Leading Solution To Life Science

Haier Bio-Medical



Haier Medical and Laboratory **Products Co. Ltd**

Brand Building, Haier industrial park, No. 1 Haier Road, Qingdao,266101,P.R.China Tel: +86-0532-88936011 / 5955





and actual products, please refer to actual products.

Our company reserves the right of final interpretation to this brochure and please contact with us for future information you might need.









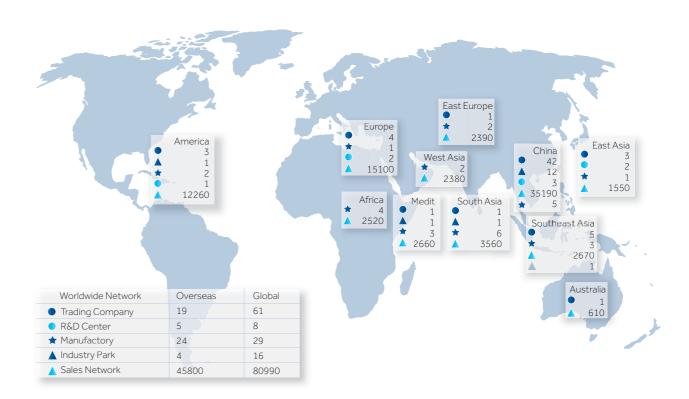
Haier



Successful enterprises move with the times. Over the 28 years since its establishment, Haier has kept peace 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.

Factories around the world



Haier Bio-Medical

Founded in 1998, Haier Bio-Medical 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.

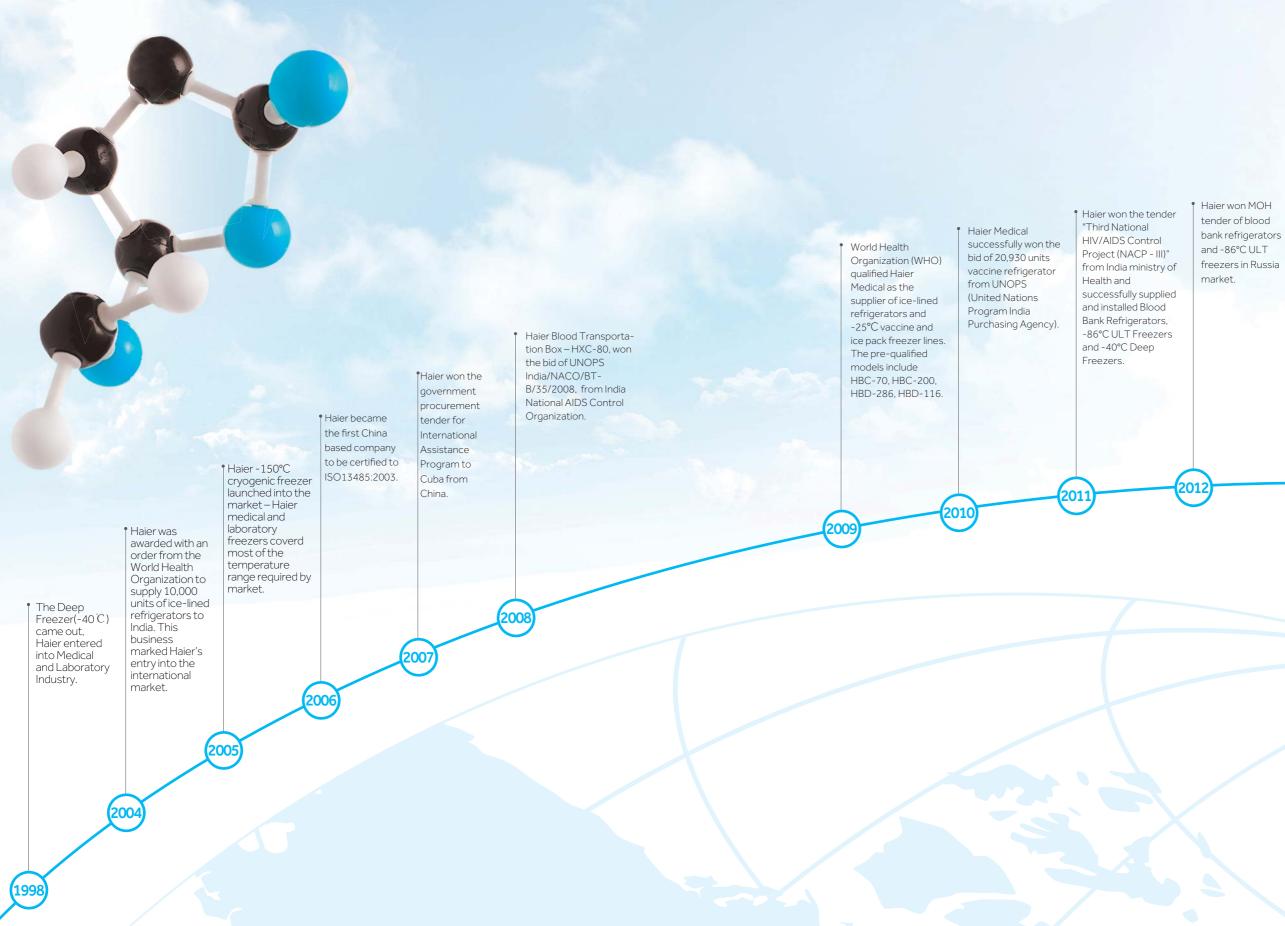
Headquartered in Qingdao, China, our company is a part of Haier Group Company which is highly ranked as one of the key global manufacturers of durable goods. In addition to certification with ISO9001 quality system, ISO14001 environment protection system, and ISO13485:2003 quality system, the company 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.

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Milestones & Awards



Haier successfully won

the Uzbekistan MOH

tender for 520 units

Haier successfully

HYCD-282A combined

refrigerator and freezers.

provided Philippines MOH

project for 216 units of

provided MOH tender of

Sudan, Tanzania, Uganda

which is a new important

milestone to develop the

and Madagascar etc.,

African market.

medical refrigerators.

Haier successfully



014 NEW PRODUCTS

ULT Freezer

- World Leading Energy-efficient,10.5kwh/day
- Hrdrocarbon Refrigeration System
- Reliable Sample Protection
- Excellent Insulation Performance
- Multiple Alarms



ULT Freezer

- LCD Touch Screen
- Unique Inventory Management System
- World Large Capacity
- Global Most Energy-efficient
- Multiple Alarm Options



Deep Freezer

- Double Door Design
- Double Capillary Tube
- Improved Door Seal
- Label Drawers
- Multiple Function Alarms



Pharmacy Refrigerator

- New Appearance, more intelligent
- USB Data Port
- Electrically Heated Glass Door
- Optional Printer
- Adjustable Shelves



Under-counter Pharmacy Refrigerator

- Under-counter Models, Offering Accessibility
- Electrically Heated Glass Door
- Optimized Refrigeration System
- Drawers And Shelves Storage
- Audible And Visible Alarm

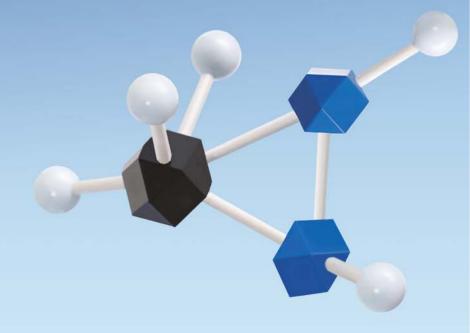


Ice Lined Refrigerator

- WHO/PQS Approved
- Large Capacity
- CFC-Free
- Stainless Steel Interior
- Ice-packs Built In

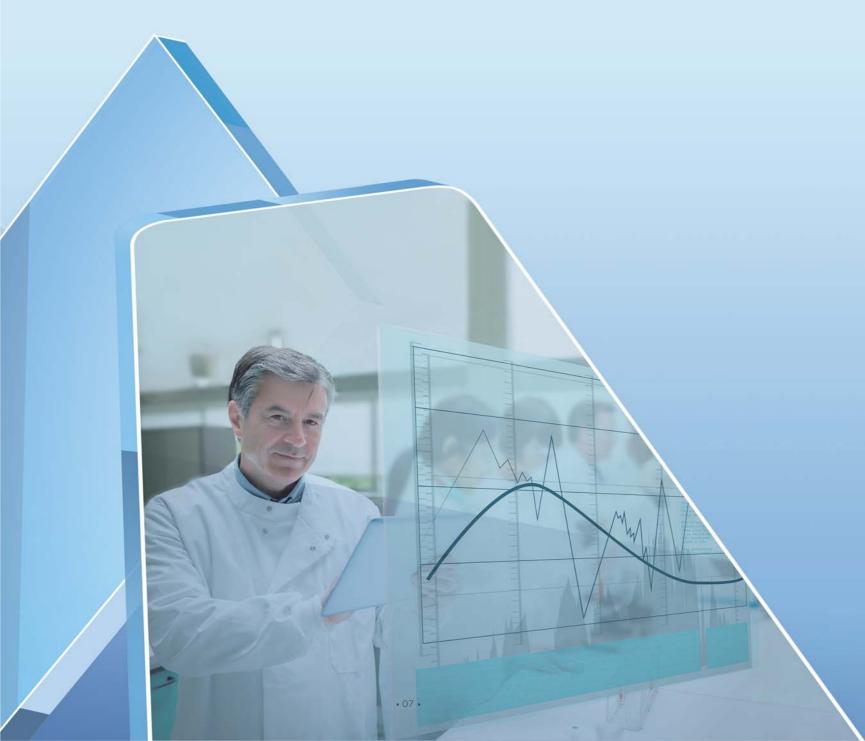


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Haier Biomedical



Preservation

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WHO/PQS Certificated

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- 65 Walk-In Cold/Freezer Room

Bio Safety Cabinet

67 Biological Safety Cabinet



-150°C Cryo Freezer



-150°C Cryo freezer, developed by Haier Medical and Laboratory Products Co., Itd provides a safer, more convenient and economicalalternative long term storage method than LN2 refrigeration systems. By providing a storageenvironment 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

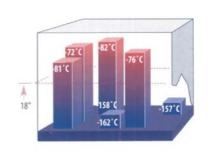
Safety Control System

- 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

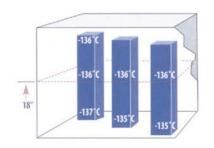




Liquid Nitrogen Preservation System in Cryo Freezer



LN₂ Freezer System(-196 °C)



Cryo Freezer(-140)°C

	Model	DW-150W200
	Cabinet Type	Chest
	Climate Class	N
Technical Data	Cooling Type	Forced air cooling
	Defrost Mode	Manual
	Refrigerant	CFC-Free
Performance	Cooling performance(°C)	-150
renormance	Temperature Range(°C)	-126~-150
Control	Controller	Microprocessor
Control	Display	LED
	Power Supply(V/Hz)	380/50
Electrical Data	Power(W)	2800
Electrical Data	Electrical Current(A)	9
	Capacity(L/Cu.Ft)	200/7.1
	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)
Dimensions	Exterior Dimension(W*D*H)	1570*850*1060(mm) 61.8*33.5*41.7(ir
	Packing Dimension(W*D*H)	1710*985*1195(mm) 67.3*38.8*47.0(ir
	Container load (20'/40'/40'H)	6/13/13
	High/Low Temperature	Y
	Remote Alarm	Y
	Hot Condenser	Y
Functions	Power Failure	Y
runctions	High/Low Voltage	Y
	Sensor Error	Y
	Low Battery	Y
	High Ambient Temp	Y
	Caster	Y
Accessories	Foot	Y
Accessories	Test Hole	Y
	Shelves/Inner doors	-/2
	Rack Model	2 inch stainless steel rack 11*1
	Dimensions(L/D/H)	142*138*633(mm) 5.6*5.4*24.9(in)
Optional Parts	Rack Quantity	12
	Box Quantity	132
	Sample Quantity	13200(calculated based on 10*10 box)

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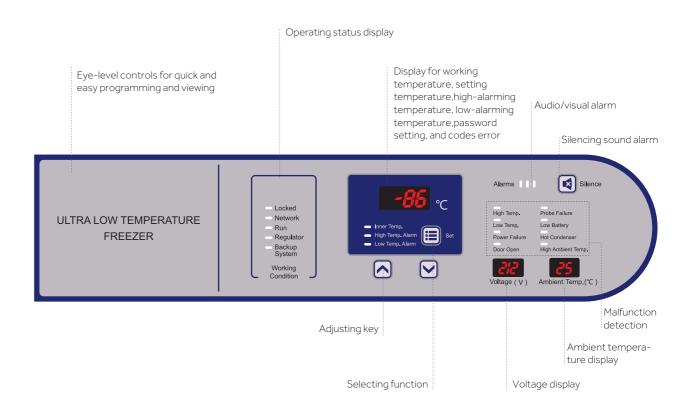
-86°C ULT Freezer

cooling effect.

• Unique CH refrigeration system is optimized to provide maximum efficiency in even the most extreme ambient



This product is specially designed and manufactured for long term 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	Condensers filter element is clogged Ambient temperature is too high
High Ambient Temperature	Ambient temperature exceeds 32°C

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Two sample ports on back for temperature

monitoring conveniently.



Performance and Features



Field proven reliablity

- 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
- Remote alarm contacts



Installiation & 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



• Specialized refrigeration system design using whisper guiet 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

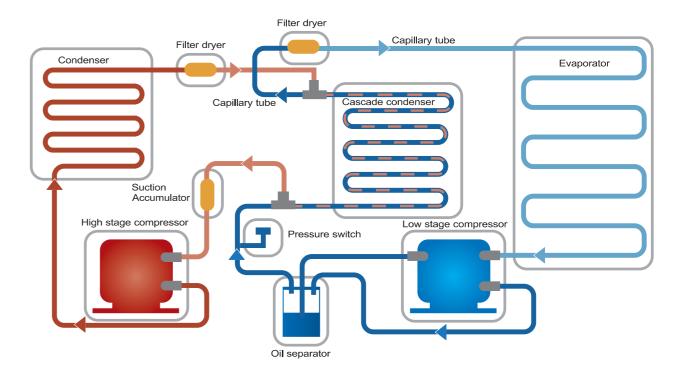


features

• Microprocessor-controlled system designed for controllable range of -40°C to -86°C for cabinet space with 1°C increment

- \bullet 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



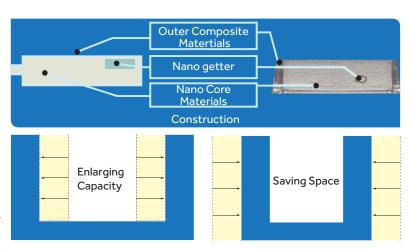
Filter • Filter for refrigerant to protect system from the water and other entering
Capillary tube for high stage High temperature refrigerants flow into the evaporator from the Capillary tube
Capillary tube for low stage Low temperature refrigerants flow into the evaporator from the Capillary tube
High stage condenser • Extra-large air cooled condenser dissipates product heat content efficiently.
Low stage Evaporator • The close contact design between the evaporating tube and the inner cabinet increases the heat conducting efficiency
 Ultra low noise compressor 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 • Heat exchanger between the high and low temperature stage in the system
Temprite oil separator • Temprite oil separator can effectively separate oil and water so as to improve the refrigeration performance

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Salvum Energy Saving ULT Freezer

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



"A proven solutions partner "Marrow Donor Progra(NMDP)

Hundreds of -86 °C ultra low temperature freezer and the cold chain equipment monitoring and control system solution for NMDP.



Haier water-cooled ULT Freezer in SAHMRI, Australia

The first water-cooled ULT freezer project of Haier biomedical in overseas market and the products were highly evaluated "Haier water-cooled ULT freezer is the best in the world!"







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.













DW-86L728J

Advantages

- World leading energy-efficient, 10.5*
- Hrdrocarbon refrigeration system
- Slim cabinet design
- Reliable sample protection
- Malfunction alarms
- Excellent insulation performance

*(Data is validated by National Center Of Safety Quality Supervision And Testing For Electronic & Electrical Products)

Safety

- Excellent temperature uniformity for an exacting sample storage requirement
- High efficiency and reliability cooling fans ensure energy savings and long term storage safety



Superior

- Special V.I.P(Vacuum Insulation Panel) design with extra insulation factor cuts down heat loss to cabinet by 25%
- High efficiency hrdrocarbon refrigerant based refrigeration system increases the efficiency by 45% than previous model
- Four individual insulated inner door to keep the cold air inside
- Pressure equalization port provides superior air flow making it possible to drastically reduce the stress on the freezer
- Low noise: DW-86L728J: 50dB(A) (reference data)

Alarms (visual and audible)

- Adjustable High/Low temperature alarm
- Sensor error
- Low battery
- Door ajar
- Power failure
- Probe failure
- Hot condenser
- High ambient
- Remote alarm contact

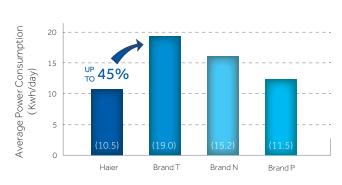
Global Most Energy Efficiency

Electricity charge of a 700-liter ULT Freezer

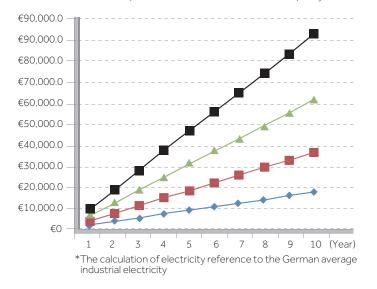
Model	Power Consumption (Kwh/h)	Ambient Temperature	Electricity Charge (1year)	Electricity Charge (5year)	Electricity Charge (10year)
DW-86L728J	10.5*	25°C	€1,724.6	€8,623.1	€ 17,246.3
Brand P	11.5	22~26°C	€1,888.9	€9,444.4	€ 18,888.8
Brand N	15.2	23°C	€2,496.6	€ 12,483.0	€24,966.0
Brand T	19.0	25°C	€3,120.8	€ 15,603.8	€ 31,207.5

 $Notes: \begin{tabular}{l}{l}{Notes: \begin{tabular}{l}{l}{Typical data-individual units may vary and power consumption will depend on loading and operating conditions. Freezer set-point -80°C, ambient temperature 25°C, unloaded, 220~240V 50Hz power supply \end{tabular}$

• The new Eco-friendly Haier ULT freezer is the most energy-efficient one in the world which is designed to help you save energy.



Haier DW-86L728L Electricity Charge for ten years compared with other bands with similar capacity



€ Less Cost

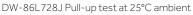
- Compared with Brand P, Haier DW-86L728J will help you to save €1,642.5 electricity charge in 10 years
- Compared with Brand N, Haier DW-86L728J will help you to save €7,719.7 electricity charge 10 years
- Compared with Brand T, Haier DW-86L728J will help you to save €13,961.2 electricity charge 10 years

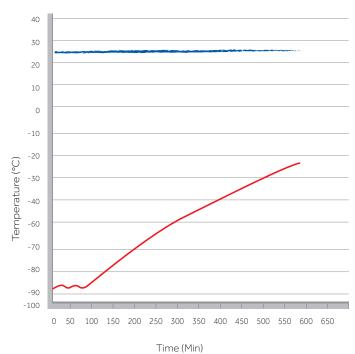


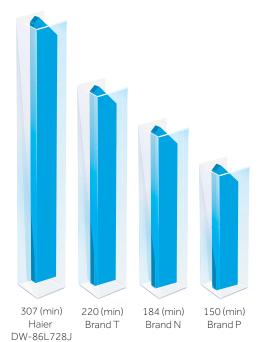
Extended Pull-up Time During A Power Failure

• Pull-up time measures the time taken for temperature to rise up (from -80°C to -50°C) at 25°C ambient when the power is interrupted

 Haier has the best pull-up time among the ULT freezers compared with competitors' largest volume product







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Patronus Touch Screen Series ULT Freezer



USB Interface

Access Security Swiping Card

The enhanced security card control can prevent discretional opening, thus protect your sample records.

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

UNIQUE INVENTORY MANAGEMENT SYSTEM(IMS)



4	Logout						Help
140	A7	A6.	A5	Α4	A3	A2	A1
177		-					
	B7	B6	85	B4	B3	B2	B1
18		100		2000		-	The p
		213		-			
5	C7	C6	C5	C4	C3	C2	C1
Qu		-					
d	D7	D6	D5	D4	D3	D2	D1
5				-	_		

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





Message and notepad function to transmit the information conveniently

Two Modes Selection

For customers who require the strictest tolerances, our high performance mode provides the tightest temperature uniformity. For most applications, our energy savings mode offers excellent temperature control, plus up to 10% savings on energy usage.

• 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

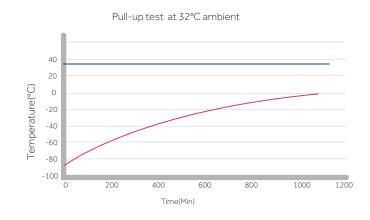
Energy Efficient

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

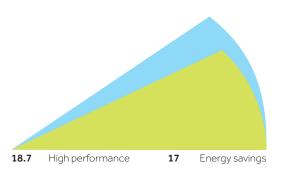


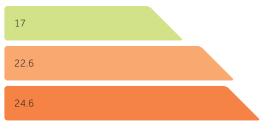
Extended Pull-up Time During A Power Failure

- Pull-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 Pull-up time among the ULT freezers compared with competitors' largest volume product



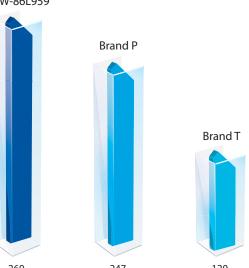






Average Power Consumption (KWh/day)





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Specification

	Model	DW-86L338	DW-86L388A	DW-86L486	DW-86L490	DW-86L628	DW-86L	.728	DW-86L828	DW-86L728J	DW-86L729	DW-86L959	DW-86W100	DW-86W420	
	Cabinet Type	Upright	Upright	Upright	Upright, double door	Upright	Uprigh	nt	Upright	Upright	Upright	Upright	Chest	Chest	
	Climate Class	N	N	N	N	N	N		Ν	N	N	N	N	N	
T	Cooling Type	Direct cooling	Direct coo	oling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling					
Technical Data	Defrost Mode	Manual	Manual	Manual	Manual	Manual	Manua	al	Manual	Manual	Manual	Manual	Manual	Manual	
Data	Refrigerant	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Fr	ee	CFC-Free	HC	CFC-Free	CFC-Free	CFC-Free	CFC-Free	
	Noise(dB)	50	50	49	49	49	50		50	50	49	49	49	50	
Performance	Cooling performance(°C)		-	86				,			-86		4		
	Temp Range(°C)		-40)~-86				-40~-86							
Control	Controller			<u> </u>	ocessor						Microprocessor				
Control	Display	LED	LED	LED	LED	LED	LED		LED		Touch Screen LCD	Touch Screen LCD		LED	
Flantsiani	Power Supply(V/Hz)		220~240/50		220~240/50 220/60				220~240/50 220/60		220~240/50	220~240/50	220~240/50 115/60		
Electrical Data	Power(W)	900 1000	1000	1000 1000 1200		1200 1200 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	7	9	7.5 12	7.5	
	Capacity(L/Cu.Ft)	338/11.9	388/13.7	486/17.1	490/17.3	628/22.2	728/25		828/29.2	728/25.7	729/25.7	959/33.9	100/3.5	420/14.8	
	Net/Gross Weight (kg) (approx) (lbs)		255/286 562.2/630.5	290/310 639.3/683.4	295/335 650.4/738.5	301/323 663.6/712.1	350/38 771.6/83		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 (mm) Dimension (in) (W*D*H)	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* 34.3*24.8		870*716*1310 34.3*28.2*51.6	766*716*1310 27.0*28.2*51.6	766*716*1310 27.0*28.2*51.6	1016*716*1310 40.0*28.2*51.6	470*450*480 18.5*17.7*18.9	1367*462*652 53.8*18.2*25.7	
Dimensions		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* 45.1*35.4		1145*980*1980 45.1*38.6*78.0	1041*980*1980 36.7*38.6*78.0	1046*998*1980 41.2*39.3*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 (mm) Dimension (in) (W*D*H)	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* 46.9*37.6°		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	10/20/2	20	8/20/20	10/22/22	10/22/22	8/18/18	12/24/48	6/12/24	
	High/Low Temp	Υ	Υ	Y	Y	Υ	Υ		Υ	Υ	Υ	Υ	Y	Y	
	Hot Condenser	Y	Υ	Y	Y	Υ	Υ		Υ	Υ	Υ	Υ	Y	Y	
	Power Failure	Υ	Υ	Υ	Y	Υ	Υ		Υ	Υ	Υ	Υ	Y	Υ	
Functions	High/Low Voltage	Υ	Υ	N/A	Υ	N/A	N/A		N/A	N/A	Υ	Υ	Υ	Υ	
Turicuons	Sensor Error	Υ	Υ	Υ	Υ	Υ	Υ		Υ	Υ	Υ	Υ	Υ	Υ	
	Low Battery	Y	Υ	Υ	Υ	Υ	Υ		Υ	Y	Υ	Υ	Y	Υ	
	High Ambient Temp	Y	Υ	Y	Y	Υ	Υ		Υ	Y	Y	Υ	Y	Y	
	Door Ajar	Y	Υ	Y	N/A	Υ	Υ		Υ	Y	Y	Υ	N/A	N/A	
	Caster	Y	Υ	Y	Y	Υ	Υ		Υ	Υ	Υ	Υ	Y	Υ	
	Foot	Y	Υ	Υ	Υ	Υ	Υ		Υ	Υ	Υ	Υ	Y	Υ	
	Test Hole	Y	Υ	Υ	Υ	Υ	Υ		Υ	Y,2	Y,2	Y,2	Y	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	
Accessories	USB Interface	N/A	N/A	Y	N/A	Υ	Υ		Υ	Υ	Υ	Y	N/A	N/A	
710003301103	Remote Alarm	Y	Υ	Y	Y	Υ	Υ		Υ	Υ	Y	Y	Y	Y	
	Temp Recorder	Optional	Optional	Optional	Optional	Optional	Option	nal	Optional	Optional	Optional	Optional	Optional	Optional	
	Rs232/485 Interface	Optional	Optional	Optional	Optional	Optional	Option	nal	Optional	Optional	Optional	Optional	Optional	Optional	
	CO2 Backup System	Optional	Optional	Optional	Optional	Optional	Option	nal	Optional	Optional	Optional	Optional	Optional	Optional	
	LN2 Backup System	Optional	Optional	Optional	Optional	Optional	Option		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	

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-86°C ULT Freezer ▲











Specification

ULT Model	Rack Model	Rack Description	Rack Dimensions(W*D*H)	Q'ty of Racks	Q'ty of Boxes	Q'ty o	f Samples
OLI Model	Rack Model	Rack Description	Rack Diffieltsions(W · D · H)	Q ty OI Racks	Q ty of boxes	9*9 box	10*10 box
	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
DW-86L338	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
DW-00L336	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
DW-00E300A	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
DW 002-00	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
	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
DW-86L490	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
DW-00L490	DCJ-44-A	Lower chamber: 2 inch stainless steel rack 4*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 rack 4*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
DW-00L020	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
DW-00L720	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
DW-00L020	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
DW-00L7283	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
DW-00L729	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
	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
DW-86L959	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

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-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



Padlock



Control panel

Drawer

Shelf

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

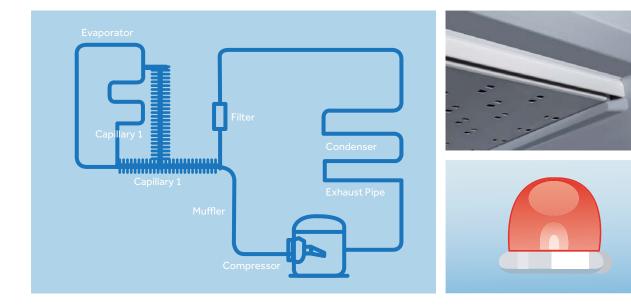
- Rated for -40°C at 32°C ambient
- Rapid cooling with shelf evaporator
- Improved temperature uniformity with dual capillary tube design at the range of -20 °C to -40°C
- Improved door seal design with two gaskets maintains cabinet temperature more efficiently
- Frost buildup is reduced
- Insulation thickness is 90 mm for additional robustness, less power consumption and more temperature retaining
- 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



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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
- 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 visual flashing light

Ergonomic Design

- Door lock for storage safety
- Storage drawer



DW-40L262 Pull down test at 25°C ambient

0.25 0.5 0.75 1.25 1.5 1.75 2 2.25 2.5 2.75 Time (H)

2.5 Time (H)

DW-40L262 Pull-up test at 25°C ambient







Liner

Reliability and Key Features

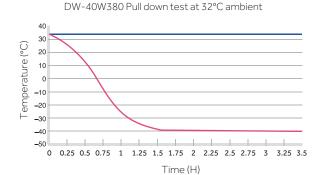
- High efficiency low temperature compressor with known field reliability,
- Chemically stable, CFC-free, commercially available and environmentally safe
- Permanently lubricated cooling fan for safety and longevity, high density insulation foam for stable and long term storage temperature
- Optimized 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 visual 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



0 0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6 6.5 7 7.5 Time (H)

DW-40W380 Pull-up test at 32°C ambient

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-40°C Deep Freezer



















Specification

	Model	DW-40L92	DW-40L188	DW-40L262	DW-40L348	DW-	40L508	DW-40L626	DW-40	W100	DW-40W255	DW-40W380	
	Cabinet Type	Upright	Upright	Upright	Upright, double door	Unright	double door	Upright	Che	254	Chest		Chest
	Climate Class	N	N	N	N	oprignt, v	N	N	N		N		N
	Cooling Type	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direc	cooling	Direct cooling	Direct	coolina	Direct cooling	Direc	ct cooling
Technical Data	Defrost Mode	Manual	Manual	Manual	Manual		anual	Manual	Manual		Manual		1anual
	Refrigerant	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC	C-Free	CFC-Free	CFC-	Free	CFC-Free	CF(C-Free
	Noise(dB)	40	43	44	45		45	49	≦.		≦ 45		≦ 45
Daufausasaa	Cooling per formance(°C)	-40	-40	-40	-40		40	-40	-4	0	-40		-40
Performance	Temperature Range(°C)	-10~-40	-10~-40	-10~-40	-20~-40)~-40	-20~-40	-20~		-20~-40		20~-40
0	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microp	rocessor	Microprocessor	Micropro	ocessor	Microprocessor	Microp	processor
Control	Display	LED	LED	LED	LED		.ED	LED	LE		LED		LED
	Power Supply(V/Hz)	220~240/50	220~240/50	220~240/50 115/60	220~240/50	220~240/50	208~230/60	220~240/50	220~240/50	115/60	220~240/50	220~240/50	0 208~230/60
Electrical Data		200	290	340 340	360	430	430	700	255	255	410	550	550
	Electrical Current(A)	2.1	2.5	3.2 4.9	2.9	2.9	2.9	8	5.0	5.0	4.2	5.1	5.1
	Capacity(L/Cu.Ft)	92/3.3	188/6.6	262/9.3	348/12.3	490	490/17.3		100/3.5		255/9.0	380	0/13.4
	Net/Gross Weight	46/51(kg)	63/71(kg)			298/314(kg)	43/46(kg)		70/82(kg)	82/	/89(kg)		
	(approx)	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)	94.8/10	94.8/101.4(lbs) 154/180.		180.8/	/196.2(lbs)
	Interior Dimension	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*45	57*625(mm)
	(W*D*H)	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	8.0*24.6(in)
Dimensions	Exterior Dimension	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*63	33*838(mm)
	(W*D*H)	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)		4.9*33.0(in)
	Packing Dimension	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*75	55*880(mm)
	(W*D*H)	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	9.7*34.6(in)
	Container load (20'/40'/40'H)	54/108/108	24/48/48	24/48/48	14/28/28	12/	12/24/24 12/24		54/108/162		62 24/54/81		/42/63
	High/Low Temperature	Y	Y	Y	Υ		Υ	Υ	Y		Y		Υ
	Remote Alarm	N/A	N/A	N/A	Υ		Υ	Υ	N/	Α	N/A	1	N/A
	Hot Condenser	N/A	N/A	N/A	N/A	1	I/A	Y	N/	N/A N/A		1	N/A
	Power Failure	N/A	N/A	N/A	Υ		Υ	Y	N/A N/A		N/A	1	N/A
Functions	High/Low Voltage	N/A	N/A	N/A	N/A	1	I/A	Υ	N/	Α	N/A	1	N/A
	Sensor Error	Y	Y	Υ	Υ		Υ	Y	Y	,	Y		Υ
	Low Battery	N/A	N/A	N/A	Υ		Υ	Υ	N/	A	N/A	1	N/A
	High Ambient Temp	N/A	N/A	N/A	Υ		Υ	Υ	N/	A	N/A	1	N/A
	Caster	Y	Υ	Y	Υ		Υ	Υ	N/	Α	N/A	1	N/A
	Foot	Y	Y	Υ	Υ		Υ	Υ	N/	Α	N/A	1	N/A
	Test Hole	N/A	N/A	Y	Y		Υ	Υ	Υ	,	Υ	1	N/A
Accessories	Drawers/Inner doors	3/-	7/-	7/-	12/-	1	0/-	3(Shelves)/4	/		/		/
	USB Interface	N/A	N/A	N/A	Optional	Ор	tional	N/A	N/	Α	N/A	1	N/A
	Temperature Recorder	N/A	N/A	N/A	Optional	Ор	tional	Optional	N/	A	N/A	1	N/A
Others	Certificate	CE	CE	CE	CE		CE	/	С	E	CE		CE

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Combined Refrigerator and Freezer

Approved by Uzbekistan MOH

• 520 units combined refrigerator and freezers (model: HYCD-282A) was approved by Uzbekistan MOH.



Refrigerator & Freezer Combination, Separate Controled

Excellent Performance

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

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

Specification

Cabinet Type		Model	HYCD-282	HYCD-282A				
Climate Class N Refrigertor:Forced air cooling Refrigertor:Forced air cooling Freezer: Direct cooling Freezer: -40		Cabinet Type	. 3	Upr	ight			
Defrost Mode			1.5					
Defrost Mode		C li T	Refrigertor:Forced air cooling	Refrigertor:Forced air cooling				
Defrost Mode Manual Manual Refrigerant CFC-Free CFC-Free CFC-Free Noise (dB) 43 43 43	Technical Data	Cooling Type	Freezer: Direct cooling	Freezer: Di	rect cooling			
Noise (dB)		Defrost Mode	Manual					
Cooling performance Coling performance Coling performance Temperature Range (C) 2-8/-2040 2-8/-2040		Refrigerant	CFC-Free	CFC-	Free			
Performance Temperature Range (C) 2-8/-2040 2-8/-2040 Control Controller Microprocessor Microprocessor Display LED LED Power Supply(V/Hz) 220-240/50 220-240/50 208-230/60 Power(W) 400 400 400 400 Electrical Current(A) 2.8 2.8 2.8 2.8 Refrigerator:185/6.5 Refrigerator:185/6.5 Refrigerator:185/6.5 Refrigerator:185/6.5 Refrigerator:185/6.5 Refrigerator:185/6.5 Refrigerator:185/6.5 Refrigerator:30.35.27(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) Refrigerator:05.5510*720(mm)			43	4	.3			
Controller		Cooling performance(°C)	Freezer:-40	Freez	er:-40			
Control Controller Microprocessor Microprocessor Display LED LED Power Supply(V/Hz) 220-240/50 220-240/50 208-230/60 Power(W) 400 400 400 400 Electrical Current(A) 2.8 2.8 2.8 2.8 Refrigerator:185/6.5 Refrigerator:185/6.5 Refrigerator:185/6.5 Refrigerator:185/6.5 Refrigerator:185/6.5 Refrigerator:185/6.5 Net/Gross Weight(approx) 320.0/352.7(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) Refrigerator:20.0/352.7(lbs) Refrigerator:605*510*720(mm) Refrigerator:605*510*720(mm) Refrigerator:605*510*720(mm) Refrigerator:20.0/352.7(lbs) Refrigerator:23.8*20.0*28.3(in) Refrigerator:23.8*20.0*28.3(in) Refrigerator:23.8*20.0*28.3(in) Refrigerator:23.8*20.0*28.3(in) Refrigerator:23.8*20.0*28.3(in) Refrigerator:23.8*20.0*28.3(in) Refrigerator:23.8*20.0*28.3(in) Refrigerator:20.3*18.3*17.3(in) Refrigerator:20.3*18.3*17.3(in) Refrigerator:20.3*18.3*17.3(in) Refrigerator:20.3*18.3*17.3(in) Refrigerator:20.3*18.3*17.3(in) Refrigerator:20.3*18.2*20.0*28.3(in) Refrigerator:20.3*18.3*17.3(in) Refrigerator:20.3*18.2*20.0*28	Performance		2~8/-20~-40	2~8/-2	20~-40			
Display		Controller	Microprocessor					
Power(W)	Control	Display	LED					
Electrical Current(A) 2.8		Power Supply(V/Hz)	220~240/50	220~240/50	208-230/60			
Electrical Current(A) 2.8	Flectrical Data		400	400	400			
Net/Gross Weight(approx) 145/160(kg) 145/160(kg) 320.0/352.7(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) Refrigerator: 605*510*720(mm) Freezer: 515*465*440(mm) Freezer: 515*465*440(mm) Refrigerator: 23.8*20.0*28.3(in) Freezer: 20.3*18.3*17.3(in) Freezer: 20.3*18.3*17.3(in) Freezer: 20.3*18.3*17.3(in) 736*660*1810(mm) 29.0*26.0*71.3(in) 29.0*26.0*71.3(in) 774*719*1920(mm) 774*719*1920(mm) 30.5*28.3*75.6(in) 30.5*28.3*75.6(in) 21/45/45 High/Low Temperature Y Y Y Functions Sensor Error Y Y Y Y Y Y Y Y Y	Liecti icai Data	Electrical Current(A)	2.8	2.8	2.8			
Net/Gross Weight(approx) Freezer: 97/3.4 Freezer: 97/3.4 145/160(kg) 145/160(kg) 320.0/352.7(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) Refrigerator: 605*510*720(mm) Freezer: 515*465*440(mm) Freezer: 515*465*440(mm) Refrigerator: 23.8*20.0*28.3(in) Freezer: 20.3*18.3*17.3(in) Freezer: 20.3*18.3*17.3(in) Freezer: 20.3*18.3*17.3(in) Freezer: 20.3*18.3*17.3(in) 736*660*1810(mm) 29.0*26.0*71.3(in) 29.0*26.0*71.3(in) 774*719*1920(mm) 774*719*1920(mm) 30.5*28.3*75.6(in) 30.5*28.3*75.6(in) 21/45/45 High/Low Temperature Y Y Y Functions Sensor Error Y Y Y Y Y Y Y Y Y		C (I (C . El)	Refrigerator:185/6.5	Refrigerat	or:185/6.5			
Net/Gross Weight(approx) 320.0/352.7(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) 320.0/352.7(lbs) Refrigerator: 605*510*720(mm) Freezer: 515*465*440(mm) Freezer: 515*465*440(mm) Refrigerator: 23.8*20.0*28.3(in) Refrigerator: 23.8*20.0*28.3(in) Freezer: 20.3*18.3*17.3(in) Freezer: 20.3*18.3*17.3(in) Freezer: 20.3*18.3*17.3(in) 736*660*1810(mm) 736*660*1810(mm) 29.0*26.0*71.3(in) 29.0*26.0*71.3(in) 29.0*26.0*71.3(in) 774*719*1920(mm) 30.5*28.3*75.6(in) 30.5*28.3*75.6(in) 21/45/45 High/Low Temperature Y Y Y Y Y Functions Sensor Error Y Y Y Y Y Y Y Y Y		Capacity(L/Cu.Ft)						
Dimensions		N. I.G. W. I.I.G.	145/160(kg)	145/1	60(kg)			
Interior Dimensions Freezer: 515*465*440(mm) Freezer: 515*465*440(mm) Refrigerator: 23.8*20.0*28.3(in) Refrigerator: 23.8*20.0*28.3(in) Freezer: 20.3*18.3*17.3(in) Freezer: 20.3*18.3*17.3(in) Freezer: 20.3*18.3*17.3(in) 736*660*1810(mm) 736*660*1810(mm) 29.0*26.0*71.3(in) 29.0*26.0*71.3(in) 29.0*26.0*71.3(in) 774*719*1920(mm) 774*719*1920(mm) 30.5*28.3*75.6(in) 21/45/45 Exterior Dimensions (W*D*H) 774*719*1920(mm) 774*719*192	Dimensions	Net/Gross Weight(approx)	320.0/352.7(lbs)	320.0/3	52.7(lbs)			
Interior Dimensions Freezer: 515*465*440(mm) Freezer: 515*465*440(mm) Refrigerator: 23.8*20.0*28.3(in) Refrigerator: 23.8*20.0*28.3(in) Freezer: 20.3*18.3*17.3(in) Freezer: 20.3*18.3*17.3(in) Freezer: 20.3*18.3*17.3(in) 736*660*1810(mm) 736*660*1810(mm) 29.0*26.0*71.3(in) 29.0*26.0*71.3(in) 29.0*26.0*71.3(in) 774*719*1920(mm) 774*719*1920(mm) 30.5*28.3*75.6(in) 21/45/45			Refrigerator: 605*510*720(mm)	Refrigerator:605	5*510*720(mm)			
Refrigerator: 23.8*20.0*28.3(in) Refrigerator: 23.8*20.0*28.3(in)		Interior Disconsions (M*D*II)	Freezer: 515*465*440(mm)	Freezer: 515*	465*440(mm)			
Exterior Dimensions(W*D*H) 736*660*1810(mm) 736*660*1810(mm) 736*660*1810(mm) 736*660*1810(mm) 736*660*1810(mm) 29.0*26.0*71.3(in) 29.0*26.0*71.3(in) 29.0*26.0*71.3(in) 774*719*1920(mm) 774*719*1920(mm) 30.5*28.3*75.6(in) 21/45/45 21/45/45 4 1 1 1 1 1 1 1 1 1		Interior Dimensions(W"D"H)	Refrigerator: 23.8*20.0*28.3(in)	Refrigerator: 23	.8*20.0*28.3(in)			
Packing Dimensions(W*D*H) 29.0*26.0*71.3(in) 29.0*26.0*71.3(in) 774*719*1920(mm) 774*719*1920(mm) 30.5*28.3*75.6(in) 30.5*28.3*75.6(in) 21/45/45 21/45/45 4 1 1 1 1 1 1 1 1 1				Freezer: 20.3	*18.3*17.3(in)			
Packing Dimensions(W*D*H) 29.0*26.0*71.3(in) 29.0*26.0*71.3(in) 774*719*1920(mm) 774*719*1920(mm) 30.5*28.3*75.6(in) 30.5*28.3*75.6(in) 21/45/45 21/45/45 4 1 1 1 1 1 1 1 1 1		F. +i Dii (\(\lambda \rangle \rangl	736*660*1810(mm)	736*660*1810(mm)				
Packing Dimensions(W*D*H) 774*719*1920(mm) 774*719*1920(mm) 774*719*1920(mm) 774*719*1920(mm) 30.5*28.3*75.6(in) 30.5*28.3*75.6(in) 21/45/45 Packing Dimensions(W*D*H) 21/45/45 21/45/45 Y Y Y Y Y Y Y Y Functions Sensor Error Y		Exterior Dimensions(W*D*H)						
30.5*28.3*75.6(in) 30.5*28		Dacking Dimensions/(M/*D*LI)	774*719*1920(mm)	774*719*1920(mm)				
High/Low Temperature		Packing Dimensions(W·D·H)	30.5*28.3*75.6(in)	30.5*28.3*75.6(in)				
Remote Alarm Y Y Power Failure Y Y Functions Sensor Error Y Y		Container load (20'/40'/40'H)	21/45/45	21/4	21/45/45			
Power Failure Y Y Functions Sensor Error Y Y		High/Low Temperature	Y	\				
Functions Sensor Error Y Y		Remote Alarm	Y	\	Y			
Taricatoris Consortation		Power Failure	Y	\	Y			
Law Battana	Functions	Sensor Error	Y	\	Y			
Low Battery		Low Battery	Y	`	Ý			
High Ambient Temp Y Y			Y	\	Y			
Caster Y Y		Caster	Y		Y			
Foot Y Y		Foot	Y	\	Y			
Accessories Test Hole Y Y	Accessories	Test Hole	Y	\	Y			
Shelves/Drawers 3/2 3/2		Shelves/Drawers	3/2	3,				
USB Interface Y Y		USB Interface	Y					
Others Certificate CE /	Others	Certificate	CE		/			

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Pharmacy Refrigerator ____

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



Medical Refrigerator for Pakistan Aids

• 1000 units pharmacy refrigerator (model: HYC-360) was successfully provided for the tender of China Ministry of Commerce for supporting Pakistan Poliomyelitis Prevention Project.

Reliability and Key Features

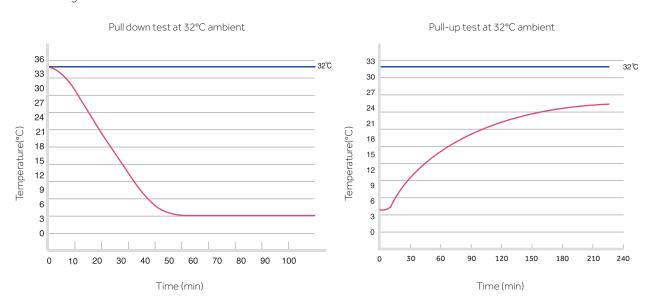
- High efficiency specialty compressor with known field reliability
- Permanently lubricated cooling fan for safety and longevity
- Forced-air cooling with optimized air distribution system designed to achieve maximum temperature uniformity and stability
- Optimized refrigeration system design for more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



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









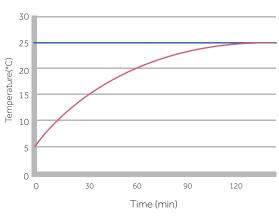


Safety

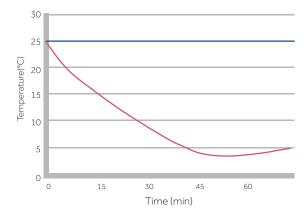
- Microprocessor control, digital display, temperature uniformity within 3°C
- Malfunction alarms include high/low temperature, door ajar, sensor error, power failure, remote alarm interface.



HYC-390 Pull-up test at 25°C ambient



HYC-390 Pull down test at 25°C ambient



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-118A





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 ±3°C
- Adjustable temperature range 2 ~8°C
- \bullet Microprocessor control, digital display, and temperature adjustment with an increment of 1 °C
- Designed for ambient temperature 10~32°C with humidity below 60%

Safety

- Equipped with a complete temperature alarm system featuring audible buzzer and visual 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























Specification

	Model	HYC-68	HYC-68	8A	HYC-118	HYC-118A	<u>H</u>	YC-260		HYC	C-360	HYC-290	HYC-390		HYC-610		HYC-940	HYC-1378
	Cabinet Type	Upright, foam door	Upright, glass	s door	Upright, foam door	Upright, glass door	Upright	t, single doc		Upright, s	ingle door	Upright, single door	Upright, single door	Uprigl	nt, single do	or	Upright, double door	Upright, double door
	Climate Class	N	N		N	N		Ν			N	N	N		ST		N	N
Technical	Cooling Type	Forced air cooling	Forced air co	ooling	Forced air cooling	Forced air cooling	Force	d air cooling		Forced a	air cooling	Forced air cooling	Forced air cooling	Force	ed air coolir	ıg	Forced air cooling	Forced air cooling
Data	Deforst Mode	Auto	Auto		Auto	Auto		Auto		Aı	uto	Auto	Auto		Auto		Auto	Auto
	Refrigerant	CFC-Free	CFC-Fre	e	CFC-Free	CFC-Free		FC-Free		CFC	-Free	CFC-Free	CFC-Free		CFC-Free		CFC-Free	CFC-Free
Performance	3	30	30		30	30		44			13	43	43		45		42	43
Terrormane	Temperature	2-8	2-8					2-8		2	-8	2-8	2-8		2-8		2-8	2-8
Control	Range(°C)				2-8	2-8								N.41				
	Controller	Microprocessor	Microproce		Microprocessor	Microprocessor		oprocessor		<u> </u>	ocessor	Microprocessor	Microprocessor	IMICI	roprocesso	r	Microprocessor	Microprocessor
	Display	LED	LEI	D	LED	LED		LED		L	ED	LED	LED		LED		LED	LED
Electrical	Power Supply(V/Hz)	220~240/50	220~240/50	115/60	220~240/50	220~240/50	220~240/5	0 208~230/60	115/60	220~240/50	208~230/60	220~240/50/60	220~240/50/60	220~240/50	208~230/60	115/60	220~240/50	220~240/50
Data	Power(W)	84	84	84	160	160	340	340	340	430	430	340	380	490	560	560	900	800
	Electrical Current(A)	0.65	0.65	0.65	1.05	1.05	2.6	2.6	3.6	3.5	3.5	2.2	2.4	4	4	7.5	5.5	4.2
	Capacity(L/Cu.Ft)	68/2.4	68/2.4		118/4.2	118/4.2 260/9.2			360	/12.7	290/10.2	390/12.7	6	510/21.6		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(46/51(kg) 101.4/112.4(lbs)	41/46(kg) 90.4/101.4(lbs)		/100(kg))/220.5(lbs)		99/114(kg) 218.3/251.3(lbs)		105/125(kg) 231.5/282.2(lbs)	125/150(kg) 275.6/330.7(lbs))4/227(kg) 7/500.4(lbs	;)	227/279(kg) 500.4/615.1(lbs)	310/360(kg) 683.4/793.7(lbs)
	Interior Dimensions	415*385*505	415*385*		512*415*638	512*415*638		*460*1065			50*1340	530*555*1080	530*555*1380	680	*640*1400)	1030*590*1425	1320*700*1500
Dimensions	(W*D*H)(mm)(in)	16.3*15.2*19.9	16.3*15.2*		20.2*16.3*25.1	20.2*16.3*25.1		21.7*18.1*41.9 620*655*1720			8.1*52.8	20.9*21.9*42.5	20.9*21.9*54.3		3*25.2*55.1		40.6*23.2*56.1	52.0*27.6*59.1
	Exterior Dimensions (W*D*H)(mm)(in)	495*580*660 19.5*22.8*26.0	495*580*6 19.5*22.8*		597*645*835 23.5*25.4*32.9	597*645*835 23.5*25.4*32.9		*655*1720 *25.8*67.7			55*1995 5.8*77.0	665*710*1665 26.2*28.0*65.6	665*710*1965 26.2*28.0*77.4		*840*1945 7*33.1*76.6		1130*755*1980 44.5*29.7*78.0	1440*910*1980 56.7*35.8*78.0
	Packing Dimensions (W*D*H)(mm)(in)	522*620*690	522*620*	690	675*680*930	675*680*930	700*715*1810			700*71	15*2080 8.1*81.9	735*800*1800 28.9*31.5*70.9	735*800*2100 28.9*31.5*82.7	875	*937*2097 1*36.9*82.6	7	1250*850*2130 49.2*33.5*83.9	1600*1010*2100 63.0*39.8*82.7
	Container load	20.6*24.4*27.2	20.6*24.4*		26.6*26.8*36.6 48/102/102	26.6*26.8*36.6 48/102/102		*28.1*71.3 4/48/48			18/48	16/32/32	16/32/32		2/26/26)	8/18/18	6/12/12
	(20'/40'/40'H)		100/220/2	220			22							1				0/12/12
	High/Low Temperature	Y N/A	N/A		Y N/A	Y N/A		Y			Y	Y	Y		Y 		Y	Y
	Remote Alarm Power Failure	N/A	N/A		N/A	N/A		Y			Y	Y	Y		Y		Y	Y
Functions	Sensor Error	Y	Y		Y	Y		Y			Y	Y	Y		Y		Y	Y
	Low Battery	N/A	N/A		N/A	N/A		Υ			Υ	Υ	Υ		Υ		Υ	Υ
	Door Ajar	Y	Y		Y	Y		Υ			Υ	Y	Y		Υ		Y	Y
	Caster	N/A	N/A		N/A	N/A		Υ			Y	Y	Y		Υ		Y	Y
	Foot	Y	Y		Y	Y		Υ			Υ	Y	Υ		Υ		Y	Y
	Test Hole	N/A	N/A		Υ	Y		N/A		Ν	I/A	Y	Y		N/A		N/A	N/A
Accessories	Shelves/Basket	2/-	2/-		3/-	3/-		4/-		5	/-	4/1	6/1		6/-		12/-	12/-
	USB Interface	N/A	N/A		N/A	N/A		N/A		N	I/A	Y	Y		N/A		N/A	N/A
	Temperature Recorder	N/A	N/A		N/A	N/A		N/A		Ν	I/A	N/A	N/A		N/A		N/A	N/A
Others	Certificate	CE	CE		CE	CE		CE		(Œ	/	/		/		CE	CE

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Blood Bank Refrigerator

Haier blood bank refrigertators 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.









The Haier BBR series provides two styles to storage systems: basket-type and rawer 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 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°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





Lights when display indicates upper sensor temperature

Lights when display indicates lower sensor temperature

Both lighted displays the average temperature of upper and lower sensors

Lighted to indicate power supply connection, flashes to indicate power supply failure

indicate alarming

status



To cancel buzzing

To adjust the displayed temperature

To test alarm function

To calibrate upper sensor, lower sensor and control sensor

To select sensor to calibrate

To cancel calibration

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 fails2.Condenser sensor fails3.Ambient sensor fails4.Heat exchanger sensor fails
Low Battery	Battery capacity runs low or battery switch is not turned on
Door Ajar	Door open period exceeds 600s

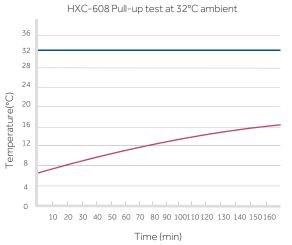




The standard drawers can be optionally fitted with adjustable dividers. This guarantees neatly and clearly arranged storage of your goods.







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Blood Bank Refrigerator

















Specification

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	Model	HXC-158	HXC-358	HXC-608	HXC-1308	HXC-158B	HXC-358B	HXC-608B	HXC-1308B
	Туре		Basket-Type				Draw	er-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
Technical	Deforst Mode	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto
Data	Refrigerant	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free	CFC-Free
	Noise(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
CHOITHANCE	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LED	LED	LED	LED	LED	LED	LED	LED
Control	Power Supply(V/Hz)	220~240/50	220~240/50 208~230/60	220~240/50 208~230/6	220~240/50	220~240/50	220~240/50	220~240/50	220~240/50
	Power(W)	400	460 560	490 560	850	400	560	560	850
Electrical	Electrical Current(A)	2.6	3 3	4 4	4.2	2.6	3	4	4.2
Data	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)	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)
Dimensions	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
	High/Low Temperature	Y	Υ	Y	Υ	Υ	Y	Y	Y
	Power Failure	Y	Y	Y	Υ	· Y	Y	Y	Y
F ations	Sensor Error	Y	Y	Y	Y	Y	Y	Y	Y
Functions	Low Battery	Y	Y	Y	Y	Y	Y	Y	Y
	Door Ajar	Y	Y	\ \ \	\ \ \ \	Y	Y	Y	Y
	Remote Alarm	Y	Y	Y	Y	Υ	Y	Y	Y
	Caster	Y	Y	Y	Y	Y		Y	
		Y	Y	Y	Y		Y	· · · · · · · · · · · · · · · · · · ·	Y
	Foot	Y	Y	·	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Y	Y	Y
A	Test Hole	Y	Y	Y (2.4	Y 12/40	Y	Y	Y	Y
Accessories	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
	Temperature Recorder	Optional	Υ	Y	Y	Y	Y	Y	Y
Others	Certificate	CE	CE	CE	CE	CE	CE	CE	CE

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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 enviorment between -2°C and 43°C with the humidity up to 80%.

- 2008, Haier Blood Transportation Box, won the bid of UNOPS/NACO/BT-B/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 Redcrescent.



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 ± 1.5 °C. At 4 °C setting, the chamber temperature range is2.5°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 realtime 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			
	Cabinet Type	Chest			
Technical Data	Climate Class	Т			
	Cooling Type	Forced air cooling			
	Defrost Mode	Manual			
	Refrigerant	CFC-Free			
Performance	Temperature Range(°C)	4±2 or22±2			
renormance	Ambient Temperature(°C)	-2 to 43			
Control	Controller	Microprocessor			
Control	Display	LED			
	Power Supply(V/Hz)	DC12/24V; AC 100~240V/50-60Hz Automatic power supply selection			
Electrical Data	Power(W)	DC75;AC105			
	Electrical Current(A)	6AatDC12V,3AatDC24V, 1AatAC100V,0.45AatAC240V			
	Capacity(L/Cu.Ft)	80/2.8			
	Blood Storage Capacity(450ml blood bags)	48			
	Net/Gross Weight(approx)	58/65(kg) 127.9/143.3(lbs)			
Dimensions	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			
	High/Low Temperature	Y			
Franctions.	Power Failure	Y			
Functions	Sensor Error	Y			
	High Ambient Temp	Y			
A	Caster	Y			
Accessories	Baskets	4			
Others	Certificate	CE			

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Vaccine & Icepack Freezer who Approved

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

Refrigeration System

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

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 HBD-286 HBD-116 HBD-286 Pull down test at 43 °C ambient HBD-286 Pull-up test at 43 °C ambient 10 0 -10 05 10 15 20 25 30 35 40 45 50 55 60 05 10 15 20 25 30 35 40 45 50 55 60

WHO/UNICEF qualified supplier

- From 2004 until now, Haier awarded the tender from India MOHFW, WHO, UNICEF, Africa market to supply about 50,000 units icepack freezers and ice-lined refrigerators.
- 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.
- 2011, Haier got the LTA of Ice-Lined Refrigerator and Vaccine Freezer. Haier is the long term supplier of UNICEF.



	Model	HBD	-116	HBD-2	286	
Cabinet Type		Che	est	Chest		
	Ambient Temperature	<43°C		<43°C		
	Cooling Type	Direct cooling		Direct cooling		
Technical Data	Defrost Mode	Mar	nual	Manual		
	Refrigerant	CFC-	Free	CFC-Free		
	Noise(dB)	4	3	44		
Performance	Temperature Range(°C)	-15-	25	-15~-25		
Control	Controller	Mech	anical	Mechanical		
Control	Display	LCD		LCD		
	Power Supply(V/Hz)	220~240/50	208~230/60	220~240/50		
	Power(W)	138	166	185		
EL ID .	Electrical Current(A)	1.05	1.65	1.3		
Electrical Data	Power Consumption: stable running(KWh/24h)	3.01	3.53	3.48	3	
	Power Consumption: cool down test(KWh/24h)	3.25	3.47	3.71	1	
	Holdover Time at 32°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)		
	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)	57/61(kg) 125.7/134.5(lbs)		79/85(kg) 174.2/187.4(lbs)		
Dimensions	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		
	Foot	Y		Y		
Accessories	Baskets	2		3		
Others	Certificate	CE,WH	O/PQS	CE,WHO/PQS		

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Ice-Lined Refrigerator who Approved

Refrigeration System

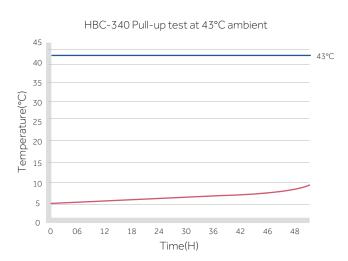
- Optimized refrigeration system design
- Microprocessor control
- Built-in ice packs maintain 2°C to 8°C for 25 hours at 43°C ambient
- CFC-free high density foam insulation
- Complied with WHO/UNICEF standards

Temperature Control

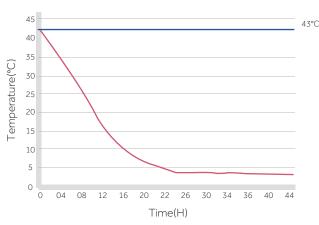
- Digital temperature display
- Adjustable control range of 2°C to 8°C

Ergonomic Design

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



HBC-340 Pull down test at 43°C ambient





Inside structure



Interior icepack



Lock



Controller



	Model	HBC-70		HBC-110	НВС	-200	HBC-340
	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
Technical Data	Defrost Mode	Au	ıto	Auto	Auto		Auto
	Refrigerant	CFC-Free		CFC-Free	CFC-Free		CFC-Free
	Noise(dB)	43		43	44		42.5
Performance	Temperature Range(°C)	2	-8	2-8	2-8		2-8
-	Controller	Micropr	ocessor	Microprocessor	Microprocessor		Microprocessor
Control	Display	LO	CD	LCD	LCD		LCD
	Power Supply(V/Hz)	220~240/50	208-230/60	220~240/50	220~240/50	208-230/60	220~240/50
Electrical Data	Power(W)	150	177	155	194	226	264
	Electrical Current(A)	1.1	1.4	1.2	1.4	1.53	2.1
	Power Consumption: stable running(KWh/24h)	0.64	1.1	1.2	1.62	1.5	2.06
	Power Consumption: cool down test(KWh/24h)	2.4	2.4	1.28	1.52	1.52	2.13
	Holdover Time at 43°C	more than 25hrs		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
5	Gross Volume(L/Cu.Ft)	71/2.5		110/3.9	198/7.0		340/12.0
Dimensions	Net/Gross Weight(approx)	75/79(kg) 165.3/174.2(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	Υ		Y	Y		Υ
	Power Failure	Υ		Y	Y		Υ
	Sensor Error	Y		Y	Y		Υ
Accessories	Foot	`	Y	Y	Y		Υ
Accessories	Baskets		3	5	9		11
Others	Certificate	CE,WHO/PQS		CE,WHO/PQS	CE,WHO/PQS		CE,WHO/PQS

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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, UNICE, 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

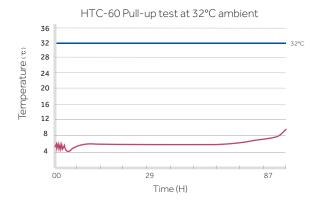
Ergonomic design

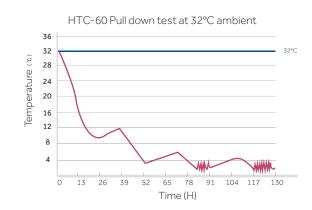
- Solar-driven, green and environment friendly compared with battery-powered ones
- External battery can be connected to the unit under special or emergency situation flexibly
- Temperature controller is easy to view, auxiliary battery for display without sunshine
- Low noise



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.





WHO/UNICEF qualified supplier

• Haier successfully won the UNICEF tender of 100 units SDD Refrigerator HTC-60 for aiding North Korea project and dispatched engineers to DPR Korea for the taining.

	Model	HTC-60		
	Cabinet Type	Chest		
Technical Data	Ambient Temperature(°C)	10°C-32°C		
	Cooling Type	Forced air cooling		
recriffical Data	Defrost Mode	Auto		
	Refrigerant	CFC-Free		
	Noise(dB)	42		
Performance	Temperature Range(°C)	2-8		
Control	Controller	Microprocessor		
Control	Display	LCD		
	Power Supply(V)	12		
	Power(W)	90		
	Electrical Current(A)	4		
	Power Consumption:stable running(KWh/24h)	0.49		
Electrical Data	Power Consumption: cool down test(KWh/24h)	0.68		
Liectrical Data	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		
	Vaccine Storage Capacity(L/Cu.Ft)	21/0.7		
	Gross Volume(L/Cu.Ft)	60/2.1		
	Net/Gross Weight(approx)	84/100(kg) 185.2/220.5(lbs)		
Dimensions	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		
	Solar Parel (L*W*D)	1466*660*38.1(mm)		
	High/Low Temperature	Υ		
Functions	Power Failure	Y		
Functions	Sensor Error	Υ		
	Low Battery	Υ		
Accessories	Baskets	2		
Others	Certificate	CE,WHO/PQS		

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Walk-In Cold/Freezer Room WHO Approved

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.



Туре	Freezer Room	Cold Room	Cold Room	Cold Room	Cold Room	Cold Room		d/Freezer 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					0/50	
Power(W)	2630	1300	1750	1750	2520	2610	2520	2010
Refrigeranting Output(W)	2060	1560	2230	2230	2950	3250	2950	1580
Capacity(m³)	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
- $\bullet\,$ 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
- USB interface is equipped



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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.





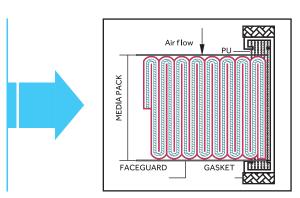
304 stainless steel operation platform and internal wall

- 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



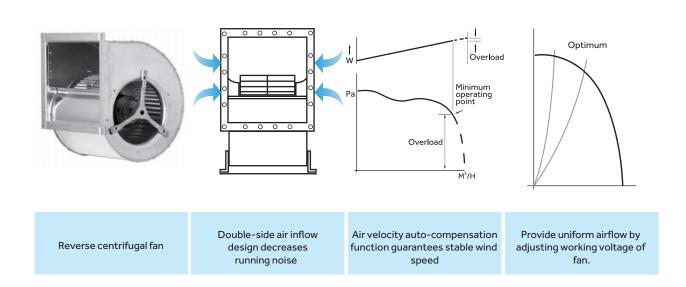
Ultra Low Penetration Air Filtration System

- 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
- Self cooling system reduces energy consumption while enhancing reliability



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Biological Safety Cabine



Digital microprocessor control system

- LCD display
- Real-time display of key parameters: downflow velocity, inflowvelocity, 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

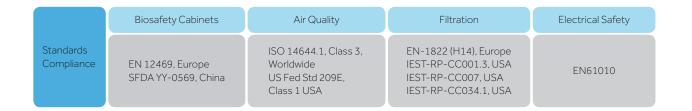
- The 10° angled viewing window improves comport and alleviates fatigue of operator
- 75mm adjustable supporter ensures correct height for different users
- UV sterilization reservation function
- Lamp is set behind supporter, making eyes more comfortable
- Automatically remind when filter lifetime less 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

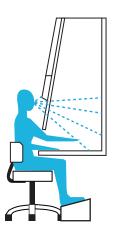
Interlock Safety Protection

- 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











	Model	HR30-IIA2	HR40-IIA2	HR60-IIA2				
Technical Data	Туре	Class Type A2						
	Working Voltage& Frequency	220V±10%,50±1 Hz						
	Power(VA)	1300						
	Power of Blower(W)	350						
	Airflow Circulation	70% downflow, 30% exhaust						
Electrical Data	Main Filter Typical Effiency	ULPA,99.9995%@0.12µm						
	Exhaust Filter Typical Effiency	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				
	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)	1170*930*1700(mm) 46.1*36.6*67.0(in)	1430*930*1700(mm) 56.3*36.6*67.0(in)	2000*930*1700(mm) 78.7*36.6*67.0(in)				
	Supporter							
	Container load (20'/40'/40'H)	8/18/18	7/16/16	6/13/13				
Function	Alarm	Sound and Flash						
Others	Certificate	SFDA EN12469,SFDA,CE SFDA						



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Haier Bio-Medical Models Line-up

-150°C Cryo

Freezer -86 °C ULT Freezer





-40°C Deep Freezer



Combined Refrigerator and Freezer



Pharmacy Refrigerator





Blood Bank Refrigerator



Vaccine & Icepack Freezer



Ice-lined Refrigerator



SDD Vaccine Refrigerator



Mobile BBR



Biological Safety Cabniet



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