Blood Bank Refrigerators & Freezers

analítica Salvadoreña

Blood Management Solutions

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

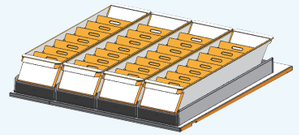
Double Protection of Door Mechanical Lock and Electromagnetic Lock
Electromagnetic lock can realize NFC card punching unlocking and fingerprint unlocking function

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

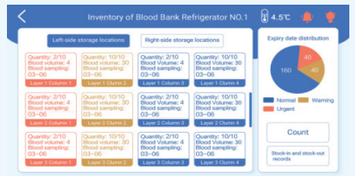


Using built-in RFID read& write board of the refrigerator to read blood bag information

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

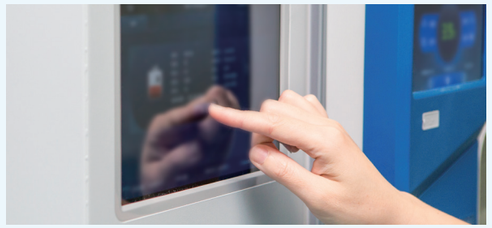
Innovative blood bank system, enables the blood to be advanced to the operating room to achieve 1-minute rapid blood collection.

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.

Multi-mode Operation

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

Intelligent Blood Management System

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

Drastically Improves the Speed of Delivery

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

Safe and Security

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

Ergonomic Design

Ozone Sterilization

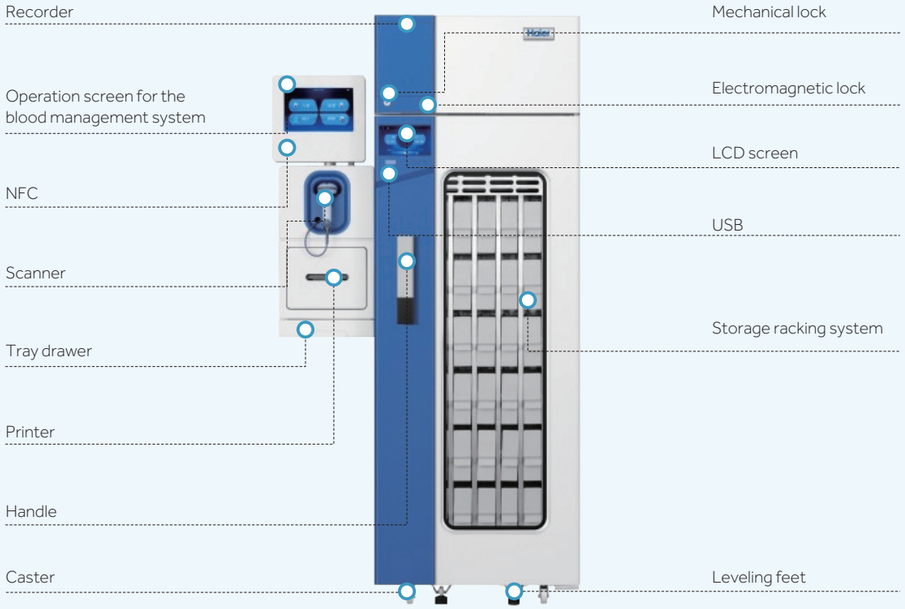
Standard ozone module, according to the actual need to set regular disinfection time, without manual disinfection

Automatic Inventory

Automatic inventory and blood bag information at a glance

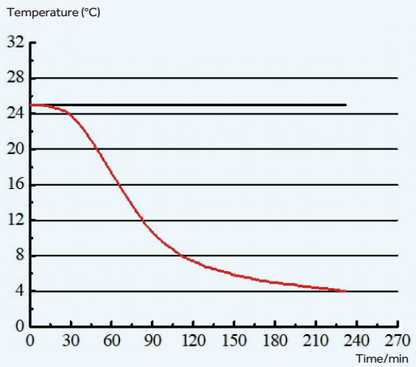



Unattended Self-service Blood Distribution Refrigerator

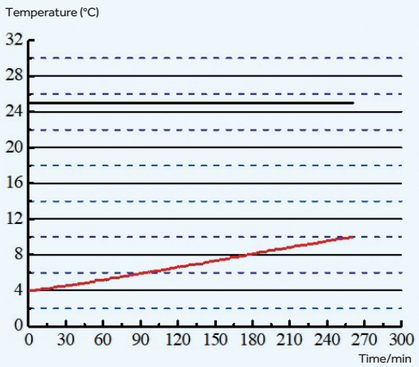


Product Performance

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

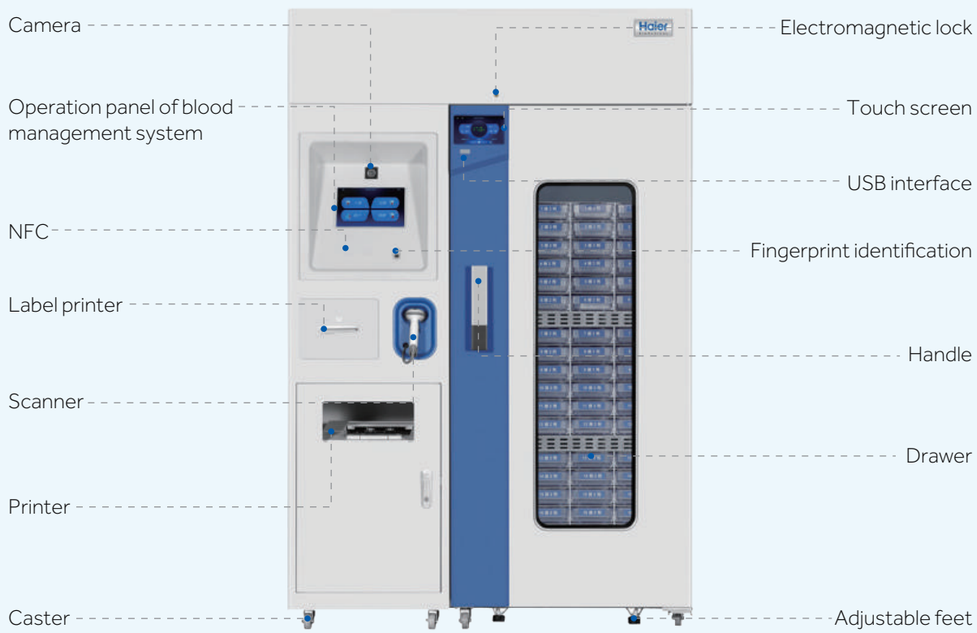
HXC-629ZZ

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

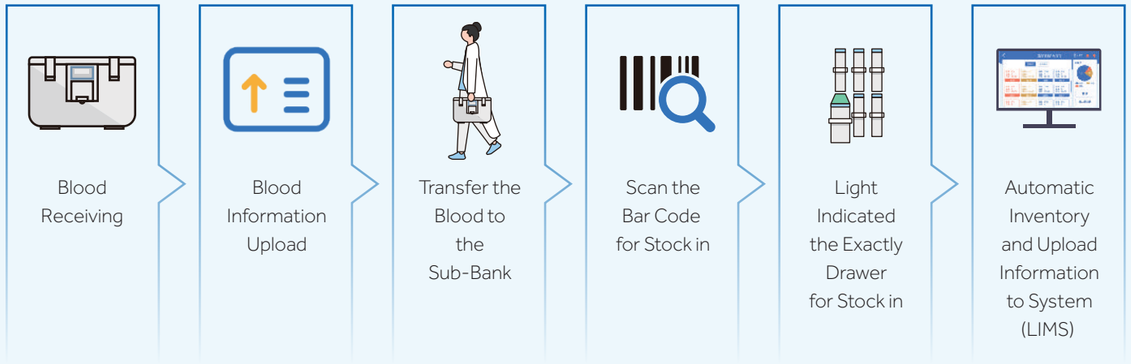
- Designed with fingerprint and NFC access modules providing dual permission modes to open the electromagnetic lock
- Each drawer is equipped with an independent electronic lock to ensure that only the unique and correct blood bag can be taken out in each blood collection operation
- The camera module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

Self-service printing

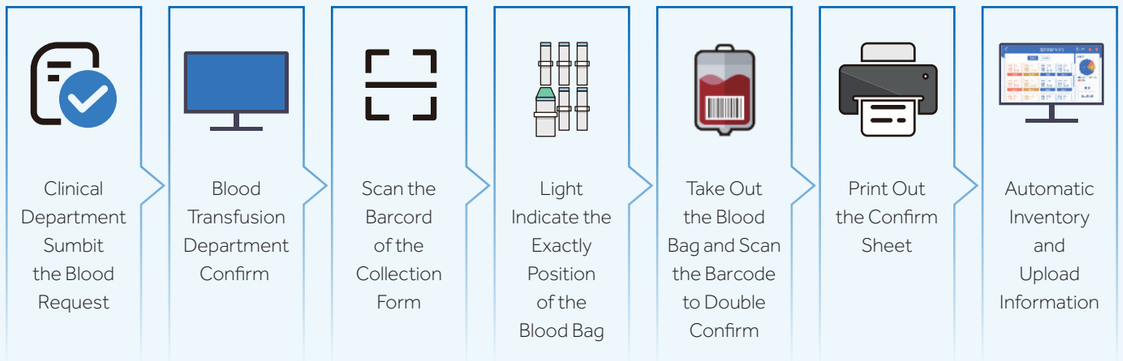
A drawer corresponds to a lock

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

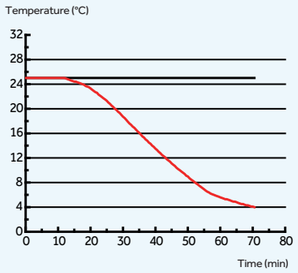
A drawer corresponds to a lock

Unattended Self-help Blood Distribution Refrigerator

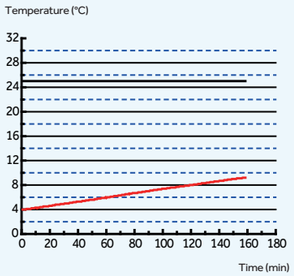
HXC-149ZZ

Product Performance

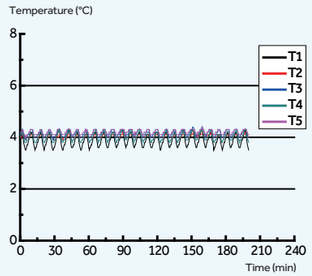
Cool down curve (empty loaded)



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

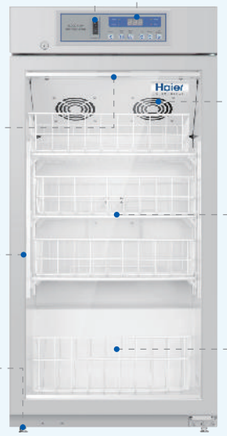
Product Parts

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

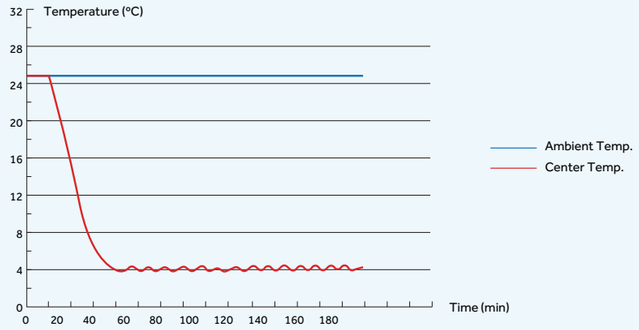
The temperature measuring box is used to monitor the temperature in the cabinet in real time

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

HTXC-240

Display Panel

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
	Cooling 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
	Cooling 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