

Icelined Refrigerator



HBC-120

Scope of Application:

This refrigerator is suitable for pharmacies, pharmaceutical factories, epidemic prevention stations, health clinics, and hospitals. It can be used to store vaccines and other medicines at an internal temperature of +2°C to +8°C. Note: Do not use for storing ice packs or other items.

Innovative Design

- Superior Thermal Insulation Performance
- EMS Monitoring System, 4.3-inch Color Screen Supports Multiple Language
- Safe, Secure and Reliable
- Environmentally-friendly
- Ergonomic Design
- Intelligent Control

Qingdao Haier Biomedical Co., Ltd.

No.280 Fengyuan Road, High-tech Zone,
Qingdao, 266111, Shandong, P.R. China
E-mail: inquiry@haierbiomedical.com
Website: www.haiermedical.com



Sep, 2026



Haier Biomedical



Haier Biomedical
International



Haier Biomedical
International



Haier Biomedical
International



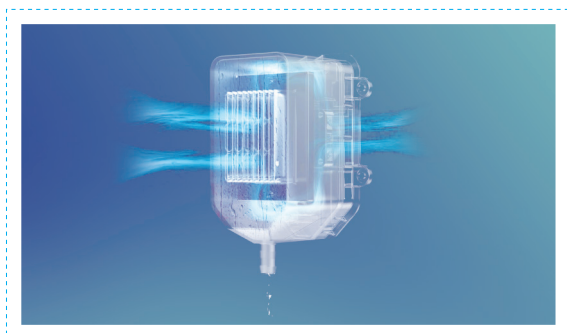
Haier Biomedical
International



HBC-120



► Detail Introduction: Optional Humidity Control System



● Humidity Control System (Optional)

Optional humidity control system, using semiconductor condensation and fan circulation system, to achieve no condensation inside the cabin and prevent the vaccine box from getting wet.



Security Guarantee

- Compliant with WHO PQS (WHO/PQS/E003/RF03.7, WHO/PQS/E003/RF03-VP.5) and Vaccine freeze protection classification: Grade A, ensuring that the vaccines inside the refrigerator are within the qualified range;
- Compliant with CE standard (IEC 60335-1-2020, IEC 60335-2-24-2020, EN 61000-6-1:2016, EN 61000-6-3:2011), to meet electrical safety design requirements.



Superior Reliability

- The whole machine has passed a 10-year accelerated aging test. The outer shell is made of powder coated steel plate, and the inner lining is made of 1.0mm corrosion-resistant alumina.



Efficient Insulation Design

- The 140mm insulation and double sealing strip door design have excellent insulation performance. The temperature inside the cabin will not be lower than 0 °C to prevent vaccine freezing.



Control System

- The refrigeration and freezing areas adopt two independent control systems. Digital electronic temperature controller with an accuracy of 0.1°C and temperature control range of 2-8 °C; Optional humidity control system can be used to achieve no condensation inside the cabin and prevent the vaccine box from getting wet.



Ergonomic Design

- EMS system can achieve wireless remote monitoring of temperature, compressor operation, and door opening and closing status; Equipped with a 4.3-inch color LCD screen; Adjustable shelf height, convenient for accessing to vaccines; Equipped with status indicator lights, convenient for operator to confirm the operation status in 3 meters.

► Detail Introduction: EMS

● Comprehensive Monitoring to Ensure Safety

- Temperature monitor: Real time monitoring of the temperature in the vaccine area to ensure that vaccines are stored at an appropriate temperature.
- Door status monitor: Detect the status of the refrigerator door to prevent temperature fluctuations caused by the door not being tightly closed.
- Power outage monitor: Monitor the power status, promptly detect power outages, and ensure the continuous operation of equipment.
- Voltage and current monitor: Real time monitoring of voltage and current.
- Compressor running time monitor: Record the running time of the compressor to provide real-time status of the compressor.
- Multiple alarm: Provide sound and light alarms, SMS alarms, email alarms.
- Operation recording: Record all operation for easy auditing and traceability.

● Data Analysis with Optimized Management

- Data recording and analysis: Record historical data, generate KPI statistics.
- Visual interface: Provides intuitive charts and reports for users to easily view temperature and other data trends.

● Remote Control

- Wireless data download: In non-subscription situations, it supports wireless transmission and download of data between mobile phones and devices through device WIFI hotspots.
- Remote monitoring and operation: After subscribing, remote access is provided to view device status, set parameters, and configure settings.
- Global SIM card: supporting over 180 countries and regions worldwide.
- Support to replace local SIM cards.

● Reliable and Stable Temperature Sensor with High Precision Sensor

- Wide measurement range (-50°C ~ $+80^{\circ}\text{C}$), high accuracy ($\pm 0.5^{\circ}\text{C}$), fast response time.
- Door sensor: Quickly detect the of the door status switch.

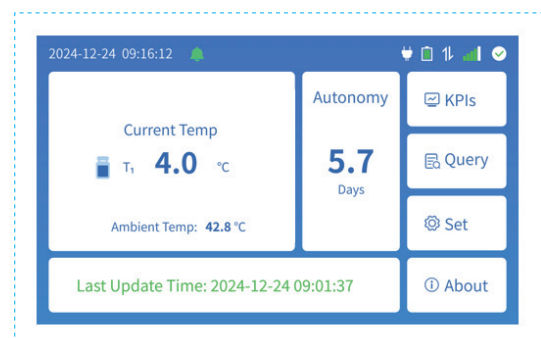


● Data Storage and Transmission

- Non volatile storage: Storage time up to 1 year (default collection frequency state)
- Multiple communication protocols: Supports 2G/3G/4G and other communication methods to ensure stable and reliable data transmission.

● OTA Update

- EMS meets Level 2 requirements as standard and can be upgraded to Level 3 through remote operation without the need for any additional hardware.



Specifications

Model			HBC-120
Technical Data	EMS Equipped		√
	Cabinet Type		upright
	Ambient Temperature		5℃~43℃
	Cooling Type		Direct Cooling
	Defrost Mode		/
	Refrigerant		HC (R600a) 70g (refrigerator)
	Sound Level(dB(A))		≤43
Performance	Temperature Range(℃)		Refrigerator: 2~8
	Vaccine Freeze Protection Classification□		Grade A
Control	Controller		Microprocessor
	Display		4.3-inch color screen
Electrical Data	Power Supply(V/Hz)		220V~240V/50Hz/60Hz
	Power(W)		150
	Electrical Current(A)		1.2
	Power Consumption:stable running(KWh/24h)		0.4
	Power Consumption: cool down test(KWh/24h)		0.35
	Holdover Time at 43℃		128h48min
	Holdover Time at 32℃		185H
Dimensions	Vaccine Storage Capacity(L/Cu.Ft)		100/3.6
	Gross Volume(L/Cu.Ft)		120/4.3
	Net/Gross Weight(approx)	kg	147/183
		lbs	324.1/403.5
	Interior Dimensions(W*D*H) mm	mm	545*500*530
		in	1.5*19.7*25.6
	Exterior Dimensions(W*D*H)	mm	920*915*1480
		in	36.2*36*58.3
	Packing Dimensions(W*D*H)	mm	970*950*1635
		in	38.2*37.4*64.4
	Container load (20'/40'/40'H)		12/24/24
Functions	High/Low Temperature (Y/N)		Y
	power outage		Y
	Door opening alarm		Y
	Compressor failure		Y
Accessories	Sensor Error (Y/N)		Y
	Foot (Y/N)		4
Others	Baskets		0/- (6)
	Certification		CE/WHO/PQS
	Data logger (Y/N)		Y
	Freezer Gross Volume (L/Cu.Ft)		/
	Waterpack Storage Capacity(kg)		/
	Waterpack Freezing Capacity(kg/24h)		/
	Optional		Automatic Voltage Stabilizer Remote Temperature Monitoring Device Dehumidification Function