JM003	BE12JL003
Max Capacity	50ml	30ml	15ml
Tubes Per Adapter/Rotor	1/6	1/6	1/6
Tube			
Max Tube Dimensions (Ø x L mm)	29*105	25*102	17*121
Tube Type	Round bottom	Round bottom	Round bottom

BE No.	BE12D8001
Type	Sealed, conical bottom
Max Capacity	6*50ml
Max RCF (xg)	44,800
Max Speed (rpm)	20,000

Adapter(Sets of 6) for BE12D8001

BE No.	No adapter needed	BE12JC002
Max Capacity	50ml	15ml
Tubes Per Adapter/Rotor	1/6	1/6
Tube		
Max Tube Dimensions (Ø x L mm)	29*118	17*121
Tube Type	Conical bottom	Conical bottom

Floor-Standing Highspeed Refrigerated Centrifuge

Fixed-Angle Rotor

BE No.	BE12D3001
Type	Sealed
Max Capacity	12*15ml
Max RCF (xg)	28,618
Max Speed (rpm)	16,000

Tube for BE12D3001	
Max Tube Capacity	15ml
Tube per Rotor	12
Max Tube Dimensions (Ø x L mm)	17*121
Tube Type	Conical bottom

BE No.	BE12D2001
Type	Sealed
Max Capacity (ml)	16*10
Max RCF (xg)	47,400
Max Speed (rpm)	21,000

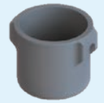
Tube for BE12D2001	
Max Tube Capacity	10ml
Tube per Rotor	16
Max Tube Dimensions (Ø x L mm)	16*86
Tube Type	Round bottom

Swing-out Rotor

Swing-out Rotor Block

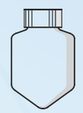
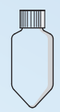
BE No.	BE12FS001
Max. RCF (xg)	3488
Max. speed (rpm)	4000

Round Bucket (Sets of 4)



BE No.	BE12G5000
Max. RCF (xg)	3488
Max. speed (rpm)	4000
Max Capacity	750ml
Bucket Type	Flat bottom

Adapter (Sets of 4) for BE12G5000

BE No.	No adapter needed	BE12J3003	BE12J4003	BE12J5003	BE12J6003	BE12J7003	BE12J8003	BE12J9003	BE12JA003
Max Capacity	750ml	500ml	250ml	4*100ml	7*50ml	16*15ml	23*10ml	31*7/5ml	56*1.5/2ml
Tubes Per Adapter/Rotor	4	1/4	1/4	4/16	7/28	16/64	23/92	31/124	56/224
Tube									
Max Tube Dimensions (Ø x L mm)	99*140	96*150	60*165	38*120	29*118	17*121	16*106	13*75/106	11*38
Tube Type	Flat bottom	Conical bottom	Conical bottom	Round bottom	Conical bottom	Conical bottom	Large blood collection tube	Short/ long blood collection tube	Conical/ Round bottom

Floor-Standing Highspeed Refrigerated Centrifuge

Swing-out Rotor

Swing-out Rotor Block

BE No.	BE12FS001
Max. RCF (xg)	3488
Max. speed (rpm)	4000

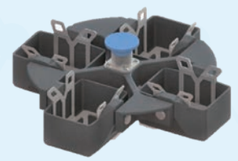
Square Bucket (Sets of 4)

BE No.	BE12HB000
Max. RCF (xg)	3488
Max. speed (rpm)	4000
Max Capacity	-
Bucket Type	Flat bottom

Adapter(Sets of 4) for BE12HB000

BE No.	BE12JB003	BE12JC003	BE12JD003	BE12JE003
Max Capacity	9*50ml	20*15ml	30*10ml	39*7/5ml
Tubes Per Adapter/Rotor	9/36	20/80	30/120	39/156
Tube				
Maximum Tube Dimensions (Ø x L mm)	29*118	17*121	16*106	13*75/106
Tube Type	Conical bottom	Conical bottom	Large blood collection tube	Short/long blood collection tube

Swing-out Rotor



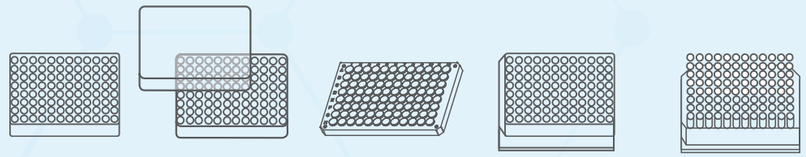
Swing-out Rotor Block

BE No.	BE12FS001
Max. RCF (xg)	3488
Max. speed (rpm)	4000

Rectangular Bucket(Sets of 4)

BE No.	BE12HC000
Max. RCF	3148
Max. speed	4000
Max Capacity	-
Bucket Type	Rectangular bottom Max height 60mm

Plates for BE12HC000



Plates per bucket/rotor	4/16	3/12	3/12	1/4	1/4
W*D*H (mm)	128*86*15	128*86*17.5	128*86*20	128*86*44.5	128*86*60
Plate Type	MTP (without lid)	MTP (with lid)	PCR plate 96-fold	DWP	Filter plate

Floor-Standing Large-Capacity Refrigerated Centrifuge

Haier Biomedical LX-100L1000R is a conventional centrifuge designed for biopharmaceuticals with large capacity 6L, which is widely used in fields such as biopharmaceuticals and academic research. It plays an important role in the processes of protein collection, separation, and purification for samples like macromolecular proteins and bacteria.

LX-100L1000R

- Satisfy the changing application requirements that extend from academic research to production facilities. Offer up to 18,590 x g of centrifugal force and a maximum capacity of 6 liters
- Automatic radio-frequency rotor identification (RFID) that enables immediate identification of a rotor once it is securely placed in the centrifuge chamber, avoid over-speed, reduce error messages, and enhance the safety
- Optimized multi-layer shock absorption technology makes the sound level ≤ 63 (dB (A))
- Low center of gravity design, amplitude less than 0.05mm, ensuring stable operation and good centrifugal effect

Product Parts

Floor-Standing Large-Capacity Refrigerated Centrifuge

Extensive Rotor Portfolio

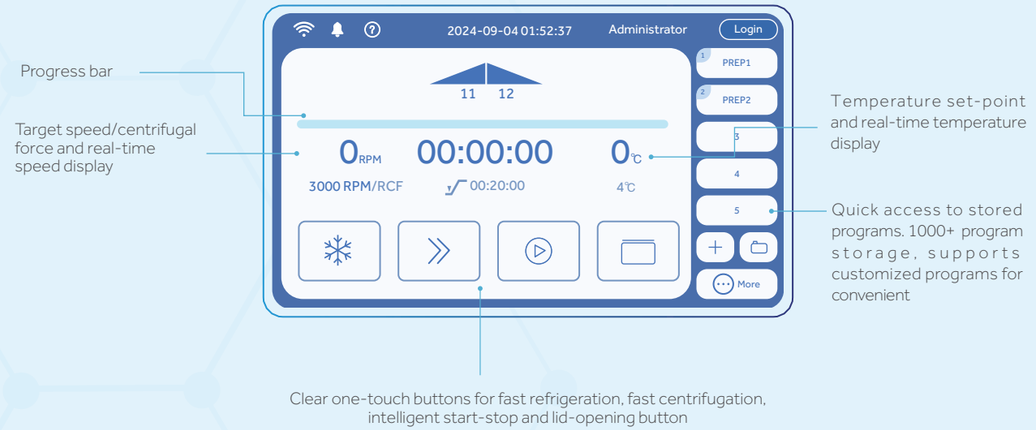
Offering 6*1000ml, 6*500ml fixed-angel rotor with carbon fiber/aluminum alloy for option, and a variety of adapters available, which can accommodate tubes and bottles from 1.5 ml to 1 L

- The high-efficiency carbon fiber rotor achieves the maximum centrifugal force, faster acceleration and deceleration times, and greatly improves centrifugal efficiency
- Corrosion resistance and high strength can ensure the security and durability of the rotor
- The service life can reach up to 15 years

- High-strength, aero-aluminum rotor, which is acid and alkali corrosion-resistant, greatly increases the service life
- A comprehensive adapter portfolio, which is compatible with 500ml, 250ml, 100ml, 50ml, 15ml, 10ml, 5ml tubes and bottles
- The safe usage times can reach up to 50,000

Intuitive Interface

- The 7-inch 45° glove-friendly touchscreen, the wide viewing angle more comfortable and practical for users of all heights
- Easily monitor the display of set and actual run conditions with enlarged track bar during the run for clear visibility, which ensures the operator can see them from a distance
- The speed, centrifugal force, time and temperature can be changed by user during the centrifugation process
- 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
- 11 acceleration + 12 deceleration stages



Floor-Standing Large-Capacity Refrigerated Centrifuge

Enhanced Safety

- Real time loading imbalance detection and intelligent lid locking monitoring, immediate shutdown protection in case of imbalance or lid opening
- Multiple alarms including abnormal voltage alarm, high temperature alarm, overspeed alarm, load imbalance alarm, rotor absent alarm, brake abnormal alarm, rotor life reminder alarm, and other alarm functions
- Adopting Φ80mm adjustable foot for more stable installation
- Fully covered steel plate protective sleeve and 12mm steel shell
- Use of brushless induction motors to provide maintenance-free operation, eliminating carbon particle emissions

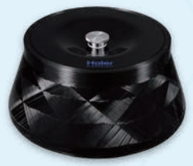
Technical Data

Model	LX-100L1000R
Max Capacity (ml)	6*1000
Speed Range (rpm)	500-10,000
Max RCF (xg)	18,590
Speed Accuracy (rpm)	±10
Time Setting Range	1min~99h59m59s (1-second increment)
Precooling Function	Yes
Temperature Setting Range (°C)	-20~40, adjustable to 1
Display	7 inch touch screen
Cooling	Direct Cooling
Noise (dB (A))	≤63
Power Supply (V/Hz)	400V 3N~50/60
Power (W)	8800
Exterior Dimensions (W*D*H) (mm)	920*740*990
Lid Opening Height (mm)	1720
Net Weight (kg)	380
Packing Dimensions (W*D*H) (mm)	1150*940*1270
Gross Weight (kg)	475
Certification	CE

Laboratory centrifuges contain fluorinated greenhouse gases in the sealing equipment.

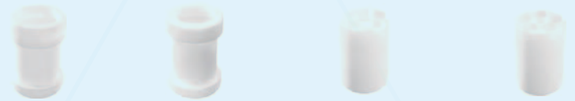
Fixed-Angle Rotor

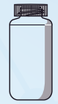
BE No.	BE12DW000
Type	Sealed
Max Capacity	6*1000ml
Max RCF (xg)	14,472
Max Speed (rpm)	8,000



BE No.	BE12DY000
Type	Carbon fiber, Sealed
Max Capacity	6*1000ml
Max RCF (xg)	16,890
Max Speed (rpm)	8,700

Adapter (Sets of 6) for BE12DW000, BE12DY000

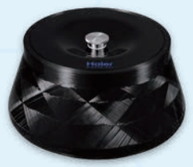


BE No.	No adapter needed	BE12JP002	BE12JQ002	BE12JR002	BE12JS002
Max Capacity	1000ml	500ml	250ml	6*50ml	5*50ml
Tubes per adapter/rotor	6	1/6	1/6	6/36	5/30
Tube					
Max Tube Dimensions (Ø x L mm)	97.5*196	69.5*170	62*123	29*105	29*118
Tube Type	Flat bottom	Flat bottom	Flat bottom	Round bottom	Conical bottom

Floor-Standing Large-Capacity Refrigerated Centrifuge

Fixed-Angle Rotor

BE No.	BE12DW000
Type	Sealed
Max Capacity	6*500ml
Max RCF (xg)	17,700
Max Speed (rpm)	10,000

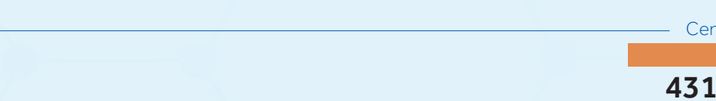


BE No.	BE12DY000
Type	Carbon fiber, Sealed
Max Capacity	6*500ml
Max RCF (xg)	18,590
Max Speed (rpm)	10,000

Adapter (Sets of 6) for BE12DX000, BE12DZ000

BE No.	No adapter needed	BE12JT002	BE12JU002	BE12JV002	BE12JW002
Max Capacity	500ml	250ml	100ml	2*50ml	2*50ml
Tubes per adapter/rotor	6	1/6	1/6	2/12	2/12
Tube					
Max Tube Dimensions (Ø x L mm)	69.5*170	62*123	38*120	29*105	29*118
Tube Type	Flat bottom	Flat bottom	Round bottom	Round bottom	Conical bottom

Adapter (Sets of 6) for BE12DX000, BE12DZ000

BE No.	BE12JX002	BE12JY002	BE12JZ002	BE12J0003	BE12J1003
Max Capacity	4*30ml	7*15ml	8*10ml	10*5ml	14*1.5/2ml
Tubes per adapter/rotor	4/24	7/42	8/48	10/60	14/84
Tube					
Max Tube Dimensions (Ø x L mm)	25*102	17*121	16*86	13*54	11*38
Tube Type	Round bottom	Conical bottom	Round bottom	Round bottom	Conical/Round bottom

Benchtop High-Speed Refrigerated Microcentrifuge

Scope of Application

It is widely used in fields such as life sciences, biology, medical research, pharmaceuticals, geology, agriculture and forestry, petrochemicals, light industry, and metal particles, for rapid separation and extraction of trace samples.
It can also be used as IVD (In vitro diagnostic) laboratory equipment if used together with IVD tubes and IVD diagnostic analysis systems. The centrifuge separates human blood, which is used in numerous diagnostic tests such as hematological screening, immunological screening and cardiovascular system assessment.

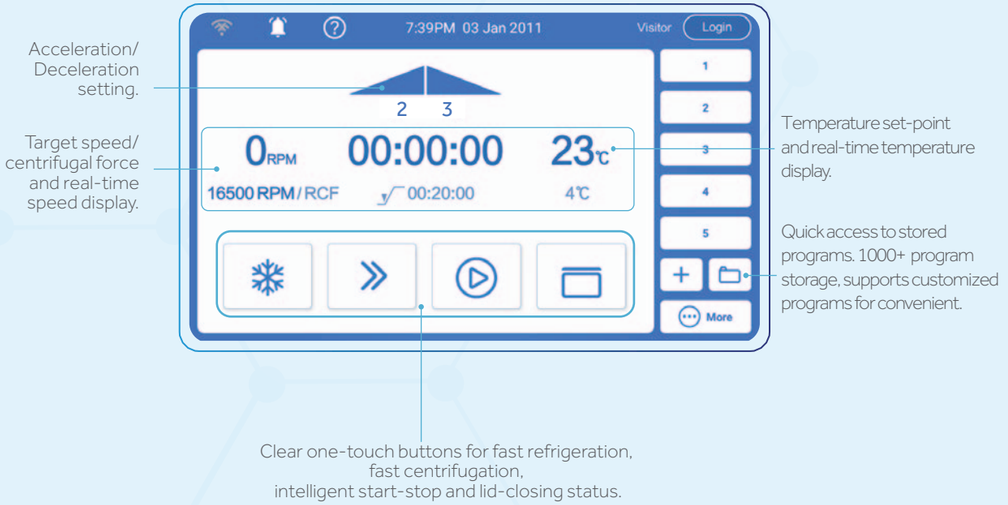
LX-165T2R

Product Features

- Short pre-cooling time of only 5minutes from room temperature to 4°C
- 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

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



Benchtop High-Speed Refrigerated Microcentrifuge

Product Parts

Intelligent lid locking monitoring and automatic self-locking to ensure safe operation

Triple-layer construction to ensure safe use

Viewing port in the lid for observing the operating condition of the rotor

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

Drainage tray to prevent internal water accumulation and improve corrosion resistance

316 stainless steel centrifuge chamber is rust-free and easy to clean

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 (rpm)	Time Setting Range	Precooling Function	Temperature Setting Range(°C)	Display
LX-165T2R	12*10 ml	500-16500	25872	±10	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

Laboratory centrifuges contain fluorinated greenhouse gases in the sealing equipment.

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)	1.5/2	1.5/2	5	0.2 ml 8-strip PCR	7
Max Tube Dimensions (Ø x L mm)	11*38	11*38	13.5*75	6*18	13*106
Tube Type	Round /Conical bottom	Round /Conical bottom	Round bottom	PCR	Long 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	Short 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

It is widely used in fields such as life sciences, biology, medical research, pharmaceuticals, geology, agriculture and forestry, petrochemicals, light industry, and metal particles, for rapid separation and extraction of trace samples.
It can also be used as IVD (In vitro diagnostic) laboratory equipment if used together with IVD tubes and IVD diagnostic analysis systems. The centrifuge separates human blood, which is used in numerous diagnostic tests such as hematological screening, immunological screening and cardiovascular system assessment.

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

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.

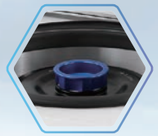
Benchtop High-Speed Microcentrifuge

Product Parts

Patented anti-seismic door lock. In case of abnormal vibration, the cover can be locked reliably

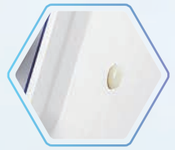
Unique air duct structure design, the heat inside the centrifugal chamber can dissipate quickly

USB port for exporting operation record including speed, time and temperature, operation curve with alarm messages etc



316 stainless steel centrifuge chamber is rust-free and easy to clean

Triple-layer construction to ensure safe use



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

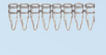
Specifications

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

Laboratory centrifuges contain fluorinated greenhouse gases in the sealing equipment.

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)	1.5/2	1.5/2	5	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 Multipurpose Refrigerated Centrifuge

Scope of Application

Designed for general-purpose applications, it is widely used in fields such as life sciences, biology, medical research, pharmaceuticals, geology, agriculture and forestry, petrochemicals, light industry, and metal particles, for rapid separation and extraction of trace samples.
It can also be used as IVD (In vitro diagnostic) laboratory equipment if used together with IVD tubes and IVD diagnostic analysis systems. The centrifuge separates human blood, which is used in numerous diagnostic tests such as hematological screening, immunological screening and cardiovascular system assessment.

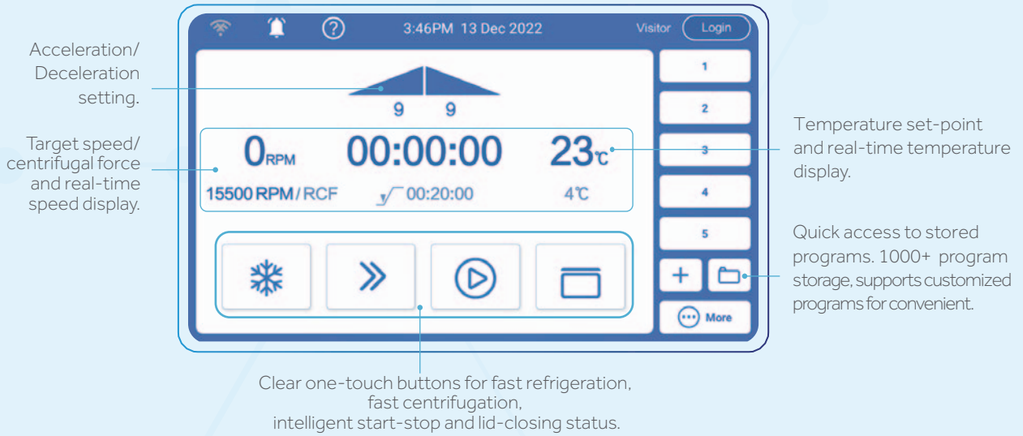
LX-155T500R

Product Features

- Short pre-cooling time and precise temperature control performance
- 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
- ECO shut-off function reduce energy consumption and extend compressor life
- Optimized sound design for low noise levels (≤55dB(A))
- Automatic radio-frequency rotor identification (RFID) 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

- 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



Benchtop Multipurpose Refrigerated Centrifuge

Product Parts

Intelligent lid locking monitoring and automatic self-locking to ensure safe operation

Gas springs with safety protection

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

Triple-layer construction to ensure safe use

316 stainless steel centrifuge chamber is rust-free and easy to clean

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.

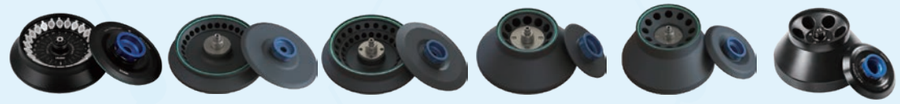
Specifications

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

Laboratory centrifuges contain fluorinated greenhouse gases in the sealing equipment.

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)	1.5/2	1.5/2	1.5/2	10	15	50
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

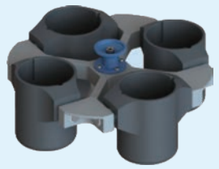
Benchtop Multipurpose Refrigerated Centrifuge

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)	50	0.2 ml 8-strip PCR	15	50(15)	100
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

Swing-Out Rotor

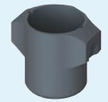


Swing-Out Rotor with Round Buckets

Swing-Out Rotor Block

BE No.	BE12FJ001
Max. RCF (xg)	3184
Max. speed (rpm)	4000

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.	BE12FJ001
Max. RCF (xg)	3184
Max. speed (rpm)	4000

Round Bucket& Lid (sets of 4)

BE No.	BE12G8000	BE12J2004
Max Capacity	500ml	NA
Bucket Type	Flat bottom	NA

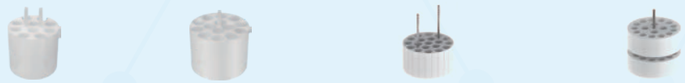
Adapter (Sets of 4) for BE12G0000,BE12G8000

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

*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 Multipurpose Refrigerated 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	16*106	13*75/106	11*38
Tube Type	Conical bottom	Large blood collection tube	Short/Long 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 Plate Buckets

Swing-Out Rotor Block

BE No.	BE12FJ001
Max. RCF (xg)	2612
Max. speed (rpm)	4000

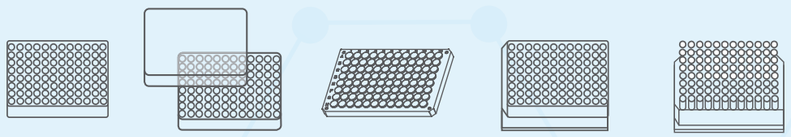
Plate Bucket (Sets of 4)

BE No.	BE12H5000
Max Capacity	1 plate
Bucket Type	Rectangular bottom

Plate Swing-out Rotor

BE No.	BE12FQZ01
Max. RCF (xg)	2361
Max. Speed (rpm)	4000
Max Capacity	-
Bucket Type	Rectangular bottom Max height 60mm

Plates for BE12FQZ01



Plates per bucket/rotor	4/8	3/6	3/6	1/2	1/2
W*D*H (mm)	128*86*15	128*86*17.5	128*86*20	128*86*44.5	128*86*60
Plate Type	MTP (without lid)	MTP (with lid)	PCR plate 96-fold	DWP	Filter plate

Benchtop High-Speed Refrigerated Centrifuge

Scope of Application

Designed for general-purpose applications, it is widely used in fields such as life sciences, biology, medical research, pharmaceuticals, geology, agriculture and forestry, petrochemicals, light industry, and metal particles, for rapid separation and extraction of trace samples.
It can also be used as IVD (In vitro diagnostic) laboratory equipment if used together with IVD tubes and IVD diagnostic analysis systems. The centrifuge separates human blood, which is used in numerous diagnostic tests such as hematological screening, immunological screening and cardiovascular system assessment.

LX-185T100R

Product Features

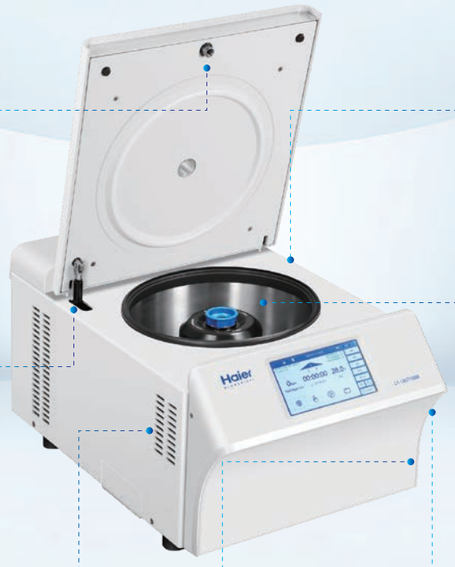
- Wide range of rotors for application flexibility, compatible with tubes/bottles from 0.2 ml to 100ml
- Short pre-cooling time and precise temperature control performance
- Fast sample processing at maximum speeds of up to 18,500 rpm (30,130xg)
- Use of brushless induction motors to provide maintenance-free 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

Benchtop High-Speed Refrigerated Centrifuge

Product Parts



Intelligent lid locking monitoring and automatic self-locking to ensure safe operation

Triple-layer construction to ensure safe use

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

USB port for exporting operation record including speed, time and temperature, operation curve with alarm messages etc

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

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.

Specifications

Model	Maximum Capacity	Speed Range (rpm)	Max RCF(xg)	Speed Accuracy (rpm)	Time Setting Range	Precooling Function	Temperature Setting Range(℃)	Display
LX-185T100R	6*100 ml	500~18500	30130	±10	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

Laboratory centrifuges contain fluorinated greenhouse gases in the sealing equipment.

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	20124	16071	13200
Max Speed (rpm)	18500	17500	13000	15000	12500	12000
Tubes per Rotor	12	24	48	12	12	8
Tube						
Max Tube Capacity (ml)	1.5/2	1.5/2	1.5/2	5	10	15
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

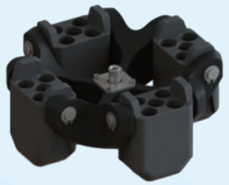
Benchtop High-Speed Refrigerated Centrifuge

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)	50	50	0.2ml 8-strip PCR	15	50(15)	100
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

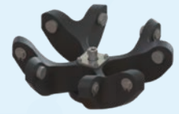
Adapter(Sets of 6) for BE12DD000

BE No.	BE12JC002
Max Capacity	15ml
Tube	
Max Tube Dimensions (Ø x L mm)	17*121
Tube Type	Conical bottom

Swing-Out Rotor



Swing-Out Rotor Block



BE No.	BE12FD001
Max. RCF (xg)	3322
Max. speed (rpm)	4600

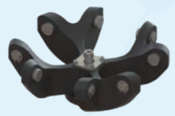
Bucket (Sets of 4)

BE No.	BE12H1000
Max Capacity	5*10/7ml
Tubes per bucket/rotor	5/20
Tube	
Max Tube Dimensions (Ø x L mm)	16*106
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	Short blood collection tube

Swing-Out Rotor Block



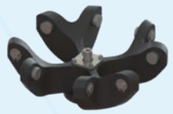
BE No.	BE12FD001
Max. RCF (xg)	3322
Max. speed (rpm)	4600

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

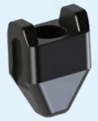
Benchtop High-Speed Refrigerated Centrifuge

Swing-Out Rotor Block



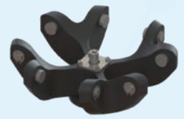
BE No.	BE12FD001
Max. RCF (xg)	3322
Max. speed (rpm)	4600

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

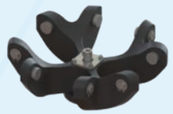


BE No.	BE12FD001
Max. RCF (xg)	3322
Max. speed (rpm)	4600

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

Swing-Out Rotor Block



BE No.	BE12FD001
Max. RCF (xg)	3322
Max. speed (rpm)	4600

Bucket (Sets of 4)

BE No.	BE12G7000	BE12J1004
Max Capacity	100ml	NA
Bucket Type	Flat bottom	NA

Adapter(Sets of 4) for BE12G7000

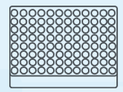
BE No.	BE12JU003	BE12JV003	BE12JW003*	BE12JX003	BE12JY003	BE12JZ003	BE12J0004
Max Capacity	100ml	50ml	2*15ml	15ml	4*10ml	4*5/7ml	4*1.5/2ml
Tubes per adapter/rotor	1/4	1/4	2/8	1/4	4/16	4/16	4/16
Tube							
Max Tube Dimensions (Ø x L mm)	41*120	29*118	17*121	17*121	16*106	13*75/106	11*38
Tube Type	Round bottom	Conical bottom	Conical bottom	Conical bottom	Large blood collection tube	Short/Long blood collection tube	Round/Conical bottom

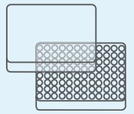
*During the use of this adapter, the biocontainment lid is in an unavailable state.

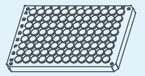
BE No.	BE12FC001
Max. RCF (xg)	2287
Max. speed (rpm)	4500
Max Capacity	2 plates
Bucket Type	Rectangular bottom

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 Centrifuge

Scope of Application

Mainly applied to the experimental processes of collecting, separating, and purifying samples such as cells, macromolecular proteins, blood, body fluids, DNA/RNA, plasmids, and viruses. Widely used in universities, third party testing organizations, disease prevention, medical and health, biological pharmaceutical and other related fields.

LX-185T100-J

Product Features

- Wide range of rotors for application flexibility, compatible with tubes/bottles from 0.2 ml to 100ml.
- Optimized sound design for low noise levels (≤ 63dB(A)).
- Fast sample processing at maximum speeds of up to 18,500 rpm (30,130 xg).
- Automatic rotor identification locks the maximum rotational speed to prevent overspeed operation.
- 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.

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 High-Speed Centrifuge

Patented anti-seismic door lock. In case of abnormal vibration, the cover can be locked reliably.

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.

Dual gas springs for easy door opening and 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.

Specifications

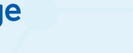
Model	Maximum Capacity	Speed Range (rpm)	Max RCF (xg)	Speed Accuracy	Time Setting Range	Display	Noise dB (A)	Power Supply (V/Hz)
LX-185T100-J	6*100ml	500-18500	30130	±10rpm	1s~99h59m59s (1-second increment)	LED	≤63	AC220/50/60

Power (W)	Exterior Dimensions (W*D*H) (mm)	Lid Opening Height (mm)	Net Weight (kg)	Packing Dimensions (W*D*H)(mm)	Gross Weight(kg)
500	440*600*346	795	47	541*695*510	54

BE No.	BE12CK000	BE12CL000	BE12CH000	BE12DF001	BE12DH001	BE12DJ001
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 xL 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

Benchtop High-Speed Centrifuge

Fixed-Angle Rotor

BE No.	BE12DG001	BE12DK001	BE12E6000	BE12DE001	BE12DD001	BE12DC001
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 xL 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

Swing-Out Rotor Block

BE No.	BE12FR001
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)	16*106
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 High-Speed Centrifuge

Fixed-Angle Rotor

Swing-Out Rotor Block

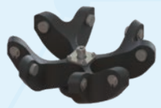
BE No.	BE12FR001
Max. RCF	3322xg
Max. speed	4600rpm

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

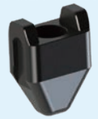
Swing-Out Rotor

Swing-Out Rotor Block



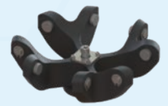
BE No.	BE12FR001
Max. RCF	3322xg
Max. speed	4600rpm

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.	BE12FR001
Max. RCF	3322xg
Max. speed	4600rpm

Bucket (Sets of 4)

BE No.	BE12G7000	BE12J1004
Max Capacity	100ml	NA
Bucket Type	Flat bottom	NA

Adapter(Sets of 4) for BE12G7000

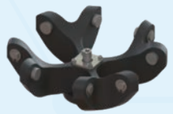
BE No.	BE12JU003	BE12JV003	BE12JW003*	BE12JX003	BE12JY003	BE12JZ003	BE12J0004
Max Capacity	100ml	50ml	2*15ml	15ml	4*10ml	4*5/7ml	4*1.5/2ml
Tubes per adapter/rotor	1/4	1/4	2/8	1/4	4/16	4/16	4/16
Tube							
Max Tube Dimensions (Ø x L mm)	41*120	29*118	17*121	17*121	16*106	13*75/106	11*38
Tube Type	Round bottom	Conical bottom	Conical bottom	Conical bottom	Large blood collection tube	Short/long blood collection tube	Round/Conical bottom

*During the use of this adapter, the biocontainment lid is in an unavailable state.

Benchtop High-Speed Centrifuge

Swing-Out Rotor

Swing-Out Rotor Block



BE No.	BE12FR001
Max. RCF	3322xg
Max. speed	4600rpm

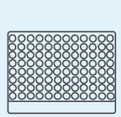
BD CPT tube bucket (sets of 4)

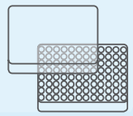
BE No.	BE12G6000
Max Capacity	8ml
Tubes per bucket/rotor	1/4
Tube	
Max Tube Dimensions (Ø x L mm)	16*130
Tube Type	Round bottom

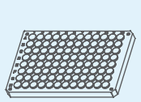
BE No.	BE12CJ000
Max. RCF	2287xg
Max. speed	4500rpm
Max Capacity	2 plates
Bucket Type	Rectangular bottom

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 Low-Speed Centrifuge

Scope of Application

Designed for general-purpose applications, it is widely used in fields such as life sciences, biology, medical research, pharmaceuticals, geology, agriculture and forestry, petrochemicals, light industry, and metal particles, for rapid separation and extraction of trace samples.
It can also be used as IVD (In vitro diagnostic) laboratory equipment if used together with IVD tubes and IVD diagnostic analysis systems. The centrifuge separates human blood, which is used in numerous diagnostic tests such as hematological screening, immunological screening and cardiovascular system assessment.

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

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

Benchtop Low-Speed Centrifuge

Product Parts

Specifications

Model	Maximum Capacity	Speed Range (rpm)	Max RCF(xg)	Speed Accuracy (rpm)	Time Setting Range	Display	Noise Level dB(A)	Power Supply
LX-60T100-J	6*100ml	500~6000	4749	±10	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
175	340*447*281	627	25	441*544*421	28	CE

Laboratory centrifuges contain fluorinated greenhouse gases in the sealing equipment.

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 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	15	15 10 Blood tube	100	10	10
Max Tube Dimensions (Ø x L mm)	29*118 17*121	17*121	17*121 16*106	41*120	15*105	15*105
Tube Type	Round/Conical bottom	Round/Conical bottom	Round/Conical bottom Large blood collection tube	Round bottom	Large blood collection tube	Large blood collection tube

Benchtop Low-Speed Centrifuge

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 (xg)	2770xg
Max. speed (rpm)	4200rpm

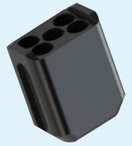
Bucket (Sets of 4)

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*106 13*75
Tube Type	15ml(Conical bottom) 10ml/5ml(Round bottom)

Swing-Out Rotor Block

BE No.	BE12F2001
Max. RCF (xg)	2770xg
Max. speed (rpm)	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)	16*106
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.	BE12F2001
Max. RCF (xg)	2770
Max. speed (rpm)	4200

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 (xg)	2770
Max. speed (rpm)	4200

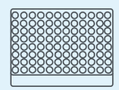
Bucket (Sets of 4)

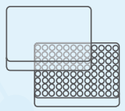
BE No.	BE12H3000
Max Capacity	50ml
Tubes per bucket/rotor	1/4
Tube	
Max Tube Dimensions (Ø x L mm)	29*118
Tube Type	Conical bottom

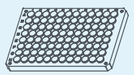
BE No.	BE12F3001
Max. RCF (xg)	2130
Max. speed (rpm)	4200
Max Capacity	2 plates
Bucket Type	Rectangular bottom

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

Designed for general-purpose applications, it is widely used in fields such as life sciences, biology, medical research, pharmaceuticals, geology, agriculture and forestry, petrochemicals, light industry, and metal particles, for rapid separation and extraction of trace samples.
It can also be used as IVD (In vitro diagnostic) laboratory equipment if used together with IVD tubes and IVD diagnostic analysis systems. The centrifuge separates human blood, which is used in numerous diagnostic tests such as hematological screening, immunological screening and cardiovascular system assessment.

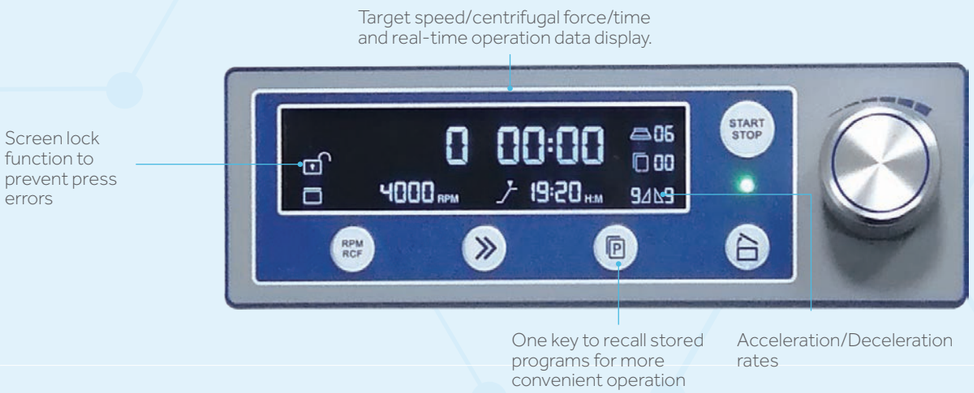
LX-60T500-J

Product Features

- Wide range of rotors for application flexibility, compatible with tubes/bottles from 0.2 ml to 500ml
- Automatic rotor identification 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
- Optimized sound design for low noise levels(≤65dB(A))
- 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
- 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

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 Low-Speed Large-Capacity Centrifuge

Specifications

Model	Maximum Capacity	Speed Range (rpm)	Max RCF(xg)	Speed Accuracy (rpm)	Time Setting Range	Display	Noise Level dB(A)	Power Supply
LX-60T500-J	4*500 ml	500~6000	5353	±10	1s~99h59m59s (1-second increment)	LED	≤65	AC220/50/60

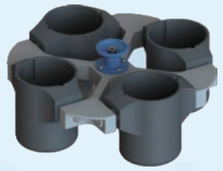
Power(W)	Exterior Dimensions (W*D*H)(mm)	Lid Opening Height (mm)	Net Weight (kg)	Packing Dimensions (W*D*H)(mm)	Gross Weight (kg)	Certifications
700	478*624*365	840	60	560*752*562	75	CE

Laboratory centrifuges contain fluorinated greenhouse gases in the sealing equipment.

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)	50 (15)	15	15	100	10
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

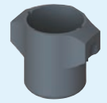


Swing-out rotor with round buckets

Swing-Out Rotor Block

BE No.	BE12FK001
Max. RCF (xg)	3184
Max. speed (rpm)	4000

Round Bucket (Sets of 4)



BE No.	BE12G0000
Max Capacity	500ml
Bucket Type	Flat bottom

Swing-Out Rotor with Biocontainment Round Buckets

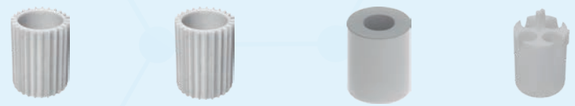
Swing-Out Rotor Block

BE No.	BE12FK001
Max. RCF (xg)	3184
Max. speed (rpm)	4000

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

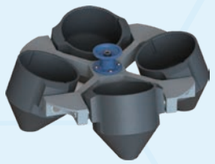


BE No.	No Adapter Needed	BE12JP001	BE12FG001	BE12FF001	BE12JS001
Max Capacity	500ml	250ml	225ml	100ml	4*50ml
Tubes Per Adapter/Rotor	4	1/4	1/4	1/4	4/16
Tube					
Max Tube Dimensions (Ø x L mm)	80*136	62*123	60*136	38*120	29*118
Tube Type	Flat bottom	Flat bottom	Conical bottom	Round bottom	Conical bottom

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	16*106	13*75/106	11*38
Tube Type	Conical bottom	Large blood collection tube	Short/Long blood collection tube	Round/Conical bottom

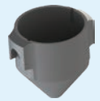


Swing-Out Rotor with Conical Buckets

Swing-Out Rotor Block

BE No.	BE12FK001
Max. RCF	3506xg
Max. speed	4000rpm

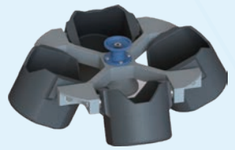
Conical Bucket (Sets of 4)



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

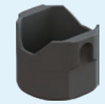


Swing-Out Rotor with Square Buckets

Swing-Out Rotor Block

BE No.	BE12FK001
Max. RCF (xg)	3220
Max. speed (rpm)	4000

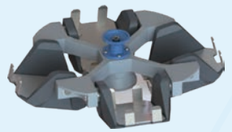
Square Bucket (Sets of 4)



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*75/106
Tube Type	Short/Long blood collection tube



Swing-Out Rotor with Plate Buckets

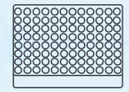
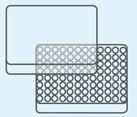
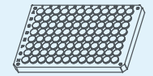
Swing-Out Rotor Block

BE No.	BE12FK001
Max. RCF (xg)	2612
Max. speed (rpm)	4000

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

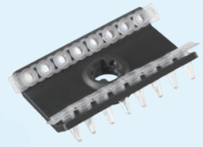
Safe
- Safety interlock lid with automatic shut-off if lid is open
- Anti vibration & absorption suction cup Splash and leak protection

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

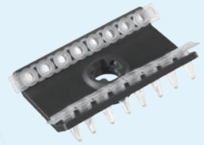
Laboratory centrifuges contain fluorinated greenhouse gases in the sealing equipment.

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

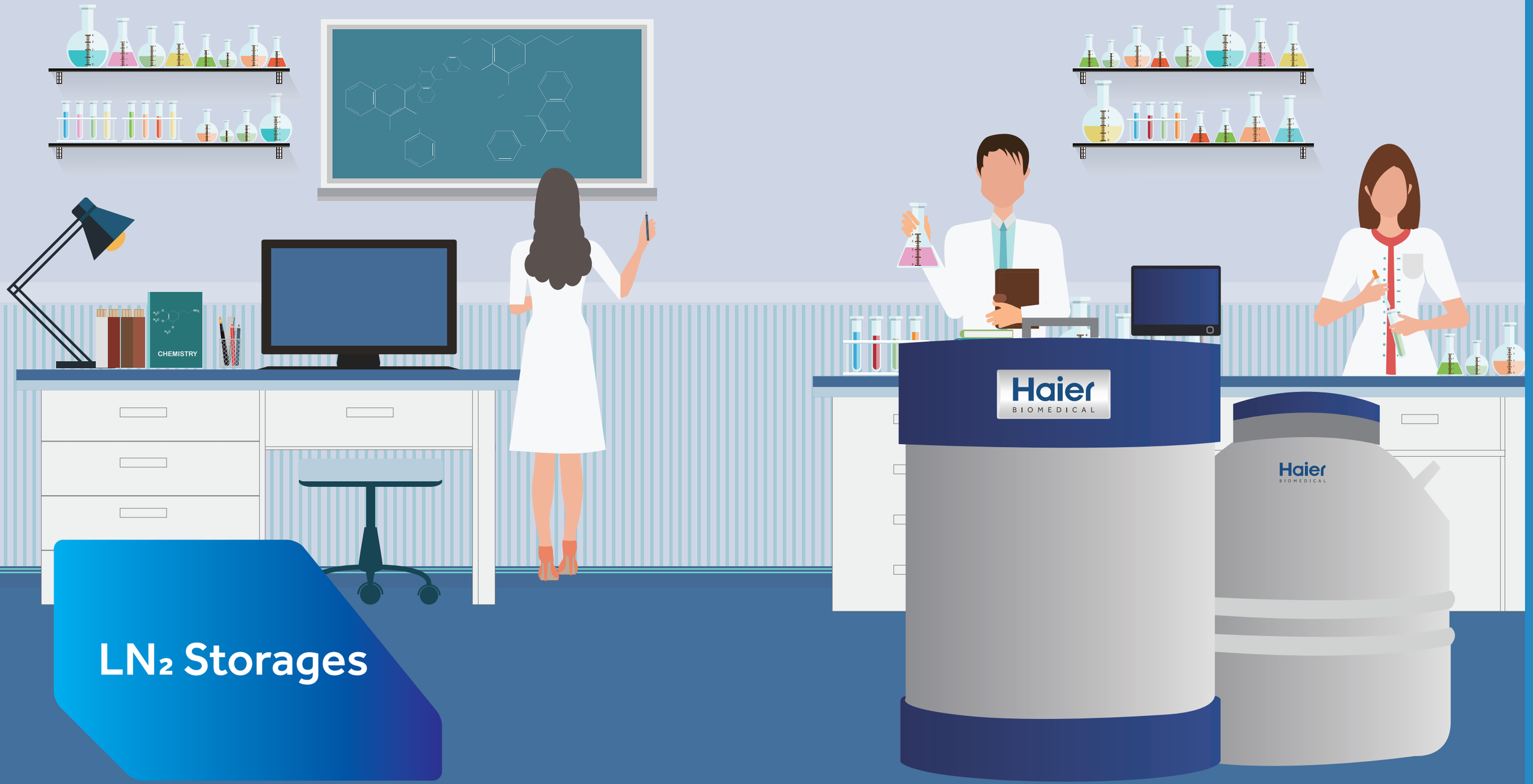


Type	Fixed-Angle Rotor	Fixed-Angle Rotor
Max Capacity	8*1.5/2 ml	2*8*0.2 ml
Max RCF (xg)	1270	1150
Max Speed (rpm)	5000	5000
Tubes per Rotor	8	2
Tube		
Max Tube Capacity (ml)	1.5/2	0.2 8-strip PCR
Max Tube Dimension (Ø x L mm)	11*38	6*18
Tube Type	Round/Conical bottom	PCR

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

Haier Biomedical
Intelligent Protection of Life Science



LN_2 Storages

Biobank Series for Large Scale Storage

Biobank series for large scale storage is designed to ensure the maximum storage capacity with the minimumconsumption of liquid nitrogen to lower the overall cost of operation .

- LN₂ Splash Proof
- Data Logging
- Hot Gas Bypass
- 5 Year Vacuum Warranty
- From 13,000 to 94,875 Cryovials
- IoT Enabled
- Vapour Phase Storage
- Lockable Lid
- Liquid Phase Storage
- One-touch Defogging
- Vapour Phase Storage

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
- LN₂ splash proof 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 vapour 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.

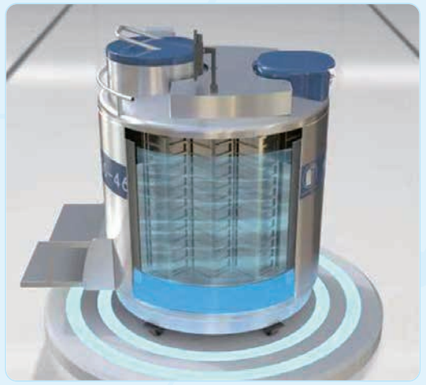
Cryosmart Level Monitoring System ITC-800N201(N4.1)

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.

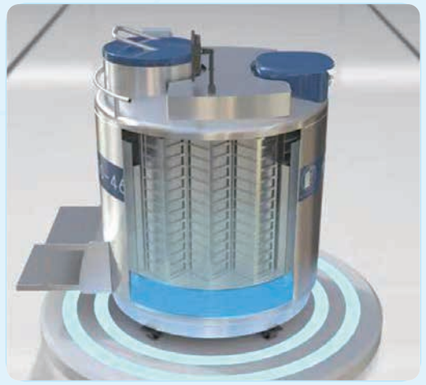
Biobank Series for Large Scale Storage

Liquid and Gas Phase

Liquid Phase



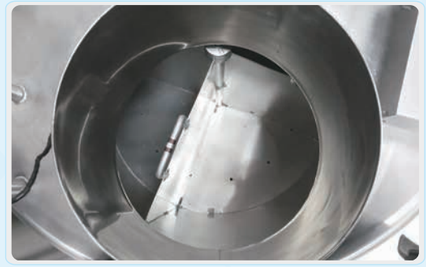
Gas Phase



Top of the Container

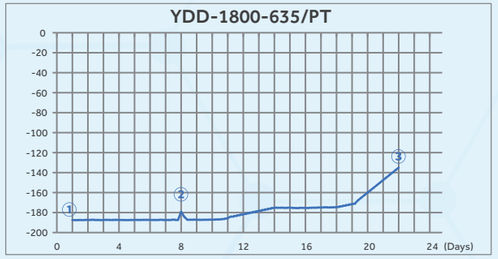
Liquid Feed System

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.

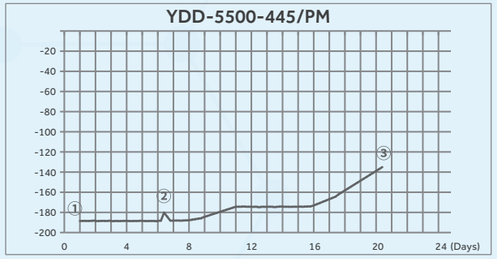


The large-caliber stainless steel liquid nitrogen biological container is matched with a self pressurizing replenishment tank, which is suit able for scientific research institutions with a small sample storage capacity.

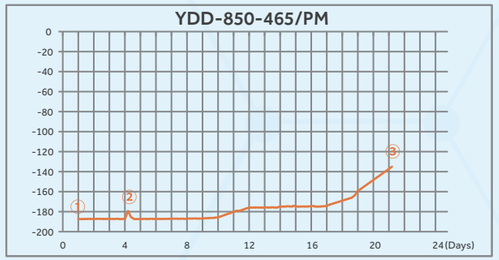
Temperature Test Graph



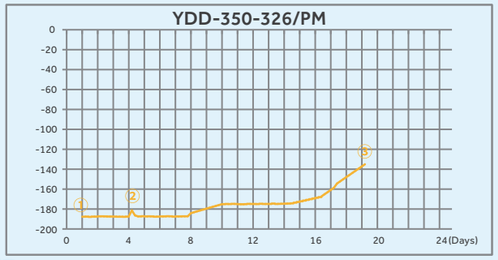
① Precooling stage when freezer filled to high level
② Lid open test, -179.2°C max
③ With no liquid nitrogen supply, the temperature maintained below -135°C for 22 days



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

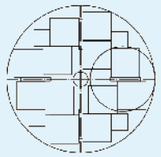
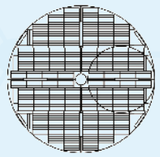
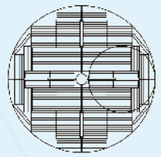
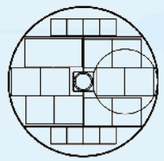
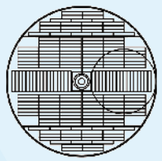
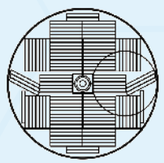
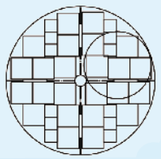
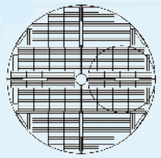
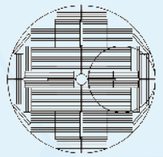
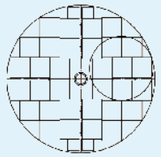
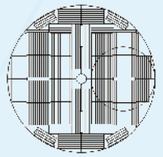
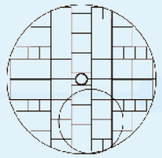
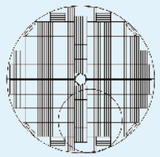
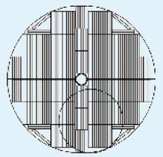
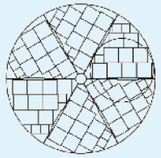
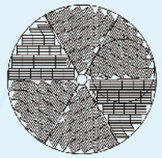
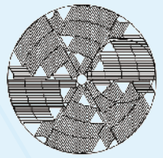
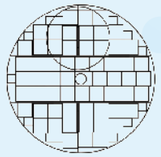
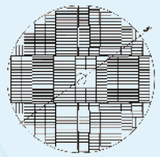
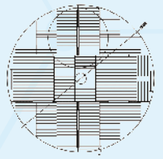
Model	YDD-850-465/PM	YDD-1000-465/PT	YDD-1300-635/PM	YDD-1600-635/PM	YDD-1800-635/PT
2ml Volume	43K	51K	59K	76K	95K
Maximum Storage Capacity					
2 ml Vials (Internal Thread)	42900	51000	58500	76050	94875
Freeze Rack (100 wells)	32	30	54	54	60
Freeze Rack (25 wells)	4	16	18	18	13
Layers of each Rack	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

Model	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

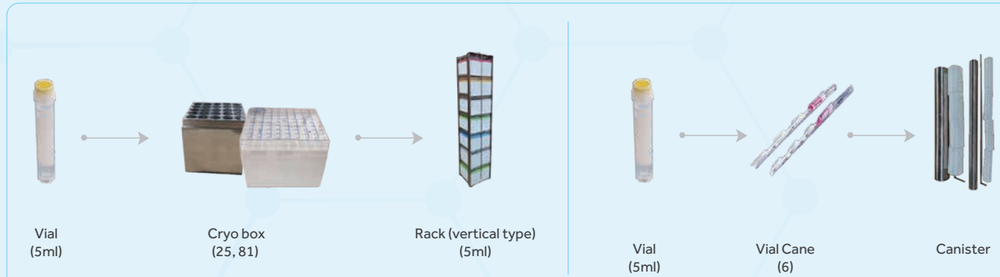
Racks (vertical type) and Blood bag Frame

	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

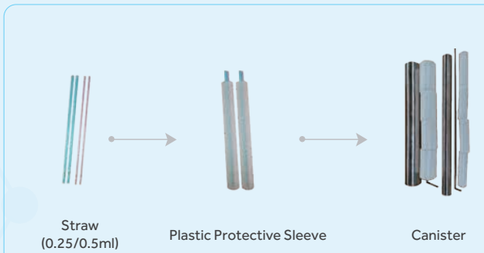
Storage Example of 2ml Internally Threaded Vial

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	Description and Accessories
YDD-350-326/ PM(13K)	Biobank freezer (Smart type)	YDD-350-326 /PM	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 cryo smart (level monitoring system)
	Biobank freezer	YDD-350-326/PM	Includes vacuum isolated hose (GRG-DN10/2.0). Rack and intelligent level monitoring system are optional
	Rack (vertical type)	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	Used for storing 9*9 cryoboxes (2ml). Ten layers in total. Suitable for YDD-350/550/1300 (excluding cryoboxes)
	Plastic cryo box	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N	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	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	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	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	Used for storing 9*9 cryoboxes (2ml), Twelve layers in total, suitable for YDD-370 (excluding cryoboxes)
	Plastic cryo box	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N	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	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	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	FDCJ-25-15	Used for storing 5*5 cryoboxes (2ml), Fifteen layers in total, suitable for YDD-1000/1800 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-15	Used for storing 9*9 cryoboxes (2ml), Fifteen layers in total, suitable for YDD-1000/1800 (excluding cryoboxes)
	Plastic cryo box	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N	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	Description and Accessories
YDD-550-445/ PM(27K)	Biobank freezer (Smart type)	YDD-550-445 /PM	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	Includes vacuum isolated hose (GRG-DN10/2.0). Rack and intelligent level monitoring system are optional
	Rack (vertical type)	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	Used for storing 9*9 cryoboxes (2ml), Ten layers in total, Suitable for YDD-350/550/1300 (excluding cryoboxes)
	Plastic cryo box	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N	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	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	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	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	Used for storing 9*9 cryoboxes (2ml), Fourteen layers in total, suitable for YDD-450/750 (excluding cryoboxes)
	Plastic cryo box	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N	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	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	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	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	Used for storing 9*9 cryoboxes (2ml), Thirteen layers in total, suitable for YDD-850/1600 (excluding cryoboxes)
	Plastic cryo box	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N	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	Description and Accessories
YDD-1000-465/PT(51K)	Biobank freezer (Smart type)	YDD-1000-465 /PT	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	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	FDCJ-25-15	Used for storing 5*5 cryoboxes (2ml), Fifteen layers in total. suitable for YDD-1000/1800 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-15	Used for storing 9*9 cryoboxes (2ml), Fifteen layers in total, suitable for YDD-1000/1800 (excluding cryoboxes)
	Plastic cryo box	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N	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	Includes vacuum isolated hose(GRG-DN10/2.0), 18pcs of 10-tier rack(5*5), 54 pcs of 10-tier rack(9*9), 180pcs of cryo boxes for 2ml vial(5*5), 540pcs of cryo boxes for 2ml vial(9*9), 1 set of cryosmart(level monitoring system)
	Biobank freezer	YDD-1300-635 /PM	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	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	Used for storing 9*9 cryoboxes (2ml), Ten layers in total. Suitable for YDD-350/550/1300 (excluding cryoboxes)
	Plastic cryo box	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N	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	Includes vacuum isolated hose(GRG-DN10/2.0), 18pcs of 13-tier rack(5*5), 54 pcs of 13-tier rack(9*9), 234pcs of cryo boxes for 2ml vial(5*5), 702pcs of cryo boxes for 2ml vial(9*9), 1 set of cryosmart(level monitoring system)
	Biobank freezer	YDD-1600-635 /PM	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	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	Used for storing 9*9 cryoboxes (2ml). Thirteen layers in total, suitable for YDD-850/1600 (excluding cryoboxes)
	Plastic cryo box	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N	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	Description and Accessories
YDD-1800-635/PT(95K)	Biobank freezer (Smart type)	YDD-1800-635 /PT	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	Includes vacuum isolated hose (GRG-DN10/2.0), Rack and intelligent level monitoring system are optional
	Rack (vertical type)	FDCJ-25-15	Used for storing 5*5 cryoboxes (2ml). Fifteen layers in total, suitable for YDD-1000/1800 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-81-15	Used for storing 9*9 cryoboxes (2ml), Fifteen layers in total, suitable for YDD-1000/1800 (excluding cryoboxes)
	Plastic cryo box	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
	Cryosmart level monitoring system	ITC-800N	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	Data Repeater	RP-400	Data transmitted to cloud platform through GPRS, with SIM card included, suitable for all YDD products of Haier
	Blood bag frame	DCJ-250-3	3 layers frame used for storing 250ml blood bag, each layer storing one blood bag, with blood bag cassettes included. SuitableforYDD-350/550/1300
	Blood bag frame	DCJ-250-4	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	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-25-6	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	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	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	9 layers frame used for storing 25ml blood bag, each layer storing one blood bag, with blood bag cassettes included. suitable for YDD-450-326/PT, YDD-1000-465/PM, YDD-1800-625/PT
	Blood bag frame	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	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	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	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	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	Used for storing 5*5 cryoboxes (5ml), seven layers in total, suitable for YDD-850/1600 (excluding cryoboxes)
	Rack (vertical type)	FDCJ-25-9/5.0	Used for storing 5*5 cryoboxes(5ml), nine layers in total, suitable for YDD-450\750\1000\1800(excluding cryoboxes)
	Rack (vertical type)	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	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	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	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	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	Used for storing 8 holes aluminium cryoboxes (2ml). Nine layers in total. with aluminium cryoboxes included. suitableforYDD-350/550/1300
	Round Rack	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 43

CryoBio 13

•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

Follow the QR code and learn more about the CryoBio 43 from Haier Biomedical

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 LN₂ (L)
CryoBio 13	13000	12	4	10	5360	12	4	5	350

Volume of LN₂ Under the tray (L)	Operating Height (mm)	Usable Interna 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	290	575

Model	1.2ml/1.8ml2ml Vials (Internal Thread)	Freeze Rack (100 Wells)	Freeze Rack (25 Wells)	Layers of Each Rack	Volume of LN₂ (L)	Volume of LN₂ Under the tray (L)
CryoBio 43	42900	32	4	13	890	135

Operating Height (mm)	Usable Interna 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	567	1262	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	Description and Accessories
CryoBio 13 (13K)	Biobank Freezer (Smart type)	CryoBio 13	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 ml vial, 1 set of cryosmart (level monitoring sys em)
	Biobank freezer	CryoBio 13	Includes vacuum isolated hose (GRG-DN10/2.0) and 1 set of cryosmart (level monitoring system)
	Rack (vertical type)	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	Used for storing 9*9 cryoboxes (2ml). ten layers in total. Suitable for YDD-350/550/1300 (excluding cryoboxes)
	Plastic cryo box	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
CryoBio 43 (43K)	Biobank Freezer (Smart type)	CryoBio 43	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 cryo smart (level monitoring system)
	Biobank Freezer	CryoBio 43	Includes vacuum isolated hose (GRG-DN10/2.0). 1 set of cryosmart (level monitoring system)
	Rack (vertical type)	FDCJ-25-13	Used for storing 5*5 cryo boxes (2ml), Thirteen layers in total, suitable for YDD-850/1600 (excluding cryo boxes)
	Rack (vertical type)	FDCJ-81-13	Used for storing 9*9 cryo boxes (2ml), Thirteen layers in total, suitable for YDD-850/1600 (excluding cryo boxes)
	Plastic cryo box	FH-25	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic crvo box	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)

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.

Follow the QR code and learn more about the
Intelligent Liquid Nitrogen Biological Container from Haier Biomedical

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)	730*1035*1190		910*1170*1190		1100*1410*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	Description and Accessories
CryoBio 11Z (11K)	Zhiling Liquid Nitrogen Container (Smart type)	CryoBio 11Z	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	Includes vacuum isolated hose (GRG-DN10/2.0) and intelligent monitoring system, rack is optional
	Rack (vertical type)	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	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	Used for storing 1.8ml/2ml vial (interally threaded,100 holes)
CryoBio 20Z (20K)	Zhiling Liquid Nitrogen Container (Smart type)	CryoBio 20Z	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-tierrack (9*9). 110 pcs of cryo boxes (5*5) for 2ml vial. 176pcs of cryo boxes (9*9) for 2ml vial
	Zhiling Liquid Nitrogen Container	CryoBio 20Z	Includes vacuum isolated hose (GRG-DN10/2.0) and intelligent monitoring system, rack is optional
	Rack (vertical type)	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	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	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)
CryoBio 34Z (34K)	Zhiling Liquid Nitrogen Container	CryoBio 34Z	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	Includes vacuum isolated hose (GRG-DN10/2.0) and intelligent monitoring system. Rack is optional
	Rack (vertical type)	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	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	Used for storing 1.8ml/2ml vial (25 holes)
	Plastic cryo box	FH-81	Used for storing 1.8ml/2ml vial (81 holes)
	Plastic cryo box	FH-100	Used for storing 1.8ml/2ml vial (interally threaded, 100 holes)

Blood Bag Capacity

Model	Cryobio 11Z			Cryobio 20Z			Cryobio 20Z		
Vapor 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	942	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

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.

Product Advantages

Touch Screen

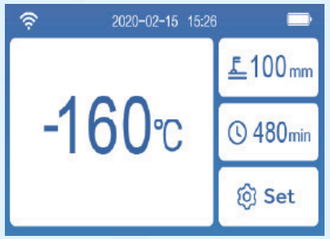
LCD touch operation

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.
Ad hers 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	900*335*163	950*440*220	33	150	65	30	105	50	50

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 visualization

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

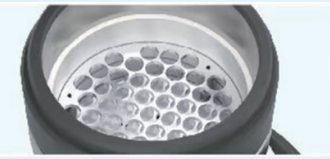
Humanization Design

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.



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	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.

•Multi-specification compatibility

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 C ~-196 C, 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 dumped during dry storage, there will be no liquid nitrogen overflow, thus ensuring the safety of samples and personnel.

Humanization 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

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

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 auto-fill 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.

Follow the QR code and learn more about the CryoBio 6S from Haier Biomedical

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 Thraed)	Square Rack	Layer of Square Rack
1.5	0.95	6000	6	10

Product List

Model	Product	Product Model	Description and Accessories
CryoBio 6S	Biobank Freezer	CryoBio 6S	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 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	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	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
	175	One step ladder	One tier step, suitable for CryoBio 6S
	Roller Base	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

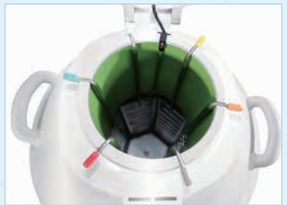
Key Features

- 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)

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 Year Vacuum Warranty
- Durable
- Cryobox Storage
- Secure
- High Thermal Efficiency
- Liquid and Vapour Storage

Technical Parameters

Model	YDS-65-216	YDS-95-216	YDS-115-216	YDS-145-216	YDS-175-216
Picture					
Authentication	CE	CE	CE	CE	CE
Maximum Storage Volume					
No. of canister	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	972	1458	1944	2430
Layers in Rack	2	2	3	4	5
Function					
Liquid Nitrogen Volume (L)	65	95	115	145	175
Static Evaporation* (L/Day)	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 Evaporation: The amount of liquid nitrogen lost by natural evaporation within 24 hours after the container is allowed to reach thermal equilibrium under the specified filling rate, which is converted into the evaporation value under the standard state (atmospheric pressure 101.325kPa, ambient temperature 20°C).

**Static Holding Time: under the standard state (atmospheric pressure 101.325kPa, ambient temperature 20°C), the container is filled with liquid nitrogen pre-cooled and reaches thermal equilibrium, and the liquid nitrogen filling rate reaches 100%, the number of days when the liquid nitrogen is completely evaporated on standing.

Product List

Model	Product	Product Model	Description and Accessories
YDS-65-216	Smart Liquid Nitrogen Container (Smart Series)	YDS-65-216	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	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	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	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	Includes 6 racks(10-tier), cryoboxes(9*9), lockable cap, roller base is optional
	Roller Base	YSC-685-5W	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels

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

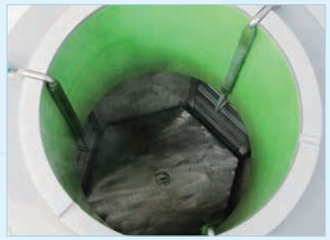
Freezer racks are in the ultra-low temperature environment with extremely low LN_2 evapouration. Even stored in vapour phase, the temperature will be below -190°C for a long time.

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
Picture					
Authentication	CE	CE	CE	CE	CE
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 Evaporation* (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

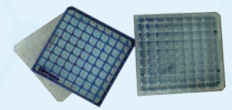
*Static Evaporation: The amount of liquid nitrogen lost by natural evaporation within 24 hours after the container is allowed to reach thermal equilibrium under the specified filling rate, which is converted into the evaporation value under the standard state (atmospheric pressure 101.325kPa, ambient temperature 20°C).

**Static Holding Time: under the standard state (atmospheric pressure 101.325kPa, ambient temperature 20°C), the container is filled with liquid nitrogen pre-cooled and reaches thermal equilibrium, and the liquid nitrogen filling rate reaches 100%, the number of days when the liquid nitrogen is completely evaporated on standing.

Accessories

Roller Base

Plastic Cryo Box

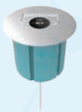


(SG-216)

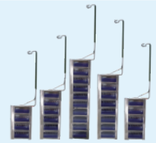
Rack (5ml)

5 ml Customized Cryogenic Box

Smart Cap



Rack



Medium Sized Storage Series (Square Racks)

Product List

Model	Product	Product Model	Description and Accessories
YDS-65-216	Liquid Nitrogen container	YDS-65-216	Includes 6 racks(4 layers), 9*9 cryoboxes, lockable cap, no PU bag, roller base is optional
	Liquid Nitrogen container	YDS-65-216	Includes lockable cap, no rack, no PU bag
	Rack	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	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels
	SmartCap	LT-216	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	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	Suitable for container with 216mm neck opening
YDS-95-216	Liquid Nitrogen container (5.0ml Vial)	YDS-95-216	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	Includes 6 racks(5 layers). 9*9 cryoboxes, lockable cap, no PU bag, roller base is optional
	Liquid Nitrogen container	YDS-95-216S	Includes lockable cap, no rack, no PU bag
	Rack	FTT-81-5	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 (5.0)	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	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels
	SmartCap	LT-216	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	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	Suitable for container with 216mm neck opening
YDS-115-216	Liquid Nitrogen container (5.0ml Vial)	YDS-115-216	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	Includes 6 racks(6 layers), 9*9 cryoboxes, lockable cap, no PU bag, roller base is optional
	Liquid Nitrogen container	YDS-115-216	Includes lockable cap, no rack, no PU bag
	Rack	FTT-81-6	Used for storing 9*9 cryo boxes (2mll, 6 layers in total. with 9*9 cryo boxes included, suitable for YDS-115-216
	Rack	FTT-81-3 (5.0)	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	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels
	SmartCap	LT-216	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	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	Suitable for container with 216mm neck opening
YDS-145-216	Liquid Nitrogen container (5.0ml Vial)	YDS-145-216	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	Includes 6 racks(8 layers), 9*9 cryoboxes, lockable cap, no PU bag, roller base is optional
	Liquid Nitrogen container	YDS-145-216	Includes lockable cap, no rack, no PU bag
	Rack	FTT-81-8	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	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	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels
	SmartCap	LT-216	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	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	Suitable for container with 216mm neck opening

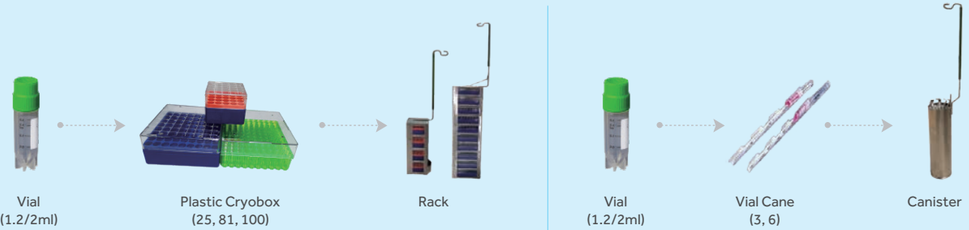
Product List

Model	Product	Product Model	Description and Accessories
YDS-175-216	Liquid Nitrogen container (5.0ml Vial)	YDS-175-216	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	Includes 6 racks(10 layers), 9*9 cryoboxes, lockable cap, no PU bag, roller base is optional
	Liquid Nitrogen container	YDS-175-216	Includes lockable cap, no rack, no PU bag
	Rack	FTT-81-10	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	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	Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels
	SmartCap	LT-216	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	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	Suitable for container with 216mm neck opening
Other Racks	Blood bag rack	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	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	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	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	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	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	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	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	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	Used for storing 50ml blood bag, 3 levels in total with each layer storing 14pcs of 50ml blood bag, with 42 cassettes included, suitablefor YDS-175-216, 6 racks can be fitted.
	Blood bag rack	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	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	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	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-250-2F8/175	Used for storing 250ml blood bag, 2 levels in total with each layer storing 8pcs of 250ml blood bag, with 16 cassettes included, suitable forYDS-145-216, 6 racks can be fitted.

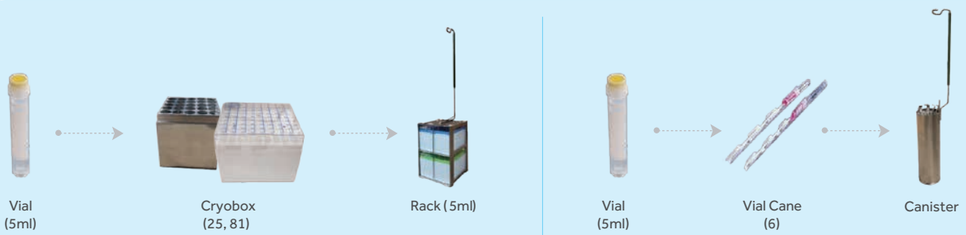
Medium Sized Storage Series (Square Racks)

Biological Sample Library-YDS Series

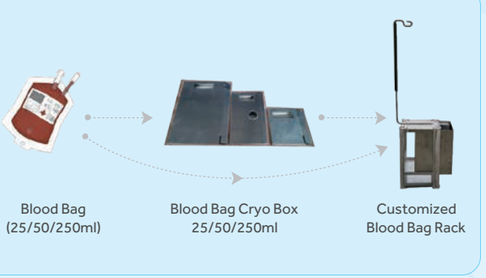
Storage Example of 2ml Internally Threaded Vial



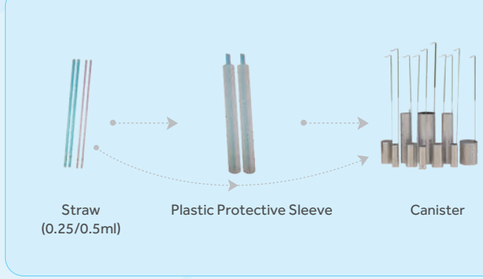
Storage Example of Tall 5ml Cryovials



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 Year 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 year 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.

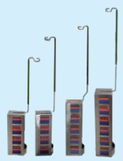
Five Models Available

Small Sized Storage Series (Square Racks) offers Five models with different capacity from 100, 600, 750, 900 to 1100 standard 2 ml cryovials. All models are supplied with stainless steel racks and cryogenic boxes.

Accessories

Roller Base

Rack



Liquid Nitrogen Temperature Detector

Lockable Cap (SG-125)

Smart Cap

Technical Parameters

Model	YDS-10-125	YDS-30-125	YDS-35-125	YDS-47-127	YDS-50B-125
Picture					
Authentication	CE	CE	CE	CE	CE
Maximum Storage Capacity					
No. of Rack	1	6	6	6 (37 per box)	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 Evaporation* (L/Day)	0.42	0.35	0.36	0.36	0.45
Static Holding Time** (Day)	24	90	97	130	110
Dimensions	125	125	125	127	125
Opening Diameter (mm)	625	725	765	740	830
Height (mm)					
Overall 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 Evaporation: The amount of liquid nitrogen lost by natural evaporation within 24 hours after the container is allowed to reach thermal equilibrium under the specified filling rate, which is converted into the evaporation value under the standard state (atmospheric pressure 101.325kPa, ambient temperature 20°C).
**Static Holding Time: under the standard state (atmospheric pressure 101.325kPa, ambient temperature 20°C), the container is filled with liquid nitrogen pre-cooled and reaches thermal equilibrium, and the liquid nitrogen filling rate reaches 100%, the number of days when the liquid nitrogen is completely evaporated on standing.

Product List

Model	Product	Product Model	Description and Accessories
YDS-10-125	Liquid Nitrogen container	YDS-10-125	Include 1 square rack with 4 layers. 5*5 cryobox, lockable cap and PU bag.
	Liquid Nitrogen container	YDS-10-125	Includes PU bag only; No canister; no lockable cap
	Rack	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	φ97,120mm single tier canister, No goblet. suitable for YDH-10-125
	SmartCap	T-125	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	Suitable for YDS-10-125/YDH-10-125/YDS-50B-125
	Lockable cap	SG-125	Suitable for container with 125mm and 127mm neck opening
YDS-30-125	Liquid Nitrogen container	YDS-30-125	Includes 6 racks with 4 layers, 5*5 cryoboxes, lockable cap and PU bag, roller base is optional.
	Liquid Nitrogen container	YDS-30-125	Includes PU bag only, roller base is optional
	Rack	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	φ97, 120mm single tier canister, No goblet. suitable for YDS-30-125
	Roller Base	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	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	Suitable for YDS-30-125/YDS-35-125/YDS-47-127 /YDS-35B-125
	Lockable cap	SG-125	Suitable for container with 125mm and 127mm neck opening

Small Sized Storage Series (Square Racks)

Model	Product	Product Model	Description and Accessories
YDS-35-125	Liquid Nitrogen container	YDS-35-125	Includes 6 canisters (Height 276mm), lockable cap and PU bag. roller base is optional
	Liquid Nitrogen container	YDS-35-125	Includes 6 racks with 5 layers, 5*5 cryoboxes, lockable cap and PU bag, roller base is optional.
	Liquid Nitrogen container	YDS-35-125	Includes PU bag only, roller base is optional
	Rack	FTT-25-5	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	φ97, 120mm single tier canister, No goblet, suitable for YDS-35-125
	Canister	TTS35-125	φ97, 276mm double-tier canister, 2 goblets included. Suitable forYDS-35-125
	Roller Base	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-125	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	Suitable for YDS-30-125/YDS-35-125/YDS-47-127 /YDS-35B-125
	Lockable cap	SG-125	Suitable for container with 125mm and 127mm neck opening
YDS-47-127	Liquid Nitrogen container	YDS-47-127	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	Includes 10 canisters(φ72/276mm), lockable cap and PU bag. roller base is optional
	Round Rack (Y98-37)	YTT-37-5	φ98 round rack used for storing 37 holes cryobox (2ml). 5 tiers in total, suitable for YDS-47-127-T37
	Canister	TTS47-127-10	φ72, 276mm double-tier canister, 2 goblets included. Suitable for YDS-47-127-10T
	Roller Base	YSC-525-5W	Suitable for tanks with diameter less than φ525. Can be used for 47L alunimium tank, equipped with 5 universal wheels
	Smart Cap	LT-127	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
	Smart Cap	LT-127	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	Suitable for YDS-30-125/YDS-35-125/YDS-47-127 /YDS-35B-125
	Cork (125)	GS-127-210-10 (L)	Suitable for YDS-47-127-10T
	Lockable cap	SG-125	Suitable for container with 125mm and 127mm neck opening
YDS-50B-125	Liquid Nitrogen container	YDS-50B-125	Includes 6 racks with 6 layers, 5*5 cryoboxes, lockable cap and PU bag, roller base is optional.
	Liquid Nitrogen container	YDS-50B-125	Includes 6 canisters (φ97/276mm), lockable cap and PU bag. roller base is optional
	Liquid Nitrogen container	YDS-50B-125	Includes PU bag only, roller base is optional
	Rack	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	φ97, 120mm single tier canister, No goblet. suitable for YDS-50B-125
	Canister	TTS50-125	φ97,276mm double-tier canister, 2 goblets included. Suitable for YDS-50B-125
	Roller Base	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-125	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	Suitable for YDS-10-125/YDH-10-125/YDS-50B-125
	Lockable cap	SG-125	Suitable for container with 125mm and 127mm neck opening

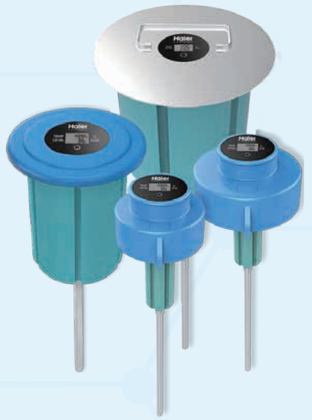
Smart Level & Temp Monitoring

Product Description

Smart Cap is a low energy consumption IoT-based 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 50 mm, 80 mm, 125 mm, 216 mm. The built-in high efficiency lithium battery can operate the device for more than two years.

Smart Cap

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	Description and Accessories
Smart Cap	Smart Cap	LT-50	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
	Smart Cap	LT-50	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
	Smart Cap	LT-50	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
	Smart Cap	LT-50	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
	Smart Cap	LT-50	Used for monitoring real time level and temperature for containers with 50mm neck opening, 6 grooves and 640mm height. suitable for YDS-50
	Smart Cap	LT-80	Used for monitoring real time level and temperature for containers with 80mm neck opening, 6 grooves and 370mm height. suitable for YDS-6-80
	Smart Cap	LT-80	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	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
	Smart Cap	LT-80	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
	Smart Cap	LT-80	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	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
	Smart Cap	LT-125	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
	Smart Cap	LT-125	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
	Smart Cap	LT-125	Used for monitoring real time level and temperature for containers with 125mm neck opening, 6 grooves and 670mm height. suitable for YDS-50B-125
	Smart Cap	LT-127	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
	Smart Cap	LT-127	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
	Smart Cap	LT-216	Used for monitoring real time level and temperature for containers with 216mm neck opening, 6 grooves and 530mm height. suitable for YDS-65-216
	Smart Cap	LT-216	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 Crosysterm 2000
	Smart Cap	LT-216	Used for monitoring real time level and temperature for containers with 216mm neck opening, 6 grooves and 580mm height.suitable for YDS-95-216
	Smart Cap	LT-216	Used for monitoring real time level and temperature for containers with 216mm neck opening, 6 grooves and 660mm height. suitable for YDS-115-216
	Smart Cap	LT-216	Used for monitoring real time level and temperature for containers with 216mm neck opening, 6 grooves and 770mm height.suitable for YDS-145-216
	Smart Cap	LT-216	Used for monitoring real time level and temperature for containers with 216mm neck opening, 6 grooves and 870mm height.suitable for YDS-175-216
	Smart Cap	T-50	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
	Smart Cap	T-80	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
	Smart Cap	T-125	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
	Smart Cap	T-216	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
	Smart Cap	T-216	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
	Data repeater	SG-3002G	SIM card to tranferdata through GPRS and WIFI: include the SIM card

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 Year 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)

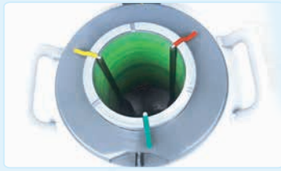
Key Features

- 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 year 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 Evaporation* (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-15	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 Evaporation* (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)	63	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 Evaporation* (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 Evaporation* (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 Evaporation* (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 Evaporation: The amount of liquid nitrogen lost by natural evaporation within 24 hours after the container is allowed to reach thermal equilibrium under the specified filling rate, which is converted into the evaporation value under the standard state (atmospheric pressure 101.325kPa, ambient temperature 20°C).

**Static Holding Time: under the standard state (atmospheric pressure 101.325kPa, ambient temperature 20°C), the container is filled with liquid nitrogen pre-cooled and reaches thermal equilibrium, and the liquid nitrogen filling rate reaches 100%, the number of days when the liquid nitrogen is completely evaporated on standing.

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

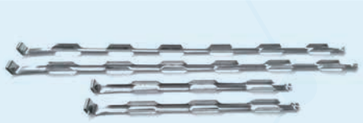
Canister	Height 276mm, Diameter 97mm (125mm neck)		
Vials	Canes/Canister	Vials/Cane	Vials/Canister
0.5ml	-	-	-
1.5ml	40	6	240
2ml	40	6	240
3ml	40	6	240
5ml	40	3	120

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	Description and Accessories
YDS-2-30	Liquid Nitrogen container	YDS-2-30	Includes 3 canisters, lockable cap and PU bag
	Canister	TT2-30	φ19, 120mm single tier canister, No goblet, suitable for YDS-2-30
	Cork (30)	GS-30-125	Suitable for YDS-2-30
	Lockable cap	SG-30	Suitable for container with 30mm neck opening, suitable for YDS-2-30
YDS-2-35	Liquid Nitrogen container	YDS-2-35	Includes 3 canisters, lockable cap and Braces for carrying, no PU bag
	Canister	TT2-35	φ25, 120mm single tier canister, No goblet, suitable for YDS-2-35
	Cork (30)	GS-35-125 (L)	Suitable for YDS-2-35
	Lockable cap	SG-35	Suitable for container with 35mm neck opening, suitable for YDS-2-35
YDS-3	Liquid Nitrogen container	YDS-3	Includes 6 canisters (Height 120mm), lockable cap and PU bag
	Liquid Nitrogen container	YDS-3	Includes PU bag only
	Canister	TT3-50	φ38, 120mm single tier canister, No goblet. suitable for YDS-3
	Cork (50)	GS-50-180	Suitable for YDS-3/YDH-3/YDS-6/YDS-10/YDS-13/YDS-25/YDS-50B
	Lockable cap	SG-50	Suitable for container with 50mm neck opening
YDS-6	Liquid Nitrogen container	YDS-6	Includes 6 canisters (Height 120mm), lockable cap and PU bag
	Liquid Nitrogen container	YDS-6	Includes PU bag only
	Canister	TT6-50	φ38, 120mm single tier canister, No goblet. suitable for YDS-6
	Cork (50)	GS-50-180	Suitable for YDS-3/YDH-3/YDS-6/YDS-10/YDS-13/YDS-25/YDS-50B
	Lockable cap	SG-50	Suitable for container with 50mm neck opening
YDS-10	Liquid Nitrogen container	YDS-10	Includes 6 canisters (Height 120mm), lockable cap and PU bag
	Liquid Nitrogen container	YDS-10	Includes PU bag only
	Canister	TT10-50	φ38, 120mm single tier canister, No goblet, suitable for YDS-10
	Cork (50)	GS-50-180	Suitable for YDS-3/YDH-3/YDS-6/YDS-10/YDS-13/YDS-25/YDS-50B
	Lockable cap	SG-50	Suitable for container with 50mm neck opening
YDS-10-80	Liquid Nitrogen container	YDS-10-80	Includes 6 canisters (Height 120mm), lockable cap and PU bag
	Liquid Nitrogen container	YDS-10-80	Includes PU bag only
	Canister	TT10-80	φ63, 120mm single tier canister, No goblet, suitable for YDS-10-80
	Cork (80)	GS-80-180	Suitable for YDH-6-80/YDS-10-80
	Lockable cap	SG-80	Suitable for container with 80mm neck opening
YDS-13	Liquid Nitrogen container	YDS-13	Includes 6 canisters (Height 276mm), lockable cap and PU bag
	Liquid Nitrogen container	YDS-13	Includes PU bag only
	Canister	TTS13-50	φ38, 276mm double-tier canister, 2 goblets included. Suitable for YDS-13
	Cork (50)	GS-50-180	Suitable for YDS-3/YDH-3/YDS-6/YDS-10/YDS-13/YDS-25/YDS-50B
	Lockable cap	SG-50	Suitable for container with 50mm neck opening

Product List

Model	Product	Product Model	Description and Accessories
YDS-15	Liquid Nitrogen container	YDS-15	Includes 6 canisters (Height 120mm), lockable cap and PU bag
	Liquid Nitrogen container	YDS-15	Includes PU bag only
	Canister	TT15-50	φ38, 120mm single tier canister, No goblet. suitable for YDS-15
	Cork (50)	GS-50-210	Suitable for YDS-15/YDS-20/YDS-30/YDS-35/YDS-20B/YDS-30B/YDS-35B
	Lockable cap	SG-50	Suitable for container with 50mm neck opening
YDS-20	Liquid Nitrogen container	YDS-20	Includes 6 canisters (Height 276mm), lockable cap and PU bag
	Liquid Nitrogen container	YDS-20	Includes 6 canisters (Height 120mm), lockable cap and PU bag
	Liquid Nitrogen container	YDS-20	Includes PU bag only
	Canister	TT30-50	φ38, 120mm single tier canister, No goblet. suitable for YDS-20/YDS-30
	Canister	TTS30-50	φ38,276mm double-tier canister, 2 goblets included. Suitable for YDS-20/YDS-30
	Cork (50)	GS-50-210	Suitable for YDS-15/YDS-20/YDS-30/YDS-35/YDS-20B/YDS-30B/YDS-35B
	Lockable cap	SG-50	Suitable for container with 50mm neck opening
YDS-30	Liquid Nitrogen container	YDS-30	Includes 6 canisters (Height 276mm). lockable cap and PU bag. roller base is optional
	Liquid Nitrogen container	YDS-30	Includes 6 canisters(Height 120mm), lockable cap and PU bag, roller base is optional
	Liquid Nitrogen container	YDS-30	Includes PU bag only, roller base is optional
	Canister	TT30-50	φ38, 120mm single tier canister, No goblet. suitable for YDS-20/YDS-30
	Canister	TTS30-50	φ38, 276mm double-tier canister, 2 goblets included. Suitable for YDS-20/YDS-30
	Roller Base	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	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	Suitable for YDS-15/YDS-20/YDS-30/YDS-35/YDS-20B/YDS-30B/YDS-35B
	Lockable cap	SG-50	Suitable for container with 50mm neck opening
YDS-30-80	Liquid Nitrogen container	YDS-30-80	Includes 6 canisters (Height 276mm), lockable cap and PU bag. roller base is optional
	Liquid Nitrogen container	YDS-30-80	Includes 6 canisters(Height 120mm), lockable cap and PU bag, roller base is optional
	Liquid Nitrogen container	YDS-30-80	Includes PU bag only, roller base is optional
	Canister	TT30-80	φ63, 120mm single tier canister, No goblet. suitable for YDS-30-80
	Canister	TTS30-80	φ63,276mm double-tier canister, 2 goblets included. Suitable for YDS-30-80
	Roller Base	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-80	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	Suitable for YDS-30-80/YDS-35-80/YDS-35B-80
	Lockable cap	SG-80	Suitable for container with 80mm neck opening
YDS-35	Liquid Nitrogen container	YDS-35	Includes 6 canisters (Height 276mm), lockable cap and PU bag, roller base is optional
	Liquid Nitrogen container	YDS-35	Includes 6 canisters(Height 120mm), lockable cap and PU bag, roller base is optional
	Liquid Nitrogen container	YDS-35	Includes PU bag only, roller base is optional
	Canister	TT35-50	φ38, 120mm single tier canister, No goblet. suitable for YDS-25/YDS-35
	Canister	TTS35-50	φ38, 276mm double-tier canister, 2 goblets included. Suitable for YDS-35
	Roller Base	YSC-465-5W	Suitable for tanks with diameter less than φ465. Can be used for 30L, 35L and 50L tank. eauipped with 5 universal wheels.
	Roller Base	LT-50	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
	Cork (50)	GS-50-210	Suitable for YDS-15/YDS-20/YDS-30/YDS-35/YDS-20B/YDS-30B/YDS-35B
	Lockable cap	SG-50	Suitable for container with 50mm neck opening
YDS-35-80	Liquid Nitrogen container	YDS-35-80	Includes 6 canisters (Height 276mm). lockable cap and PU bag. roller base is optional
	Liquid Nitrogen container	YDS-35-80	Includes PU bag only, roller base is optional
	Canister	TT35-80	φ63, 120mm single tier canister, No goblet. suitable for YDS-35-80
	Canister	TTS35-80	φ63, 276mm double-tier canister, 2 goblets included. Suitable for YDS-35-80
	Roller Base	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	LT-80	Used for monitoring real time level and temperature for containers with 80mm neck opening, 6 grooves and 580mm heiaht. suitable for YDS-25-80/YDS-35-80
	Cork (80)	GS-80-210	Suitable for YDS-30-80/YDS-35-80/YDS-35B-80
	Lockable cap	SG-80	Suitable for container with 80mm neck opening

High Capacity Series for Storage or Transport (Round Canisters)

Product List

Model	Product	Product Model	Description and Accessories
YDS-20B	Liquid nitrogen container	YDS-20B	Includes PU bag only.
	Canister	TT30-50	φ38, 120mm single tier canister, No goblet. suitable for YDS-20/YDS-30
	Canister	TTS30-50	φ38, 276mm double-tier canister, 2 goblets included. Suitable for YDS-20/YDS-30
	Cork (50)	GS-50-210	Suitable for YDS-15/YDS-20/YDS-30/YDS-35/YDS-20B/YDS-30B/YDS-35B
	Lockable cap	SG-50	Suitable for container with 50mm neck opening
YDS-30B	Liquid nitrogen container	YDS-30B	Includes PU bag only, roller base is optional
	Canister	TT30-50	φ38, 120mm single tier canister, No goblet. suitable for YDS-20/YDS-30
	Canister	TTS30-50	φ38, 276mm double-tier canister, 2 goblets included. Suitable for YDS-20/YDS-30
	Roller base	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	Suitable for YDS-15/YDS-20/YDS-30/YDS-35/YDS-20B/YDS-30B/YDS-35B
	Lockable cap	SG-50	Suitable for container with 50mm neck opening
YDS-35B	Liquid nitrogen container	YDS-35B	Includes PU bag only, roller base is optional
	Canister	TT35-50	φ38, 120mm single tier canister, No goblet. suitable for YDS-25/YDS-35
	Canister	TTS35-50	φ38,276mm double-tier canister, 2 goblets included. Suitable for YDS-35
	Roller base	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	Suitable for YDS-15/YDS-20/YDS-30/YDS-35/YDS-20B/YDS-30B/YDS-35B
	Lockable cap	SG-50	Suitable for container with 50mm neck opening
YDS-35B -80	Liquid Nitrogen container	YDS-35B-80	Includes PU bag only, roller base is optional
	Canister	TT35-80	φ63, 120mm single tier canister. No goblet, suitable for YDS-35-80
	Canister	TTS35-80	φ63, 276mm double-tier canister, 2 goblets included. Suitable for YDS-35-80
	Roller Base	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	Suitable for YDS-30-80/YDS-35-80/YDS-35B-80
	Lockable cap	SG-80	Suitable for container with 80mm neck opening
YDS-35B -125	Liquid Nitrogen container	YDS-35B-125	Includes PU bag only
	Canister	TT35-125	φ97, 120mm single tier canister, No goblet, suitable for YDS-35-125
	Canister	TTS35-125	φ97,276mm double-tier canister, 2 goblets included. Suitable for YDS-35-125
	Rack	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	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	Suitable for YDS-30-125/YDS-35-125/YDS-47-127 /YDS-35B-125
	Lockable cap	SG-125	Suitable for container with 125mm and 127mm neck opening
YDS-50B	Liquid Nitrogen container	YDS-50B	Includes PU bag only, roller base is optional
	Canister	TT50-50	φ38, 120mm single tier canister, No goblet. suitable for YDS-50
	Canister	TTS50-50	φ38, 276mm double-tier canister, 2 goblets included. Suitable for YDS-50
	Roller Base	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	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	Suitable for YDS-3/YDH-3/YDS-6/YDS-10/YDS-13/YDS-25/YDS-50B
	Lockable cap	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

Dryshipper Series for Transportation (Round Canisters)

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

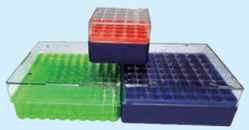
Liquid Nitrogen Adsorption
Adsorbent materials are used to absorb and retain LN_2 for safe transport. No spillover of LN2 can occur even when the tank is capsized.

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

Technical Parameters

Model	YDH-3	YDH-6-80	YDH-10-125	YDH-10-125	YDH-15-216	YDH-25-216
Picture						
Authentication	CE	CE	CE	CE	CE	CE
Maximum Storage Capacity						
No. of Canister / Rack	1	1	1	1 Rack	1 Rack	1 Rack
No. of Straws (0.5ml / EA)	132	374	854	-	-	-
No. of Straws (0.25ml / EA)	298	837	1940	-	-	-
No. of 2.0 ml Cryovials	-	-	-	100	300	500
No. of Boxes in (2ml per holder)	-	-	-	4	3	5
Performance						
Absorbable Volume of LN_2 (L)	1.3	2.9	3.4	3.4	6	9
Static Evapouration* (L/Day)	0.16	0.2	0.43	0.43	1.5	0.89
Static Holding Time in Vapor Phase**(Day)	8	14	8	8	4	10
Dimensions						
Opening Diameter (mm)	50	80	125	125	216	216
Height (mm)	445	500	625	625	555	730
Outside Diameter (mm)	223	300	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	8.9	13	15
Full Weight (kg)	4.7	8.9	12.5	12.5	17.8	23
Shipping Weight (kg)	5.5	7.7	9.7	9.7	15.2	20.5

*Static Evaporation: The amount of liquid nitrogen lost by natural evaporation within 24 hours after the container is allowed to reach thermal equilibrium under the specified filling rate, which is converted into the evaporation value under the standard state (atmospheric pressure 101.325kPa, ambient temperature 20°C).
**Static Holding Time in Vapor Phase: under the standard state (atmospheric pressure 101.325kPa, ambient temperature 20°C), after the container is filled with liquid nitrogen pre-cooled and reaches thermal equilibrium, the adsorption layer is filled with liquid nitrogen and there is no free liquid nitrogen, the number of days when the liquid nitrogen is completely evaporated on standing.

Dryshipper Series for Transportation (Round Canisters)

Product List

Model	Product	Product Model	Description and Accessories
YDH-3	Dry Shipper	YDH-3	Includes 1 canister (Height 120mm), lockable cap and PU bag
	Canister	TTH3-50	Φ38, 120mm single tier canister, No goblet, suitable for YDH-3
	Smart Cap	T-50	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	Suitable for YDS-3/YDH-3/YDS-6/YDS-10/YDS-13/YDS-25/YDS-50B
	Lockable Cap	SG-50	Suitable for container with 50mm neck opening
YDH-6-80	Dry Shipper	YDH-6-80	Includes 1 canister (Height 120mm), lockable cap and PU bag
	Canister	TTH6-80	Φ63, 120mm single tier canister, No goblet, suitable for YDH-6-80
	Smart Cap	T-80	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	Suitable for YDH-6-80/YDS-10-80
	Lockable Cap	SG-80	Suitable for container with 80mm neck opening
YDH-10-125	Dry Shipper	YDH-10-125	Includes 1 rack(4 layers), 5*5 cryoboxes, lockable cap and PU bag
	Dry Shipper	YDH-10-125	Includes lockable cap and PU bag; No Rack
	Rack	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	Φ97,120mm single tier canister, No goblet, suitable for YDH-10-125
	Smart Cap	T-125	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	Suitable for YDS-10-125/YDH-10-125/YDS-50B-125
	Lockable Cap	SG-125	Suitable for container with 125mm and 127mm neck opening
	Protective Case X	HKX-300/660	Suitable for YDH-10-125
YDH-15-216	Dry Shipper	YDH-15-216	Includes 1 rack(3 layers), 9*9 cryoboxes, lockable cap and PU bag
	Rack (Vertical Type)	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	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)	Suitable for YDH-15-216
	Lockable Cap	SG-216	Suitable for container with 216mm neck opening
YDH-25-216	Dry Shipper	YDH-25-216	Includes 1 rack(5 layers), 9*9 cryoboxes, lockable cap and PU bag
	Rack (Vertical Type)	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	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	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	Suitable for container with 216mm neck opening
	Protective Shipping Case	HKX-694	Mushroom Type, Suitable for YDH-25-216
	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

Self-Pressurized Series for LN₂ Storage and Supply

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.

Casters

All models have four casters for better mobility and convenient use in different occasions.

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.

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

Technical Parameters

Model	YDZ-5	YDZ-15	YDZ-30	YDZ-50	YDZ-100	YDZ-100K	YDZ-150
Picture							
Authentication	CE	CE	CE	CE	CE		CE
Performance							
Volume of LN₂ (L)	5	15	30	50	100		150
Static Evaporation* (L/Day)	0.15	0.38	0.75	1	1.3		1.95
LN₂ Output (L/Min)	≥2	≥2	≥3	≥3	≥4		≥6
Dimensions							
Height (mm)	652	771	900	1009	1179		1208
Outside Diameter (mm)	354	404	454	506	606		706
Empty Weight (kg)	19	26	38	54	86		107
Full Weight (kg)	23.0	38.1	62.2	94.4	166.8		228
Shipping Weight (kg)	32	37	53	63	107		137
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-200	YDZ-200K	YDZ-240K	YDZ-300	YDZ-300K	YDZ-500	YDZ-500K
Picture							
Authentication	CE		CE	CE		CE	
Performance							
Volume of LN₂ (L)	200		240	300		500	
Static Evaporation* (L/Day)	2.4		2.9	3.3		5.5	
LN₂ Output (L/Min)	≥8		≥8	≥8		≥10	
Dimensions							
Height (mm)	1288		1405	1484		1607	
Outside Diameter (mm)	758		758	858		1008	
Empty Weight (kg)	145		159	193		273	
Full Weight (kg)	307		353	435		677	
Shipping Weight (kg)	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						

Model	YDZ-100/1.5	YDZ-240/1.5
Picture		
Authentication	PED	PED
Performance		
Volume of LN₂ (L)	100	240
Static Evaporation* (L/Day)	1.3	2.88
Dimensions		
Height (mm)	1270	1500
Outside Diameter (mm)	606	756
Empty Weight(kg)	80	163
Full Weight (kg)	161	360
Shipping Weight (kg)	102	204
Pressure Parameters		
First stage safety valve relief pressure (Mpa/PSI)	0.15/22	
Second stage safety valve release pressure (Mpa/PSI)	0.24/35	
Pressure gauge range (Mpa/PSI)	0~1/145	
Rupture disc burst pressure (Mpa/PSI)	0.66/96	

*Static Evaporation: The amount of liquid nitrogen lost by natural evaporation within 24 hours after the container is allowed to reach thermal equilibrium under the specified filling rate, which is converted into the evaporation value under the standard state (atmospheric pressure 101.325kPa, ambient temperature 20°C).

Self-Pressurized Series for LN_2 Storage and Supply

Product List

Product	Product Model	Description and Accessories
Self-Pressurized Filling Tank	YDZ-5	Includes single-layer transfusion hoses (ZG-DN10/1.5)
	YDZ-15	Includes single-layer transfusion hoses (ZG-DN10/1.5)
	YDZ-30	Includes single-layer transfusion hoses (ZG-DN10/1.5);
	YDZ-50	Includes single-layer transfusion hoses (ZG-DN10/1.5);
	YDZ-100	Includes single-layer transfusion hoses (ZG-DN10/1.5) and float-type liquidometer
	YDZ-150	Includes single-layer transfusion hoses (ZG-DN10/1.5) and float-type liquidometer
	YDZ-200	Includes single-layer transfusion hoses (ZG-DN10/1.5) and float-type liquidometer
	YDZ-300	Includes single-layer transfusion hoses (ZG-DN10/1.5) and float-type liquidometer
	YDZ-500	Includes single-layer transfusion hoses (ZG-DN10/1.5) and float-type liquidometer
	YDZ-100	Includes single-layer transfusion hoses (ZG-DN10/1.5),Digital display level gauge(DLZ-300) and pressure stabilizer. can be used for auto filling
	YDZ-200	Includes single-layer transfusion hoses (ZG-DN10/1.5),Digital display level gauge(DLZ-300) and pressure stabilizer. can be used for auto filling
	YDZ-240	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	YDZ-300	Includes single-layer transfusion hoses (ZG-DN10/1.5),Digital display level gauge(DLZ-300) and pressure stabilizer. can be used for auto filling
	YDZ-320	Includes single-layer transfusion hoses (ZG-DN10/1.5),Digital display level gauge(DLZ-300) and pressure stabilizer. can be used for auto filling
	YDZ-500	Includes single-layer transfusion hoses (ZG-DN10/1.5),Digital display level gauge(DLZ-300) and pressure stabilizer. can be used for auto filling
Float-Type Liquidometer	DLZ-300	Digital display real time liquid nitrogen level of self pressurized tank, low power consumption battery, wireless transmission (YDZ-240K)
	DLZ-300(YDZ-320K)	Digital display real time liquid nitrogen level of self pressurized tank, low power consumption battery, wireless transmission (YDZ-320K)
	DLZ-300	Digital display real time liquid nitrogen level of self pressurized tank, low power consumption battery, wireless transmission (YDZ-500K)
	FZ-100	Suitable for YDZ-100
	FZ-150	Suitable for YDZ-150
	FZ-200	Suitable for YDZ-200
	FZ-300	Suitable for YDZ-300
	FZ-500	Suitable for YDZ-500
Self-Pressurized Filling Tank	YDZ-100/1.5	Include single-layer transfusion hoses (ZG-DN10/1.5), Digital display level gauge(DLZ-300) and pressure stabilizer. The working pressure is 1.5 bar (22psi). PED certified and can be used for auto filling
	YDZ-240/1.5	Include single-layer transfusion hoses (ZG-DN10/1.5), Digital display level gauge(DLZ-300) and pressure stabilizer. The working pressure is 1.5 bar (22psi). PED certified and can be used for auto filling

-196°C Intelligent Liquid Nitrogen Biological Sample Storage System

Based on the design concept of "personnel safety, sample safety, and equipment safety", Haier Biomedical has developed the -196°C intelligent liquid nitrogen biological sample storage system through independent innovation to ensure low temperature storage throughout the entire process.

- Personnel safety
- Device safety
- Exclusive customized services
- Sample safety

Product Advantages

Personnel safety

Fully-automatic access to single and boxed samples saves time and effort.
High-precision servo in combination with flexible robot applications to.
Full-scenario intelligent unmanned running, one-key operation, and "0" contact with low temperatures ensure safety.
Conduct batch operations to streamline work processes and enhance efficiency.

Device safety

The key moving parts are stable and reliable at room temperature
Professional thermal-insulation drive structure and pyrogen-free storage area
The collaborative robot of the tube pick-up area is designed to operate stably with a low failure rate.

Exclusive customized services

Customized design for the user site
Catering to the different needs of various scenarios
Supporting interconnection with third-party systems

Follow the QR code and learn more about the
-196°C Intelligent Liquid Nitrogen Biological Sample Storage System from Haier Biomedical

-196°C Intelligent Liquid Nitrogen Biological Sample Storage System

Sample safety

Storage safety
Professional sample storage with low temperature throughout the whole process
Pyrogen-free main container with uniform temperature
IoT technology for intelligent positioning to avoid sample loss

Sample access safety
Mechanical grippers are used for tube picking, which is accurate and efficient and can avoid fall-off
IoT technology for intelligent positioning to avoid sample loss
Each mechanical gripper has a torque feedback function to avoid tube bursts.
The independent layout of the tube pick-up area can prevent permanent sample loss
The main container area is designed with a swivel structure to avoid collision throughout the access process and improve efficiency

Information safety
An independently developed software is available to ensure sample safety
Real-time traceability of the sample information can ensure the whole-process safety of the samples.

Product Parameters

Model	HSN96-46K2	HSN96-24K2
Automatic access level	Single or boxed	Single or boxed
Storage temperature (°C)	<-180	<-180
Storage capacity (for standard SBS 2ml tubes) (Pcs)	46,000	24,000
Exterior dimensions (W*D*H) (mm)	1750*2120*2760	1540*1920*2600
Time required for the storage temperature to recover to -130 °C (H)	≥480	≥480
Maximum liquid nitrogen capacity under the platform (L)	≥320	≥180
Daily static liquid nitrogen consumption (L)	≤25	≤15
Compatibility (ml)	SBS, etc. 0.5/1.5/2 cryogenic tubes	SBS, etc. 0.5/1.5/2 cryogenic tubes

Liquid Nitrogen Transfer Container

Product Introduction

The intelligent liquid nitrogen sample transfer container plays a vital role in ensuring the safe transfer of samples, providing an effective low-temperature environment. Leveraging IoT technology, it enables comprehensive data monitoring throughout the entire transfer process. This high-vacuum container offers long-lasting protection at ultra-low temperatures. Continuing with Haier Biomedical's design concept of prioritizing sample safety, personnel safety, and equipment safety, this container is dedicated to facilitating each sample transfer with utmost care and reliability.

Product Parameters

Model	HSN96-01H1
Size (mm)	256*244*245
Capacity	A single SBS sample box
Empty weight (kg)	4.1±0.05
Thermal insulation performance	A storage environment below -150°C for at least 6 hours (25°C, humidity ≤50%)
Liquid nitrogen capacity (L)	2
IoT function	Temperature collection and upload and GPS positioning
Status alarm	Overtemperature, and inclination;
External interface	USB

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

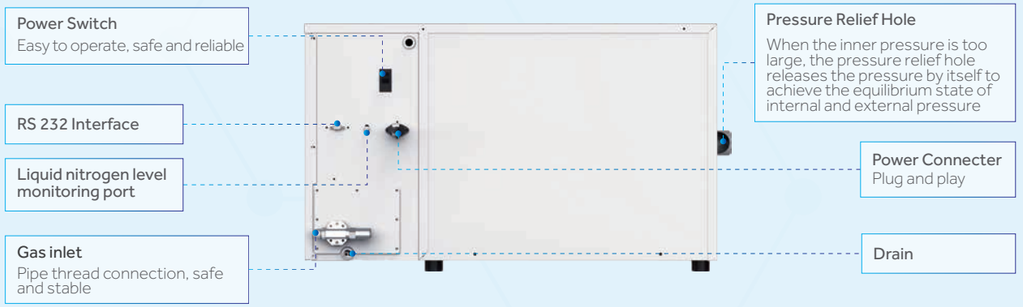
Handle
Easy to open and close the door, the user process is safer

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

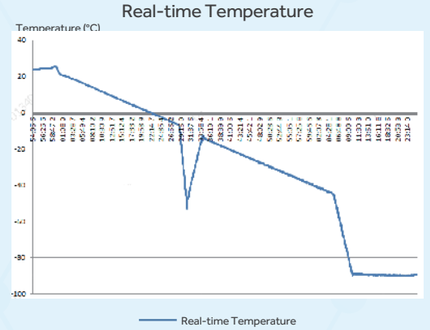
Pressure Relief Hole
When the inner pressure is too large, the pressure relief hole releases the pressure by itself to achieve the equilibrium state of internal and external pressure

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

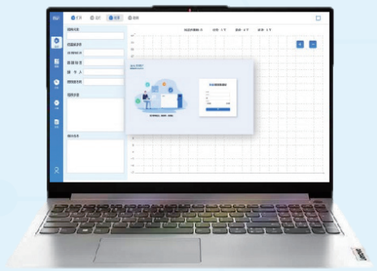
Various program timer settings, one-click freezing of samples

Controlled Rate Freezer

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)	66/106	73/114.5	84.5/118
Serial Port Form	USB Interface/RS232 serial port		
Accessories	1 Printer, 2 Sample probe		
Certification	CE		

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.

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

Self-pressurized LN₂ Storage

Model	YDZ-100/1.5
Volume of LN₂ (L)	100
Static Evapouration (L/Day)	1.3
LN₂ 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

Haier Biomedical Product Portfolio

Cryo Freezer

DW-150W209/209A

-86 °C ULT Freezers

DW-86L728BPSTR DW-86L100STL DW-86L578BPST/ 728BPST/828BPST DW-86L579BP/729BP DW-86L829BP/959BP DW-86L579PT/729PBT DW-86L829BP/959BPT DW-86L580BPT/ 730BPT/830BPT/960BPT DW-86L419/579 DW-86L729/829 DW-86L338/578/ 728/828JIJA)/388J DW-86L490J DW-86L490(JA) DW-86L486E DW-86L628E DW-86L51J DW-80WZ15 DW-86L100J

Controlled Rate Freezer

CJ-L19/L37/L54

Freeze Dryers

DG-65Z04-10A DG-65Z04-10AR HDG-85Z10-50

-60 °C Freezer

DW-60W138/258/388

-40 °C Biomedical Freezers

DW-40L818BP DW-40L959BP DW-40L92 DW-40L262

Chest

DW-86W100J DW-86W420J(JA) DW-86L828W/959W

-30 °C Biomedical Freezers

DW-40L298J(JA) DW-40L568J DW-40W138J DW-40W255J/380J DW-40L418D DW-40L528D(DA) DW-30L298J DW-30L528D DW-30L698 DW-30L818BP DW-30L818 DW-30L520F DW-30L1280F

-25 °C Biomedical Freezers

DW-25L92 DW-25L262

Combined Refrigerator and Freezer

HYCD-282 HYCD-282A HYCD-319A HYCD-469 HYCD-469A

Pharmacy Refrigerators

HYC-1099 HYC-1099T HYC-1099F HYC-1099TF HYC-1100C HYC-509

RFID Refrigerator

HYC-509T HYC-509F HYC-509TF HYC-509R HYC-290 HYC-309 HYC-390 HYC-390F HYC-410 HYC-461GD HYC-461FD HYC-610 HYC-639 HYC-940 HYC-940F

Laboratory Refrigerator

HLR-310F

Under-counter Pharmacy Refrigerator

HYC-1030GT HYC-1031GD HYC-1031FD HYC-1378 HYC-68A HYC-68 HYC-85GD HYC-85FD HYC-118A HYC-118 HYC-130GD HYC-130FD

Spark Free Freezers/Refrigerators

DW-25L92SF DW-30L298SF/FL HLR-118SF HLR-310SF/FL HLRF-319SF

Smart Vaccine Refrigerators

HYC-361 HYC-61

Ice-lined Refrigerators/Freezers

HBC-120 HBC-240 HBCD-90 HBC-80/150/260

Vaccine & Icepack Freezers

HBD-86 HBD-265

Solar Direct Drive Vaccine Refrigerators

HTC-40/110/112 HTC-120/240

Haier Biomedical Product Portfolio

Solar Direct Drive Freezer

HTD-40

Solar Direct Drive Combined Refrigerators/Freezers

HTCD-160B HTCD-90

Solar Direct Drive Blood Refrigerator

HTXC-120/240

RTMD

U-COOL U-COOL-LoRa U-COOL Pro Gateway 502

Blood Bank Refrigerators

HXC-629TR HXC-1369TR HXC-149R HXC-429R/629R

Plasma Freezer

DW-30L1280FT

HXC-429RV/629RV HXC-629ZZ HXC-149 HXC-279 HXC-279T HXC-429 HXC-629 HXC-629B HXC-1369 HXC-149T HXC-429T HXC-629T HXC-1369T HXC-158 HXC-158B HXC-106 HXC-149ZZ

Plasma Apheresis System

XJ-III

Plasma Blast Freezers

XSD-24FL XSD-24WFL XSD-48WFL

Platelet Incubator with Agitators

HXZ-149 HXZ-1369

Transport Coolers

RKN-AT1 HZY-8Z(ZA) HZY-15Z(ZA) HZY-40Z HZY-5B HZY-35B

Portable Transport Cooler

ALG50 BCD60

Medical Transport Cooler

FS-6L/12/18/35/ 54LS/100L/110L FS-12/18/35/54LS

Intelligent Control Cold Chain Transport Cooler

BW25-8/12/18/36/64A BW50-12A/16A BW25-12/36/64B

Laminar Flow Cabinets

HCB-1600H HCB-900V HCB-1300V/VS HCB-1600V/VS

Biological Safety Cabinets

HR30-IIA2 HR40-IIA2 HR40-IIB2 HR700-IIA2 HR900-IIA2-D/S HR1200-IIA2-D/S HR900-IIA2 HR1200-IIA2 HR1500-IIA2

Hydrogen Peroxide Disinfectors

HGYX-Y500 HGYX-Y100

Ductless Fume Hood

HTF-1200W/1500W

Liquid Nitrogen Containers

YDD/YDZ/YDS Series YDC-3000H CryoBio 13 CryoBio 43 CryoBio 6S CryoBio 11Z CryoBio 20Z CryoBio 34Z Bio-2T BioT Air

Smart Series

HR1200-IIA2-X HR1500-IIA2-X HR1800-IIA2-X HR900-IIA2-N HR1200-IIA2-N HR1500-IIA2-N HR1800-IIA2-N

CO_2 Incubators

HCP-80/B HCP-80E HCP-168/B HCP-168E HCP-258/B HCP-258E

Standard Incubators

HFP-80 HZP-80E HFP-168 HFP-168E

Drying Ovens

HZS-60 HZS-160E HFS-160 HFS-60E

Cooled Incubators

HSP-160 HSP-260

Growth Chamber

HGP-860

Climate Chambers

HHS-256/506 HHS-756 HHS-810/1060

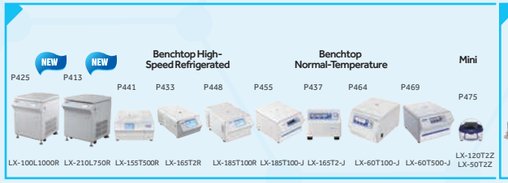
Autoclaves

HRLM-80 HRLM-60A HRLM-80A HRLM-110A HRTM-18/23 HRTM-45

Centrifuges

LX-75L2400R LX-60L1000R

Consumables



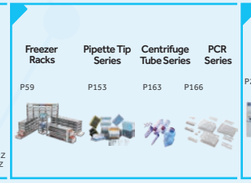
LX-100L1000R LX-210L750R LX-155T500R LX-165T2R LX-185T100R LX-185T100-J LX-165T2-J LX-60T100-J LX-60T500-J LX-120T2Z LX-50T2Z

Walk-in Cold Room

Solar Direct Drive Cold Room

HWIC-10M (DC)

Freezer Racks / Pipette Tip Series / Centrifuge Tube Series / PCR Series



-196°C Intelligent LN_2 Biological Sample Storage System

HSN96-46K2/24K2 HSN96-01H1

PRODUCT PORTFOLIO