Your Haier Biomedical Partner

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Haier Biomedical
Intelligent Protection of Life Science

Blood Management Solutions

CONTENTS

Automated Blood Management Network

IoT Management; Bedside Blood Usage; Immediate Access on Demand.

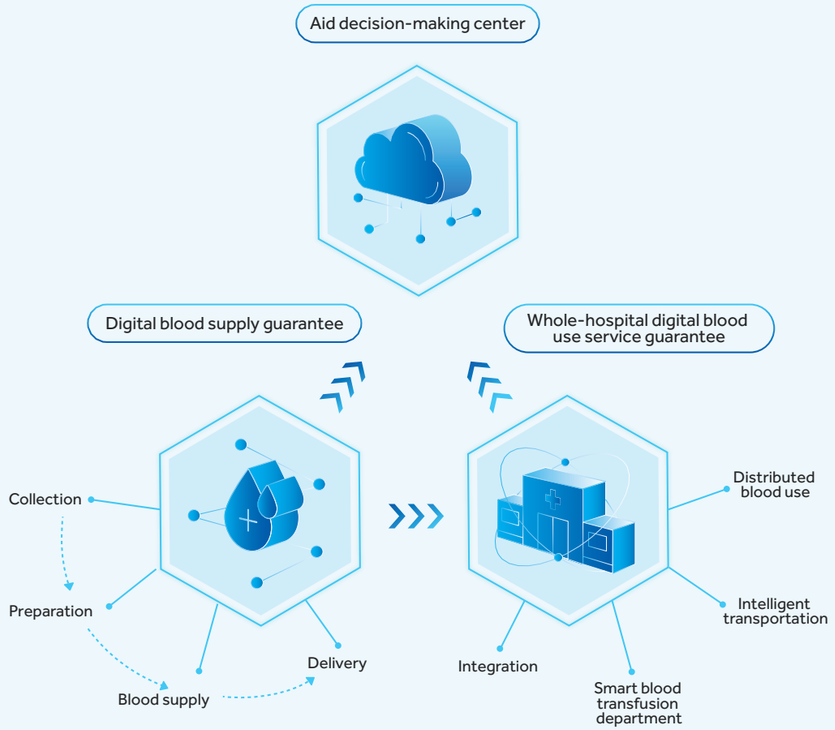
Haier Biomedical is a manufacturer and provider for a complete line of reliable blood management chain products including blood collection vehicle, plasmapheresis machine, blood bag, -86/-40/-30°C freezer, plasma blast freezer, blood bank refrigerator (electrical or solar powered), cold room , transport cooler, plasma platelet, centrifuge, etc.

Blood Network Introduction

The Haier Biomedical Blood Network creates a complete set of digital blood safety solutions and a new blood management model through the integration of devices, a big data platform, and services, thereby achieving efficient blood management and allocation.
Based on the IoT hardware architecture of the digital blood collection and supply scenario and the hospital blood transfusion department scenario, the system builds an aid decision-making platform to enable the quality control and emergency scheduling of blood and the blood collection based on supply, etc., intelligently creating smart blood management for connecting with the smart management operating system to contribute to the Company's vision to "Make Life Better" through the intelligent protection of life science.

Digital Blood Safety Management Complete Solutions

Model: IoT equipment + big data platform+ value-added services



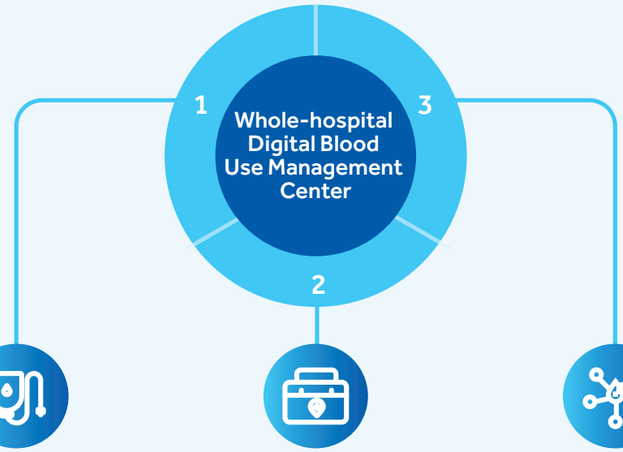
Overview of Blood Network Scenarios

The blood network scenarios are mainly set up around three segments: Digital blood station blood collection and supply scenario, digital hospital blood use scenario, and the data integration platform based on the two digital scenarios.

Complete-hospital Digital Blood Supply Service Platform Centralized Scheme

A Complete-hospital Digital Blood Supply Service Guarantee Platform

Based on the hospital data platform, the blood network builds a complete-hospital digital blood supply service guarantee platform and coverage to support the upgrade from centralized blood supply to distributed blood use, extend the accessibility of blood supply services, and further improve the blood supply guarantee of the whole hospital.



Smart blood transfusion department	Intrahospital transport	Distributed blood use
Automatic inventory counting for precise management, intelligent positioning of blood samples, and equipment interconnection	Real-time blood status tracking and whole-process quality control	Timely supply of blood for clinical use and beforehand blood use guarantee
Intelligent blood bags management, precise positioning, and rapid access	Privilege management to make the whole process controlled	Smart distributed blood banks: Multi-point blood supply guarantee for the whole hospital
Automatic inventory counting and intelligent routing inspection	Full-chain temperature monitoring and guarantee	Emergency blood bank: To make intrahospital and pre-hospital emergency blood use guaranteed
Devices are interconnected for real-time information upload		Operating room/ICU forefront-moved blood bank: To achieve zero waiting for clinical blood use and improve emergency guarantee capabilities

Smart Blood Transfusion Department

Red Blood Cell Management

- **RFID radio frequency**

  Precise management, one-key inventory counting, and quick information query

- **All under control and whole-process information traceable**

  The blood intelligent management system makes the whole-process blood information from stock-in to stock-out controllable, queryable, and traceable

Plasma Management

- **RFID radio frequency**

  Precise management, automatic inventory counting, and quick query

- **Whole-process cold chain monitoring for safety guarantee**

  Whole-process accurate temperature storage and tracking to ensure the safety of each bag of blood

Platelet Management

- **Precise and accurate temperature control**

  Semiconductor refrigeration and intelligent temperature control

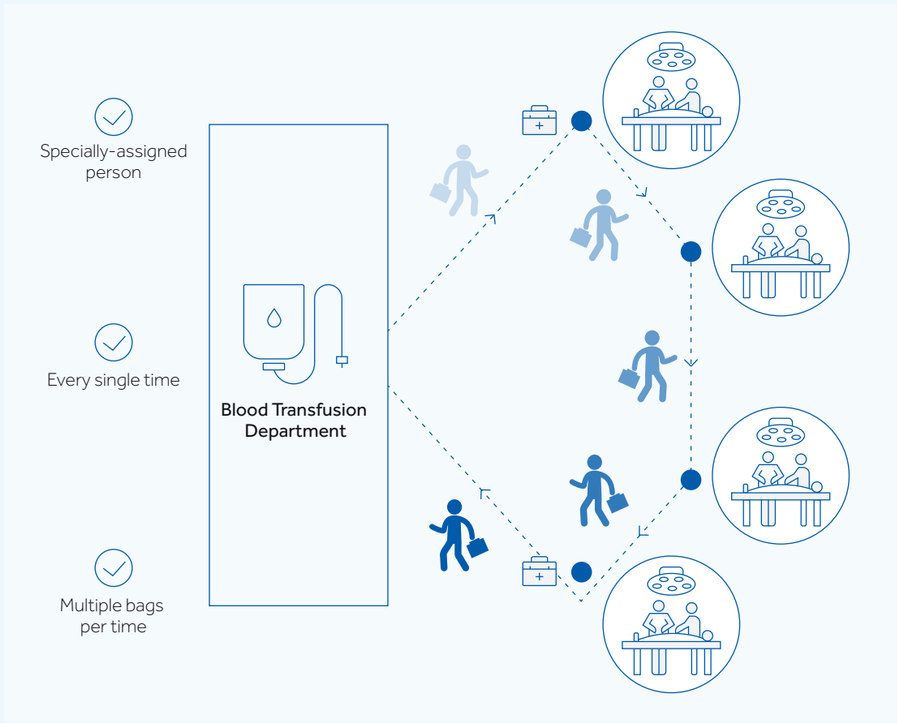
- **Intelligent IoT and data upload**

  Real-time data information upload to facilitate traceability

Intrahospital Transport

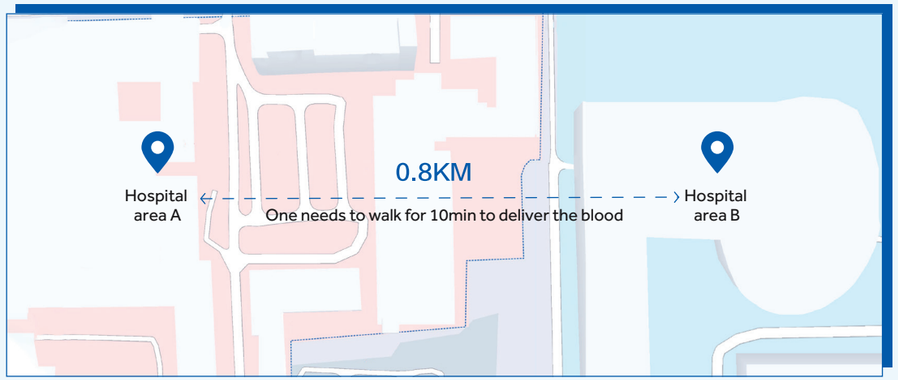
Orderly Blood Distribution Mode

Number of persons required by the blood distribution window≈0
Full-time blood delivery personnel*(1~2)
Special blood collection box*N



Distributed Blood Bank

1 Distributed blood use - Smart distributed blood banks



Hospital area distributed blood bank mode: Autonomous blood distribution to ensure the safety of blood use

Video Surveillance

Transfusion department handover (optional)

Confirmation by Video Call

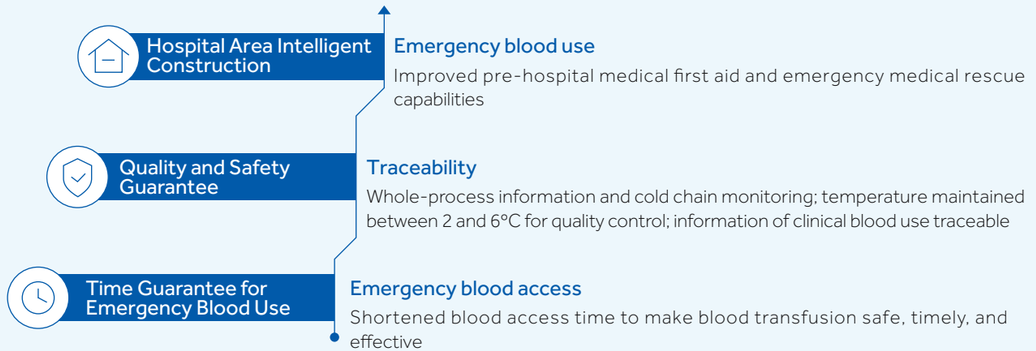
- **Improving and refining the management and efficiency of blood banks**
  The management efficiency of the blood transfusion department can be improved. The stock-in and stock-out, equipment monitoring, temperature monitoring, and personnel management of the whole blood bank are IoT-based to enable the complete-process, traceability and monitoring without any need for additional labor.

- **The upgrade from centralized blood supply to distributed blood use extends the accessibility of blood supply services and further improves the blood supply guarantee of the whole hospital**

2 Distributed blood use - Emergency/Operation/ICU blood use

Scenario Description

Blood storage refrigerators are placed in the clinical blood using departments, including the emergency department, operating rooms, and ICUs, and connected to the blood transfusion management system for temporary blood storage. Before infusion, the clinical staff will collect the blood by bag as needed, and the unused blood can be allocated within the hospital under the whole-process cold chain monitoring condition.

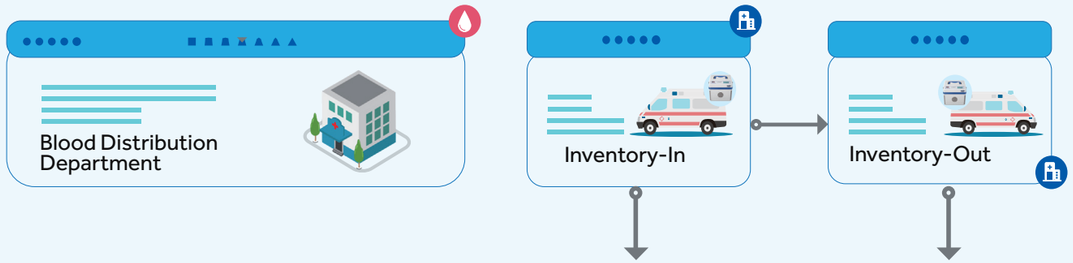


Distributed Blood Bank

Clinical Blood Use Blood is available immediately to make blood transfusion safe, timely, and effective

Nursing Department Logistics time is reduced to reduce workload while improving blood use guarantee capabilities; emergency blood use is fully guaranteed

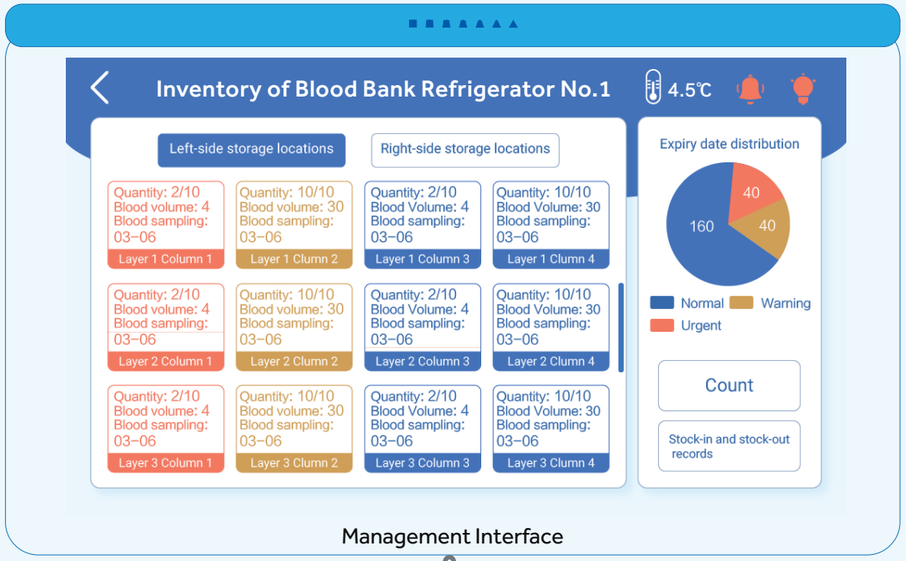
Blood Transfusion Department Both blood quality and patient safety are guaranteed

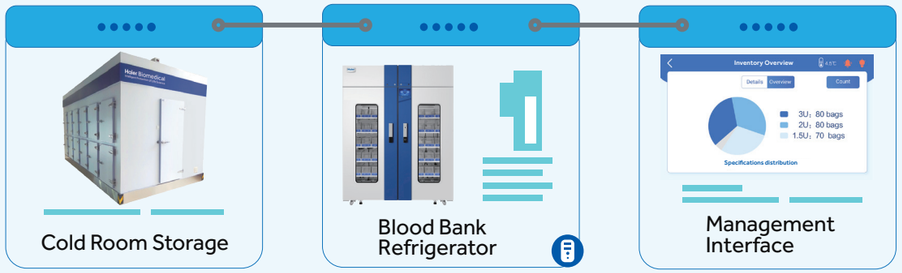


Blood Station Working Solution Synopsis

By adding RFID tags to blood bags and either scanning or writing the information, this program ensures accurate positioning of blood products with the intelligent IoT information management system. Through batch verification, quality information control, batch storage accuracy, transport of blood from collection to clinical transfusion, this system enhances the blood quality and safety across the entire health network.

The main aim of the scheme is to strengthen the blood information management from collection to clinical infusion, enhancing blood quality and safety. It is achieved by using an RFID read-write device, RFID detector, RFID walk-in cold room, transfer boxes and blood bank refrigerators which feed data into an IoT blood solution ecosystem. Information such as, blood products batch scanning, batch check information, quality control information, batch stock-in and stock-out, quick inventory count, accurate positioning, information statistics, cold chain storage information, transport information and blood bank product movements can be assimilated to provide a complete picture of an organization's blood management and supply network.





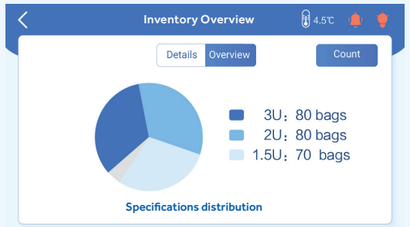
Blood Station Product Overview

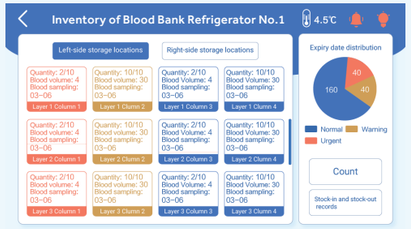
Cold Room Storage

Product Features

- Large 10-inch screen PLC intelligent control system provides users with clear display of storage conditions
- PLC intelligent control system with self-diagnostics alerts users in the event of a malfunction
- Cold air leakage is reduced as the air cooling fan stops when the door is opened and it is equipped with door open sensor and alarm
- Dual refrigeration system switches automatically in case of fault of one system and the laminar air flow supply device within the unit ensures the temperature uniformity of ±2°C
- Energy-saving liquid self-cooling technology cools the liquid by more than 5°C through the use of melted ice and reduces energy consumption by 5%
- Certified ISO 13485 medical device quality management system
- Complies with the WHO/PQS quality and safety certification

Blood Bank Refrigerator





Software management interface

Product Features

- **Smart IoT scientific and intelligent inventory management:**
  The blood inventory management App ensures accurate, real-time and automatic management of stock-in and stock-out information
- **RFID precise positioning and visual management:**
  Automatic RFID identification ensures intelligent and dynamic positioning of the blood bags, guides users precisely for accurate and swift blood bag identification and removal
- **Intelligent and fully interactive visual blood bank management:**
  With the touch of one button, or via the refrigerator App, view statistics and query of the blood donation code, product code, blood type, blood volume, expiry date and other information of the blood bags in stock. Clearly displaying the storage location of the blood with the closest expiry date to ensure first-in first-out management practices
- **The refrigerator or freezer has a built-in RFID read-write device:**
  To ensure state of the art inventory count using a simple one-button protocol, the inventory information is displayed in real-time to fast track the bag from the blood bank to the required location
- **Accurate positioning:**
  Users can quickly query and find the location of any blood bag stored at the blood bank
- **Information is accurate and reliable:**
  The blood information stored in the RFID tag is encrypted with read-only information to ensure that such information cannot be deleted or tampered with, and thus is safe, secure and reliable

Hospital Solution Summary

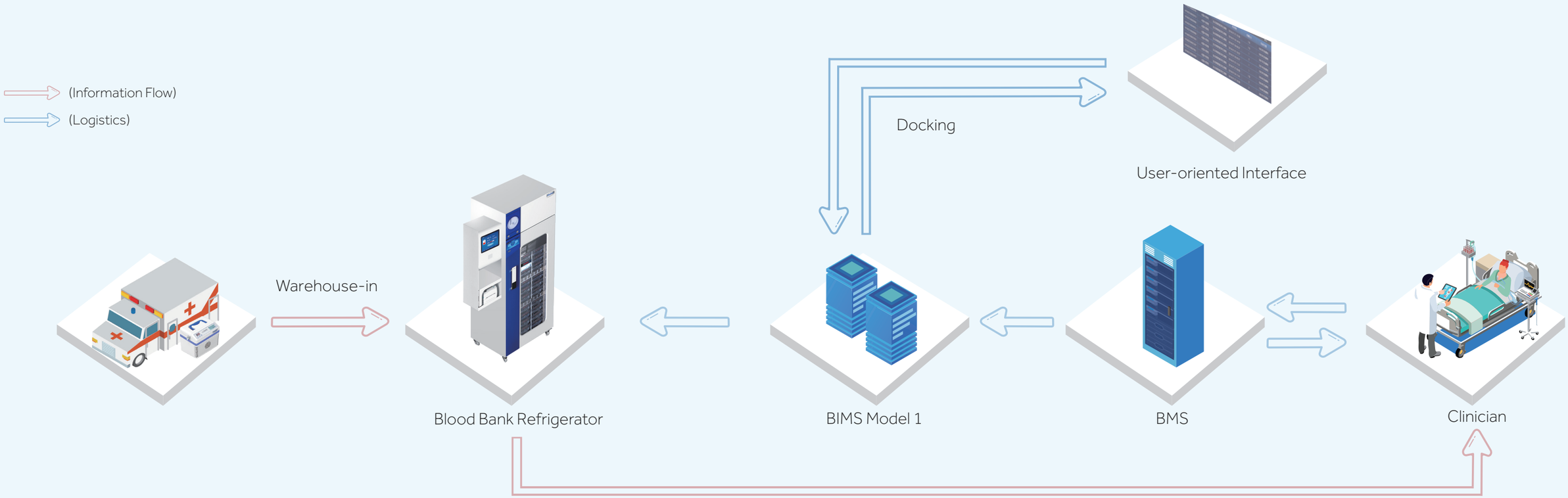
Solution Introduction

Connected to the blood bank refrigerator, the RFID tag reader and the server can also download the blood bank refrigerator and control data to the App through the network. The blood transfusion information management system and electronic blood matching system are connected with the hospital's intranet. The blood bank refrigerator can be moved to the operating room, ICU or emergency room.

The RFID tag reader can determine the positions of blood bags, and the App LCD screen can control the storage and removal of the blood bags and check the quantity and status of the blood bags. Using the server data, the user can also download control commands to the blood bank refrigerator App through the network to operate the refrigerator remotely. The intelligent operation of clinical blood matching, blood usage and safety are guaranteed.

Technological Advantage

Following extensive research and proven implementation, the UBlood solution allows a hospital via control and tracking protocols within the system, to effectively manage blood throughout the entire hospital. With this system, the hospital can allocate and track the blood product usage, record the blood product transfusion in real time, ensure accurate transfusion of the blood to the right patient, at the right time and in the right dose. The result is best practice and quality clinical transfusion improves the efficiency of blood management and the blood use safety for blood recipients.



Hospital Blood Department Products

Blood Bank Refrigerator

Software management interface

Product Features

- The system ensures accurate blood positioning and one-stop blood access to reduce the door opening duration of the blood bank refrigerator, guaranteeing the blood storage environment and ensuring blood quality and safety
- No need for manual count; on each occasion when the blood bank refrigerator is closed, the automatic inventory counting mechanism will be activated to automatically count and update the inventory levels
- Intelligent inventory management follows the first-in-first-out principle to improve the efficacy of blood transfusions; the blood delivery process goes through three checks to ensure the security of the blood transfusion
- The blood bank is accessible within the operating room ensuring priority to blood matching from the blood bank refrigerator within the operating area, ensuring immediate blood collection and zero wastage

Transport Cooler

The transport cooler is a specially designed transport temperature/humidity controlled storage device with integral wireless monitoring to transport blood products and biological samples.

Product Features

- Equipped with cold chain monitoring module for temperature and humidity:
  Displays data in real-time and information is uploaded to the cloud platform for query through the 4G module
  GPS positioning allows users to query the movement and track the transport cooler in real time
  Camera monitoring to automatically identify whether there are stored items in the cooler to prevent storeditems being left in error.
- Storage temperature is maintained at 2~6°C once the cooler is fully charged; the transfer temperature can be maintained at 2~10°C with no power
- Storage security is enhanced with an NFC swipe card module, lock/unlock status information is uploaded in real-time
- 12V and 100-240V power supply for in-vehicle operation
- Energy-efficient optimized semi-conductor refrigeration technology

Blood Bank Refrigerators & Freezers

Automated Blood Management Refrigerator

HXC-1369TR

Product Advantages

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 alarm, 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)

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

Speed Control Condenser Fan
High efficiency and energy saving, low noise and long service life

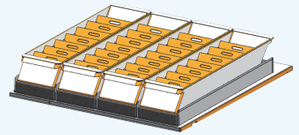
Double Protection of Door Mechanical Lock and Electromagnetic Lock
Electromagnetic lock can realize NFC card punching unlocking and fingerprint unlocking function

Inverter Compressor
High efficiency and energy saving, low noise and long service life

Standard USB Port
With optional chart temperature recorder

Information Flow

Place the blood bag with RFID tag in blood basket

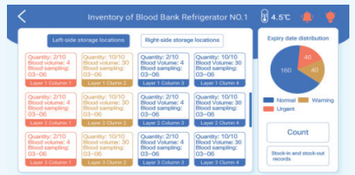


Using built-in RFID read& write board of the refrigerator to read blood bag information

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

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

Product Advantages

Drastically Improves the Speed of Delivery

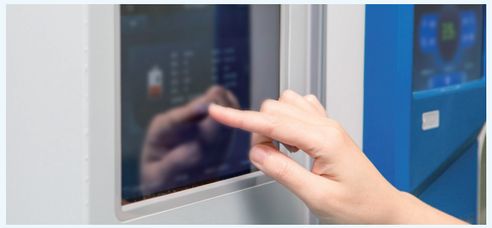
Innovative blood bank system, enables the blood to be advanced to the operating room to achieve 1-minute rapid blood collection.

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	
Dimensions	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	
	Remote Alarm		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	
Others	Certification		CE, MDR	UL	CE, MDR	UL	CE, MDR	UL

Unattended Self-service Blood Distribution Refrigerator

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

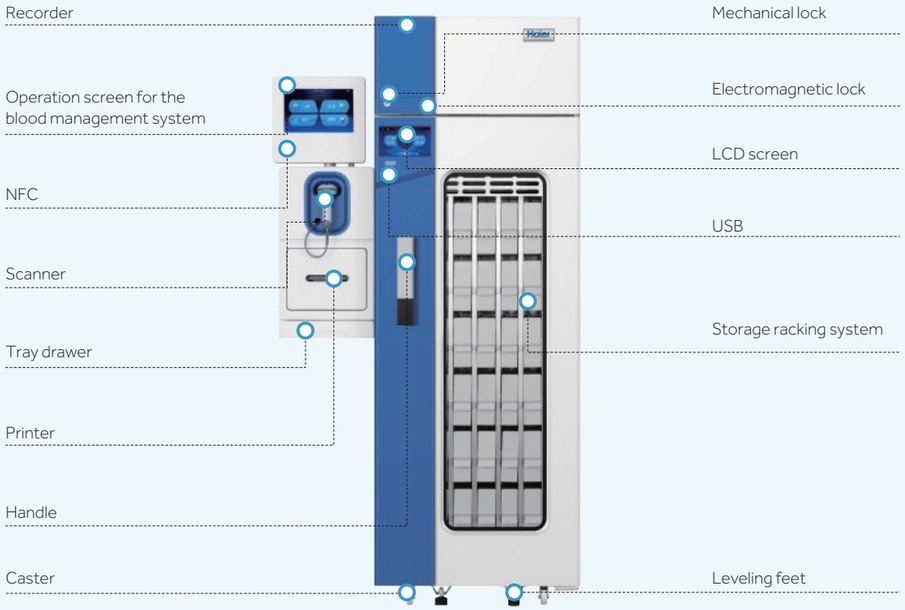
Standard ozone module, according to the actual need to set regular disinfection time, without manual disinfection

Automatic Inventory

Automatic inventory and blood bag information at a glance

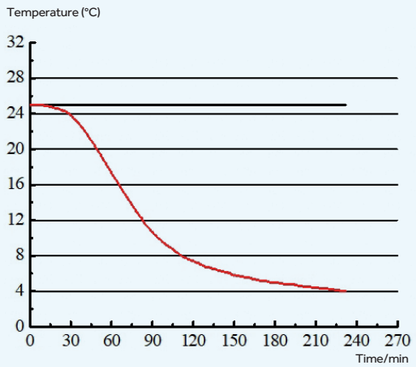



Unattended Self-service Blood Distribution Refrigerator

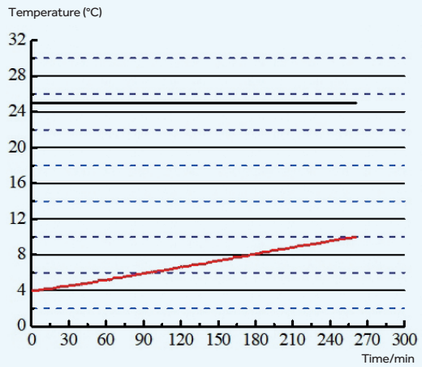


Product Performance

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	48
	Net/Gross Weight (approx)	kg	245/280	295/335
		lbs	539/616	649/737
	Interior Dimensions (W*D*H)	mm	505*680*1315	645*680*1455
		in	19.7*26.5*51.3	25.2*26.5*56.7
	Exterior Dimensions (W*D*H)	mm	925*940*1830	1065*940*1980
		in	36.1*36.7*71.4	41.5*36.7*77.2
	Packing Dimensions (W*D*H)	mm	725*985*1940	875*995*2090
		in	28.3*38.4*75.7	34.1*38.8*81.5
	Container Load (20'/40'/40'H)		18/35/35	12/26/26
Alarms	High/Low Temperature		Y	Y
	Power Failure		Y	Y
	Sensor Error		Y	Y
	Low Battery		Y	Y
	Door Ajar		Y	Y
	Remote Alarm		Y	Y
Accessories	Caster		4	4
	Foot		2	2
	Porthole		Y	Y
	Drawers		36	48
	USB Interface		Y	Y
	Temperature Recorder		Y	Y
Others	Certification		CE, MDR	CE, MDR

Unattended Self-help Blood Distribution Refrigerator

Smart IoT and self-help blood distribution

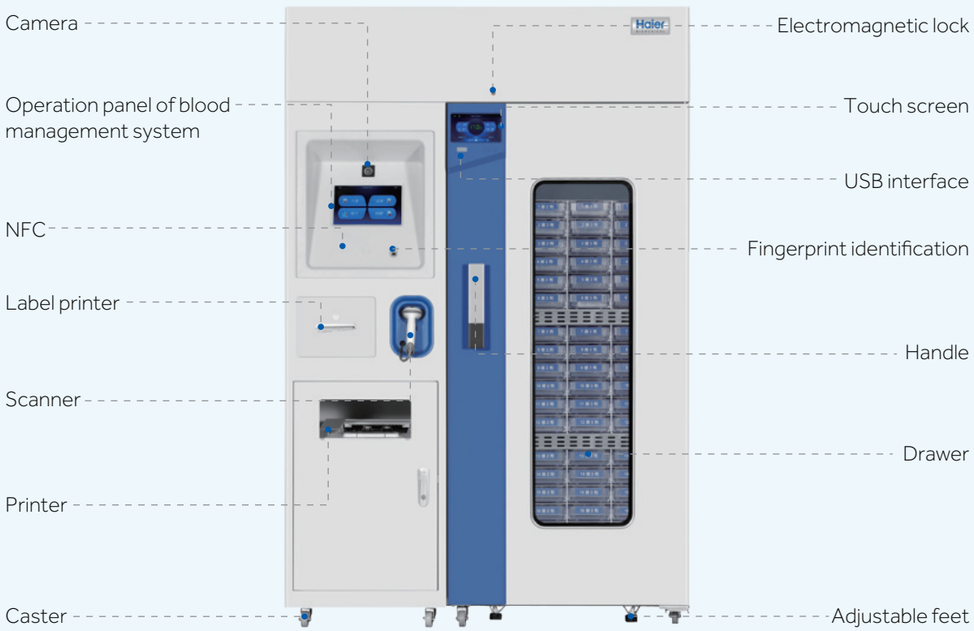
HXC-629ZZ

Self-help blood distribution of 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 costs 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 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

Real-time Control to Avoid Freezing 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

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

Safe, Reliable and Traceable

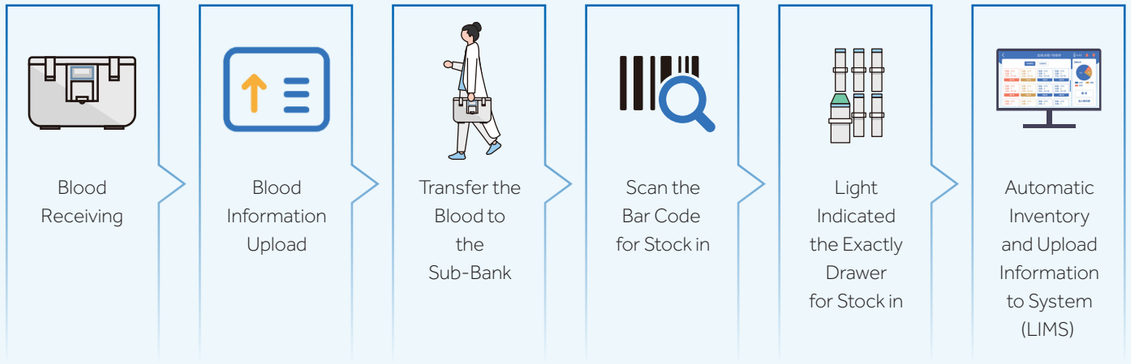
- Designed with fingerprint and NFC access modules providing dual permission modes to open the electromagnetic lock
- Each drawer is equipped with an independent electronic lock to ensure that only the unique and correct blood bag can be taken out in each blood collection operation
- The camera module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

Self-service printing

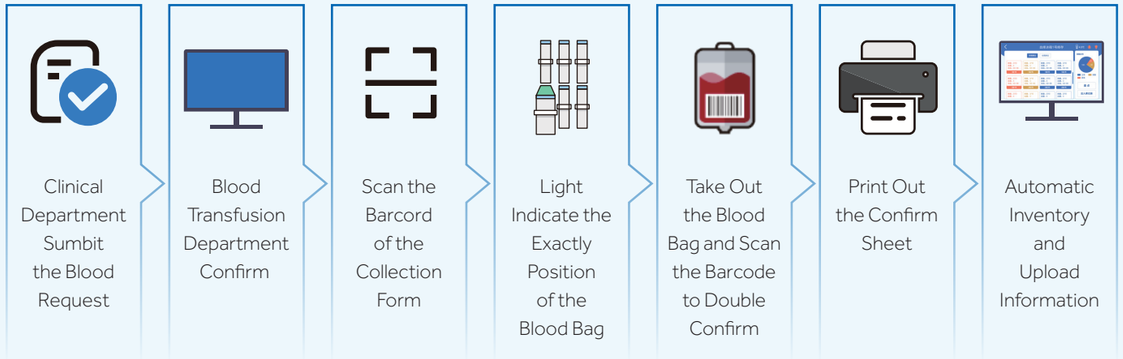
A drawer corresponds to a lock

Unattended Self-help Blood Distribution Refrigerator

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

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.

Unattended Self-help Blood Distribution Refrigerator

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

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

HXC-149ZZ

Product Advantages

Reduce Waste and Improve Efficiency

- 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

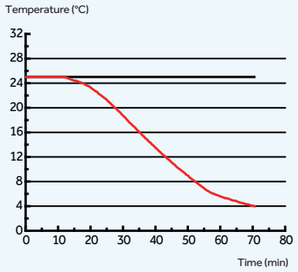
A drawer corresponds to a lock

Unattended Self-help Blood Distribution Refrigerator

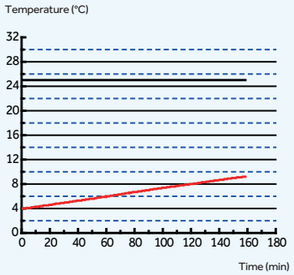
HXC-149ZZ

Product Performance

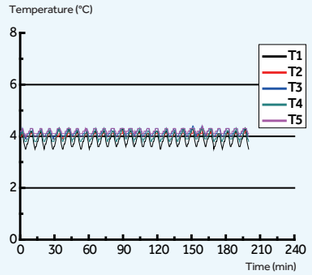
Cool down curve (empty loaded)



Warm up curve (empty loaded)



Stable operating curve (empty loaded)

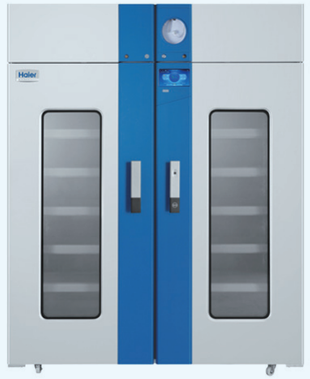


Specifications

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 (℃)		4±1
	Ambient Temperature (℃)		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		Optional
Others	Certification		CE, MDR

Automated Blood Management Refrigerator with Touchscreen

Product Features



HXC-1369T

Control Interface

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

Microcomputer 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

Information Statistics

Real-time control and monitoring of blood information in the cabinet is possible via built-in smart blood management APP and cloud network connection. Blood product information and temperature are available in large LCD display

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 power failure. Fingerprint and standard NFC swipe card module are optional

Multiple storage partitions are provided. Management of blood products by types and expiration dates is easy and efficient

Specifications

	Model		HXC-149T	HXC-279T	HXC-429T	HXC-629T	HXC-1369T
Technical Data	Type		Drawer-Type	Drawer-Type	Drawer-Type	Drawer-Type	Drawer-Type
	Climate Class		N	N	N	N	N
	Cooling Type		Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling
	Defrost Mode		Auto	Auto	Auto	Auto	Auto
	Refrigerant		R600a	R600a	R600a	R600a	R600a
	Sound Level (dB(A))		39	39	40	40	41
Performance	Temperature Range (°C)		4±1	4±1	4±1	4±1	4±1
	Ambient Temperature (°C)		16-32	16-32	16-32	16-32	16-32
Control	Controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display		LCD	LCD	LCD	LCD	LCD
Electrical Data	Power Supply (V/Hz)		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	295	245	255	400
	Electrical Current (A)		1.4	1.5	1.5	1.5	2
Dimensions	Capacity (L/Cu.Ft)		149/5.3	279/9.85	429/15.15	629/22.21	1369/48.35
	Blood Storage Capacity (450ml Blood Bags)		60	48.34577874	195	312	624
	Net/Gross Weight (approx)	kg	108/136	113/130	182/217	212/252	380/445
		lbs	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*410*1315	505*680*1315	645*680*1455	1425*680*1455
		in	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	630*705*1750	625*940*1830	765*940*1980	1545*940*1980
		in	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	748*777*1881	749*1008*1960	880*1010*2090	1678*1044*2085
		in	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	14/45/45	18/35/35	12/26/26	7/14/14
Alarms	High/Low Temperature		Y	Y	Y	Y	Y
	Power Failure		Y	Y	Y	Y	Y
	Sensor Error		Y	Y	Y	Y	Y
	Low Battery		Y	Y	Y	Y	Y
	Door Ajar		Y	Y	Y	Y	Y
	Remote Alarm		Y	Y	Y	Y	Y
Accessories	Caster		4	4	4	4	4
	Foot		2	2	2	2	2
	Porthole		Y	Y	Y	Y	Y
	Baskets		6	15	15	24	48
	Shelves/Drawers		0/2	5/0	0/5	0/6	0/12
	Inner doors		0	5	0	0	0
	USB Interface		Y	Y	Y	Y	Y
	Temperature Recorder		Y	/	Y	Y	Y
Others	Certification		CE, MDR | UL	CE, MDR	CE,MDR | UL	CE, MDR | UL	CE, MDR | UL

Blood Management Refrigerator with LED Display

Product Features

HXC-429

Dual Temperature Control Technology

Refrigeration system is designed with an inverter compressor and dual-speed fans, providing an optimal temperature performance of 4± 1°C inside the cabinet to safeguard stored products

Standard USB Interface

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

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 7 high-precision sensors and a mechanical thermostat which enables more accurate air cooling and temperature control to ensure the uniform temperature inside the unit is 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.
- 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 power failure
- NFC swipe card module, with safer storage management

NFC Rights Management

NFC rights management system is designed with an electromagnetic lock with controllable, checkable and traceable flow direction, providing safer blood management

Specifications

Model			HXC-149	HXC-279 (Vehicle Mounted)	HXC-429	HXC-629	HXC-629B	HXC-1369
Technical Data	Type		Basket-Type	Drawer-Type	Basket-Type	Basket-Type	Basket-Type	Basket-Type
	Climate Class		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
	Defrost Mode		Auto	Auto	Auto	Auto	Auto	Auto
	Refrigerant		R600a	R134a	R600a	R600a	R600a	R600a
	Sound Level (dB(A))		39	39	40	40	41	41
Performance	Temperature Range (°C)		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
Control	Controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display		LED	LCD	LED	LED	LED	LED
Electrical Data	Power Supply (V/Hz)		220-240/50 | 230-50/60	230-50	220-240/50 | 230-50/60	220-240/50 | 230-50/60	115/60	220-240/50 | 230-50/60
	Power (W)		240	400	245	255	255	400
	Electrical Current (A)		1.4	1.5	1.5	1.5	3	2
Dimensions	Capacity (L/Cu.Ft)		149/5.3	279/9.85	429/15.15	629/22.21	629/22.21	1369/48.35
	Blood Storage Capacity (450ml Blood Bags)		60	135	195	312	312	624
	Net/Gross Weight (approx)	kg	97/125	113/130	169/204	187/217	187/217	345/410
		lbs	213.4/ 275	249/286.6	371.8/448.8	411.4/477.4	411.4/477.4	759/902
	Interior Dimensions (W*D*H)	mm	505*560*610	505*410*1315	505*680*1315	645*680*1455	645*680*1455	1425*680*1455
		in	19.7*32.3*23.8	19.9*16.1*51.8	19.7*26.5*51.3	25.2*26.5*56.7	25.2*26.5*56.7	55.6*26.5*56.7
	Exterior Dimensions (W*D*H)	mm	625*820*1150	660*705*1750	625*940*1830	765*940*1980	765*940*1980	1545*940*1980
		in	24.4*30.2*44.9	25.98*27.8*68.9	24.4*36.7*71.4	29.8*36.7*77.2	29.8*36.7*77.2	60.3*36.7*77.2
	Packing Dimensions (W*D*H)	mm	730*926*1236	748*777*1881	749*1008*1960	880*1010*2090	880*1010*2090	1678*1044*2085
		in	28.7*36.5*48.7	29.4*30.6*74.1	29.5*39.7*77.2	34.7*39.8*82.3	34.7*39.8*82.3	66.1*41.1*82.1
	Container load (20'/40'/40'H)		18/38/76	14/45/45	18/35/35	12/26/26	12/26/26	7/14/14
Alarms	High/Low Temperature		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
	Remote Alarm		Y	Y	Y	Y	Y	Y
Accessories	Caster		4	4	4	4	4	4
	Foot		2	2	2	2	2	2
	Porthole		Y	Y	Y	Y	Y	Y
	Baskets		6	15	15	24	24	48
	Shelves/Drawers		2/0	5/0	5/0	6/0	6/0	12/0
	Inner doors		2	5	5	6	6	12
	USB Interface		Y	Y	Y	Y	Y	Y
	Temperature Recorder		Y	/	Y	Y	Y	Y
Others	Certification		CE, MDR | UL	/	CE, MDR | UL	CE, MDR | UL	UL	CE, MDR | UL

Standard Blood Bank Refrigerator

Haier Biomedical's blood bank refrigerator is specially designed to store whole blood and blood derivatives. These refrigerators can also be used to store pharmacy and biological materials in hospitals and laboratories.

Product Features

- Constant cabinet temperature at 2-6°C
- High-tech integrated sensors to display and control temperature
- Standard temperature recorder (Optional for HXC-158)
- Auto-defrost to remove moisture on cooling surface
- Large digital display for ease of observation
- Basket or drawer styles for managing stored products

HXC-158B

Reliability

- Microprocessor controlled forced-air cooling system with heat compensation system
- Digital temperature display for upper and lower sections in chamber with 0.1°C resolution
- Dual displays of operational parameter (temperature recorder display)
- Five alarm conditions: high/low temperature, power failure, sensor error, door ajar, low voltage in backup battery

Ergonomic Design

- Safety lock to prevent unauthorized access
- Storage space designed for easy sorting of a variety of blood products
- Optional baskets or stainless steel drawers
- Caster design
- Interior light

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	Caster		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

4°C Blood Bank Refrigerator

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

Product Advantages

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

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

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

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

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)

Remote Alarm Function
The alarm can be connected to other rooms to achieve remote alarm functionality

HXC-106

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

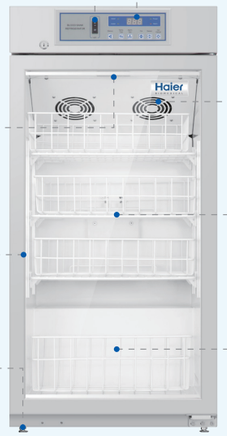
Product Parts

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 is 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

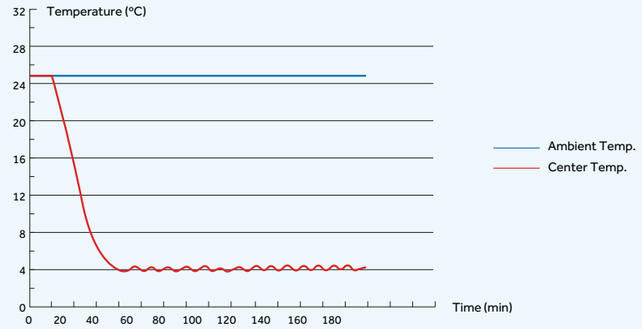
The temperature measuring box is used to monitor the temperature in the cabinet in real time

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

HXC-106

Cooling Down Curve

Temperature drop and insulation curve



Solar Direct Drive Blood 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

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 supplies in areas where the power shortage is common.

Product Advantages

- 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
- 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

HTXC-240

Product Features

- Solar direct drive refrigerator without battery
- Vertical structure, first-in first-out, easy operation
- Environmentally friendly hydrocarbon refrigerant R600a and foam material LBA
- Automatic drainage design

Product Parts

Lock Catch Designed to Match Padlock

Handgrip

Display Panel

HTXC-240

Solar Direct Drive Blood Refrigerator

Specifications

Model			HTXC-120	HTXC-240
Technical Data	Cabinet Type		Upright	Upright
	Ambient Temperature (°C)		≤43	≤43
	Cooling Type		Direct Cooling	Direct Cooling
	Defrost Mode		No Electric Heating Defrost	No Electric Heating Defrost
	Refrigerant		HC	HC
	Sound Level (dB(A))		≤43	≤43
Performance	Temperature Range (°C)		2~8	2~8
	Freezer Protection Level		A	A
Electrical Data	Controller		Microprocessor	Microprocessor
	Display		Solar LED Temperature Display	Solar LED Temperature Display
Electrical Data	Power Supply (V)		24	24
	Maximal Current (A)		5	5
	Energy Consumption: Stable Running (kWh/24h)		0.44	0.35
	Energy Consumption: Cool Down Test (kWh/24h)		0.48	0.54
	Autonomy Time at 43°C		11hrs24mins	95hrs23mins
	Autonomy Time at 32°C		183hrs20mins	151hrs10mins
	Solar Radiation Reference Period (kWh/m²/day)		3.5	3.5
Construction	Blood Storage Capacity (350ml Blood Bags)		108	192
	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
Loading Quantities	Container Load (20'/40'/40'H)		12/24/24	12/24/24
Alarms	High/Low Temperature		Y	Y
	Sensor Error		Y	Y
Accessories	Shelves		3	4
	Data Logger		Y	Y
	Remote Temperature Monitoring Device (RTMD)		Optional	Optional
Certifications	CE		N	N
	WHO/PQS		N	N

-30°C Plasma Freezer

IoT Cryogenic Solution

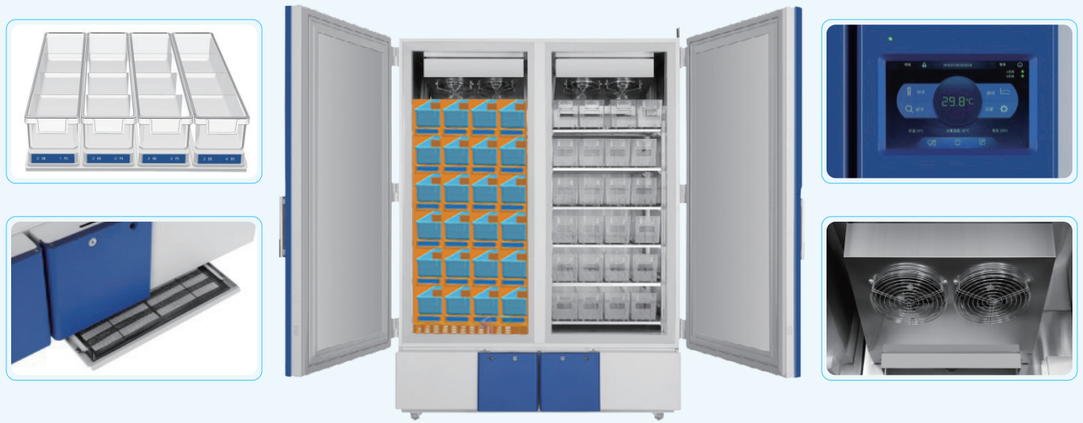
DW-30L1280FT (Intelligent)

Product Features

- RFID radio frequency, accurate management of plasma information, with automatic inventory and quick inquiry function
- Hydrocarbon refrigeration, efficient and quick
- 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

-30°C Plasma Freezer

Product Parts



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, setting temperature, input voltage, network status, user logging 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

Bottom Air Inlet System, Low Noise

Equipped with a special filter net, ensuring the cleanliness and safety of interior air

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

Multistage Plasma Storage Basket

Multistage plasma storage basket design, streamlines plasma storage and placement, easy to access

Specifications

Model			DW-30L1280FT (Intelligent)
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	Caster		Y
	Foot		Y
	Porthole		Y
	Drawers/Inner Doors		N
	Temperature Recorder		Y
	USB Interface		Y
	RS485		Y
Others	Certification		/

-30°C Plasma Freezer

Applicable for blood stations, hospitals, CDCs, scientific research institutes, electronics, chemical industry and other related industries, Haier Biomedical's product can cryopreserve plasma, biological products, components, materials and other items that need to be kept at low temperature

DW-30L1280F

Product Advantages

Dual independent refrigeration systems: Superior safety

Auto defrosting system+constant refrigeration system, has successfully solved the industries problem that inside temperatures rise sharply when fan cooling refrigerators
defrost; 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).

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.

Advanced defrosting technology eradicates the hidden danger of electric leakage

Haier Biomedical applies full-automatic hot gas defrosting technology throughout the whole unit. Compared with heater wire defrosting technology,
Haier Biomedical's technology eliminates the risk of electric leakage occurring due to wire aging, providing extra security and safety.

Hydrocarbon energy saving: green and environmentally friendly

Using green and eco-friendly hydrocarbon refrigeration system, based on the principle of zero damage to the ozone layer with zero greenhouse effect, while reducing energy consumption to 8kW/24H.

-30°C Plasma Freezer

Product Parts

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

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

Standard USB port

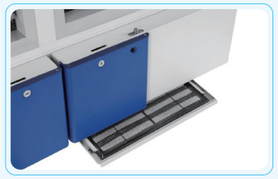
Capable of storing more than 15 years of data

Low noise

Optimal system and engine noise reduction design, the temperature can cool down to -30°C within 3 hours

Bottom strainer drawable design

Easy to clean



Insulation design of refrigeration unit

Subtle temperature rise during defrosting

Shelves

Equipped with 12 stainless steel shelves of 6 layers, which are adjustable to meet different requirements of users

Optional: Blood baskets (48 units), and the capacity is 900*200ml blood bags

Intelligent hot gas defrosting

Prolongs the defrosting cycle, eradicates the hidden danger of electric leakage

Foam beam design

Better insulation effect

Specifications

Model			DW-30L1280F
Technical Data	Cabinet Type		Upright
	Climate Class		N
	Cooling Type		Forced Air Cooling
	Defrost Mode		Automatic Defrost
	Refrigerant		HC
	Sound Level (dB(A))		46
Performance	Cooling Performance (°C)		-30
	Temperature Range (°C)		-10~-30
Control	Controller		Microprocessor
	Display		LED
Electrical Data	Power Supply (V/Hz)		220~240/50
	Power (W)		900
	Electrical Current (A)		5
Dimensions	Capacity (L/Cu.Ft)		1280/45.2
	Net/Gross Weight (approx)	kg	420/480
		lbs	925/1057
	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	Audible and Visual		Y
	High/Low Temperature		Y
	Remote Alarm		Y
	Power Failure		Y
	Sensor Error		Y
	Low Battery		Y
	High Ambient Temperature		Y
	Dirty Condenser		Y
	Door Ajar		Y
Accessories	Caster		Y
	Foot		Y
	Porthole		Y, 1 Left Side, 1 Right Side, (25mm)Diameter
	Drawers/Inner Doors		Optional/
	USB Interface		Y
	RS485		Y
	NFC		Y
	Temperature Recorder		/
Others	Certification		CE, 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.
- The unit is small in size, movable and easy to use, which reduces the burden of users.
- Large color touch screen, easy to operate.
- Optimized system and structural noise reduction design, low operating noise.

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

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

Data and identity protection system

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

A messenger who automatically processes data information

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

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.

The pioneer to maintain blood activity perfectly

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-III	110-240~50/60	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%

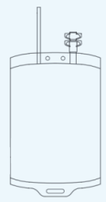
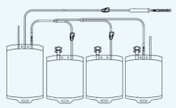
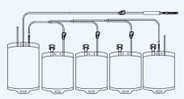
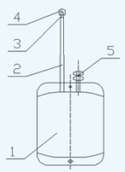
This product is composed of a mainframe (Centrifuge, blood pump, anticoagulant pump, weighing scale, display screen, air detector, pressure detector, control panel) and a pressure cuff, excluding the matching disposable pipe consumables.

Disposable Plastic Blood Bags

Blood Bags Body Specifications

- Disposable plastic blood bags (referred to as "blood bags") are divided into single bag (S), double bags (D), triple bags (T), quadruple bags (Q), anentagram bags (P) and transfer bag (Tr)
- Blood bags body can be divided into 50ml, 100ml, 160ml, 180ml, 200ml, 250ml, 300ml, 350ml, 400ml, 450ml, 500ml, 600ml, 800ml, and 1000ml according to the volume of blood collected, transferred, and stored anticoagulant/preservative solution

The specifications of blood bag body

Description	Specification	Schematic Diagram	Anticoagulant
Single Blood Bag	S-50		ACDB/CPDA
	S-100		
	S-200		
	S-250		
	S-300		
	S-350		
	S-400		
	S-450		
	S-500		
	S-600		
	S-800		
	S-1000		
Double Blood Bags with NPD	D-100		ACDB/CPDA
	D-200		
	D-250		
	D-300		
	D-350		
	D-400		
	D-450		
Triple Blood Bags with NPD	T-200		ACDB/CPDA+MAP
	T-250		
	T-300		
	T-350		
	T-400		
	T-450		
Quadruple Blood Bags (with PDS and NPD)	Q-200		ACDB/CPDA+MAP
	Q-250		
	Q-300		
	Q-350		
	Q-400		
	Q-450		
Pentagram Blood Bags (with NPD)	P-200		ACDB/CPDA+MAP
	P-250		
	P-300		
	P-350		
	P-400		
	P-450		
Transfer Empty Bag (Tr)	Tr-50		/
	Tr-100		
	Tr-160		
	Tr-180		
	Tr-200		
	Tr-250		
	Tr-300		
	Tr-400		

Note:

1.The above products can be made of blow molding film and calendered film,calendered film is available in 200/400ml two specifications (excluding five bags),and can be optional Pre-donation sampling device (PDS) and needle stick protection device (NPD) .

2.The meanings of the English abbreviation of description are :Blood Preservation Solution II(ACDB), Blood Preservation Solution III (CPDA), Red Blood cell Preservation Solution (MAP).

The Composition and Naming Rules of Blood Bags

The composition of blood bags

Disposable plastic blood bags consist of blood collection bag, blood-taking needle, protective sleeve, tube (including blood collection and transfer tube), connector, clamp, transfer bag, or (blood preservative solution, needle sticek protection device, collection sample device, platelet storage bag, optional)

Naming of blood bag components

- Blood bags body: S represents single bag, D represents double bags, T represents triple bags, Q represents quadruple bags, Tr represents transfer bag, P represents pentagram bags;
- Blood-taking needle: The specifications of blood-taking needle are 16G and 17G, with 6 representing 16G and 7 representing 17G;
- Blood preservative solution:

  A) Anticoagulation Solution II (referred to as: ACD-B) consists of sodium citrate, citrate and glucose. The shelf life of stored blood is 21 days, and 25ml ACD-B should be added for every 100ml of blood;

  B) Anticoagulation Solution III (referred to as: CPDA-1) consists of sodium citrate, citric acid, glucose, sodium dihydrogen phosphate and adenine. The shelf life of stored blood is 35 days, and 14ml CPDA-1 should be added for every 100ml of blood;

  C) Red Cell Storaging Solution (referred to as: MAP) consists of sodium citrate, citric acid, glucose, sodium dihydrogen phosphate, adenine, sodium chloride and mannitol. The shelf life of stored red blood cells is 35 days, and 25ml MAP should be added for every 100ml red blood cells.

  D) There are two specifications available for blood preservative solution: CPDA represents CPDA-1, AMP represents (ACD-B+MAP).

- Optional devices include: needle sticek protection device, collection sample device, platelet storage bag; N represents needle sticek protection device, S represents collection sample device, Prepresents platelet storage bag.

Sterilization

- Disposable plastic blood bags (single bag, double bags, triple bags, quadruple bags, transfer bag, P represents pentagram bags) containing anticoagulant/preservative solution shall be sterilized by moist heat and packaged in plastic bags
- Transfer bag without anticoagulant/preservative solution is packaged in plastic bags and dialysis paper, sterilized with ethylene oxide and valid for 2 years

Transport Cooler

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

- 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

Specifications

	Model	HZY-8ZA	HZY-15ZA	HZY-35B
Technical Data	Storage Temperature (℃)	2~6	2~6	/
	Operating Temperature	2~10	2~10	2~10
Electrical Data	Power Supply (V/Hz)	100~240 50/60	100~240 50/60	/
	Capacity (L/Cu.Ft)	5.5/0.19	11.6/0.41	30.8/1.09
	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)	400*370*370	595*384*418	674*455*490
	Net Weight	4	6	10.5
	Gross Weight (kg)	5	7	12
	Blood Bag Capacity	8	15	35
Alarms	Container Load (20'/40'/40'H)	450/900/900	260/520/520	160/320/320
	Cold Chain Monitoring	With	With	Without
	RFID Identification	Without	Without	Without
	NFC Unlock	Without	With	Without
	Foam Material	Polyurethane Cycloisopentane	Polyurethane Cycloisopentane	Polyurethane Cycloisopentane
	Coolinng Way	Semiconductor Active Refrigeration	Semiconductor Active Refrigeration	Passive Cooling
	Fan	DC 12V	DC 12V	Without
	Protection	I	I	I
	Hold Over Time (Warm Up Time)	2 Hours (25°C Ring Temperature Load Situation)	2 Hours (25°C Ring Temperature Load Situation)	6 Hours (43°C Ring 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 Batteries	Rechargeable Lithium Batteries	Button Battery
Others	Certification	/	/	CE

Transport Cooler

Specifications

Model		HZY-5B	HZY-8Z	HZY-15Z
Technical Data	Storage Temperature (℃)	/	2~6	2~6
	Operating Temperature	2~10	2~10	2~10
Electrical Data	Power Supply (V/Hz)	/	100~240 50/60	100~240 50/60
	Capacity (L/Cu.Ft)	3.2/0.11	5.5/0.19	11.6/0.41
	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	400*370*370	595*384*418
	Net Weight	2	4	6
	Gross Weight (kg)	3	5kg	7
	Blood Bag Capacity	5	8	15
Alarms	Container Load (20'/40'/40'H)	850/1700/1700	450/900/900	260/520/520
	Cold Chain Monitoring	Without	Without	Without
	RFID Identification	Without	Without	Without
	NFC Unlock	Without	Without	Without
	Foam Material	High Density Foam	Polyurethane Cycloisopentane	Polyurethane Cycloisopentane
	Coolinng Way	Passive Cooling	Semiconductor Active Refrigeration	Semiconductor Active Refrigeration
	Fan	Without	DC 12V	DC 12V
	Protection	I	I	I
	Hold Over Time (Warm Up Time)	3 Hours (in 32°C Ring Temperature Load Situation)	2 Hours (25°C Ring Temperature Load Situation)	2 Hours (25°C Ring 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 Batteries	Rechargeable Lithium Batteries	Rechargeable Lithium Batteries
Others	Certification	/	CE	CE

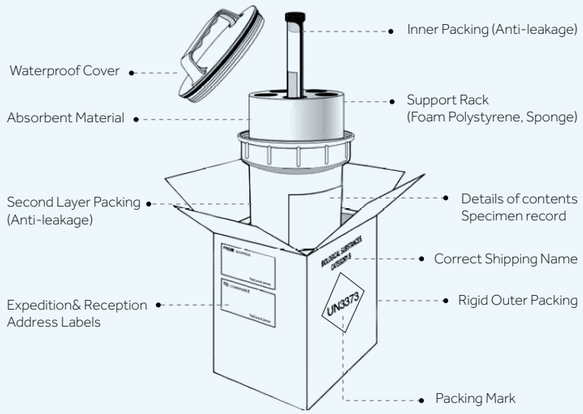
Transport Cooler for the Infectious Material

The virus is high-risk specimen, and if there is 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, Haier Biomedical has the solution!

Product Features

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

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

The power supply can support 12V and 220V conversion, so the container can be put into the car to plug in and transfer

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

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

Active semiconductor cooling, energy saving and environment-friendly

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

Multiple fault alarms, safer to use

High and low temperature alarm, power failure alarm, sensor error alarm

Auxiliary Container

HZY-8Z (Specimen)

HZY-15Z (Specimen)

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

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

Transport Cooler for the Infectious Material

Passive Cooling

UN2814 transport cooler
HZY-10B (P620)

Auxiliary Container

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

Product Advantages

Passive cooling, long heat preservation time, suitable for air transportation

At 32°C ambient temperature, the temperature inside the box (pre-cooled in advance) rising to 10° C takes 7 hours (P650) and 8 hours (P620) separately

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

The shell is made of aluminum-magnesium alloy, with high strength; Meeting the P620 packagingrequirements of Class A infectious substances (HZY-10B) and the P650 packaging requirements of Class B infectious substances (HZY-10B) separately

Specifications

Model	HZY-10B (P620)
Type	Passive Cooling
Internal Dimensions (W*D*H)(mm)	345*225*182
External Dimensions (W*D*H)(mm)	430*312*272
Loading Quantity	2 Transport Tanks
Effective Volume	14L with 2 Built-in Specimen Sealed Tanks
Specimen Sealed tank Size (mm)	H160*D130
Number of Test Tubes (Single Tank)	16 Test Tubes D10 (Small), 2 Test Tubes D15 (Large)
Net Weight (kg)	8
Transport Temperature (°C)	2-10
Thermal Insulation Time (32°C Full Load) (h)	8
Cabinet Material	Aluminum Magnesium Alloy Box Shell
Thermal Insulation Material	EPP Foam Liner
Cool Storage Mode	PCM Ice Pack Cold Storage

Plasma Blast Freezer

Plasma Blast Freezer

XSD-24FL

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

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

Efficient core components, energy saving

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

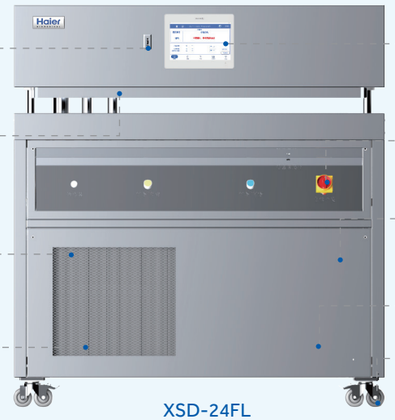
Plate rapid-freezing, efficient cooling

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

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

Product Parts

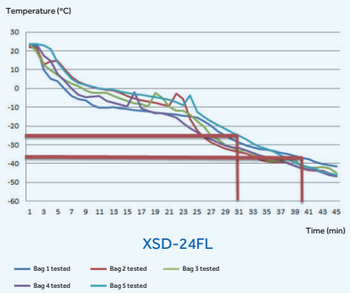


XSD-24FL

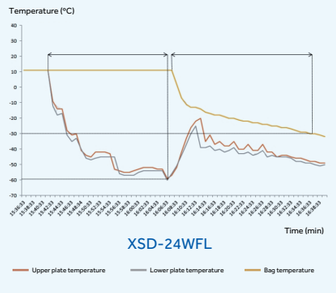
XSD-48WFL

Cooling Down Curve

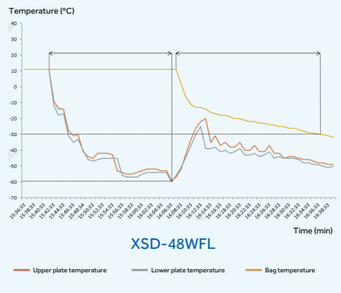
Cooling Down Curve



XSD-24FL



XSD-24WFL



XSD-48WFL

Plasma Blast Freezer

Specifications

Model	XSD-24FL	XSD-24WFL	XSD-48WFL
Freezing Capacity (Plasma Bag)	16 at 1000ml /24 at 400ml /40 at 200ml	16 at 1000ml /24 at 400ml /40 at 200ml	32 at 1000ml /48 at 400ml /80 at 200ml
Freezing Plate Temperature (°C)	-59	-59	-59
Storage Temperature (°C)	Manual Adjustment Between -30° to -50°	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	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.	Integrated thermal defrosting, defrosting delay time about 10 minutes; Defrost for 15 minutes.
Noise Level (db(A))	≤56	≤40	≤40
Refrigerant Type	R507	R507	R507
Cooling Type	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling
Operating Voltage Range	3~380V~400V/50Hz(60Hz)	3~380V/50Hz(60Hz)	3~380V/50Hz(60Hz)
Power (KW)	7	7	14
Dimension of Indoor Machine (W*D*H)(mm)	Open Status: 1455*915*1665 Close Status: 1455*915*1465	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	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	480/540	320/380	640/720
Net Weight of Outside Machine(kg)/Gross Weight	/	360/410	360*2/410*2
GWP	3985	3985	3985

Platelet Incubator with Agitator

Platelet Incubator with Agitator


HXZ-149


HXZ-1369

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.

Product Advantages

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

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

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

Low Noise
Semiconductor and EBM oscillating motor provide a quiet working environment

Variable Agitation Speed control from Touch Screen
Adjust Oscillation Frequency (30-100 cycles/minute) to meet the customer needs

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

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

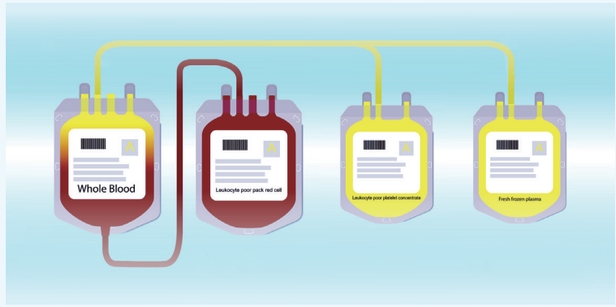
Peltier Technology
Semiconductor temperature control, internal temperature is maintained at 22°C±1°C

Ultraviolet Disinfection
The UV disinfection function helps maintain a sterile environment

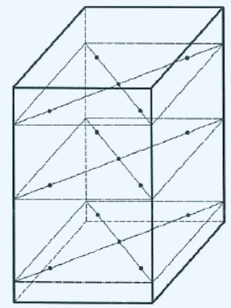
Robust Structure
Internal material is stainless steel 304 and External material is powder coated cold-roll steel sheets without sharp edges, easy to disinfect.

Product Parts

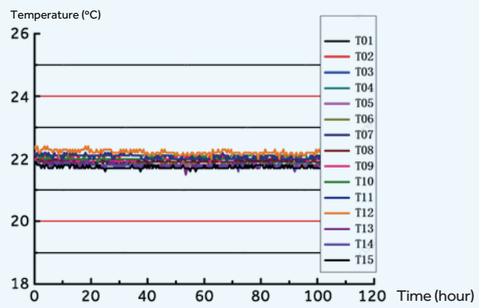
HXZ-1369



Cooling Down Curve


HXZ-149 15 test points

HXZ-149 Running temperature curve (Empty loaded)



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

Platelet Incubator with Agitator

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 Blood Banking 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.

Haier Biomedical Blood Banking Centrifuge

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.

Precise Control
Tailor your operations with 15 acceleration and 16 deceleration stages for unparalleled precision.

Rapid Cooling
Achieve 4°C in just 15 minutes from room temperature, speeding up your readiness.

Maintenance-Free Motor
Enjoy seamless operation with our brushless induction motor that requires no maintenance and ensures a clean lab environment.

Quiet Operation
Work in peace with a sound design that keeps noise levels below 60 dB, even at maximum speed.

Stability
Trust in the stability of our low-center-of-gravity design for consistent performance and optimal centrifugal results.

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.

Electric Push Rod
Engineered for safety, the electric push rod 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.

Haier Biomedical Blood Banking Centrifuge

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.

Visibility and Monitoring

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

Adjustable On-the-Fly

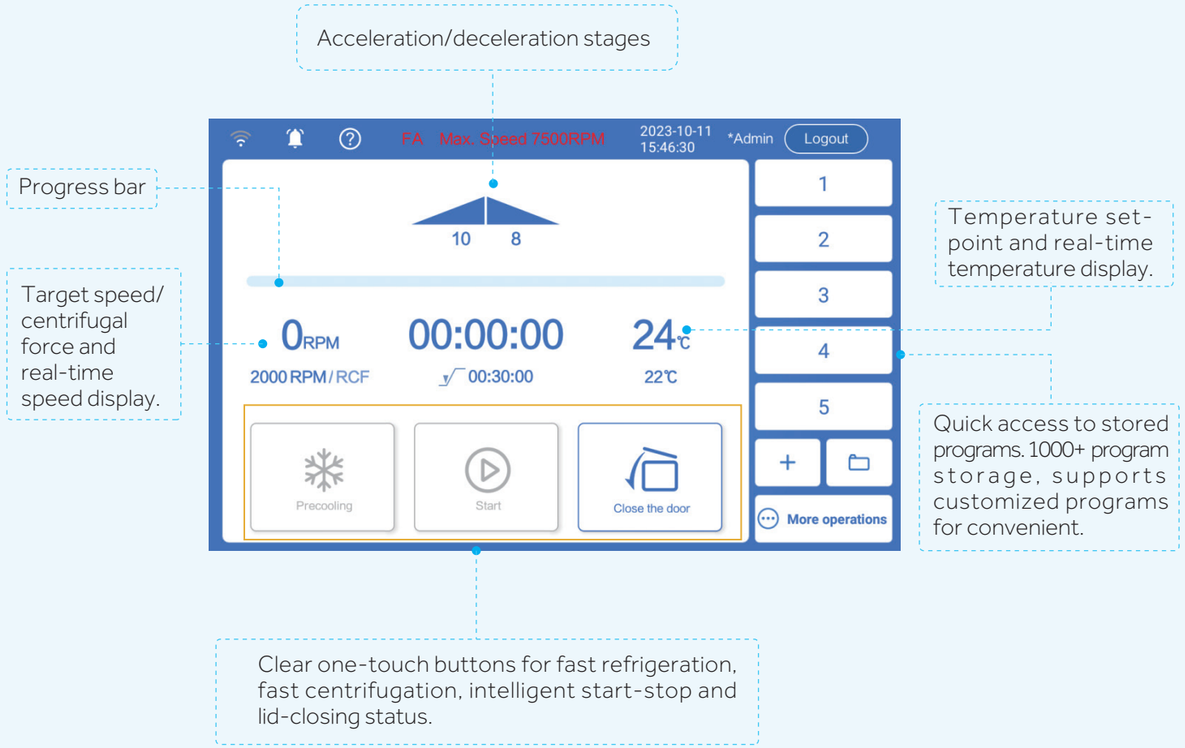
Users can alter speed, centrifugal force, time, and temperature during the centrifugation process for precise control.

Enhanced Access Controls

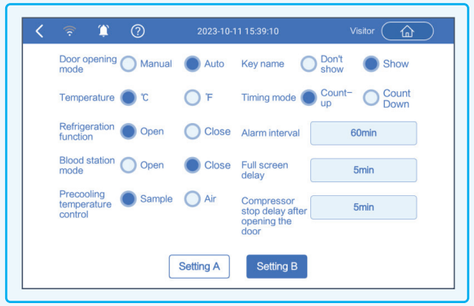
Equipped with user login and password protection, ensuring individualized program data management for each user.

Program Recall and Efficiency

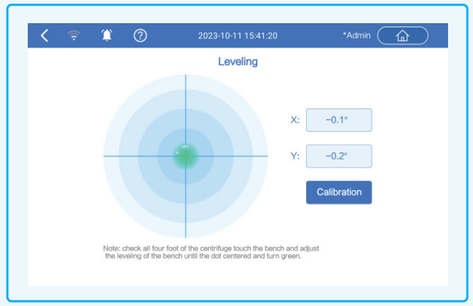
Quick recall feature for over 1000+ programs with alpha-numeric naming, minimizing time between runs and facilitating quick starts for routine users.



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

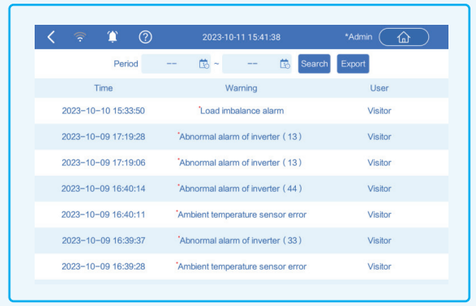


Electronic level assists in installation and leveling, making installation easier and simpler



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 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.

Comprehensive Alarm System

Features a multi-faceted alarm system for abnormal voltage, high temperature, overspeed, load imbalance, rotor absence, brake anomalies, and rotor life.

Robust Construction

Fully covered steel plate protective sleeve and a 12mm steel shell provide enhanced durability and user safety.

Stable Installation

Φ120mm adjustable feet ensure the centrifuge is securely and stably installed in any setting.

Anti-Vibration Lid Lock

Prevents accidental opening during operation, ensuring sample integrity and operator safety.

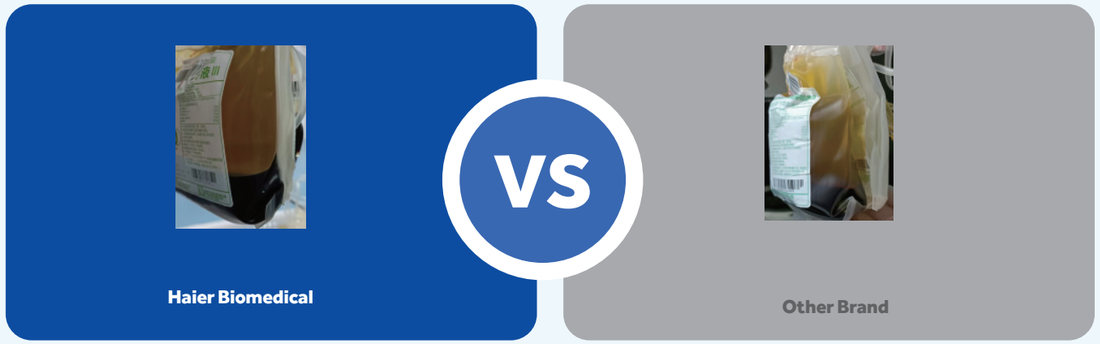
High-Quality Connectivity

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

Haier Biomedical Blood Banking Centrifuge

Real - World Efficacy

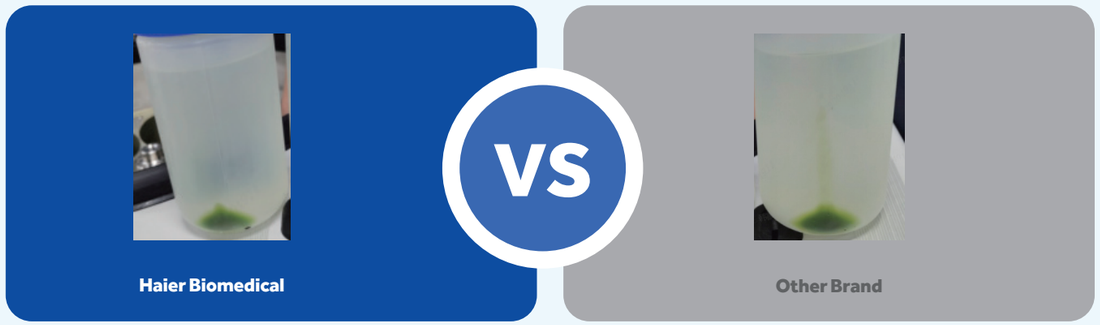
Blood Station User: Blood centrifugal test



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)	7,500
Max RCF(xg)	13,376
Speed Accuracy (rpm)	±5
Time Setting Range	1min~99h59m59s (1-second increment)
Precooling Function	Yes
Temperature Setting Range	-20°C~40°C, adjustment increment: 1°C
Display	10 inch touch screen
Noise (dB(A))	≤60
Power Supply (V/Hz)	3~400/50/60
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

*Buckets for 2000ml centrifuge bottles can be customized depending on requirements.

BE No.	BE12DC000	BE12JP002	BE12JQ002	BE12K1000
Type	Fixed-angle rotor (Sealed)	Adapter (Sets of 6) for BE12DC000	Adapter (Sets of 6) for BE12DC000	Centrifuge Bottle(Sets of 6) for BE12DC000
Max Capacity	6*1000ml	500ml	250ml	1000ml
Max RCF	13376xg	-	-	-
Max Speed	7500rpm	-	-	-
Max Bottle Capacity	1000ml	500ml	250ml	-
Bottles Per Rotor	6	6	6	-
Bottle Type	Flat bottom	Flat bottom	Flat bottom	-

Haier Biomedical Blood Banking Centrifuge

Swing-Out Rotor

Swing-Out Rotor
12 Blood Bags

Swing-Out Rotor Block

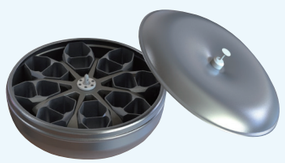
BE No.	BE12F5001
Max. RCF (xg)	5,331
Max. speed (rpm)	4,000

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

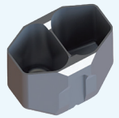


Swing-Out Rotor
16 Blood Bags

Swing-Out Rotor Block

BE No.	BE12FP001
Max. RCF (xg)	5,706
Max. speed (rpm)	4,000

Double Blood Bag Bucket (Sets of 8)



BE No.	BE12H9000
Max Capacity	2*500ml blood bags
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

Cryogenic Workstation for Blood Applications

HXT-C5-0.7/1.3

A cryogenic workstation for blood and blood component work, such as labelling and audits. For use within hospital blood banks and blood operations.

Product Advantages

Safe Operation

- Tamper-proof adjustable temperature setting with self-locking mechanism.
- High-quality construction, made with corrosion-resistant stainless steel.
- The workstation is fitted with electrical leakage protection.

Temperature Control

- Intuitive and clear digital temperature display and microcomputer controller.
- The use of table face plate uniform air supply, uniform temperature, high precision.

Ergonomic Design

Designed to be consistent with working bench height for comfortable operation.

Refrigeration System

Independent refrigeration system, double compressor control double evaporator, can be installed separately, energy saving, low noise.

Specifications

Model	HXT-C5-0.7	HXT-C5-1.3
Power Supply (V/Hz)	220/50/60	220/50/60, 115/50/60
Power (W)	1200	1500
Temperature Range (°C) (adjustable)	2~8	2~8
Ambient Temperature (°C)	10~28	10~28
Exterior Dimensions (W*D*H) (mm)	1200*750*880	1900*850*880
Refrigerated Area (m^2)	0.65	1.25
Refrigeration Mode	Forced air cooling	Forced air cooling
Weight (kg)	140	190

Product Portfolio

Automated Blood Management Refrigerator Used at Blood Station


HXC-629TR


HXC-1369TR

Automated Blood Management Refrigerator Used at Hospital


HXC-149ZZ


HXC-429RV


HXC-629RV

Cold Room

-30°C Plasma Freezer


DW-30L1280F


DW-30L1280FT (Intelligent)

Standard Blood Bank Refrigerator


HXC-106


HXC-158


HXC-158B

Unattended Self-help Blood Distribution Refrigerator


HXC-629ZZ

Automated Blood Management Refrigerator with Touch Screen


HXC-149T HXC-279T HXC-429T HXC-629T HXC-1369T

Automated Blood Management Refrigerator with LED Display


HXC-149 HXC-279 HXC-429 HXC-629 HXC-1369

Solar Direct Drive Blood Refrigerator


HTXC-240

Plasma Apheresis System


XJ-III

Plasma Blast Freezer


XSD-24FL XSD-24WFL XSD-48WFL

Platelet Incubator with Agitator


HXZ-149 HXZ-1369

Transport Cooler


HZY-5B HZY-35B HZY-8Z HZY-8ZA HZY-15Z HZY-15ZA HZY-10B

Floor-Standing Low-Speed Refrigerated Centrifuge


LX-75L2400R

Cryogenic Workstation for Blood Applications


HXT-C5-0.7/1.3