

Leading Solution To Life Science

Haier Bio-Medical



Haier Medical and Laboratory Products Co.,Ltd

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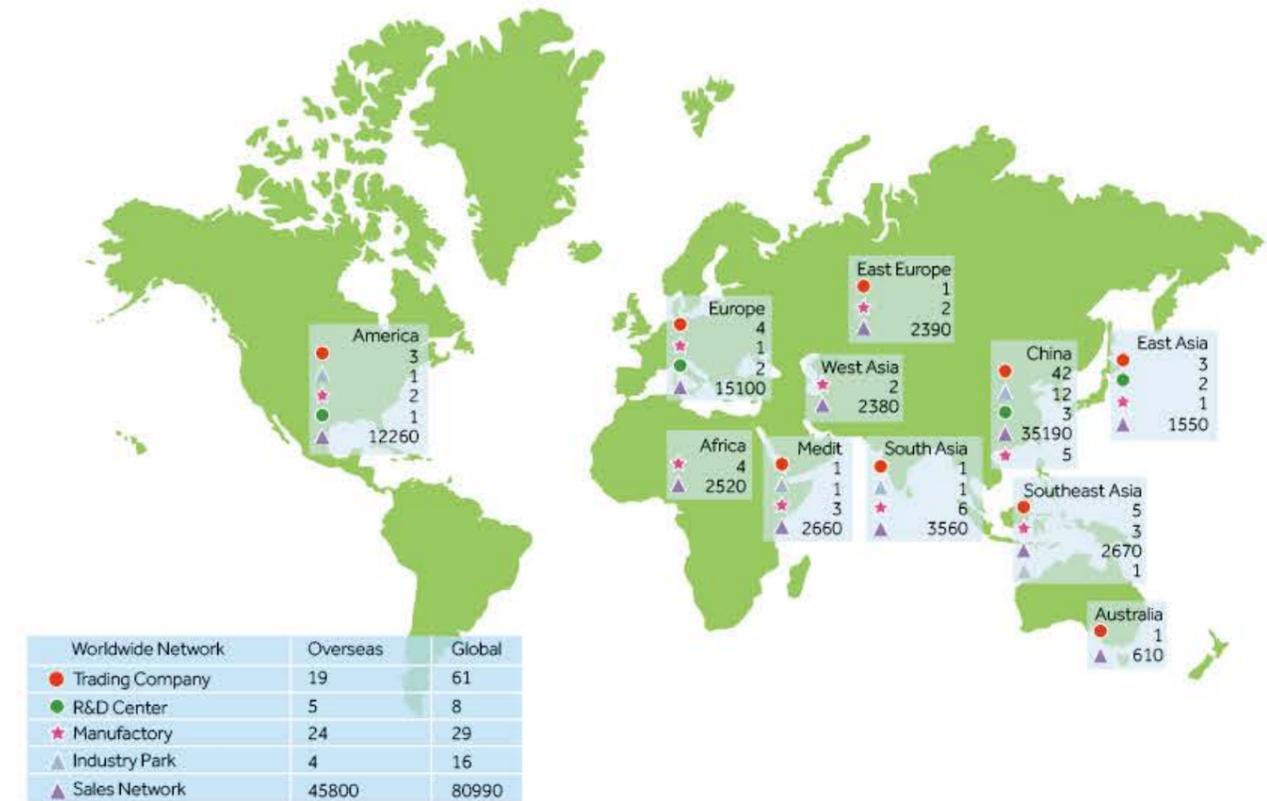
2013-09

Haier

Haier Group Profile



Factories around the world



Haier Group is a global leading networked home appliance & furnishing supplier and virtual-real distributor.

Founded in Qingdao, China in 1984, Haier has grown from a small plant close to bankruptcy into a global group with an annual turnover of 163.1 billion yuan (2012). It has five R & D centers, 61 trade companies, 21 industrial parks and over 80,000 employees worldwide, with its customers spread in over 100 countries and regions. According to the data released by Euromonitor, an authoritative consumer market survey agency, Haier has topped the list of global home appliance brands for four consecutive years and ranked 8th on the list of the "Most Innovative Companies 2012" released by The Boston Consulting Group.

Successful enterprises move with the times. Over the 28 years since its establishment, Haier has kept pace with the times focusing on customer demands. After implementing Branding Strategy, Diversification Strategy, Internationalization Strategy and Global Brand Strategy, it entered the stage of the fifth strategy--Networking Strategy in December 2012, building a networking enterprise to get in line with networking markets. Guided by the strategy, Haier has changed from a large-sized enterprise into an open platform-based enterprise, building two platforms based on two listed companies--Qingdao Haier (ticker symbol: 690) and Haier Electronics (ticker symbol: 1169).

In the Internet era, Haier fills the organization with passion and creativity through the Win-win Model of Individual-Goal Combination, to promote the sustained and healthy development of the enterprise, its organizational structure has been transformed fundamentally from a "triangle" into an "inverted triangle" and been further flattened into a network with ZZJYT as the basic innovation unit, every node of the organization is driven by customers rather than leaders and meets customer demands through open connection with external resources. The innovation model has been concerned and studied by world-famous business schools and management experts, and is considered to be likely to crack the management problem in the Internet era. After the case of "Haier culture activating shock fish" made its way into the case library of Harvard Business School, the case of "Haier's cross-culture integration featuring individual-goal combination" has been included in the case library of the European top business school IESE. The Win-win Model of Individual-Goal Combination is guiding Haier in building a global brand in the Internet era by its modernity and internationality.

Haier Bio-Medical

Founded in 1998, Haier Medical and Laboratory Products Co., Ltd is based in China. We design, manufacture and market laboratory equipment for the global market. Our products are designed to enable scientific researchers across the globe to perform research projects and to produce pharmaceutical products. Our products include ultra-low temperature freezers, blood banks, pharmacy refrigerators, ice-lined vaccine refrigerators, laboratory freezers, washers, fume hoods, biosafety cabinets and other types of equipment for the laboratory and medical applications. Installations can be found in blood banks, hospitals, epidemic prevention services, universities, pharmaceutical manufacturers, and national laboratories. The successful growth of our business drove a continuous development of our manufacturing ability. Along with many state of the arts manufacturing equipment, we added a facility of 56,700 square meters in 2001 to meet the increasing demand of our customers.

Headquartered in Qingdao, China, our company is a part of Haier Group Company which is highly ranked as one of the key global manufacturers of durable goods. In addition to certification with ISO9001 quality system, ISO14001 environment protection system, and ISO13485:2003 quality system, the company has been awarded the People's Republic of China Medical Device Manufacturing Enterprise License, People's Republic of China Medical Device Registration Record, and Record of Medical Device For Medical Device Category A,B and C from the State Food and Drug Administration.

Our research and development team consists of highly qualified and selective professionals specialized in refrigeration technology, control technology, remote sensing, sample protection and handling, and networking technology.

Our business strategy and technological advancement have been very effective since the founding of the company. We now have shipped products to clients in over 100 countries.

Milestones & Awards

2013

Haier successfully won the Uzbekistan MOH tender for 520 units HYCD-282A combined refrigerator and freezers. Haier successfully provided Philippines MOH project for 216 units of medical refrigerators. Haier successfully provided MOH tender of Sudan, Tanzania, Uganda and Madagascar etc., which is a new important milestone to develop the African market.



2012

Haier won MOH tender of blood bank refrigerators and -86°C ULT freezers in Russia market.



2011

Haier won the tender "Third National HIV/AIDS Control Project (NACP - III)" from India ministry of Health and successfully supplied and installed Blood Bank Refrigerators, -86°C ULT Freezers and -40°C Deep Freezers.

2010

Haier Medical successfully won the bid of 20,930 units vaccine refrigerator from UNOPS (United Nations Program India Purchasing Agency).

2009

World Health Organization (WHO) qualified Haier Medical as the supplier of ice-lined refrigerators and -25°C vaccine and ice pack freezer lines. The pre-qualified models include HBC-70, HBC-200, HBD-286, HBD-116.

2008

Haier Blood Transportation Box – HXC-80, won the bid of UNOPS India/NACO/BTB/35/2008, from India National AIDS Control Organization.



2007

Haier won the government procurement tender for International Assistance Program to Cuba from China.

2006

Haier became the first China based company to be certified to ISO13485:2003.

2005

Haier -150°C cryogenic freezer launched into the market – Haier medical and laboratory freezers cover most of the temperature range required by market.

2004

Haier was awarded with an order from the World Health Organization to supply 10,000 units of ice-lined refrigerators to India. This business marked Haier's entry into the international market.



1998

The Deep Freezer(-40°C) came out, Haier entered into Medical and Laboratory Industry.

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WHO/PQS Certificated

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Walk-In Cold/Freezer Room 60

Bio Safety Cabinet

Biological Safety Cabinet 62



Haier



Cryo Freezer & ULT Freezer



-150°C Cryo Freezer



-150°C Cryo freezer, developed by Haier Medical and Laboratory Products Co., Ltd provides a safer, more convenient and economical alternative long term storage method than LN2 refrigeration systems. By providing a storage environment that is about 20°C colder than the water recrystallization temperature, the freezer is suitable for storage of a variety of biological samples such as virus, erythrocytes, leukocytes, cutis, skeleton, sperm, oceanic products, special test materials and even electronic products for testing. It can be installed in institutions including blood banks, hospitals, epidemic prevention services, research institutes, and research laboratories.

Temperature Control

- Microprocessor Control: Large LED display features a clear cabinet temperature display at an easy viewing angle and allows an adjustable range of -126°C to -150°C

Refrigeration System

- Optimized single stage refrigeration system
- Hermetically sealed system
- Environmentally safe refrigerants
- Permanently lubricated fan systems

Other Features

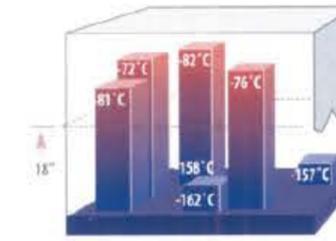
- Large LED display for easy viewing
- Ambient range of 10°C to 30°C
- LN2 back up system compatible
- Remote monitoring
- Smart condenser fans for energy saving

Safety Control System

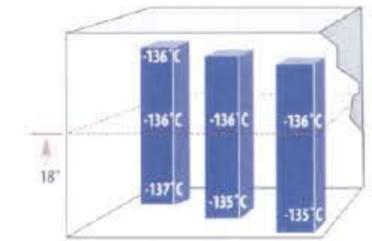
- Alarm system: User programmable high and low temperature alarm set points, power failure, sensor error, extreme voltage, hot condenser, and extremely high ambient
- Alarm types: audible buzzer and visible flashing
- Protection functions: Settable pass codes for control panel, start-up delay, voltage compensation system
- Properly grounded



Liquid Nitrogen Preservation System in Cryo Freezer



LN₂ Freezer System(-196 °C)



Cryo Freezer(-140°C)

	Model	DW-150W200
Technical Data	Cabinet Type	Chest
	Climate Class	N
	Cooling Type	Forced air cooling
	Defrost Mode	Manual
	Refrigerant	CFC-Free
Performance	Cooling performance(°C)	-150
	Temperature Range(°C)	-126--150
Control	Controller	Microprocessor
	Display	LED
Electrical Data	Power Supply(V/Hz)	380/50
	Power(W)	2800
	Electrical Current(A)	9
	Capacity(L/Cu.Ft)	200/7.1
Dimensions	Net/Gross Weight(approx)	315/385(kg) 694.5/848.8(lbs)
	Interior Dimension(W*D*H)	667*462*650(mm) 26.3*18.2*25.6(in)
	Exterior Dimension(W*D*H)	1570*850*1060(mm) 61.8*33.5*41.7(in)
	Packing Dimension(W*D*H)	1710*985*1195(mm) 67.3*38.8*47.0(in)
	Container load (20'/40'/40'H)	6/13/13
Functions	High/Low Temperature	Y
	Remote Alarm	Y
	Hot Condenser	Y
	Power Failure	Y
	High/Low Voltage	Y
	Sensor Error	Y
	Low Battery	Y
	High Ambient Temp	Y
Accessories	Caster	Y
	Foot	Y
	Test Hole	Y
	Shelves/Inner doors	-/2
Optional Parts	Rack Model	2 inch stainless steel rack 11*1
	Dimensions(L*D*H)	142*138*633(mm) 5.6*5.4*24.9(in)
	Rack Quantity	12
	Box Quantity	132
	Sample Quantity	10692(calculated based on 9*9 box)

-86°C ULT Freezer



Patented hermetically-sealed structure to frost efficiently

Microprocessor control panel and digital display

Patented pressure-equalizing design for easier opening of the door

Optional ergonomic design racks for easy storage

Heat insulated material cabinet

RS232/485 Interface (optional)

Circular-chart temperature recorder is optional

Industrial grade hermetically sealed compressor, ultra low noise under cascade cooling system

High efficiency coalescent oil separator ensures no oil entering

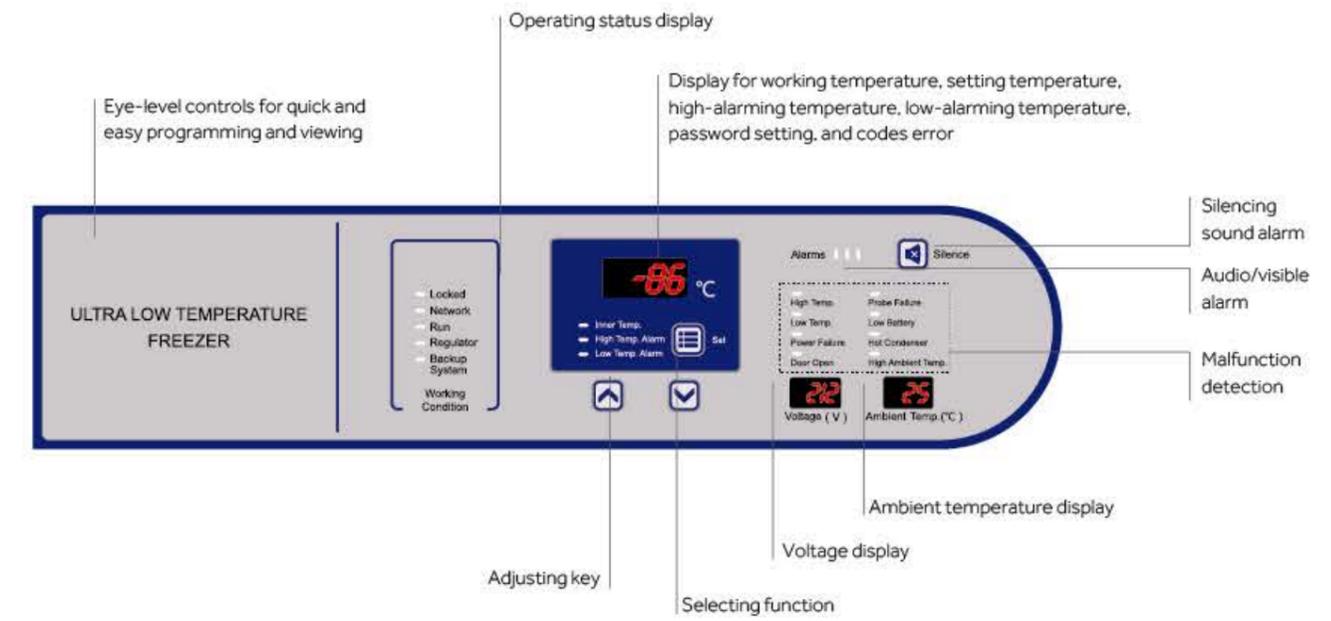
Permanently lubricated fan motors

Integrated caster design

DW-86L628

This product is specially designed and manufactured for long time storage of various biological products, including viruses, germs, erythrocytes, leucocytes and cutis.

Applications can be found in blood banks, hospitals, epidemic prevention services, and research institutes, laboratories in electronic and chemical plants, biological engineering institutes and marine fishery companies.



Alarm	Alarm Triggering Condition
High Temperature	Temperature reaches the warm alarm limit
Low Temperature	Temperature reaches the low alarm limit
Power Failure	Equipment loses power
Door Ajar	Door open period exceeds 5 mins
Probe Failure	1.Main cabinet temperature control sensor fails 2.Condenser sensor fails 3.Ambient sensor fails 4.Heat exchanger sensor fails 5.Heat exchanger temperature fails
Low Battery	Battery capacity runs low or battery switch is not turned on
Hot Condenser	1. Condensers filter element is clogged 2. Ambient temperature is too high
High Ambient Temperature	Ambient temperature exceeds 32°C



Field proven reliability

- Unique insulated inner door design for four separate storage compartments to minimize frost buildup inside the chamber
- Specialized control system design for a well-balanced operation of cascade refrigeration system
- Positive field proven reliability record



Safety

- Malfunction alarms including high and low temperature, power outage, sensor error, high voltage and low voltage, clean-filter, and extremely high ambient
- Capable of producing two types of alarm outputs: audible buzzer and visible flashing light
- Multiple built-in system protection features including user-settable protection code for controls, user settable delay to start, voltage compensation system, and protection against extreme high voltages
- Door ajar feature standard and USB port for temperature data downloading standard on upright models



Installation & Application

- Wide range operating voltage system from 185V to 260 V designed to allow units installed in areas with poor voltage condition
- Suitable for 10°C to 32°C ambient temperature
- Input voltage and ambient temperature shown simultaneously for ease of monitoring environmental conditions
- Robust door latch designed for secure door closing
- Compact casters for ease of maneuvering



Low sound level

- Specialized refrigeration system design using whisper quiet fan and compressors
- Freezer chassis designed to absorb vibration and sound



Energy saving

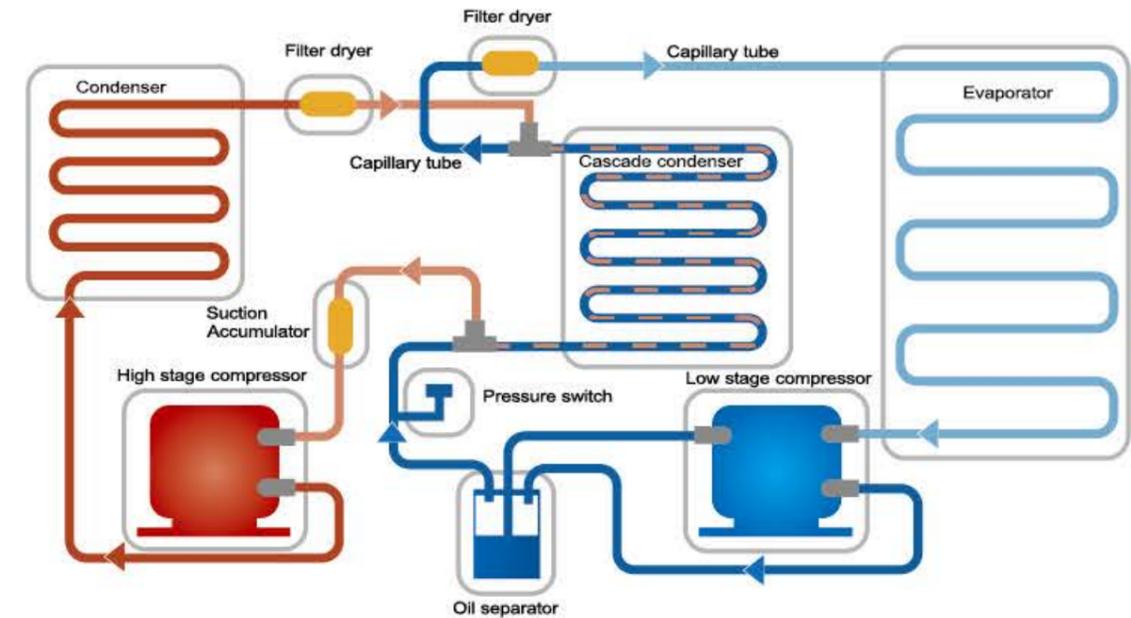
- Unique door seal design for the minimum loss of cold temperature during a door opening
- High performance VIP insulation panels to minimize cabinet heat gain and to improve temperature stability
- Patented cabinet insulation system designed for optimal performance of cold storage temperature and minimal frost buildup
- Unique design of independent insulated inner door systems for independent access of storage space to provide the maximum protection of stored samples



Key design features

- Microprocessor-controlled system designed for controllable range of -40°C to -86°C for cabinet space with 1°C increment
- Large LED display for cabinet temperature, set temperature, ambient temperature, and input voltage
- Settable high temperature and low temperature alarms
- Automatic clean-filter alarm and sensor error alert
- Adjustable storage shelf height
- Optional temperature recorder, storage racks and storage boxes

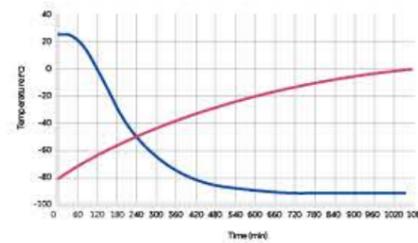
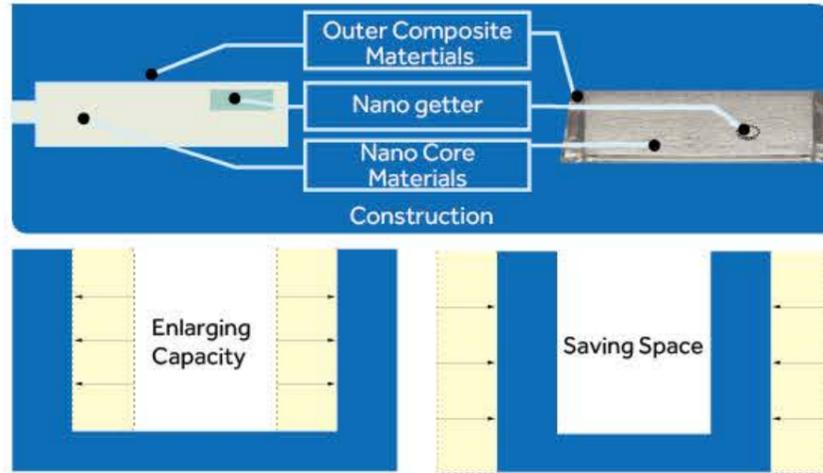
Heat exchange circulation system of ultra low temperature freezer



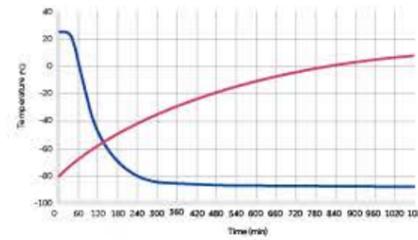
	Filter <ul style="list-style-type: none"> • Filter for refrigerant to protect system from the water and other entering
	Capillary tube for high stage <ul style="list-style-type: none"> • High temperature refrigerants flow into the evaporator from the Capillary tube
	Capillary tube for low stage <ul style="list-style-type: none"> • Low temperature refrigerants flow into the evaporator from the Capillary tube
	High stage condenser <ul style="list-style-type: none"> • Extra-large air cooled condenser dissipates product heat content efficiently.
	Low stage Evaporator <ul style="list-style-type: none"> • The close contact design between the evaporating tube and the inner cabinet increases the heat conducting efficiency
	Ultra low noise compressor <ul style="list-style-type: none"> • Compressor provides reliable performance with ultra low noise • Specially designed low stage evaporator yields excellent temperature uniformity and recovery after loading and door opening. • Both high and low stage compressors are industrial grade hermetically sealed compressor designed for low temperature application. Sound level is extremely low.
	Heat exchanger system <ul style="list-style-type: none"> • Heat exchanger between the high and low temperature stage in the system
	Temprite oil separator <ul style="list-style-type: none"> • Temprite oil separator can effectively separate oil and water so as to improve the refrigeration performance

Vacuum Insulation Panel technology

- VIP panels minimize heat load into the cabinet for a more stable storage temperature and more energy efficient
- VIP panel's micro pores provide the key blockage to convective heat transfer
- VIP panel's thin wall saves valuable floor space



DW-86L338 Warm-up test at 25°C ambient



DW-86L828 Pull down test at 25°C ambient



-86°C ULT Freezer (Slim Style Design)



DW-86L338

DW-86L388A



Advantages

- Slim design to fit narrow space
- Low noise for more installations
- Safety: malfunction alarms, multiple protection function, broad voltage range designed for broad applications
- Fast temperature pull-down, superior temperature uniformity, and reliability

Ergonomic design

- Lockable casters for ease of maneuvering
- Cam latch for ease of door closing and locking

-86°C ULT Freezer PATRONUS

Haier to release the largest ultra-Low temperature storage freezer with touch screen control in the global market.



World Largest Capacity

The new freezer offers the largest storage volume in the global market with the capacity of storing 77,000 samples

Deadline of Survey Date: April 2013

Triple protection of padlock, independent key lock and inductive code lock

Stainless steel inner door handle, sturdy and durable

Removable inner door

Temperature recorder (optional)

Imported self locking universal caster wheel

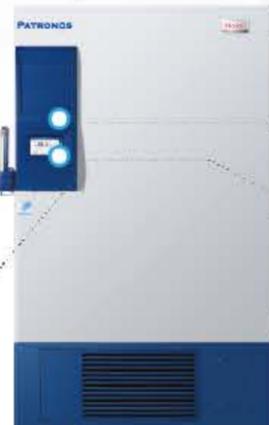
DW-86L959



Access Security Swiping card



USB



Unique Inventory Management System



Layered display for sample storage, clear at a glance, easier to manage



Message and notepad function to transmit the information conveniently

Unique technical advantages

- The new freezer design is equipped with a uniquely designed inventory management system of touch screen feature. The feature makes it possible for fast archiving and retrieving of biological samples for a broader application range
- This special feature, developed by Haier, allows a user to record any event and to set up safe and reliable authorizations for access and message checking
- The feature is designed to allow the equipment to perform self-diagnostics for potential problems and to alert the user to perform maintenance to extend life of the freezer
- Unlimited battery life which saves cost of replacement battery

Leader in the ULT industry

- The new freezer offers the largest storage volume in the global market with the capacity of storing 77,000 samples. The average cost to store one sample is 15% less than that of the common international level
- Super quiet sound of only 49 decibels, the new ULT can be installed in work spaces
- Special energy saving feature optimizes the operation for the least energy consumed in the industry
- This ergonomically designed paper holder provides a convenient platform to organize paperwork

Easy to use

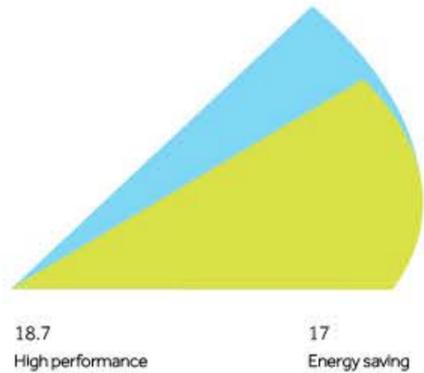
- Current events, storage record, alarm records and other parameters can be downloaded for processing
- The door handle is designed with consideration for ergonomic factors. It is easy for customers to use
- Improved security is achieved by programming multiple user authorizations of access
- Stored samples of different ownership can be displayed with different colors. Sample positions and status can be displayed clearly and directly
- The control feature record send permanently stores sample information, alarm record, archiving and retrieving records and environmental condition. Cabinet temperature can be displayed on the front panel. Automatic alarm is triggered when temperature exceeds allowable limits and temperature recording line will change its color

Features

- Alarm functions include conditions of such as loss of power, door ajar, voltage buck boost alerts, out of specified voltage alarm, sensor failure alarms, low battery capacity alarm, start delay protection, and dirty filter alarm
- LCD display flashing on touch screen, display, and buzzer alarm
- Adjustable alarm delay for sound and time
- Safe mode and licensing mode
- Energy saving mode and high performance mode



-86°C ULT Freezer



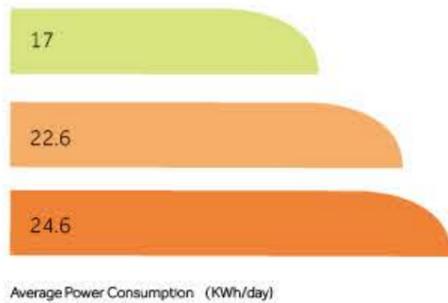
Two Modes Selection

High-Performance Mode

- Designed with GMP applications in mind
- Outstanding temperature uniformity and peak variation from setpoint

Energy-Savings Mode

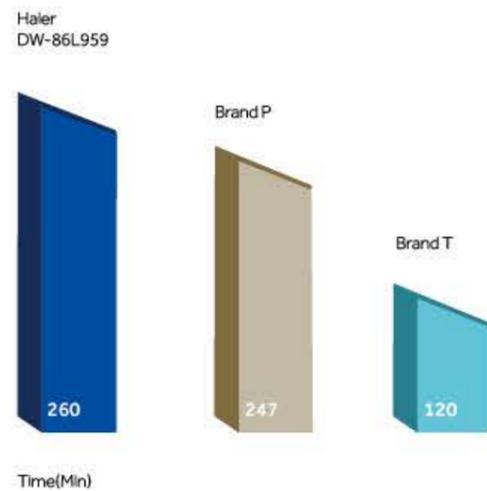
- Excellent temperature uniformity
- Up to 10% energy savings over high-performance mode



Energy Efficient-Low Energy Consumption

Haier energy consumption is the lowest of all manufactures' conventional ULT Freezers with the largest capacity

- Haier DW-86L959
- Brand T
- Brand P



Extended Warm-up Time During A Power Failure

- Warm-up time measures the time taken for temperature to rise up (from -80°C to -50°C) at 32°C ambient when the power is interrupted
- Haier has the best warm-up time among the ULT freezers compared with competitors

-86°C ULT Freezer(Most Energy-efficient)

Haier's next generation ULT freezer DW-86L728J is particularly designed for energy savings. It consumes the least amount of energy for the class of large ULT freezers. This new model uses environmentally safe hydrocarbon refrigerants and high efficiency fan motors to maximize the cooling ability of the system and reduce energy consumption. While providing sample safety, the new freezer design makes energy savings possible for laboratories.



Advantages

- High efficiency hydrocarbon refrigerant based refrigeration system increases the overall efficiency by 30%
- Slim cabinet design for a high ratio of storage volume to floor area occupied, easy to be maneuvered to narrow laboratory space
- Special VIP design with extra insulation factor cuts down heat loss to cabinet by 25%
- Insulated inner doors for multiple storage compartments reduce loss of cold air

Product features

- Multiple door seals cut down loss of cold air in each compartment. There is little to no impact to the remaining compartment's temperature when one compartment is opened in normal usage
- High efficiency and high reliability cooling fans ensure energy savings and long term storage safety
- Multiple alarm functions, including high temperature alarm, low temperature alarm, sensor errors, low battery alarm, high ambient alarm, voltage boost and buck features, ascertain safety of stored products and equipment

Haier energy consumption is the lowest of all manufactures' ULT Freezers with similar capacity



-86°C ULT Freezer

※Note:Water Cooled ULT Freezers Available On Request



Specification

Model	DW-86L338	DW-86L388A	DW-86L486	DW-86L490	DW-86L628	DW-86L728	DW-86L828	DW-86L728J	DW-86L729	DW-86L959	DW-86W100	DW-86W420								
Technical Data	Cabinet Type	Upright	Upright	Upright	Upright, double door	Upright	Upright	Upright	Upright	Upright	Upright	Chest	Chest							
	Climate Class	N	N	N	N	N	N	N	N	N	N	N	N							
	Cooling Type	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling											
	Defrost Mode	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual							
	Refrigerant	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free							
	Noise Level(dB)	50	50	49	49	49	50	50	49	49	49	49	50							
Performance	Cooling performance(°C)	-86																		
	Temp Range(°C)	-40~-86																		
Control	Controller	Microprocessor					Microprocessor													
	Display	LED	LED	LED	LED	LED	LED	LED	LED	LED	Touch Screen LCD	Touch Screen LCD	LED	LED						
Electrical Data	Power Supply(V/Hz)	220-240/50	220/60	220-240/50	220-240/50	220/60	115/60	220-240/50	220/60	115/60	220-240/50	220/60	220-240/50	220/60	220-240/50	115/60	220-240/50			
	Power(W)	900	1000	1000	1000	1200	1100	1100	1200	1200	1200	1200	1000	1200	1300	650	650	1000		
	Electrical Current(A)	8	8	8	9	5.5	18	6.5	6.5	7	9	18	9	9	9	9	7	9	7.5	12
Dimensions	Capacity(L/Cu.Ft)	338/11.9	388/13.7	486/17.1	490/17.3	628/22.2	728/25.7	828/29.2	728/25.7	729/25.7	959/33.9	100/3.5	420/14.8							
	Net/Gross Weight(kg) (approx) (lbs)	238/278 524.7/612.9	255/286 562.2/630.5	290/310 639.3/683.4	295/335 650.4/738.5	301/323 663.6/712.1	350/380 771.6/837.8	380/410 837.8/903.9	311/333 685.6/734.1	310/332 683.4/731.9	450/485 992.1/1069.2	138/160 304.2/352.7	310/357 683.4/787.1							
	Interior Dimension (W*D*H) (mm) (in)	465*630*1165 18.3*24.8*45.9	465*630*1310 18.3*24.8*51.6	590*630*1310 23.2*24.8*51.6	590*630*1310 23.2*24.8*51.6	760*630*1310 29.9*24.8*51.6	870*630*1310 34.3*24.8*51.6	870*710*1310 34.3*28.0*51.6	766*710*1310 27.0*28.0*51.6	766*710*1310 27.0*28.0*51.6	1016*710*1310 40.0*28.0*51.6	470*450*480 18.5*17.7*18.9	1367*462*652 53.8*18.2*25.7							
	Exterior Dimension (W*D*H) (mm) (in)	812*893*1846 32.0*35.2*72.7	812*893*1980 32.0*35.2*78.0	945*900*1980 37.2*35.4*78.0	860*900*1980 33.9*35.4*78.0	1035*900*1980 40.7*35.4*78.0	1145*900*1980 45.1*35.4*78.0	1145*980*1980 45.1*38.6*78.0	1041*980*1980 36.7*34.5*78.0	1046*1000*1980 41.2*35.2*78.0	1296*998*1980 51.0*39.3*78.0	769*825*1120 30.3*32.5*44.1	2130*870*1020 83.9*34.3*40.2							
	Packing Dimension (W*D*H) (mm) (in)	970*880*1990 38.2*34.6*78.3	970*880*2125 38.2*34.6*83.7	990*880*2125 38.9*34.6*83.7	920*990*2165 36.2*38.9*85.2	1090*960*2130 42.9*37.8*83.9	1190*955*2145 46.9*37.6*84.4	1190*1035*2145 46.9*40.7*84.4	1078*1034*2130 42.4*40.7*83.9	1078*1034*2130 42.4*40.7*83.9	1328*1034*2130 52.3*40.7*83.8	835*860*1235 32.9*33.9*48.6	2300*970*1164 90.6*38.2*45.8							
	Container load (20'/40'/40'H)	12/24/24	12/24/24	12/24/24	12/24/24	12/24/24	10/20/20	8/20/20	10/22/22	10/22/22	8/18/18	12/24/48	6/12/24							
Functions	High/Low Temp	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y								
	Hot Condenser	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y								
	Power Failure	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y								
	High/Low Voltage	Y	Y	N/A	Y	N/A	N/A	N/A	Y	Y	Y	Y								
	Sensor Error	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y								
	Low Battery	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y								
	High Ambient Temp	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y								
	Door Ajar	Y	Y	Y	N/A	Y	Y	Y	Y	Y	Y	N/A	N/A							
Accessories	Caster	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y								
	Foot	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y								
	Test Hole	Y	Y	Y	Y	Y	Y	Y	Y,2	Y,2	Y,2	Y								
	Shelves/Inner doors	3/2	3/2	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	-/1	-/3							
	USB Interface	N/A	N/A	Y	N/A	Y	Y	Y	Y	Y	Y	N/A	N/A							
	Remote Alarm	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y								
	Temp Recorder	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional							
	Rs232/485 Interface	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional							
CO2 Backup System	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional								
LN2 Backup System	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional								
Others	Certificate	CE	CE	CE,UL	CE	CE,UL	CE,UL	CE,UL	CE	CE	CE	CE,UL	CE							

-86°C ULT Freezer



DCJ-44-A



DCJ-44-B



DCJ-53-A



DCJ-54-A



DCJ-54-B



DCJ-115-A

ULT Model	Rack Model	Rack Description	Rack Dimensions(W*D*H)		Q'ty of Racks	Q'ty of Boxes	Q'ty of Samples	
							9*9 box	10*10 box
DW-86L338	DCJ-54-A	the second and third layer:2 inch stainless steel rack 5*4	138*544*287(mm)	5.4*21.4*11.3(in)	6	120	9720	12000
	DCJ-54-B	the second and third layer:2 inch stainless steel drawer rack 5*4	140*554*289(mm)	5.5*21.8*11.4(in)	6	120	9720	12000
	DCJ-44-A	the first and forth layer:2 inch stainless steel rack4*4	138*544*234(mm)	5.4*21.4*9.2(in)	6	96	7776	9600
	DCJ-44-B	the first and forth layer:2 inch stainless steel drawer rack4*4	140*554*236(mm)	5.5*21.8*9.3(in)	6	96	7776	9600
DW-86L388A	DCJ-54-A	2 inch stainless steel rack 5*4	138*544*287(mm)	5.4*21.4*11.3(in)	12	240	19440	24000
	DCJ-54-B	2 inch stainless steel drawer rack 5*4	140*554*289(mm)	5.5*21.8*11.4(in)	12	240	19440	24000
DW-86L486	DCJ-54-A	2 inch stainless steel rack 5*4	138*544*287(mm)	5.4*21.4*11.3(in)	16	320	25920	32000
	DCJ-54-B	2 inch stainless steel drawer rack 5*4	140*554*289(mm)	5.5*21.8*11.4(in)	16	320	25920	32000
DW-86L490	DCJ-54-A	Upper chamber:2 inch stainless steel rack 5*4	138*544*287(mm)	5.4*21.4*11.3(in)	8	160	12960	16000
	DCJ-54-B	Upper chamber:2 inch stainless steel drawer rack 5*4	140*554*289(mm)	5.5*21.8*11.4(in)	8	160	12960	16000
	DCJ-44-A	Lower chamber:2 inch stainless steel rack4*4	138*544*234(mm)	5.4*21.4*9.2(in)	8	128	10368	12800
	DCJ-44-B	Lower chamebr:2 inch stainless steel drawer rack4*4	140*554*236(mm)	5.5*21.8*9.3(in)	8	128	10368	12800
DW-86L628	DCJ-54-A	2 inch stainless steel rack 5*4	138*544*287(mm)	5.4*21.4*11.3(in)	20	400	32400	40000
	DCJ-54-B	2 inch stainless steel drawer rack 5*4	140*554*289(mm)	5.5*21.8*11.4(in)	20	400	32400	40000
DW-86L728	DCJ-54-A	2 inch stainless steel rack 5*4	138*544*287(mm)	5.4*21.4*11.3(in)	24	480	38880	48000
	DCJ-54-B	2 inch stainless steel drawer rack 5*4	140*554*289(mm)	5.5*21.8*11.4(in)	24	480	38880	48000
DW-86L828	DCJ-55-A	2 inch stainless steel rack 5*5	138*680*287(mm)	5.4*26.8*11.3(in)	24	600	48600	60000
	DCJ-55-B	2 inch stainless steel drawer rack 5*5	140*688*289(mm)	5.5*27.1*11.4(in)	24	600	48600	60000
DW-86L728J	DCJ-55-A	2 inch stainless steel rack 5*5	138*680*287(mm)	5.4*26.8*11.3(in)	20	500	40500	50000
	DCJ-55-B	2 inch stainless steel drawer rack 5*5	140*688*289(mm)	5.5*27.1*11.4(in)	20	500	40500	50000
DW-86L729	DCJ-55-A	2 inch stainless steel rack 5*5	138*680*287(mm)	5.4*26.8*11.3(in)	20	500	40500	50000
	DCJ-55-B	2 inch stainless steel drawer rack 5*5	140*688*289(mm)	5.5*27.1*11.4(in)	20	500	40500	50000
DW-86L959	DCJ-115-A	2 inch stainless steel drawer rack 11*5	141*694*636(mm)	5.6*27.3*25.0(in)	14	770	62370	77000
	DCJ-55-A	2 inch stainless steel rack 5*5	138*680*287(mm)	5.4*26.8*11.3(in)	28	700	56700	70000
	DCJ-55-B	2 inch stainless steel drawer rack 5*5	140*688*289(mm)	5.5*27.1*11.4(in)	28	700	56700	70000
DW-86W100	DCJ-08-A	2 inch stainless steel rack 8*1	138*142*461(mm)	5.4*5.6*18.1(in)	9	72	5832	7200
DW-86W420	DCJ-11-A	2 inch stainless steel rack 11*1	138*142*633(mm)	5.4*5.6*24.9(in)	27	297	24057	29700

Deep Freezer



-40°C Deep Freezer



The -40°C deep freezer offers a large capacity storage space with fast temperature performance. Integrated design of cold shelf and evaporator provides additional refrigeration efficiency.

This product is designed to store vaccines, blood plasma, and many other biological materials. Installations can be found in research institutions and clinical sites in life science, electronic testing and medical markets.



DW-40L508



DW-40L348



Control panel



Drawer



Shelf



Lock



Handle

-40°C Deep Freezer(Double Doors Type)

Haier's next generation low temperature storage freezer, DW-40L348, is designed based on the original work horse platform of DW-40L508.

The new freezer model operates with two capillary tubes and is equipped with dual gaskets to improve the temperature uniformity through the chamber drastically.

It can be installed to satisfy tougher application requirements in universities, research institutions, and blood banks.

Reliability and Key Features

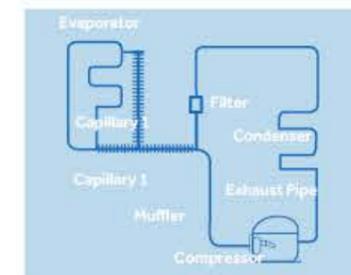
- Rated for -40°C at 32 °C ambient
- Rapid cooling with shelf evaporator
- Improved temperature uniformity with dual capillary tube design at the range of -20 °C to -40°C
- Improved door seal design with two gaskets maintains cabinet temperature more efficiently
- Frost buildup is reduced
- Insulation thickness is 90 mm for additional robustness, less power consumption and more temperature retaining ability
- Drawer design maximizes storage space. One unit can hold 360 bags of 230 ml blood bags

Safety

- Multiple malfunction alarms include high/low temperature, power failure, sensor error, low battery, high/low ambient temperature
- Two types of alarms: buzzer and flashing light

Ergonomic Design

- LED digital display for clear observation
- Double door design with independent locks reduces air leakage to ensure temperature stability and lower power consumption
- Tracks to label drawers for product identification



-40°C Deep Freezer (Upright)



Reliability and Key Features

- Permanently lubricated cooling fan for safety and longevity
- Chemically stable, CFC-free, commercially available and environmentally safe refrigerant
- Cold shelf design for fast removal of product heat load
- High density foam insulation for rigidity and stable storage temperature
- Microprocessor control, digital display, adjustable temperature range: -10°C--40°C
- LED digital display for clear observation
- Wide voltage tolerance design with applicable voltage range of 187-242 V/AC

Safety

- Multiple malfunction alarms including high/ low temperature, sensor error, high/ low ambient temperature
- Two types of alarm indications: audible buzzing and visible flashing light

Ergonomic Design

- Door lock for storage safety
- Storage drawer



Door Handle



Door Seals



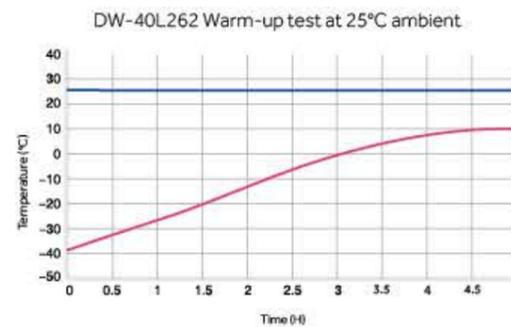
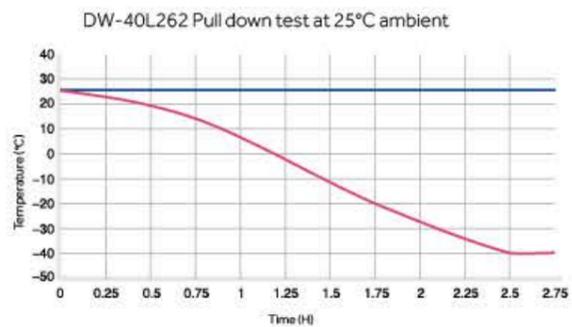
Control Panel



Evaporating Shelf



Lock



-40°C Deep Freezer (Chest)



Reliability and Key Features

- High efficiency low temperature compressor with known field reliability,
- Chemically stable, CFC-free, commercially available and environmentally safe refrigerant
- Permanently lubricated cooling fan for safety and longevity , high density insulation foam for stable and long term storage temperature
- Optimized refrigeration system designed to maximize cooling effect and temperature uniformity
- Microprocessor control, digital display, adjustable temperature range: -20°C--40°C
- LED digital display for clear observation
- Wide voltage tolerance design with applicable voltage range of 198-252 V/AC

Safety

- Multiple malfunction alarms to detect high / low temperature, sensor error, and power failure
- Two types of alarm indications: audible buzzing and visible flashing light

Ergonomic Design

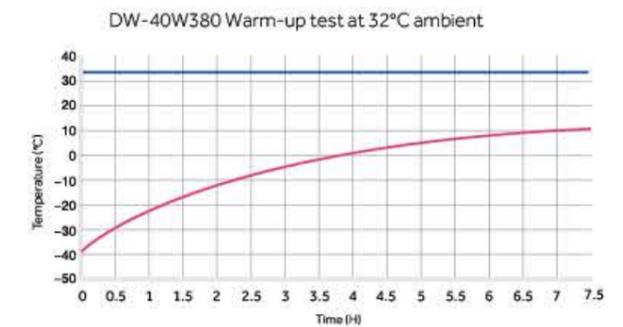
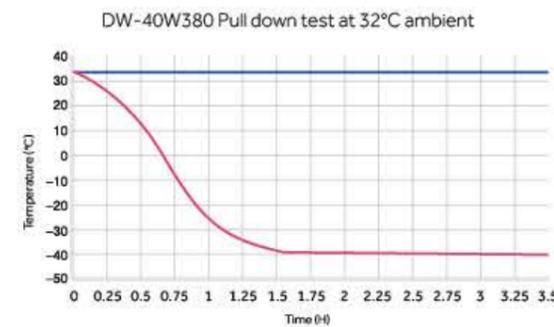
- Door lock for storage safety
- Standard ø40 access port for testing instrumentation except model DW-40W380
- Corrosion proof cabinet interior design
- Suitable for a variety of storage baskets



Electronic Thermostat



Liner



-40°C Deep Freezer



Specification

	Model	DW-40L92	DW-40L188	DW-40L262	DW-40L348	DW-40L508	DW-40L626	DW-40W100	DW-40W255	DW-40W380
Technical Data	Cabinet Type	Upright	Upright	Upright	Upright, double door	Upright, double door	Upright	Chest	Chest	Chest
	Climate Class	N	N	N	N	N	N	N	N	N
	Cooling Type	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost Mode	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual
	Refrigerant	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free
	Noise Level(dB)	40	43	44	45	45	49	≤45	≤45	≤45
Performance	Cooling performance(°C)	-40	-40	-40	-40	-40	-40	-40	-40	-40
	Temperature Range(°C)	-10~-40	-10~-40	-10~-40	-20~-40	-20~-40	-20~-40	-20~-40	-20~-40	-20~-40
Control	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LED	LED	LED	LED	LED	LED	LED	LED	LED
Electrical Data	Power Supply(V/Hz)	220-240/50	220-240/50	220-240/50 208-230/60	220-240/50	220-240/50 208-230/60	220-240/50	220-240/50	220-240/50	220-240/50 208-230/60
	Power(W)	200	290	340 340	360	430 430	700	260	410	550 550
	Electrical Current(A)	2.1	2.5	3.2 3.2	2.9	2.9 2.9	8	2.6	4.2	5.1 5.1
Dimensions	Capacity(L/Cu.Ft)	92/3.3	188/6.6	262/9.3	348/12.3	490/17.3	626/22.1	100/3.5	255/9.0	380/13.4
	Net/Gross Weight (approx)	46/51(kg)	63/71(kg)	88/93(kg)	137/145(kg)	170/200(kg)	298/314(kg)	43/46(kg)	70/82(kg)	82/89(kg)
		101.4/112.4(lbs)	138.9/156.5(lbs)	194.0/205.0(lbs)	302.0/319.7(lbs)	374.8/440.9(lbs)	657.0/692.2(lbs)	94.8/101.4(lbs)	154/180.8(lbs)	180.8/196.2(lbs)
	Interior Dimension (W*D*H)	465*440*645(mm)	380*420*1225(mm)	480*465*1430(mm)	535*607*1228(mm)	685*650*1228(mm)	760*630*1310(mm)	500*385*625(mm)	1040*430*605(mm)	1376*457*625(mm)
		18.3*17.3*25.4(in)	15.0*16.5*48.2(in)	18.9*18.3*56.3(in)	21.1*23.9*48.3(in)	27.0*25.6*48.3(in)	29.9*24.8*51.6(in)	19.7*15.2*24.6(in)	40.9*16.9*23.8(in)	54.2*18.0*24.6(in)
	Exterior Dimension (W*D*H)	597*610*860(mm)	597*610*1475(mm)	657*685*1665(mm)	750*840*1860(mm)	895*840*1860(mm)	1035*900*1980(mm)	680*600*805(mm)	1243*633*838(mm)	1550*633*838(mm)
		23.5*24.0*33.9(in)	23.5*24.0*58.1(in)	25.9*27.0*65.6(in)	29.5*33.1*73.2(in)	35.2*33.1*73.2(in)	40.7*35.4*78.0(in)	26.8*23.6*31.7(in)	48.9*24.9*33.0(in)	61.0*24.9*33.0(in)
Packing Dimension (W*D*H)	659*699*934(mm)	659*699*1548(mm)	732*745*1756(mm)	815*945*2040(mm)	965*945*2040(mm)	1072*954*2130(mm)	735*645*855(mm)	1310*750*880(mm)	1630*755*880(mm)	
	25.9*27.5*36.8(in)	25.9*27.5*60.9(in)	28.8*29.3*69.1(in)	32.1*37.2*80.3(in)	38.0*37.2*80.3(in)	42.2*37.6*83.9(in)	28.9*25.4*33.7(in)	51.6*29.5*34.6(in)	64.2*29.7*34.6(in)	
Container load (20'/40'/40'H)	54/108/108	27/54/54	24/48/48	14/28/28	12/24/24	12/24/24	54/108/162	24/54/81	18/42/63	
Functions	High/Low Temperature	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Remote Alarm	N/A	N/A	N/A	Y	Y	Y	N/A	N/A	N/A
	Hot Condenser	N/A	N/A	N/A	N/A	N/A	Y	N/A	N/A	N/A
	Power Failure	N/A	N/A	N/A	Y	Y	Y	N/A	N/A	N/A
	High/Low Voltage	N/A	N/A	N/A	N/A	N/A	Y	N/A	N/A	N/A
	Sensor Error	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Low Battery	N/A	N/A	N/A	Y	Y	Y	N/A	N/A	N/A
	High Ambient Temp	N/A	N/A	N/A	Y	Y	Y	N/A	N/A	N/A
Accessories	Caster	Y	Y	Y	Y	Y	Y	N/A	N/A	N/A
	Foot	Y	Y	Y	Y	Y	Y	N/A	N/A	N/A
	Test Hole	N/A	N/A	Y	Y	Y	Y	Y	Y	N/A
	Drawers/Inner doors	3/-	7/-	7/-	12/-	10/-	3(Shelves)/4	/	/	/
	USB Interface	N/A	N/A	N/A	Y	N/A	N/A	N/A	N/A	N/A
	Temperature Recorder	N/A	N/A	N/A	Optional	Optional	Optional	N/A	N/A	N/A
Others	Certificate	CE	CE	CE	CE	CE	/	CE	CE	CE

Combined Refrigerator and Freezer



HYCD-282

HYCD-282A



Refrigerator & Freezer Combination, Separately Control

Excellent Performance

- Adjustable refrigerator compartment temperature range: 2°C to 8°C
- Adjustable freezer compartment range: -20°C to -40°C

Construction

- Stainless steel
- Ease of cleaning

Key Function

- USB port for data download
- Capable of recording temperature data for up to one month automatically
- Independent display for refrigerator section and freezer section
- Optional remote alarm and monitor via internet
- Drawers with divided compartments
- Shelves with divided sections
- Multiple alarms to detect malfunctions
- Multi-malfunction alarms, precautionary alarm

	Model	HYCD-282	HYCD-282A
Technical Data	Cabinet Type	Upright	Upright
	Climate Class	N	N
	Cooling Type	Refrigerator: Forced air cooling Freezer: Direct cooling	Refrigerator: Forced air cooling Freezer: Direct cooling
	Defrost Mode	Manual	Manual
	Refrigerant	CFC-Free	CFC-Free
	Noise Level(dB)	43	43
Performance	Cooling Performance(°C)	Freezer: -40	Freezer: -40
	Temperature Range(°C)	2-8/-20--40	2-8/-20--40
Control	Controller	Microprocessor	Microprocessor
	Display	LED	LED
Electrical Data	Power Supply(V/Hz)	220-240/50	220-240/50
	Power(W)	400	400
	Electrical Current(A)	2.8	2.8
Dimensions	Capacity(L/Cu.Ft)	Refrigerator: 185/6.5 Freezer: 97/3.4	Refrigerator: 185/6.5 Freezer: 97/3.4
	Net/Gross Weight(approx)	145/160(kg) 320.0/352.7(lbs)	145/160(kg) 320.0/352.7(lbs)
	Interior Dimensions(W*D*H)	Refrigerator: 605*510*720(mm) Freezer: 515*465*440(mm)	Refrigerator: 605*510*720(mm) Freezer: 515*465*440(mm)
		Refrigerator: 23.8*20.0*28.3(in) Freezer: 20.3*18.3*17.3(in)	Refrigerator: 23.8*20.0*28.3(in) Freezer: 20.3*18.3*17.3(in)
	Exterior Dimensions(W*D*H)	736*660*1810(mm) 29.0*26.0*71.3(in)	736*660*1810(mm) 29.0*26.0*71.3(in)
		Packing Dimensions(W*D*H)	774*719*1920(mm) 30.5*28.3*75.6(in)
Container load (20'/40'/40'H)	21/45/45	21/45/45	
Functions	High/Low Temperature	Y	Y
	Remote Alarm	Y	Y
	Power Failure	Y	Y
	Sensor Error	Y	Y
	Low Battery	Y	Y
	High Ambient Temp	Y	Y
	Caster	Y	Y
	Foot	Y	Y
Accessories	Test Hole	Y	Y
	Shelves/Drawers	3/2	3/2
	USB Interface	Y	Y
	Others	Certificate	CE



**Pharmacy
Refrigerator**

Pharmacy Refrigerator

The Haier pharmacy refrigerators are suitable for installation in drug stores, pharmaceutical companies, hospitals, epidemic prevention centers, and clinics.



WHO Recommended Professional Refrigerator Excellent Performance To Guarantee The Safety Storage

2013, Haier successfully provided 216 units of medical refrigerators for the MOH project in Philippines.

Reliability and Key Features

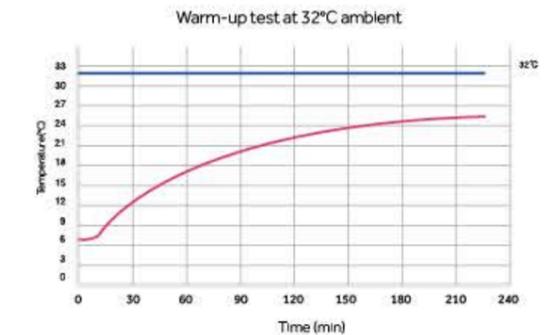
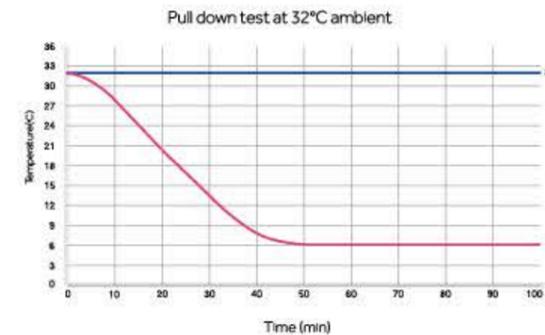
- High efficiency specialty compressor with known field reliability
- Permanently lubricated cooling fan for safety and longevity
- Forced-air cooling with optimized air distribution system designed to achieve maximum temperature uniformity and stability
- Optimized refrigeration system design for more effective cooling and speedy recovery
- Temperature variation within $\pm 3^{\circ}\text{C}$
- Adjustable temperature range 2-8 $^{\circ}\text{C}$
- Microprocessor control, digital display, and temperature adjustment with an increment of 0.1 $^{\circ}\text{C}$
- Large digital display screen
- Wide voltage tolerance suitable for unstable voltage supply
- Designed for ambient temperature 10-32 $^{\circ}\text{C}$ with humidity below 75%

Safety

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

Ergonomic Design

- Optimized space utilization design with multi-level and adjustable shelf height to accommodate storage requirement of pharmaceutical products of various kinds
- Safety lock to prevent unauthorized access
- Caster design and leveling legs
- Interior light



Under-counter Pharmacy Refrigerator



Precision Constant Temperature, Exquisite Installation

The first Under-counter pharmacy refrigerator in China, ultra low noise design, safety lock, perfect alarm system, safety protection.



HYC-68



HYC-68A



Reliability and Key Features

- High efficiency specialty compressor with known field reliability
- Permanently lubricated cooling fan for safety and longevity
- Forced-air cooling with optimized air distribution system designed to achieve maximum temperature uniformity and stability
- Optimized refrigeration system design for more effective cooling and speedy recovery
- Temperature variation within $\pm 3^{\circ}\text{C}$
- Adjustable temperature range 2 -8 $^{\circ}\text{C}$
- Microprocessor control, digital display, and temperature adjustment with an increment of 1 $^{\circ}\text{C}$
- Large digital display screen
- Wide voltage tolerance suitable for unstable voltage supply
- Designed for ambient temperature 10-32 $^{\circ}\text{C}$ with humidity below 60%

Safety

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

Ergonomic Design

- Interior LED light
- Safety lock to prevent unauthorized access

Pharmacy Refrigerator

The updated Haier Pharmacy refrigerator, more professional, more intelligent and more stable.

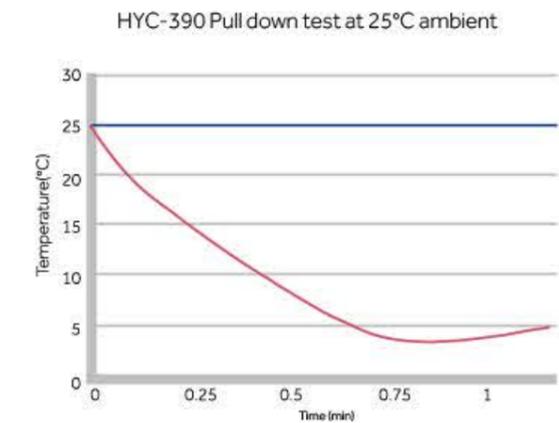
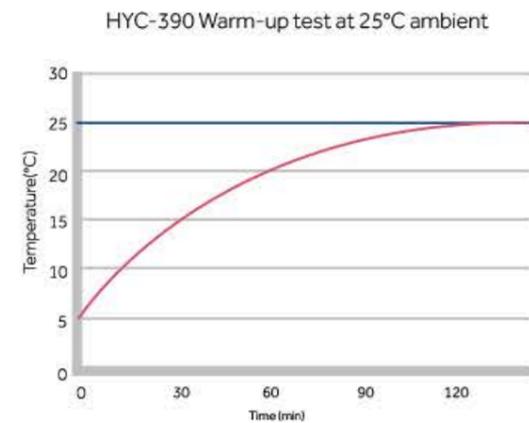
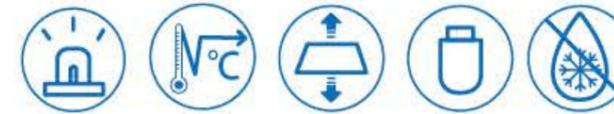


Technical Advantages

- Accurate temperature control technology to make the temperature maintain 2-8 °C and increment at 0.1°C
- Improved user interface with additional features include data USB port
- Oversized air-cooled condenser improves the robustness of the refrigeration system reliability and refrigeration efficiency

Ergonomic Design

- The new improved data storage management system is completed with a USB data port for downloading temperature data. Traceability of temperature performance is easily maintained
- Heated double-pane glass door allows a clear display of stored products without condensation at 32°C and 85% relative humidity condition
- LED interior light saves energy and provides bright lighting for viewing
- Drawers and shelves with optional label holders meet demands of product archiving and retrieving



Pharmacy Refrigerator



Specification

	Model	HYC-68			HYC-68A			HYC-260			HYC-360			HYC-290			HYC-390			HYC-610			HYC-940			HYC-1378		
Technical Data	Cabinet Type	Upright, foam door			Upright, glass door			Upright, single door			Upright, double door			Upright, double door														
	Climate Class	N			N			N			N			N			N			ST			N			N		
	Cooling Type	Forced air cooling			Forced air cooling			Forced air cooling			Forced air cooling			Forced air cooling			Forced air cooling			Forced air cooling			Forced air cooling			Forced air cooling		
	Deforst Mode	Auto			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			CFC-Free		
Performance	Noise Level(dB)	30			30			44			43			43			43			45			42			43		
Control	Temperature Range (°C)	2-8			2-8			2-8			2-8			2-8			2-8			2-8			2-8			2-8		
	Controller	Microprocessor			Microprocessor			Microprocessor			Microprocessor			Microprocessor			Microprocessor			Microprocessor			Microprocessor			Microprocessor		
Electrical Data	Display	LED			LED			LED			LED			LED			LED			LED			LED			LED		
	Power Supply(V/Hz)	220-240/50			220-240/50 115/60			220-240/50 208-230/60 115/60			220-240/50 208-230/60			220-240/50 208-230/60			220-240/50 208-230/60			220-240/50 208-230/60 115/60			220-240/50			220-240/50		
	Power(W)	84			84 84			340 340 340			430 430			340 340			380 380			490 560 560			900			800		
	Electrical Current(A)	0.65			0.65 0.65			2.6 2.6 3.6			3.5 3.5			2.2 2.2			2.4 2.4			4 4 7.5			5.5			4.2		
Dimensions	Capacity(L/Cu.Ft)	68/2.4			68/2.4			260/9.2			360/12.7			290/10.2			390/12.7			610/21.6			890/31.4			1378/48.7		
	Net/Gross Weight(approx)	38/40(kg) 83.8/88.2(lbs)			38/40(kg) 83.8/88.2(lbs)			88/100(kg) 194.0/220.5(lbs)			99/114(kg) 218.3/251.3(lbs)			94/116(kg) 207.2/255.7(lbs)			106/130(kg) 233.7/286.6(lbs)			204/227(kg) 449.7/500.4(lbs)			227/279(kg) 500.4/615.1(lbs)			310/360(kg) 683.4/793.7(lbs)		
	Interior Dimensions (W*D*H)	415*385*505(mm) 16.3*15.2*19.9(in)			415*385*505(mm) 16.3*15.2*19.9(in)			550*460*1065(mm) 21.7*18.1*41.9(in)			550*460*1340(mm) 21.7*18.1*52.8(in)			530*555*1080(mm) 20.9*21.9*42.5(in)			530*555*1380(mm) 20.9*21.9*54.3(in)			680*640*1400(mm) 26.8*25.2*55.1(in)			1030*590*1425(mm) 40.6*23.2*56.1(in)			1320*700*1500(mm) 52.0*27.6*59.1(in)		
	Exterior Dimensions (W*D*H)	495*580*660(mm) 19.5*22.8*26.0(in)			495*580*660(mm) 19.5*22.8*26.0(in)			620*655*1720(mm) 24.4*25.8*67.7(in)			620*655*1995(mm) 24.4*25.8*77.0(in)			665*710*1665(mm) 26.2*28.0*65.6(in)			665*710*1965(mm) 26.2*28.0*77.4(in)			780*840*1945(mm) 30.7*33.1*76.6(in)			1130*755*1980(mm) 44.5*29.7*78.0(in)			1440*910*1980(mm) 56.7*35.8*78.0(in)		
	Packing Dimensions (W*D*H)	522*620*690(mm) 20.6*24.4*27.2(in)			522*620*690(mm) 20.6*24.4*27.2(in)			700*715*1810(mm) 27.6*28.1*71.3(in)			700*715*2080(mm) 27.6*28.1*81.9(in)			735*800*1800(mm) 28.9*31.5*70.9(in)			735*800*2100(mm) 28.9*31.5*82.7(in)			875*937*2097(mm) 34.4*36.9*82.6(in)			1250*850*2130(mm) 49.2*33.5*83.9(in)			1600*1010*2100(mm) 63.0*39.8*82.7(in)		
	Container load (20'/40'/40'H)	108/228/228			108/228/228			108/228/228			24/48/48			16/32/32			16/32/32			12/26/26			8/18/18			6/12/12		
Functions	High/Low Temperature	Y			Y			Y			Y			Y			Y			Y			Y			Y		
	Remote Alarm	N/A			N/A			Y			Y			Y			Y			Y			Y			Y		
	Power Failure	N/A			N/A			Y			Y			Y			Y			Y			Y			Y		
	Sensor Error	Y			Y			Y			Y			Y			Y			Y			Y			Y		
	Low Battery	N/A			N/A			Y			Y			Y			Y			Y			Y			Y		
	Door Ajar	Y			Y			Y			Y			Y			Y			Y			Y			Y		
Accessories	Caster	N/A			N/A			Y			Y			Y			Y			Y			Y			Y		
	Foot	Y			Y			Y			Y			Y			Y			Y			Y			Y		
	Test Hole	N/A			N/A			N/A			N/A			Y			Y			N/A			N/A			N/A		
	Shelves/Inner doors	2/-			2/-			4/-			5/-			4/-			6/-			6/-			12/-			12/-		
	USB Interface	N/A			N/A			N/A			N/A			Y			Y			N/A			N/A			N/A		
	Temperature Recorder	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		
Others	Certificate	CE			CE			CE			CE			/			/			/			CE			CE		



**Blood Bank
Refrigerator**

Blood Bank Refrigerator

Haier blood bank refrigerators 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.



HXC-358B

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±1
- 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

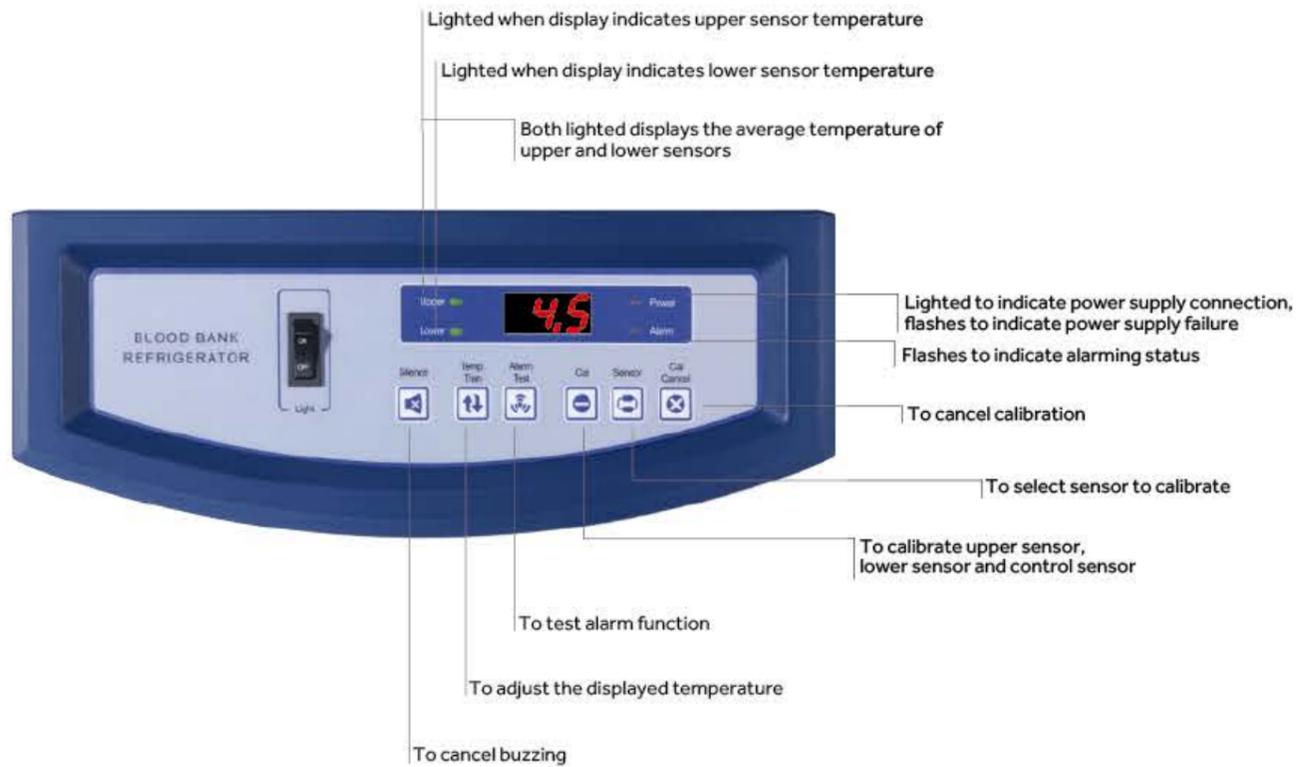
Safety

- 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

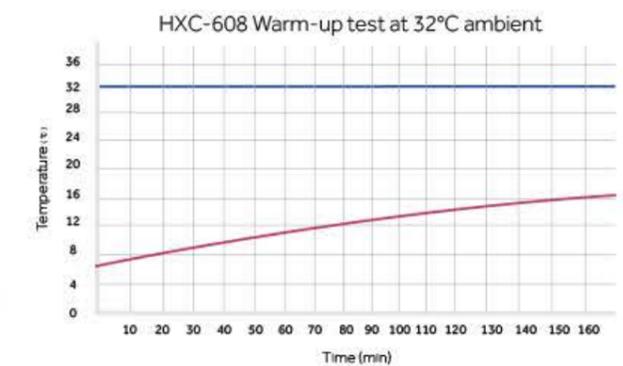
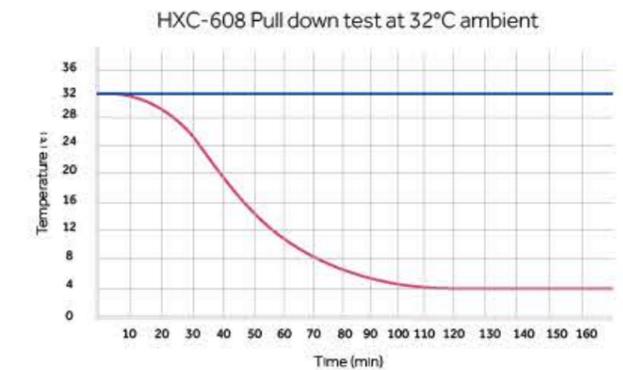
- Safety lock to prevent unauthorized access
- Storage space designed for easy sorting of a variety of blood products
- Caster design and interior light
- Optional baskets or stainless steel drawers





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

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	<ol style="list-style-type: none"> 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 period exceeds 600s



Blood Bank Refrigerator



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	
	Deforst 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 Lever(dB)	42	43	43	43	42	43	43	43	
Temperature Range(°C)	4±1	4±1	4±1	4±1.5	4±1	4±1	4±1	4±1.5		
Performance	Ambient Temperature (°C)	10-38	10-38	10-38	10-32	10-38	10-38	10-38	10-32	
	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	
Control	Display	LED	LED	LED	LED	LED	LED	LED	LED	
	Power Supply(V/Hz)	220-240/50	220-240/50 208-230/60	220-240/50 208-230/60	220-240/50	220-240/50	220-240/50	220-240/50	220-240/50	
Electrical Data	Power(W)	400	460 560	490 560	850	400	560	560	850	
	Electrical Current(A)	2.6	3 3	4 4	4.2	2.6	3	4	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	
Dimensions	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)	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)	
	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)	637*667*1647(mm) 25.1*26.3*64.8(in)	797*787*1857(mm) 31.4*31.0*73.1(in)	857*937*2097(mm) 33.7*36.9*82.6(in)	1600*1010*2100(mm) 63.0*39.8*82.7(in)	637*667*1647(mm) 25.1*26.3*64.8(in)	797*787*1857(mm) 31.4*31.0*73.1(in)	857*937*2097(mm) 33.7*36.9*82.6(in)	1600*1010*2100(mm) 63.0*39.8*82.7(in)	
	Container load (20'/40'/40'H)	27/54/54	14/30/30	12/26/26	6/12/12	24/54/54	14/30/30	12/26/26	6/12/12	
Functions	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	
	Remote Alarm	Y	Y	Y	Y	Y	Y	Y	Y	
Accessories	Caster	Y	Y	Y	Y	Y	Y	Y	Y	
	Foot	Y	Y	Y	Y	Y	Y	Y	Y	
	Test Hole	Y	Y	Y	Y	Y	Y	Y	Y	
	Shelves/Baskets	4/16	5/20	6/24	12/48	-	-	-	-	
	Drawers/Inner doors	-/2	-/3	-/3	-/6	4/-	5/-	6/-	12/-	
	USB Interface	N/A	N/A	N/A	Y	N/A	N/A	N/A	Y	
Others	Temperature Recorder	Optional	Y	Y	Y	Y	Y	Y	Y	
	Certificate	CE	CE	CE	CE	CE	CE	CE	CE	

Mobile Blood Bank Refrigerator

This product is designed to be installed on ambulances, blood transportation vehicles and vaccine transportation vehicles. It can operate safely in an extremely hostile environment between -2°C and 43°C with the humidity up to 80%.

- 2008, Haier Blood Transportation Box, won the bid of UNOPS/NACO/BTB/35/2008, from Indian National AIDS Control Organization.
- 2013, Haier made a great breakthrough in Turkey market, broke more than 10 years domination of D brand and won 170 units mobile blood bank refrigerator in Turkey Red Crescent.

Temperature Control

- Microprocessor control with digital temperature display at two modes of 4°C to 22°C
- Forced air cooling system for the chamber to reach $\pm 1.5^\circ\text{C}$. At 4°C setting, the chamber temperature range is 2.5°C to 5.5°C. At 22°C setting, the chamber temperature range is 20°C to 24°C

Safety System

- Alarm system to offer audible buzzer and visible flashing light for high temperature
- Built-in battery can provide power for temperature display and alarm system for 72 hours in case of power outage
- Microprocessor control to provide real-time information on electricity supply for refrigerators from vehicles



Control and refrigeration systems

- Specialized hermetically sealed compressor and ADDA fan
- Forced air cooling system designed to provide stable and uniform chamber temperature
- Finned coil evaporator design for maximum cooling ability
- Electric heater designed to provide speedy defrost process

Ergonomic design and key features

- Double layer blood basket design
- Double lock design to accommodate padlock
- LED display with 45 degree viewing angle
- Wide voltage range with power selection of DC12/24V and AC 100-240 V/AC, 50/60 Hz
- Formed cabinet, easy to clean exterior
- Drainage tube inside the cabinet
- Built with handles and casters for ease of moving

	Model	HXC-80
Technical Data	Cabinet Type	Chest
	Climate Class	T
	Cooling Type	Forced air cooling
	Defrost Mode	Manual
	Refrigerant	CFC-Free
Performance	Temperature Range(°C)	4+2 or 22+2
	Ambient Temperature(°C)	-2 to 43
Control	Controller	Microprocessor
	Display	LED
Electrical Data	Power Supply(V/Hz)	DC12/24V; AC 100-240V/50-60Hz Automatic power supply selection
	Power(W)	DC75; AC105
	Electrical Current(A)	6A at DC 12V, 3A at DC 24V, 1A at AC 100V, 0.45A at AC240V
Dimensions	Capacity(L/Cu.Ft)	80/2.8
	Blood Storage Capacity (450ml blood bags)	48
	Net/Gross Weight(approx)	504*350*513(mm) 19.8*13.8*20.2(in)
	Interior Dimensions(W*D*H)	504*350*513(mm) 19.8*13.8*20.2(in)
	Exterior Dimensions(W*D*H)	1000*550*856(mm) 39.4*21.7*33.7(in)
	Packing Dimensions(W*D*H)	1145*615*950(mm) 45.1*24.2*37.4(in)
	Container load (20'/40'/40'H)	36/76/76
Functions	High/Low Temperature	Y
	Power Failure	Y
	Sensor Error	Y
	High Ambient Temp	Y
Accessories	Caster	Y
	Shelves/Inner doors	4/-
Others	Certificate	CE

Vaccine Storage Solution



Vaccine & Icepack Freezer

The refrigerators are designed to store vaccine, pharmaceuticals and so on. Applications could be found in epidemic prevention, clinics, hospitals, research institutes etc.

In 2008, Haier won the tender of India MOHFW to supply 8559 units Vaccine Freezers and 5900 units Ice Lined Refrigerators.

In 2010, Haier won the tender of India MOHFW to supply 9010 units Vaccine Freezers and 11922 units Ice-Lined Refrigerators.

In 2011, Haier got the LTA of Ice-Lined Refrigerator and Vaccine Freezer. Haier is the long term supplier of UNICEF.

Refrigeration System

- Highly efficient hermetically sealed compressor
- CFC-free high density foam insulation
- Optimized refrigeration system design



HBD-116



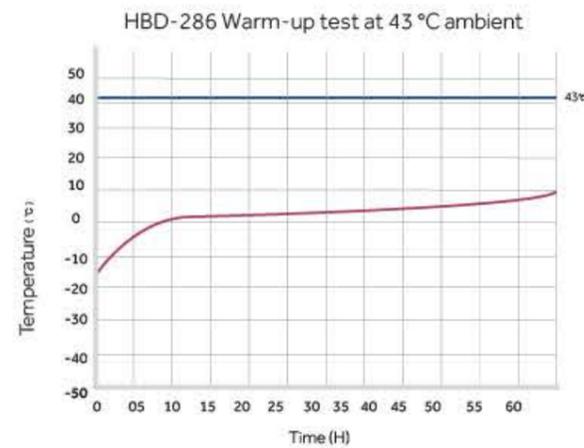
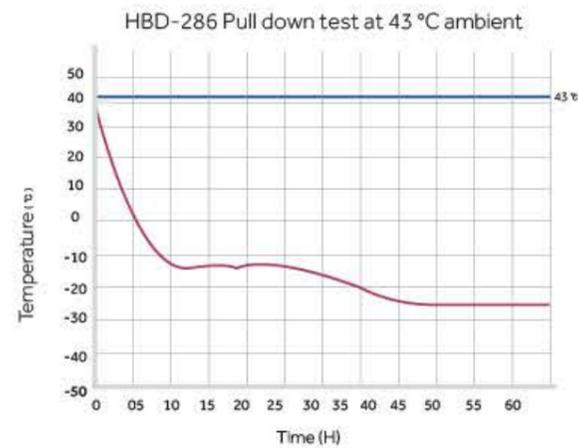
HBD-286

Temperature Control

- Digital display
- Adjustable temperature range of -15°C to -25 °C

Ergonomic Design

- Safety lock for unauthorized access
- Corrosion-proof interior and ease of cleaning
- Shelving designs for various sizes of storage baskets
- Drainage system for ease of cabinet cleaning
- LCD temperature display



	Model	HBD-116	HBD-286	
Technical Data	Cabinet Type	Chest	Chest	
	Ambient Temperature	<43°C	<43°C	
	Cooling Type	Direct cooling	Direct cooling	
	Defrost Mode	Manual	Manual	
	Refrigerant	CFC-Free	CFC-Free	
	Noise Level(dB)	43	44	
Performance	Temperature Range(°C)	-15--25	-15--25	
Control	Controller	Mechanical	Mechanical	
	Display	LCD	LCD	
Electrical Data	Power Supply(V/Hz)	220-240/50	208-230/60	220-240/50
	Power(W)	138	166	185
	Electrical Current(A)	1.05	1.65	1.3
	Power Consumption: stable running(KWh/24h)	3.01	3.53	3.48
	Power Consumption: cool down test(KWh/24h)	3.25	3.47	3.71
	Holdover Time at 43°C	more than 3hrs (up to -5°C) more than 50hrs (up to 10°C)	more than 5hrs (up to -5°C) more than 60hrs (up to 10°C)	
Dimensions	Vaccine Storage Capacity(L/Cu.Ft)	97/3.4	258/9.1	
	Gross Volume(L/Cu.Ft)	121/4.3	286/10.1	
	Net/Gross Weight(approx)	50/55(kg) 110.3/121.3(lbs)	79/85(kg) 174.2/187.4(lbs)	
	Interior Dimensions(W*D*H)	497*457*655(mm) 19.6*18.0*25.8(mm)	1067*457*655(mm) 42.0*18.0*25.8(in)	
	Exterior Dimensions(W*D*H)	670*630*818(mm) 26.4*24.8*32.2(in)	1240*630*818(mm) 48.8*24.8*32.2(in)	
	Packing Dimensions(W*D*H)	755*760*880(mm) 29.7*29.9*34.6(in)	1325*760*880(mm) 52.2*29.9*34.6(in)	
	Container load (20'/40'/40'H)	42/90/135	24/54/81	
Accessories	Foot	Y	Y	
	Baskets	2	3	
Others	Certificate	CE,WHO/PQS	CE,WHO/PQS	

Ice-Lined Refrigerator

Refrigeration System

- Optimized refrigeration system design
- Microprocessor control
- Built-in ice packs maintain 2°C to 8°C for 25 hours at 43°C ambient
- CFC-free high density foam insulation
- Complied with WHO/UNICEF standards

Temperature Control

- Digital temperature display
- Adjustable control range of 2°C to 8°C

Ergonomic Design

- Door lock for storage safety
- Stainless steel interior for ease of cleaning and corrosion proof



Inside structure



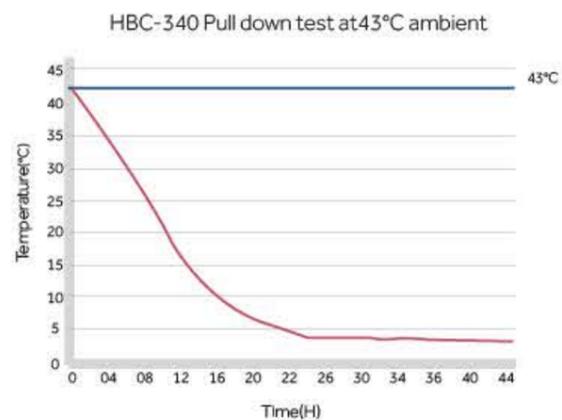
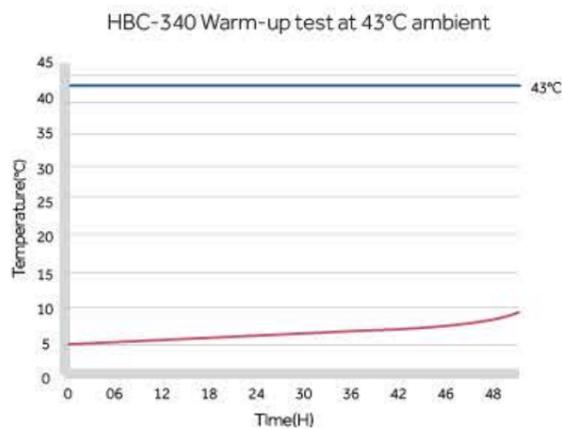
Interior icepack



Lock



Controller



	Model	HBC-70	HBC-110	HBC-200	HBC-340	
Technical Data	Cabinet Type	Chest	Chest	Chest	Chest	
	Ambient Temperature(°C)	5°C-43°C	5°C-43°C	5°C-43°C	5°C-43°C	
	Cooling Type	Direct cooling	Direct cooling	Direct cooling	Direct cooling	
	Defrost Mode	Auto	Auto	Auto	Auto	
	Refrigerant	CFC-Free	CFC-Free	CFC-Free	CFC-Free	
	Noise Level(dB)	43	43	44	42.5	
Performance	Temperature Range(°C)	2-8	2-8	2-8	2-8	
Control	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	
	Display	LCD	LCD	LCD	LCD	
Electrical Data	Power Supply(V/Hz)	220-240/50	208-230/60	220-240/50	220-240/50	
	Power(W)	150	177	155	194	226
	Electrical Current(A)	1.1	1.4	1.2	1.4	1.53
Dimensions	Power Consumption: stable running(KWh/24h)	0.64	1.1	1.2	1.62	1.5
	Power Consumption: cool down test(KWh/24h)	1.0	1.0	1.28	1.52	1.52
	Holdover Time at 43°C	more than 25hrs	more than 36hrs	more than 36hrs	more than 36hrs	more than 40hrs
	Vaccine Storage Capacity(L/Cu.Ft)	45/1.6	52.5/1.8	94.5/3.3	211/7.4	
	Gross Volume(L/Cu.Ft)	71/2.5	110/3.9	198/7.0	340/12.0	
	Net/Gross Weight(approx)	58/64(kg) 127.9/141.1(lbs)	87/93(kg) 191.8/205.0(lbs)	108/114(kg) 238.1/251.3(lbs)	152/181(kg) 335.1/399.0(lbs)	
	Interior Dimensions(W*D*H)	400*360*610(mm) 15.7*14.2*24.0(in)	595*360*610(mm) 23.4*14.2*24.0(in)	970*360*610(mm) 38.2*14.2*24.0(in)	1410*415*645(mm) 55.5*16.3*25.4(in)	
	Exterior Dimensions(W*D*H)	670*630*818(mm) 26.4*24.8*32.2(in)	860*630*818(mm) 33.9*24.8*32.2(in)	1243*630*818(mm) 48.9*24.8*32.2(in)	1650*650*855(mm) 65.0*25.6*33.7(in)	
	Packing Dimensions(W*D*H)	755*760*880(mm) 29.7*29.9*34.6(in)	950*760*880(mm) 37.4*29.9*34.6(in)	1325*760*880(mm) 52.2*29.9*34.6(in)	1705*760*1010(mm) 67.1*29.9*39.8(in)	
	Container load (20'/40'/40'H)	42/90/135	36/72/108	24/54/81	18/42/42	
Functions	High/Low Temperature	Y	Y	Y	Y	
	Power Failure	Y	Y	Y	Y	
	Sensor Error	Y	Y	Y	Y	
Accessories	Foot	Y	Y	Y	Y	
	Baskets	3	5	9	11	
Others	Certificate	CE,WHO/PQS	CE,WHO/PQS	CE,WHO/PQS	CE,WHO/PQS	

Solar Direct Driven Vaccine Refrigerator

For Solar-powered Vaccine Refrigerator, electricity and fuel are unneeded. It provides with convenience to store vaccine for the areas without power or power unstable regions, especially frequent blackout. This kind of refrigerator can also be used for vaccine storage in developing countries. Haier has repeatedly taken part in the project of children health protecting in WHO, UNICEF, Africa and other developing regions, providing the solutions of vaccine storage security.

Storage security

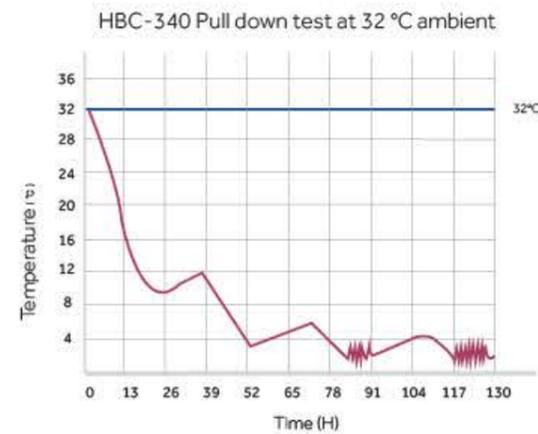
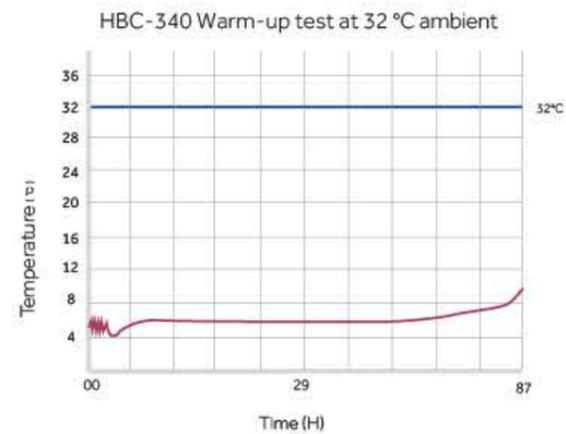
- Forced air cooling system designed to provide stable and uniform chamber temperature
- LCD temperature display to read the visual temperature
- High and low temperature and power outage alarm system, multiple built-in protection system
- Corrosion-resistant stainless steel liner
- Lock design, safe to storage the vaccine
- Keeping inside temperature at 2-10°C, in the condition that ambient temperature is 32 °C power outage for 119 hours, safe for vaccine storage

Temperature control

- Microcomputer control, guarantee the accurate temperature
- Temperature measurement function, the temperature inside chamber is accordance with the display temperature

Ergonomic design

- Solar-driven, green and environment friendly compared with battery-powered ones
- External battery can be connected to the unit under special or emergent situation flexibly
- Temperature controller is easy to view, auxiliary battery for display without sunshine
- Low noise



EXTERNAL DIGITAL DISPLAY

The current temperature is displayed through the solar driven digital display. There is no need for daily adjustment, as the entire system has been calibrated before delivery from the factory and it is self-regulating.



	Model	HTC-60
Technical Data	Cabinet Type	Chest
	Ambient Temperature(°C)	10°C-32°C
	Cooling Type	Forced air cooling
	Defrost Mode	Auto
	Refrigerant	CFC-Free
Performance	Noise Level(dB)	42
	Temperature Range(°C)	2-8
Control	Controller	Microprocessor
	Display	LCD
Electrical Data	Power Supply(V/DC)	12/24
	Power(W)	90
	Electrical Current(A)	4
	Power Consumption: stable running(KWh/24h)	0.49
	Power Consumption: cool down test(KWh/24h)	0.68
	Holdover Time at 43°C	119hrs
	Autonomy Time	135 hrs
	Solar Radiation Reference Period	3.5kwh/m2/day
	Voltage of Solar Panel	12V
	Power of Solar Panel	360W
Dimensions	Vaccine Storage Capacity(L/Cu.Ft)	21/0.7
	Gross Volume(L/Cu.Ft)	60/2.1
	Net/Gross Weight(approx)	78/98(kg) 172.0/216.1(lbs)
	Interior Dimensions(W*D*H)	240*445*610(mm) 9.4*17.5*24.0(in)
	Exterior Dimensions(W*D*H)	788*654*875(mm) 31.0*25.7*34.4(in)
	Packing Dimensions(W*D*H)	865*770*1115(mm) 34.1*30.3*43.9(in)
	Container load (20'/40'/40'H)	36/78/78
Functions	High/Low Temperature	Y
	Power Failure	Y
	Sensor Error	Y
	Low Battery	Y
Accessories	Baskets	2
Others	Certificate	CE,WHO/PQS

Walk-In Cold/Freezer Room



Haier walk-in cold room is for storage of vaccines, and the complete unit is also designed for installation in a housed area such as a warehouse in order to meet designed temperature standards.

Haier's WICs & WIFs have passed WHO / PQS and is long term supplier of UNICEF. The units have been installed in India, Guinea, South Sudan, Pakistan, Burundi, Uzbekistan, etc.



Type	Freezer Room	Cold Room	Cold Room	Cold Room	Cold Room	Cold Room	Combined Cold/Freezer Room	
							Cold Room	Freezer Room
Model	HRZK-20D	HRZK-10G	HRZK-15G	HRZK-20G	HRZK-30G	HRZK-40G	HRZK-40G	
Defrost Mode	Electrical heating							
Refrigerant	CFC-Free							
Internal Temperature Range(°C)	-20	2-8	2-8	2-8	2-8	2-8	2-8	-20
Evaporator Temperature(°C)	-25	-7	-7	-7	-7	-7	-7	-25
Power Supply (V/Hz)	380/50	220/50	220/50	220/50	380/50	380/50	380/50	
Power(W)	2630	1300	1750	1750	2520	2610	2520	2010
Refrigerating Output(W)	2060	1560	2230	2230	2950	3250	2950	1580
Capacity(m ³)	20	10	15	20	30	40	25	15
Condensation Temperature(°C)	43							
Density(Kg/Cbm)	40±2							
K-Value(m ² K)	0.22							
Insulation Thickness(mm)	100							
Certificate	WHO/PQS							

Integral Cold Store Unit

- The cold room is suitable to freeze or refrigerate relevant articles for medical service, scientific research, agricultural, biological and chemical industries, etc. Its interior temperature can be controlled respectively within the range of 0-10°C or 0--25°C



Technical Characteristics of the Cold Room

- The cold room for vaccines and medicines is controlled and adjustable within the range of 0-10°C or -15--25°C with resolution of 0.1°C
- Insulation material CFC-free polyurethane foamed-in-piece, density 42kg/cbm
- Insulation thickness 100 mm, K-value 0.22 W/m2K or better
- Internal and external surfaces of hot-dipped galvanized steel sheet, white polyester coating and floor clad with non-slip material
- Rooms equipped with tungsten lighting and with an external switch with pilot lamp
- Rooms equipped with shelving system on three walls, material stove enameled steel, galvanized steel, stainless steel, aluminum or plastic slatted adjustable shelving units to carry vaccine in packages, 5 levels, 450-600 mm deep, adjustable
- Dual refrigeration system is equipped. Forced air-cooled condenser refrigeration units
- Door equipped with heavy duty hinges and lock with internal safety release. Automatic defrosting
- CFC-free refrigerant
- System to be offered with manual change over switch as standard
- Temperature recorder and audible alarm system

Technical Characteristics of the Refrigerating Unit

- The LYJ series of machine, called mono block, that integrates evaporator, condenser, compressor, electrical control units into one compact body, can be widely used for cold storage rooms of temperature of -5°C-5°C or -15°C--20°C, in hotels, restaurants, medicines, agricultural, chemicals industries all other place where cold storage is needed. This series products feature below:
- With very compact structure
- With TECUMSEH hermetic compressors, high efficient in-grooved copper tube and aluminum fin heat exchangers and world famous brand refrigeration parts for all products
- The electronic control boards are with functions of automatic temperature set, control, and electric heater defrosting. Protection devices for over loading, over heating, lack of phase, high & low pressure etc
- Safe, easy, and low cost for installation and operation

Temperature Recorder

- Upper and lower limits +50°C to -30°C
- Accuracy ±1°C
- Resolution ±0.5°C
- Minimum acceptable recording period between chart changes is 7 days
- USB interface is equipped

A photograph of a laboratory setting. Two individuals are wearing full-body blue protective suits, including hoods and gloves. One person is standing on the left, leaning into an open biological safety cabinet (BSC) to handle a tray. The other person is seated on a black office chair on the right, working inside a BSC. The BSCs are white with blue accents and have control panels on the left side. The background shows a clean, clinical environment with white walls and a grey floor.

**Biological
Safety Cabinet**

Biological Safety Cabinet



Biological safety cabinet is designed to protect operator, laboratory environment and samples from being exposed to the infective aerosol produced when the sample is bacteria strains, diagnostic material, and other infective subjects. It provides the operators with a more comfortable and safer working condition. It is widely used in medical health, disease prevention, food safety, biological pharmacy and environment monitoring. And it has been the important basis of sample safety and environment security.



American AAF ULPA filter are tested to a typical efficiency of >99.999% for 0.12 micron particles

Reverse centrifugal fan allows double-side air inflow, decreasing noise and saving energy

Reverse centrifugal fan allows double-side air inflow, decreasing noise and saving energy

Digital microprocessor control system for easy operation

Intelligent alarming system

Multiple interlocking functions eliminate potential safety problems caused by misoperation.

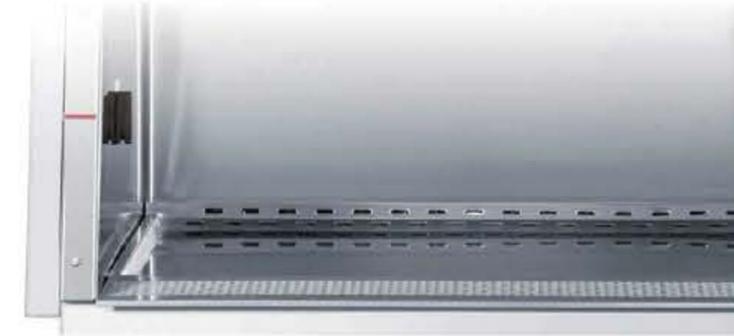
Removable stainless steel work surface makes cleaning easier

Ergonomic angled design to improve comfort

Adjustable foot

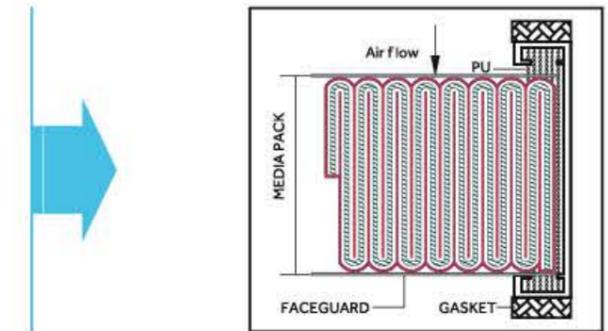
304 stainless steel operation platform and internal wall

- Stainless steel operation platform without screws, no accumulation of contaminant
- Dismountable air in-flow plate, easy to clean and disinfect
- Internal wall is constructed by a single plate, and the 12mm arc angle conner leaves no cleaning blind area
- The volume of liquid tank is over 4L, equipped with outlet valve for convenient cleaning and maintaining
- Concaved operation platform, waste liquid easily collected
- Adjustable supporter (0-75mm) without exposed screw thread, preventing the germs from multiplying



Ultra Low Penetration Air Filtration System

- American AAF ULPA filter
- Tested to a typical efficiency of 99.9995% for 0.12 micron particles
- Provides FED STD 209E class 1 (or ISO14644.1 class 3) clean air to work surface in a stable vertical laminar flow to protect samples
- The exhaust ULPA filter traps biohazard particles acquired from the work surface before air is exhausted to the room, offering personnel and environmental protection

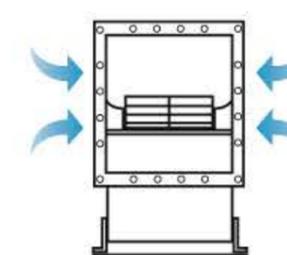


High Efficiency Blower System

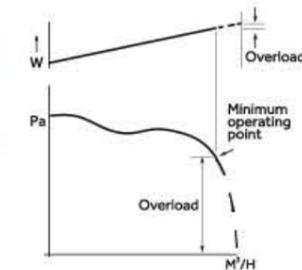
- The blower system is designed for high performance operation, maximum energy efficiency and minimal maintenance
- Self cooling system reduces energy consumption while enhancing reliability



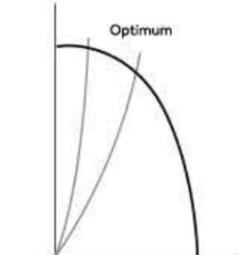
Reverse centrifugal fan



Double-side air inflow design decreases running noise



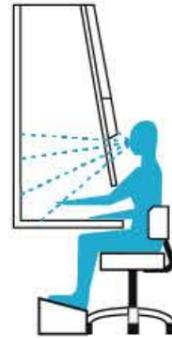
Air velocity auto-compensation function guarantees stable wind speed



Provide uniform airflow by adjusting working voltage of fan.

Digital microprocessor control system

- LCD display
- Real-time display of key parameters: downflow velocity, inflow velocity, airflow volume, static pressure, negative pressure, accumulative running time of fan and UV lamp, left lifetime of filter
- Sound & light alarming function
- UV sterilization reservation setting function
- Time setting function



Ergonomic Design

- The 10° angled viewing window improves comfort and alleviates fatigue of operator
- 75mm adjustable supporter ensures correct height for different users
- UV sterilization reservation function
- Lamp is set behind supporter, making eyes more comfortable
- Automatically remind when filter lifetime less than 10% , so that filter can be changed in time
- Removable stainless steel work surface makes convenient cleaning
- Draining valve is easy to clean and maintain

Interlock Safety Protection

- Glass sash and the blower/motor interlocking
Close sash, blower/motor stop automatically to avoid malfunction of blower/motor free-running
- Fluorescent light & UV light interlocking
Close sash, the fluorescent light stays the status of on; Only after turning off fluorescent light, the UV light can be turned on to avoid exposure of ultraviolet light
- UV light, blower/motor and fluorescent light interlocking
When sash closed and UV light on, if sash is opened, UV light turns off automatically, while fluorescent light and blower/motor turn on automatically simultaneously to avoid exposure of ultraviolet light and microorganisms
- Sash and fluorescent light interlocking
When opening height of sash exceeds the safety limit line, fluorescent light turns off to avoid operator working in insecure environment

Intelligence alarm system

- Alarm when opening height of sash exceeds the safety limit line
- Alarm when airflow fluctuation exceeds 20%
- Alarm when sash is not closed properly but blower turned off
- Alarm when filter life is less than 10% of total lifetime

Standards Compliance	Biosafety Cabinets	Air Quality	Filtration	Electrical Safety
	EN 12469, Europe SFDA YY-0569, China	ISO 14644.1, Class 3, Worldwide US Fed Std 209E, Class 1 USA	EN-1822 (H14), Europe IEST-RP-CC001.3, USA IEST-RP-CC007, USA IEST-RP-CC034.1, USA	EN61010



	Model	HR30-IIA2	HR40-IIA2	HR60-IIA2
Technical Data	Type	Class II Type A2		
	Working Voltage & Frequency	220V±10%, 50±1 Hz		
Electrical Data	Power	1300		
	Power of Blower(W)	350		
	Airflow Circulation	70% downflow, 30% exhaust		
	Main Filter Typical Efficiency	ULPA,99.9995%@0.12µm		
Performance	Exhaust Filter Typical Efficiency	ULPA,99.9995%@0.12µm	HEPA,99.995%@0.3µm	ULPA,99.9995%@0.12µm
	Downflow Velocity(m/s)	0.30	0.28	0.32
Control	Inflow Velocity(m/s)	0.58	0.55	0.58
	Fluorescent Lamp Intensity(Lux)	≥1100	≥1100	≥1100
Dimensions	Net/Gross Weight	220/248(kg) 485.0/546.7(lbs)	258/293(kg) 568.8/646.0(lbs)	328/390(kg) 723.1/859.8(lbs)
	Internal Dimensions(W*D*H)	900*610*680(mm) 35.4*24.0*26.8(in)	1167*610*680(mm) 45.9*24.0*26.8(in)	1735*610*680(mm) 68.3*24.0*26.8(in)
	External Dimensions(W*D*H)	1100*780*2200(mm) 43.3*24.0*26.8(in)	1360*780*2200(mm) 53.5*30.7*86.6(in)	1960*780*2200(mm) 71.2*30.7*86.6(in)
	Packing Dimensions(W*D*H)	1230*910*2180(mm) 48.4*35.8*85.8(in)	1490*910*2180(mm) 58.7*35.8*85.8(in)	2040*910*2180(mm) 80.3*35.8*85.8(in)
	Supporter	75mm adjustable height		
	Alarm	Sound and Flash		
Function	Container load (20'/40'/40'H)	8/18/18	7/16/16	6/13/13
Others	Certificate	SFDA	EN12469,SFDA,CE	SFDA



Haier Bio-Medical Models Line-up

-150°C Cryo Freezer

-86 °C ULT Freezer

Slim **Upright**





DW-150W200 DW-86L338 DW-86L338A DW-86L486 DW-86L628 DW-86L728 DW-86L828

New Generation




HYC-260 HYC-360 HYC-610 HYC-940 HYC-1378 HYC-290 HYC-390

Double Door **Energy Saving** **Touch Screen PATRONOS** **Chest**






DW-86L490 DW-86L728J DW-86L729 DW-86L959 DW-86W100 DW-86W420

Blood Bank Refrigerator

Baskets **Drawers**




HXC-158 HXC-358 HXC-608 HXC-1308 HXC-158B HXC-358B HXC-608B HXC-1308B

-40°C Deep Freezer

Upright **Chest**




DW-40L92 DW-40L188 DW-40L262 DW-40L626 DW-40W100 DW-40W255 DW-40W380

Vaccine & Icepack Freezer

Ice-lined Refrigerator

SDD Vaccine Refrigerator





HBD-116 HBD-286 HBC-70 HBC-110 HBC-200 HBC-340 HTC-60

Combined Refrigerator and Freezer

Pharmacy Refrigerator

Double Door **Under-counter Pharmacy Refrigerator**





DW-40L348 DW-40L508 HYCD-282 HYCD-282A HYC-68 HYC-68A

Mobile BBR

Biological Safety Cabinet




HXC-80 HR30-IIA2 HR40-IIA2 HR60-IIA2