

## Blood Bank Refrigerator

Haier blood bank refrigerator are 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.



## Blood Bank Refrigerator

The Haier BBR series provides two styles to storage systems: basket-type and drawer type. They are built in compliance with the requirements of :

- AABB (American Association of Blood Banks)
- DIN 58371 (Germany, "Blutkonserven-Kühlgeräte"/Blood Refrigerators)
- BIS 4376-1: 1991 (UK, "Electrically operated blood storage refrigerators Specifications for closed reach-in types")

- In 2011, Haier won MOH tender blood bank refrigerator and -86°C ULT freezer in Russia market.
- In 2011, Haier won the tender "Third National HIV/AIDS Control Project (NACP - III)" and successfully supplied and installed Blood Bank Refrigerators, -86°C ULT Freezers and -40°C Deep Freezers.



### Reliability

- Microprocessor controlled forced-air cooling with electrical heat compensation system
- Digital temperature display for upper and lower sections in chamber with 0.1 °C resolution

### Key Features

- Consistent cabinet temperature  $4 \pm 1^\circ\text{C}$
- 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

### Safety

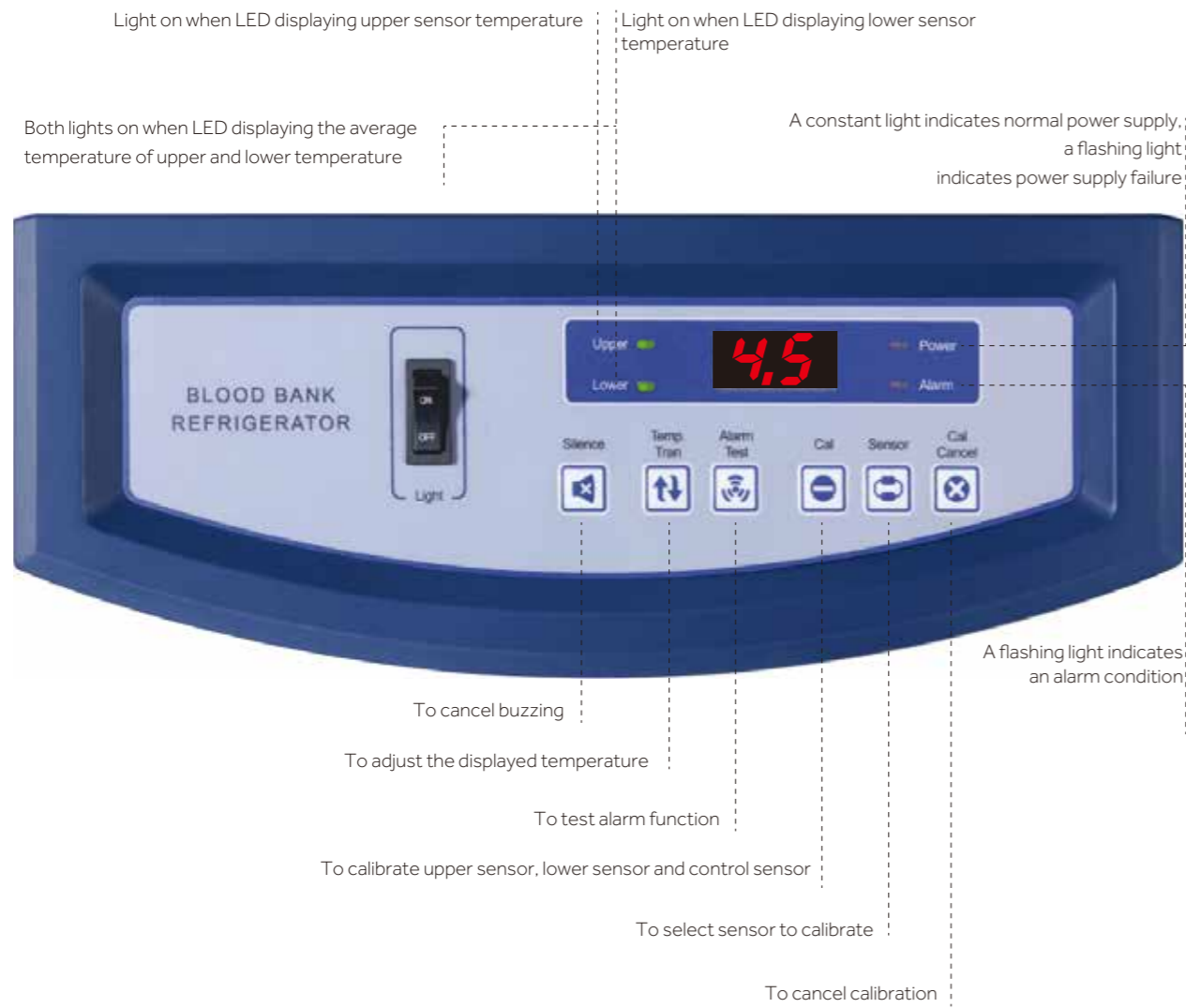
- Dual displays of operational parameter temperature recorder display)
- Built-in backup battery to display temperature and to operate audible and visual alarm systems for up to 48 hours without ac power
- Three types of alarm alerts: Buzzer, Flashing light, and remote alarm
- Five alarm conditions: 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
- Caster design and interior light
- Optional baskets or stainless steel drawers



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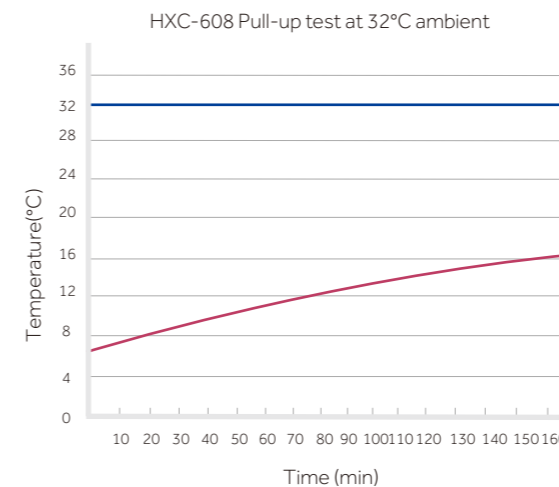
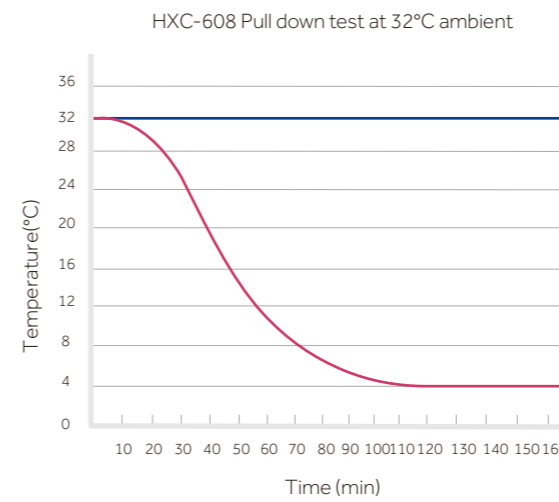


Alarm	Alarm Triggering Condition
High Temperature	Temperature reaches the warm alarm limit
Low Temperature	Temperature reaches the low alarm limit
Power Failure	Equipment loses power
Probe Failure	1.Main cabinet temperature control sensor fails 2.Condenser sensor fails 3.Ambient sensor fails 4.Heat exchanger sensor fails
Low Battery	Battery capacity runs low or battery switch is not turned on
Door Ajar	Door open exceeds 600s

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The standard drawers can be optionally fitted with adjustable dividers. This guarantees neatly and clearly arranged storage of your goods.





HXC-1308

### Ergonomic Design

- Self-closing door with 90° stop
- It provides a clear view of stored items through the large glass windows
- Two access ports, users can test the inner temperature freely
- Built-in 7-day circular chart recorder with USB port
- Bright, energy-efficient LED interior lighting
- CFC-free refrigerant, environmental friendly
- "One lock one key" to safeguard valuable contents

### Application

- The large capacity blood bank refrigerator(HXC-1308/HXC-1308B) is a professional equipment to store whole blood. It is widely applied to store pharmacy and biological products in blood banks, hospitals and disease prevention centers.

### Advantages

- More Stable: The temperature range is 4+/-1.5 C
- Safety : Anti-low/high temperature function
- Dual-pane electrical heated glass door
- Multilayer adjustable shelves
- Baskets or optional stainless steel drawers
- Each shelf can be labelled
- Ensures the safety in daily use

### Function

- Large capacity for blood bags
- Each blood basket can be loaded 12 blood bags (450ml blood); Each drawer can load 60 blood bags (450ml blood)
- One HXC-1308 can load 576 blood bags (450ml blood) and for HXC-1308B can load 720 bags(450ml blood)
- Microprocessor control , three inner fans maintain temperature uniformity within 2~6 C and quick recovery after door openings
- Mechanical prevention on high and low temperature, even the control board malfunction, the whole unit can still maintain the cabinet temperature and guarantee the blood in safe storage
- Defrosting is performed automatically with temperature sensor system, temperature rise during defrost is minimal, further protecting the contents
- Perfect alarm system: High /Low temperature alarm, door open alarm, sensor error alarm, remote alarm under audible (buzzer) and visible (light flashing) alarm
- Backup battery, it can support the digital display for 72hours after power off



HXC-1308B



HXC-1308B

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### Specification

	Model	HXC-158	HXC-358	HXC-608	HXC-1308	HXC-158B	HXC-358B	HXC-608B	HXC-1308B	
Technical Data	Type	Basket-Type				Drawer-Type				
	Climate Class	ST	ST	ST	N	ST	ST	ST	N	
	Cooling Type	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling	
	Defrost Mode	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	
	Refrigerant	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	
	Noise(dB(A))	42	43	43	45	42	43	43	45	
Performance	Temperature Range(°C)	4±1	4±1	4±1	4±1.5	4±1	4±1	4±1	4±1.5	
	Ambient Temperature(°C)	10-38	10-38	10-38	16-32	10-38	10-38	10-38	16-32	
Control	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	
	Display	LED	LED	LED	LED	LED	LED	LED	LED	
Electrical Data	Power Supply(V/Hz)	220-240/50/60	220-240/50/60	220-240/50/60	115/60	220-240/50/60	220-240/50/60	220-240/50/60	220-240/50/60	
	Power(W)	350	460	490	560	850	350	460	490	850
Dimensions	Electrical Current(A)	2.6	3	3.5	7.5	4.2	2.6	3	3.5	4.2
	Capacity(L/Cu.Ft)	158/5.6	358/12.7	608/21.5	1308/46.2	158/5.6	358/12.7	608/21.5	1308/46.2	
	Blood Storage Capacity (450ml blood bags)	84	200	300	576	84	200	360	720	
	Net/Gross Weight(approx)	107/120(kg) 235.9/264.6(lbs)	158/174(kg) 348.3/383.6(lbs)	204/227(kg) 449.7/500.4(lbs)	310/360(kg) 683.4/793.7(lbs)	113/126(kg) 249.1/277.8(lbs)	165/181(kg) 363.8/399.0(lbs)	211/234(kg) 465.2/515.9(lbs)	335/385(kg) 738.5/848.8(lbs)	
	Interior Dimensions (W*D*H)	460*370*950(mm) 18.1*14.6*37.4(in)	620*490*1160(mm) 24.4*19.3*45.7(in)	680*640*1400(mm) 26.8*25.2*55.1(in)	1320*700*1500(mm) 52.0*27.6*59.1(in)	460*370*950(mm) 18.1*14.6*37.4(in)	620*490*1160(mm) 24.4*19.3*45.7(in)	680*640*1400(mm) 26.8*25.2*55.1(in)	1320*700*1500(mm) 52.0*27.6*59.1(in)	
	Exterior Dimensions (W*D*H)	560*570*1530(mm) 22.0*22.4*60.2(in)	720*690*1730(mm) 28.3*27.2*68.1(in)	780*840*1945(mm) 30.7*33.1*76.6(in)	1440*925*1980(mm) 56.7*36.4*78.0(in)	560*570*1530(mm) 22.0*22.4*60.2(in)	720*690*1730(mm) 28.3*27.2*68.1(in)	780*840*1945(mm) 30.7*33.1*76.6(in)	1440*925*1980(mm) 56.7*36.4*78.0(in)	
	Packing Dimensions (W*D*H)	645*675*1680(mm) 25.4*26.6*66.1(in)	795*805*1870(mm) 31.3*31.7*73.6(in)	865*945*2090(mm) 34.0*37.2*82.3(in)	1570*1010*2120(mm) 61.8*39.8*83.5(in)	645*675*1680(mm) 25.4*26.6*66.1(in)	795*805*1870(mm) 31.3*31.7*73.6(in)	865*945*2090(mm) 34.0*37.2*82.3(in)	1570*1010*2120(mm) 61.8*39.8*83.5(in)	
Functions	Container load (20'/40'/40'H)	27/54/54	14/30/30	12/26/26	6/12/12	27/54/54	14/30/30	12/26/26	6/12/12	
	High/Low Temperature	Y	Y	Y	Y	Y	Y	Y	Y	
	Power Failure	Y	Y	Y	Y	Y	Y	Y	Y	
	Sensor Error	Y	Y	Y	Y	Y	Y	Y	Y	
	Low Battery	Y	Y	Y	Y	Y	Y	Y	Y	
	Door Ajar	Y	Y	Y	Y	Y	Y	Y	Y	
Accessories	Remote Alarm	Y	Y	Y	Y	Y	Y	Y	Y	
	Caster	Y	Y	Y	Y	Y	Y	Y	Y	
	Leveling Leg	Y	Y	Y	Y	Y	Y	Y	Y	
	Test Hole	Y	Y	Y	Y	Y	Y	Y	Y	
	Shelves/Baskets	4/4	5/20	6/24	12/48	-	-	-	-	
	Drawers/Inner doors	-/2	-/3	-/3	-/6	4/-	5/-	6/-	12/-	
	USB Interface	Optional	Optional	Optional	Y	Optional	Optional	Optional	Y	
Others	Temperature Recorder	Optional	Y	Y	Y	Y	Y	Y	Y	
	Certificate	CE	CE	CE	CE	CE	CE	CE	CE	