



Haier

NHS Supply Chain Approved Supplier



Haier Biomedical



PATHOLOGY FRAMEWORK



2020-2022



**CATEGORY 5 | LAB EQUIPMENT AND
TEMPERATURE MONITORING**



www.haierbiomedical.co.uk



Intelligent Protection
of Life Science



Haier Biomedical

PATHOLOGY FRAMEWORK SOLUTIONS






Delivering of high-quality products and value for money to the NHS

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Haier Group

Haier Group is a leading global provider of better-life solutions, and its home appliances business brands have led the way for eleven consecutive years. In this technology driven era and the Internet of Things (IoT), Haier transformed from a traditional manufacturing enterprise into a cutting-edge, win-win IoT community ecology, taking the lead in igniting the Internet of Things economy. Currently, the Haier Group owns Haier, Casarte, GE Appliances, Fisher & Paykel, Hoover Candy, AQUA and Leader as its smart home appliances brands. In the IoT service area it's RRS, Haier Consumer Finance, COSMOPlat and Shunguang and Haier Bros in the cultural and creative industry. The global brand matrix reflects the strategy of "Smart Home Customization" in other words, a smart home customized for a better life.

Worldwide Network	 Trading Company	 R&D Centers	 Manufacturing	 Industrial Parks	 Sales Network
Global	66	10	108	24	143330

Haier Biomedical

Haier Biomedical, headquartered in Qingdao, was founded to focus on design, manufacturing, marketing and sales of low temperature storage equipment for biomedical samples.

Operating on a global scale, Haier Biomedical provides the world's only complete storage solutions for a range of applications, including biological sample storage, blood management, vaccines, medical products and reagent storage across multiple sectors like pharma, academia, biotech and within medical/clinical arenas.

Haier Biomedical's solutions can be found in many prestigious and leading organizations in the UK, Europe, the America's, Africa, the Middle East and across the Asia Pacific. Furthermore, significant investment into the development and solution for solar-powered refrigeration units for areas that lack constant electric power supply has significantly changed the landscape in solving the cold chain for remote communities.

Haier Biomedical successfully creates a new synergy by combining its manufacturing with IoT-based biological and medical sciences and practices. The company is the driving force of innovation in product design and application. Its low-temperature storage equipment works with IoT-based technology to make it possible for product real-time monitoring and tracking, intelligent vaccination, and precise blood management. Haier Biomedical leads a new revolution in traditional manufacturing as well as innovative technology development.

Haier Biomedical's complete cold chain equipment and services are currently used in more than 120 countries.

Haier Biomedical UK Limited

Haier Biomedical cold storage solutions have been sold in the UK since 2008, with thousands of units installed across the country. The field-based sales team supports customers directly and throughout a network of channel partners throughout the UK. The office is located in Surrey and warehousing in northern and southern regions.

- NHS Supply Chain approved*
- Local sales and technical support
- UK warehousing and logistics
- Extensive stock of service parts
- Fully-trained service team and engineers

The NHS is over 70 years old and I take huge pride in the fact that the NHS represents a fair and equal policy on the provision of healthcare in the UK, so different from other areas in the world.

We fully appreciate the increased pressure this organisation is under and through the framework agreement¹, Haier Biomedical will endeavour to ensure our products are fit for purpose and priced competitively to help drive savings and improve efficiencies.

Richard Jafrato
General Manager
Haier Biomedical UK

Reference:

Framework agreement no. FAG000017188 for the supply of Pathology and Point of Care Testing, Associated Equipment, Instruments, Consumables, Accessories and Managed Services.



Providing End-to-End Solutions



Providing Complete Life-Cycle Customer Service Solutions

Quality Management

Haier Biomedical's products are manufactured within state-of-the-art production facilities which are ISO 9001, ISO13485 and ISO 14001 accredited. All products carry at least a 2-year manufacturer's warranty on parts and labour warranty and we guarantee the availability of spare parts for a minimum of 10 years.



Technical Support and After Sales Service

Haier Biomedical has local sales and service support located across the UK and a network of distributors, who share the Haier philosophy and our commitment to customer satisfaction. From initial sales to installation and after sales service, our staff work together to ensure the highest quality and customer satisfaction.

To provide the best service to our customers we can deliver on-site product training to product users to ensure they get the best possible performance from their Haier Biomedical

equipment. Transferring knowledge from our experienced professionals to our partners and end-users is an essential step in providing the highest of standards.

Our service department hold stock of common parts and can provide a range of breakdown and service contract options including calibration and temperature mapping.

Wireless Monitoring Solutions

Ensuring vaccines, reagents and biological samples such as tissue, blood and stem cells are stored at the correct temperature and compliant with relevant protocols is essential within both research and clinical environments. We offer a simple, cost-effective and flexible solution which doesn't require IT, working on roaming GPRS to ensure reliability.



Haier Biomedical Pathology Product Solutions



✓ *Blood Bank Refrigerators*

✓ *Transport Cooler*

✓ *Biomedical Freezers (-40°C)*

✓ *Low Energy Temperature Freezers (-80°C)*

✓ *Pharmacy Refrigeration (2-8°C)*

✓ *Laboratory Refrigeration*

✓ *ATEX Rated Sparkfree Refrigeration*

✓ *Clean Air Cabinets*

✓ *Wireless Temperature Monitoring*

✓ *Case Study*

Blood Bank Refrigerators

Haier Biomedical 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. Built and compliant to BIS 4376-1: 1991.



HXC-1308



HXC-1308B

Product Features

Safe and Reliable

- Microprocessor controlled forced-air cooling system with heat compensation system
- Digital temperature display for upper and lower sections in chamber with 0.1°C resolution
- Standard temperature recorder
- Built-in battery backup to display temperature in event of power failure
- Remote alarm contacts and USB port
- Multiple alarms including high/low temperature, power failure, sensor error and low battery charge

Ergonomic Design

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



HXC-1369T

HXC-629T

HXC-429T

HXC-149T

Product Advantages



Control Interface

- The simple and intuitive high-definition LCD touch screen can display temperature graph, working status, events and alarm record.



Real-time Control of Internal Temperature

- A dual control system of six high-precision sensors and mechanical thermostat ensures the temperature inside the cabinet is maintained at 4°C +/- 1°C.



Stable and Reliable Operation

- The refrigeration system is powered with a high-quality, energy-efficient inverter compressor and variable speed fan motors. Temperature control responds quickly and reliably for a more uniform temperature using less power and lower noise.



Multiple Safety Protection

- Multiple alarms include high and low temperature, power failure, door ajar, sensor failure, and low battery. Sound buzzer, visual flashing light and remote contacts are standard alarm features. Built-in battery provides power to the alarm system in the event of a mains power failure.
- Optional fingerprint and standard NFC swipe card module.



HXC-1369

HXC-629

HXC-429

HXC-149

Product Advantages



With Multiple Temperature Control to Guarantee Constant and Precise Temperature

- The inside temperature is constant within $4\pm 1^{\circ}\text{C}$, the digital temperature display resolution at 0.1°C .
- Equipped with 6 high-precision sensors and a mechanical thermostat which enables more accurate air cooling and temperature control to ensure uniform temperature inside the unit, maintained within the specified temperature range. The multi-layer inner door design reduces thermal loss after door openings and further ensures the temperature stability inside the cabinet.



With Multiple Safety Guarantees to Provide Worry-Free Service

- Equipped with complete alarm function, including alarm on high and low temperature, power failure, door opening, sensor failure, and low battery. Two alarm modes including audible buzzer and visual lights with remote alarm interface.
- Back-up battery design ensures alarm and temperature readings continue to operate in the event of a mains power failure.
- NFC swipe card module, with safer storage management.



Standard USB Interface

- Ability to record temperature data for ten years using the USB interface, an optional disc temperature recorder is also available



Specifications

Model		HXC-149T	HXC-429T	HXC-629T	HXC-1369T	
Technical Data	Type	Drawer-Type				
	Climate Class	N	N	N	N	
	Cooling Type	Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling	
	Defrost Mode	Auto	Auto	Auto	Auto	
	Refrigerant	R600a	R600a	R600a	R600a	
	Sound level(dB(A))	39	40	40	41	
Performance	Temperature Range(°C)	4±1	4±1	4±1	4±1	
	Ambient Temperature (°C)	16-32	16-32	16-32	16-32	
Control	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	
	Display	LCD Touchscreen	LCD Touchscreen	LCD Touchscreen	LCD Touchscreen	
Electrical Data	Power Supply(V/Hz)	220-240/50/60	220-240/50/60	220-240/50/60	220-240/50/60	
	Power(W)	215	245	255	320	
	Electrical Current(A)	1.3	1.5	1.5	2	
Dimensions	Capacity(L/Cu.Ft)	149/5.3	429/15.1	629/22.2	1369/48.3	
	Blood Storage Capacity (450ml blood bags)	60	195	312	624	
	Net/Gross Weight(approx)	(kg)	108/136	182/217	212/252	380/445
		(lbs)	237.6/299.2	400.4/477.4	466.4/554.4	836/979
	Interior Dimensions (W*D*H)	(mm)	505*560*610	505*680*1315	645*680*1455	1425*680*1455
		(in)	19.7*32.3*23.8	19.7*26.5*51.3	25.2*26.5*56.7	55.6*26.5*56.7
	Exterior Dimensions (W*D*H)	(mm)	625*820*1150	625*940*1830	765*940*1980	1545*940*1980
		(in)	24.4*30.2*44.9	24.4*36.7*71.4	29.8*36.7*77.2	60.3*36.7*77.2
Packing Dimensions (W*D*H)	(mm)	720*920*1220	725*985*1940	875*995*2090	1610*995*2090	
	(in)	28.1*35.9*47.6	28.3*38.4*75.7	34.1*38.8*81.5	62.8*38.8*81.5	
Container load (20'/40'/40'H)		18/38/76	18/35/35	12/26/26	7/14/14	
Alarms	High/Low Temperature	Y	Y	Y	Y	
	Power Failure	Y	Y	Y	Y	
	Sensor Error	Y	Y	Y	Y	
	Low Battery	Y	Y	Y	Y	
	Door Ajar	Y	Y	Y	Y	
	Remote Alarm	Y	Y	Y	Y	
Accessories	Caster	4	4	4	4	
	Foot	2	2	2	2	
	Porthole	Y	Y	Y	Y	
	Baskets	6	15	24	48	
	Shelves/Drawers/Inner doors	0/2/0	0/5/0	0/6/0	0/12/0	
	USB Interface	Y	Y	Y	Y	
	Temperature Recorder	Y	Y	Y	Y	
Others	Certification	CE , UL	CE , UL	CE , UL	CE , UL	



HXC-149	HXC-429	HXC-629	HXC-1369
Basket-Type			
N	N	N	N
Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling
Auto	Auto	Auto	Auto
R600a	R600a	R600a	R600a
39	40	40	41
4±1	4±1	4±1	4±1
16-32	16-32	16-32	16-32
Microprocessor	Microprocessor	Microprocessor	Microprocessor
LED	LED	LED	LED
220-240/50/60	220-240/50/60	220-240/50/60	220-240/50/60
215	245	255	320
1.3	1.5	1.5	2
149/5.3	429/15.1	629/22.2	1369/48.3
60	195	312	624
97/125	169/204	187/217	345/410
213.4/ 275	371.8/448.8	411.4/477.4	759/902
505*560*610	505*680*1315	645*680*1455	1425*680*1455
19.7*32.3*23.8	19.7*26.5*51.3	25.2*26.5*56.7	55.6*26.5*56.7
625*820*1150	625*940*1830	765*940*1980	1545*940*1980
24.4*30.2*44.9	24.4*36.7*71.4	29.8*36.7*77.2	60.3*36.7*77.2
720*920*1220	725*985*1940	875*995*2090	1610*995*2090
28.1*35.9*47.6	28.3*38.4*75.7	34.1*38.8*81.5	62.8*38.8*81.5
18/38/76	18/35/35	12/26/26	7/14/14
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
4	4	4	4
2	2	2	2
Y	Y	Y	Y
6	15	24	48
2/0/2	5/0/5	6/0/6	12/0/12
Y	Y	Y	Y
Y	Y	Y	Y
CE, UL	CE, UL	CE, UL	CE, UL

Product appearance and specifications are subject to change without notice



Specifications

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



HXC-158B	HXC-358B	HXC-608B	HXC-1308B
Drawer-Type			
ST	ST	ST	N
Forced air cooling	Forced air cooling	Forced air cooling	Forced air cooling
Auto	Auto	Auto	Auto
CFC-Free	CFC-Free	CFC-Free	CFC-Free
42	43	43	45
4±1	4±1	4±1	4±1.5
10-38	10-38	10-38	16-32
Microprocessor	Microprocessor	Microprocessor	Microprocessor
LED	LED	LED	LED
220~240/50/60	220~240/50/60	220~240/50/60	220~240/50
350	460	490	850
2.6	3	3.5	4.2
158/5.6	358/12.7	608/21.5	1308/46.2
84	200	360	720
113/126	165/181	211/234	335/385
249.1/277.8	363.8/399.0	465.2/515.9	738.5/848.8
460*370*950	620*490*1160	680*640*1400	1320*700*1500
18.1*14.6*37.4	24.4*19.3*45.7	26.8*25.2*55.1	52.0*27.6*59.1
560*570*1530	720*690*1730	780*840*1945	1440*925*1980
22.0*22.4*60.2	28.3*27.2*68.1	30.7*33.1*76.6	56.7*36.4*78.0
645*675*1680	795*805*1870	865*945*2090	1570*1010*2120
25.4*26.6*66.1	31.3*31.7*73.6	34.0*37.2*82.3	61.8*39.8*83.5
27/54/54	14/30/30	12/26/26	6/12/12
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
-	-	-	-
4/-	5/-	6/-	12/-
Optional	Optional	Optional	Y
Y	Y	Y	Y
CE	CE	CE	CE

Product appearance and specifications are subject to change without notice

Transport Cooler

Active Cooling Solution 

HZY-8Z/8ZA



HZY-15Z/15ZA

- Accurate control of the temperature between 2-6°C
- PCM ice pack
- Constant temperature
- Complete process cold chain monitoring
- Replaces the traditional insulation method with Haier Biomedical transport cooler for transport
- Blood from blood transfusion department to clinical blood transfusion point

**Low Noise**

- The ultra-quiet fan is equipped with air outlets on both sides, noise level less than 34 dB providing a more comfortable environment.



Air Duct Structure

**Easy to Clean**

- The inner liner adopts aluminium oxidation process to make it smooth inside and easy to clean.



Internal Structure

Product Features

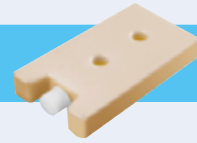
Semiconductor for active cooling, energy saving and environmental protection.

- Self-contained cooling function, cooling after electrified.

2~6 °C precise temperature control, suitable for storage of biological products such as blood, medicines and reagents etc.

- Temporary blood storage to ensure blood safety at clinical blood stations.

Embedded with 4 °C phase change PCM ice pack for cold storage, providing long insulation after power off to ensure blood safety during the transportation.



4 °C PCM Ice Pack

- The PCM ice pack is a 4°C phase change material with freezing point greater than 2°C, which ensures the cryopreservation temperature of the blood.
- At 25 °C under no load, the time for the temperature inside the box to rise to 10°C is more than 1 hour.
- At 25 °C under no load, the time for the temperature inside the box to rise to 10°C is more than 2 hour.

Multiple fault alarms, making it safer to use.

- High/low temperature alarm, power failure alarm, and sensor failure alarm.

The power supply is configured with cigarette lighter plug, easy for vehicle transportation.

- The power supply is configured to fit the vehicles internal power plug, easy for vehicle transportation.

Passive Cooling Solution

- Multi-function handle with casters for easy transportation
- Multi dimensional binding of orders and blood, and whole process cold chain monitoring
- From blood collection vehicle/blood donation house to blood center/blood station from blood center/blood station to hospital



HZY-5B



HZY-35B

Product Features

Capable of monitoring the temperature inside the box

- The temperature data can be uploaded to the Haier Cloud Platform by SIM card activated with GPRS function (with 2G signal).

The temperature data of blood bag can be printed.

- It supports connection to portable printer to connect GPRS collector for printing.

Unlocks only after authorization, which enhances blood safety.

- This model is suitable for hospitals with low budgets, or that only needs temporary storage and will recycle after the blood is transferred to clinic or department.



Specifications

		HZY-5B	HZY-8Z	HZY-15Z
Technical Data	Storage Temperature(°C)	2-6	2-6	2-6
	Operating Temperature(°C)	2-10	2-10	2-10
Dimensions	Exterior Dimensions (W*D*H mm)	285×186×200	300×265×260	520×300×270
	Interior Dimensions (W*D*H mm)	220×118×126	230×140×170	430×150×180
	Packing Dimensions (W*D*H mm)	305×206×220	320×285×280	540×320×290
	Net weight(kg)	2	4	6
	Gross weight(kg)	3	5	7
	Blood Bag Capacity	5	8	15
Functions	Cold Chain Monitoring	/	/	/
	NFC Unlock	/	/	/
	Foam material	High density foam	High density foam	Polyurethane Cycloisopentane
	Refrigeration method	Passive cooling	Semiconductor active refrigeration	Semiconductor active refrigeration
	Warm up time	3 hours(32°C ambient temperature load situation)	2 hours(32°C ambient temperature load situation)	2 hours(32°C ambient temperature load situation)
	Shell/liner	ABS/ABS	ABS/ aluminium plate	ABS/ aluminium plate
	Alarm	High temperature,low battery	High temperature,sensor error, power off	High temperature,sensor error, power off
	Battery	Rechargeable lithium battery	Rechargeable lithium battery	Rechargeable lithium battery



HZY-8ZA	HZY-15ZA	HZY-35B
2-6	2-6	2-6
2-10	2-10	2-10
300×265×260	520×300×270	550×328×370
230×140×170	430×150×180	478×246×295
320×285×280	540×320×290	580×260×320
4	6	10
5	7	11
8	15	35
Y	Y	/
Y	Y	/
High density foam	Polyurethane Cycloisopentane	Polyurethane Cycloisopentane
Semiconductor active refrigeration	Semiconductor active refrigeration	Passive cooling
2 hours(32°C ambient temperature load situation)	2 hours(32°C ambient temperature load situation)	6 hours(43°C ambient temperature load situation)
ABS/ aluminium plate	ABS/ aluminium plate	ABS/ABS
High temperature,sensor error, power off	High temperature,sensor error, power off	High temperature,sensor error, power off
Rechargeable lithium battery	Rechargeable lithium battery	Button battery

Product appearance and specifications are subject to change without notice

Biomedical Freezers -40°C

Our range of -40°C biomedical freezers designed with rapid cooling integrated design of cold shelf and evaporator offers excellent refrigeration efficiency. Designed to store vaccines, blood plasma and many other biological materials.



DW-40L508



DW-40L348



Control panel



Drawer



Shelf

Product Features

- Eight models from 92L to 508L capacity, in a variety of internal drawer configurations
- Microprocessor control, adjustable temperature range :-20°C to -40°C
- Multiple alarm functions including hi/lo alarms, power failure, high ambient and low battery

Specifications



		DW-40L92	DW-40L262	DW-40L278	DW-40L348		
Technical Data	Cabinet Type	Upright	Upright	Upright	Upright, Double Door		
	Climate Class	4	4	4	4		
	Cooling Type	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling		
	Defrost Mode	Manual	Manual	Manual	Manual		
	Refrigerant	CFC-Free	CFC-Free	HC	CFC-Free	HC	
	Sound Level(dB(A))	40	44	40	44	41	
Performance	Cooling Performance(°C)	-40	-40	-40	-40		
	Temperature Range(°C)	-20~-40	-20~-40	-20~-40	-20~-40		
Control	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor		
	Display	LED	LED	LED	LED		
Electrical Data	Power Supply(V/Hz)	220-240/50	220-240/50/60	115/60	220-240/50	220-240/50/60	220-240/50
	Power(W)	220	400	600	275	370	280
	Electrical Current(A)	0.5	4.8	7.5	2.9	5.1	2.9
Dimensions	Capacity(L/Cu.Ft)	92/3.3	262/9.3	278/9.8	348/12.3		
	Net/Gross Weight (approx)	kg	46/51	88/93	115/135	137/145	
		lbs	101.4/112.4	194.0/205.0	253.5/297.6	302.0/320.0	
	Interior Dimensions (W*D*H)	mm	435*410*635	480*465*1430	520*435*1230	535*610*1228	
		in	17.1*16.1*25.0	18.9*18.3*56.3	20.5*17.1*48.4	21.1*24.0*48.3	
	Exterior Dimensions (W*D*H)	mm	640*610*860	700*705*1665	770*710*1810	790*845*1860	
		in	25.2*24.0*33.9	27.6*27.8*65.6	30.3*28.0*71.3	31.1*33.3*73.2	
Packing Dimensions (W*D*H)	mm	660*700*935	775*760*1880	832*757*1992	852*927*2044		
	in	26.0*27.6*36.8	30.5*29.9*74.0	32.8*29.8*78.4	33.5*36.5*80.5		
Container Load (20'/40'/40'H)		54/108/108	24/48/48	14/28/28	14/28/28		
Alarms	High/Low Temperature	Y	Y	Y	Y		
	Remote Alarm	N/A	N/A	Y	Y		
	Power Failure	N/A	N/A	Y	Y		
	Sensor Error	Y	Y	Y	Y		
	Low Battery	N/A	N/A	Y	Y		
	High Ambient Temp	N/A	N/A	Y	Y		
	Door Ajar	/	/	Y	/		
Accessories	Caster	Y	Y	Y	Y		
	Foot	Y	Y	Y	Y		
	Porthole	Y	Y	Y	Y		
	Drawers/Inner Doors	3/-	7/-	6/-	12/-		
	USB Interface	N/A	N/A	Optional	Optional		
	Temperature Recorder	N/A	N/A	Optional	Optional		
Others	Certification	CE	CE	CE	CE		

Product appearance and specifications are subject to change without notice



Specifications

Model		DW-40L508		DW-40W100		DW-40W255		DW-40W380		
Technical Data	Cabinet Type	Upright, Double Door		Chest		Chest		Chest		
	Climate Class	4		4		4		4		
	Cooling Type	Direct Cooling		Direct Cooling		Direct Cooling		Direct Cooling		
	Defrost Mode	Manual		Manual		Manual		Manual		
	Refrigerant	HC	CFC-Free	CFC-Free		CFC-Free		CFC-Free		
	Sound Level(dB(A))	41	45	35		41		45		
Performance	Cooling Performance(°C)	-40		-40		-40		-40		
	Temperature Range(°C)	-20~-40		-20~-40		-20~-40		-20~-40		
Control	Controller	Microprocessor		Microprocessor		Microprocessor		Microprocessor		
	Display	LED		LCD		LCD		LCD		
Electrical Data	Power Supply(V/Hz)	220-240/50	208-230/60	220-240/50	115/60	220-240/50/60		220-240/50/60		
	Power(W)	285	430	260	255	410		550		
	Electrical Current(A)	2.9	2.9	2.5	5.0	2.5		3.4		
Dimensions	Capacity(L/Cu.Ft)		490/17.3		100/3.5		255/9.0		380/13.4	
	Net/Gross Weight	kg	164/200		43/46		70/82		82/89	
		(approx) lbs	361.6/440.9		94.8/101.4		154.3/180.8		180.8/196.2	
	Interior Dimensions	mm	685*610*1228		500*385*630		1036*426*625		1375*453*640	
		(W*D*H) in	27.0*24.0*48.3		19.7*15.2*24.8		40.8*16.8*24.6		54.1*17.8*25.2	
	Exterior Dimensions	mm	940*845*1860		685*650*810		1243*724*838		1554*724*838	
		(W*D*H) in	37.0*33.3*73.2		27.0*25.6*31.9		48.9*28.5*33.0		61.2*28.5*33.0	
	Packing Dimensions	mm	997*927*2044		740*650*880		1320*755*905		1635*760*900	
(W*D*H) in		39.3*36.5*80.5		29.1*25.6*34.6		52.0*29.7*35.6		64.4*29.9*35.4		
Container Load (20'/40'/40'H)		12/24/24		54/108/162		24/54/81		18/42/63		
Alarms	High/Low Temperature	Y		Y		Y		Y		
	Remote Alarm	Y		N/A		N/A		N/A		
	Power Failure	Y		Y		Y		Y		
	Sensor Error	Y		Y		Y		Y		
	Low Battery	Y		N/A		N/A		N/A		
	High Ambient Temp	Y		N/A		N/A		N/A		
	Door Ajar	/		/		/		/		
Accessories	Caster	Y		N/A		N/A		N/A		
	Foot	Y		N/A		N/A		N/A		
	Porthole	Y		Y		Y		N/A		
	Drawers/Inner Doors	10/-		/		/		/		
	USB Interface	Optional		N/A		N/A		N/A		
	Temperature Recorder	Optional		N/A		N/A		N/A		
Others	Certification	CE		CE		CE		CE		

Product appearance and specifications are subject to change without notice

Low Energy ULT Freezers -86°C

Manufactured for the long-term storage of biological products, designed to deliver energy savings and a reduced carbon footprint. This range 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 freezer design makes energy savings possible for laboratories.



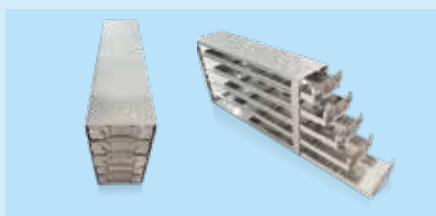
Product Features

Safe and Reliable

- World leading energy efficient HC refrigeration system
- Reliable sample protection with superior temperature uniformity
- Multiple alarm functions including temperature alarms, high ambient, low battery, hot condenser and sensor failure
- VIP insulation with 4 individually insulated inner doors

Accessories

- Stainless or aluminium storage racks



- Cryo-boxes



- CO2 back system





Specifications

Model		DW-86L100J	DW-86L338J		DW-86L388J	DW-86L578J		
Technical Data	Cabinet Type	Upright	Upright		Upright	Upright		
	Climate Class	N	N		N	N		
	Cooling Type	Air cooling	Direct cooling		Direct cooling	Direct cooling		
	Defrost Mode	Manual	Manual		Manual	Manual		
	Refrigerant	HC	HC		HC	HC		
	Sound level(dB(A))	46.8	50		50	50		
Performance	Cooling Performance(°C)	-86	-86		-86	-86		
	Temperature Range(°C)	-40~-86 C	-40~-86		-40~-86	-40~-86		
Control	Controller	Microprocessor	Microprocessor		Microprocessor	Microprocessor		
	LCD Touch Screen	LED	LED		LED	LED		
Electrical Data	Power Supply(V/HZ)	220~240/50	220~240/50	115/60	220~240/50	220~240/50	115/60	
	Power(W)	680W(220V/50Hz)	650	700	650	750	1000	
	Electrical Current(A)	3A(220V/50Hz)	7.5	11	8	9	18	
Dimensions	Capacity(L/Cu.Ft)	100/3.5	338/11.9		388/13.7	578/20.4		
	Net/Gross Weight (approx)	kg	108/132	238/278		255/286	300/330	
		lbs	238/291	524.7/612.9		562.2/630.5	661.4/727.5	
	Interior Dimension (W*D*H)	mm	330×481×630	465*630*1165		465*716*1310	620*716*1310	
		in	13×19×25	18.3*24.8*45.9		18.3*28.2*51.6	24.4*28.2*51.6	
	Exterior Dimension (W*D*H)	mm	770×660×810	812*893*1846		830*998*1980	895*980*1960	
		in	30×26×32	32.0*35.2*72.7		32.7*39.3*78.0	35.4*38.6*77.2	
Packing Dimension (W*D*H)	mm	830x710x970	875*970*2010		893*1078*2135	950*1055*2125		
	in	33x28x38.5	34.4*38.2*79.1		35.2*42.4*84.1	37.4*41.5*83.7		
	Container load(20'/40'/40'H)	44/88/88	12/24/24		12/24/24	12/24/24		
Alarms	High/Low Temperature	Y	Y		Y	Y		
	Hot Condenser	Y	Y		Y	Y		
	Power Failure	Y	Y		Y	Y		
	High/Low Voltage	N	N/A		N/A	N/A		
	Sensor Error	Y	Y		Y	Y		
	Low Battery	Y	Y		Y	Y		
	High Ambient Temperature	Y	Y		Y	Y		
	Door Ajar	Y	Y		Y	Y		
Accessories	Caster	Y	Y		Y	Y		
	Foot	4	Y		Y	Y		
	Porthole	1	Y/2		Y/2	Y/2		
	Shelves/Inner doors	1	3/2		3/2	3/4		
	USB Interface	Y	Y		Y	Y		
	Remote Alarm	Y	Y		Y	Y		
	5V Power Supply Port	Y	Y		Y	Y		
	Temperature Recorder	N	Optional		Optional	Optional		
	Rs232/485 Interface	Y	Optional		Optional	Optional		
	CO ₂ Backup System	N	Optional		Optional	Optional		
	LN ₂ Backup System	N	Optional		Optional	Optional		
Others	Certification	CE	CE		CE	CE,ENERGY STAR	UL,ENERGY STAR	

Specifications



Model		DW-86L728J	DW-86L828J	DW-86W100J	DW-86W420J	
Technical Data	Cabinet Type	Upright	Upright	Chest	Chest	
	Climate Class	N	N	N	N	
	Cooling Type	Direct cooling	Direct cooling	Direct cooling	Direct cooling	
	Defrost Mode	Manual	Manual	Manual	Manual	
	Refrigerant	HC	HC	HC	HC	
	Sound level(dB(A))	50	50	49	50	
Performance	Cooling Performance(°C)	-86	-86	-86	-86	
	Temperature Range(°C)	-40~-86	-40~-86	-40~-86	-40~-86	
Control	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	
	LCD Touch Screen	LED	LED	LED	LED	
Electrical Data	Power Supply(V/HZ)	220~240/50	115/60	220~240/50	220~240/50	
	Power(W)	1000	1000	550	1000	
	Electrical Current(A)	10	18	4	7.5	
Dimensions	Capacity(L/Cu.Ft)	728/25.7	828/29.2	100/3.5	420/14.8	
	Net/Gross Weight (approx)	kg	345/385	380/410	138/160	310/357
		lbs	760.6/848.8	837.7/903.9	304.2/352.7	683.4/787.0
	Interior Dimension (W*D*H)	mm	766*716*1310	870*716*1310	470*450*480	1367*462*652
		in	30.2*28.2*51.6	34.3*28.2*51.6	18.5*17.7*18.9	53.8*18.2*25.7
	Exterior Dimension (W*D*H)	mm	1041*980*1980	1145*980*1980	769*825*1120	2130*870*1020
		in	41.0*38.6*78.0	45.1*38.6*78.0	30.3*32.5*44.1	83.9*34.3*40.2
	Packing Dimension (W*D*H)	mm	1090*1050*2150	1190*1045*2150	845*855*1250	2195*895*1130
in		42.9*41.3*84.6	46.9*41.1*84.6	33.3*33.7*49.2	90.6*38.2*45.8	
Container load(20'/40'/40'H)		12/20/20	8/20/20	12/24/48	6/12/24	
Alarms	High/Low Temperature	Y	Y	Y	Y	
	Hot Condenser	Y	Y	Y	Y	
	Power Failure	Y	Y	Y	Y	
	High/Low Voltage	N/A	N/A	N/A	N/A	
	Sensor Error	Y	Y	Y	Y	
	Low Battery	Y	Y	Y	Y	
	High Ambient Temperature	Y	Y	Y	Y	
	Door Ajar	Y	Y	Y	Y	
Accessories	Caster	Y	Y	Y	Y	
	Foot	Y	Y	Y	Y	
	Porthole	Y/2	Y/2	Y/1	Y/1	
	Shelves/Inner doors	3/4	3/4	-/1	-/3	
	USB Interface	Y	Y	Y	Y	
	Remote Alarm	Y	Y	Y	Y	
	5V Power Supply Port	Y	Y	N/A	N/A	
	Temperature Recorder	Optional	Optional	Optional	Optional	
	Rs232/485 Interface	Optional	Optional	Optional	Optional	
	CO ₂ Backup System	Optional	Optional	Optional	Optional	
LN ₂ Backup System	Optional	Optional	Optional	Optional		
Others	Certification	CE,ENERGYSTAR	CE,ENERGYSTAR	CE	CE	

Product appearance and specifications are subject to change without notice

Pharmacy Refrigeration 2-8°C



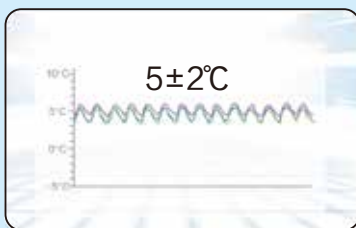
HYC-1099F

HYC-509

HYC-1099

HYC-509F

Product Advantages



Precise Temperature Control and Reliable Operation

- Advanced control system
- Six sensors
- High efficiency air flow system
- Precise temperature control
- Uniform temperature distribution
- VFD driven compressor
- High-efficiency fan motor



Multiple Features for Sample Security And Protection

- Audible buzzer and visual flashing lights for alarm system as standard
- Alarm system includes door ajar, temperature, sensor malfunction, battery, loss of power and clogged condenser
- Remote alarm contact terminals as standard
- Supplied with mechanical lock as standard, there is an optional magnetic lock for added product safety



Environmentally Friendly Refrigeration

- R600a Hydrocarbon refrigeration system does not have any negative impacts on the ozone layer, with zero global warming effect

Haier Biomedical pharmacy refrigerators are suitable for hospital pharmacies, drug stores, pharmaceutical companies, hospitals, clinics and other pharmaceutical storage areas such as storage and logistics.



HYC-1099TF

HYC-509T

HYC-1099T

HYC-509TF

Product Advantages



Intelligent and Interactive Touchscreen Control

- An intelligent, high definition liquid crystal touch screen control system, allows users to view temperature graphs, operation status, event and alarm records



Intelligent IoT System

- An optional IoT module is available, this allows real-time inquiry of temperature graphs and alarm information through an App on cell phones
- Standard RS485 data port



Secure Access and Authorized Management

- NFC authority system works with a magnetic lock system to ensure product safety. In addition, access to unit and stored products is traceable
- Finger print module is optional for additional safety



Specifications

Model		HYC-509	HYC-509F	HYC-509T	HYC-509TF	
Technical Data	Cabinet Type	Upright, single glass door	Upright, single solid door	Upright, single glass door	Upright, single solid door	
	Climate Class	N	N	N	N	
	Cooling Type	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	
	Defrost Mode	Auto	Auto	Auto	Auto	
	Refrigerant	CFC-Free	CFC-Free	CFC-Free	CFC-Free	
	Sound Level(dB(A))	42	42	42	42	
Performance	Temperature Range(°C)	2-8	2-8	2-8	2-8	
Control	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	
	Display	LED	LED	LCD Touch Screen	LCD Touch Screen	
Electrical Data	Power Supply(V/Hz)	208-230/50/60	208-230/50/60	208-230/50/60	208-230/50/60	
	Power(W)	370	315	370	315	
	Electrical Current(A)	1.85	1.75	1.85	1.75	
Dimensions	Capacity(L/Cu.Ft)	509/17.97	509/17.97	509/17.97	509/17.97	
	Net/Gross Weight(approx)	kg	180/215	180/215	180/215	180/215
		lbs	396/473	396/473	396/473	396/473
	Interior Dimensions(W*D*H)	mm	593*585*1500	593*585*1500	593*585*1500	593*585*1500
		in	23.21*22.9*58.8	23.21*22.9*58.8	23.21*22.9*58.8	23.21*22.9*58.8
	Exterior Dimensions(W*D*H)	mm	693*813*1981	693*813*1981	693*813*1981	693*813*1981
		in	27.1*31.9*77.7	27.1*31.9*77.7	27.1*31.9*77.7	27.1*31.9*77.7
	Packing Dimensions(W*D*H)	mm	800*875*2100	800*875*2100	800*875*2100	800*875*2100
in		31.3*34.3*82.3	31.3*34.3*82.3	31.3*34.3*82.3	31.3*34.3*82.3	
Container Load (20'/40'/40'H)		12/24/24	12/24/24	12/24/24	12/24/24	
Alarms	High/Low Temperature	Y	Y	Y	Y	
	Remote Alarm	Y	Y	Y	Y	
	Power Failure	Y	Y	Y	Y	
	Sensor Error	Y	Y	Y	Y	
	Low Battery	Y	Y	Y	Y	
	Door Ajar	Y	Y	Y	Y	
Accessories	Caster	Y	Y	Y	Y	
	Foot	Y	Y	Y	Y	
	Porthole	Y	Y	Y	Y	
	Shelves/Drawers	Y/Optional	Y/Optional	Y/Optional	Y/Optional	
	USB Interface	Y	Y	Y	Y	
Others	Certification	CE	CE	CE	CE	



HYC-1099	HYC-1099F	HYC-1099T	HYC-1099TF
Upright, double glass door	Upright, double solid door	Upright, double glass door	Upright, double solid door
N	N	N	N
Forced Air Cooling	Forced Air Cooling	Forced Air Cooling	Forced Air Cooling
Auto	Auto	Auto	Auto
CFC-Free	CFC-Free	CFC-Free	CFC-Free
42	42	42	42
2-8	2-8	2-8	2-8
Microprocessor	Microprocessor	Microprocessor	Microprocessor
LED	LED	LCD Touch Screen	LCD Touch Screen
208-230/50/60	208-230/50/60	208-230/50/60	208-230/50/60
470	440	470	440
2.5	2.25	2.5	2.25
1099/38.5	1099/38.5	1099/38.5	1099/38.5
340/400	330/390	340/400	330/390
748/1000	726/858	748/1000	726/858
1295*585*1500	1295*585*1500	1295*585*1500	1295*585*1500
50.7*22.9*58.8	50.7*22.9*58.8	50.7*22.9*58.8	50.7*22.9*58.8
1395*813*1981	1395*813*1981	1395*813*1981	1395*813*1981
54.7*31.9*77.7	54.7*31.9*77.7	54.7*31.9*77.7	54.7*31.9*77.7
1525*900*2100	1525*900*2100	1525*900*2100	1525*900*2100
59.8*35.3*82.3	59.8*35.3*82.3	59.8*35.3*82.3	59.8*35.3*82.3
6/12/12	6/12/12	6/12/12	6/12/12
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y	Y	Y	Y
Y/Optional	Y/Optional	Y/Optional	Y/Optional
Y	Y	Y	Y
CE	CE	CE	CE

Product appearance and specifications are subject to change without notice



Hermetically sealed compressor



Microprocessor control panel and digital display



Permanently lubricated condenser fan motor



Locks

Access port

Door handles

Dual-pane glass door design, convenient and aesthetic

Leveling leg and caster

HYC-1378

Product Features

Safe and Reliable

- Reliable forced-air cooling for optimal temperature uniformity within 3°C
- Accurate temperature control maintains 2°C to 8°C throughout the unit with an adjustable increment at 0.1°C
- High-efficiency refrigeration system designed for effective cooling and speedy recovery
- Equipped with a complete temperature alarm system featuring audible buzzer and visible flashing light
- Optimized space utilization design with multi-level and adjustable shelf height to accommodate the different storage requirements of varied sized pharmaceutical products
- Access ports and remote alarm contacts standard on all models



Optional Printer



Lock

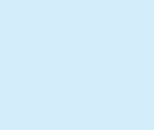


Evaporator Fan

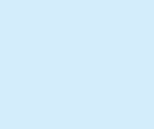


Padlock

Electric heated glass door



Caster



Display Panel



Optional USB Port



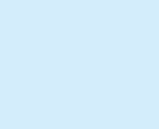
Access Port



Adjustable Shelf



Sealing Strip



Leveling Leg and Caster

HYC-390

Specifications



	Model	HYC-68		HYC-68A		HYC-118		HYC-118A		HYC-290(basic)	HYC-390(basic)	
Technical Data	Cabinet Type	Upright, Solid Door		Upright, Glass Door		Upright, Solid Door		Upright, Glass Door		Upright, Single Door	Upright, Single Door	
	Climate Class	4		4		4		4		N	N	
	Cooling Type	Forced Air Cooling		Forced Air Cooling		Forced Air Cooling		Forced Air Cooling		Forced Air Cooling	Forced Air Cooling	
	Defrost Mode	Auto		Auto		Auto		Auto		Auto	Auto	
	Refrigerant	CFC-Free		CFC-Free		CFC-Free		CFC-Free		CFC-Free	CFC-Free	
	Sound Level(dB(A))	41		41		41		41		43	43	
Performance	Temperature Range(°C)	2-8		2-8		2-8		2-8		2-8	2-8	
Control	Controller	Microprocessor		Microprocessor		Microprocessor		Microprocessor		Microprocessor	Microprocessor	
	Display	LED		LED		LED		LED		LED	LED	
Electrical Data	Power Supply(V/Hz)	220-240/50	115/60	220-240/50	115/60	220-240/50/60	115/60	220-240/50/60	115/60	208-230/50/60	208-230/50/60	
	Power(W)	84	72	84	72	135	75	165	140	340	380 ⁹⁵⁰	
	Electrical Current(A)	0.65	1.1	0.65	1.1	1.03	1.11	1.16	1.46	2.2	2.4	
Dimensions	Capacity(L/Cu.Ft)	68/2.4		68/2.4		118/4.2		118/4.2		290/10.2	390/13.8	
	Net/Gross Weight(approx)	kg	38/40		38/40		41/46		46/51		105/127	116/139
		lbs	83.8/88.2		83.8/88.2		90.5/101.5		101.5/112.5		231.6/280.1	255.8/306.6
	Interior Dimensions (W*D*H)	mm	415*385*505		415*385*505		515*415*630		515*415*630		530*555*1080	530*555*1380
		in	16.3*15.2*19.9		16.3*15.2*19.9		20.3*16.3*24.8		20.3*16.3*24.8		20.9*21.9*42.5	20.9*21.9*54.3
	Exterior Dimensions (W*D*H)	mm	495*580*660		495*580*660		597*635*835		597*635*835		665*710*1665	665*710*1965
		in	19.5*22.8*26.0		19.5*22.8*26.0		23.5*25.0*32.9		23.5*25.0*32.9		26.2*28.0*65.6	26.2*28.0*77.4
Packing Dimensions (W*D*H)	mm	540*640*710		540*640*710		680*690*910		680*690*910		690*790*1810	690*790*2110	
	in	21.3*25.2*28.0		21.3*25.2*28.0		26.8*27.2*35.8		26.8*27.2*35.8		27.1*31.0*71.1	27.1*31.0*82.9	
	Container Load (20'/40'/40'H)	108/228/228		108/228/228		48/102/102		48/102/102		21/42/42	21/42/42	
Alarms	High/Low Temperature	Y		Y		Y		Y		Y	Y	
	Remote Alarm	Y		Y		Y		Y		Y	Y	
	Power Failure	Y		Y		Y		Y		Y	Y	
	Sensor Error	Y		Y		Y		Y		Y	Y	
	Low Battery	Y		Y		Y		Y		Y	Y	
	Door Ajar	Y		Y		Y		Y		Y	Y	
Accessories	Caster	N/A		N/A		Y		Y		Y	Y	
	Foot	Y		Y		Y		Y		Y	Y	
	Porthole	Y		Y		Y		Y		Y	Y	
	Shelves/Drawers	2/1		2/1		3/1		3/1		5/-	7/-	
	USB Interface	N/A		N/A		N/A		N/A		N/A	N/A	
	Temperature Recorder	N/A		N/A		N/A		N/A		N/A	N/A	
Others	Certification	CE	UL	CE	UL	CE	UL	CE	UL ENERGY STAR	CE	CE	



HYC-290			HYC-390			HYC-390F			HYC-610			HYC-940			HYC-940F			HYC-1378		
Upright, Single Door			Upright, Single Door			Upright, Single Door			Upright, Single Door			Upright, Double Glass Door			Upright, Double Solid Door			Upright, Double Door		
N			N			N			ST			N			N			N		
Forced Air Cooling			Forced Air Cooling			Forced Air Cooling			Forced Air Cooling			Forced Air Cooling			Forced Air Cooling			Forced Air Cooling		
Auto			Auto			Auto			Auto			Auto			Auto			Auto		
CFC-Free			CFC-Free			CFC-Free			CFC-Free			CFC-Free			CFC-Free			CFC-Free		
43			43			43			43			45			45			45	45	48
2-8			2-8			2-8			2-8			2-8			2-8			2-8		
Microprocessor			Microprocessor			Microprocessor			Microprocessor			Microprocessor			Microprocessor			Microprocessor		
LED			LED			LED			LED			LED			LED			LED		
220-240/50	208-230/60	115/60	220-240/50	208-230/60	115/60	220-240/50	208-230/60	115/60	220-240/50	208-230/60	115/60	220-240/50	208-230/60	115/60	220-240/50	220-240/50	208-230/60	115/60		
340	340	200	380	380	240	300	300	115	550	550	560	850	770	850	600	800	800	950		
2.2	2.2	2.2	2.4	2.4	2.4	2.4	2.4	1.5	3.5	3.5	7.5	4.5	4.5	11	3	4.2	4.2	11		
290/10.2			390/13.8			390/13.8			610/21.6			890/31.4			890/31.4			1378/48.7		
105/127			116/139			106/129			204/227			227/279			207/259			310/360		
231.6/280.1			255.8/306.6			233.8/284.5			449.7/500.4			500.4/615.1			456.4/571.1			683.4/793.7		
530*555*1080			530*555*1380			530*555*1380			680*640*1400			1030*590*1425			1030*590*1425			1320*700*1500		
20.9*21.9*42.5			20.9*21.9*54.3			20.9*21.9*54.3			26.8*25.2*55.1			40.6*23.2*56.1			40.6*23.2*56.1			52.0*27.6*59.1		
665*710*1665			665*710*1965			665*710*1965			780*840*1945			1130*755*1980			1130*755*1980			1440*925*1980		
26.2*28.0*65.6			26.2*28.0*77.4			26.2*28.0*77.4			30.7*33.1*76.6			44.5*29.7*78.0			44.5*29.7*78.0			56.7*36.4*78.0		
690*790*1810			690*790*2110			690*790*2110			865*945*2090			1250*850*2130			1250*850*2130			1570*1010*2120		
27.1*31.0*71.1			27.1*31.0*82.9			27.1*31.0*82.9			34.1*37.2*82.3			49.2*33.5*83.9			49.2*33.5*83.9			61.8*39.8*83.5		
21/42/42			21/42/42			21/42/42			12/26/26			8/18/18			8/18/18			6/12/12		
Y			Y			Y			Y			Y			Y			Y		
Y			Y			Y			Y			Y			Y			Y		
Y			Y			Y			Y			Y			Y			Y		
Y			Y			Y			Y			Y			Y			Y		
Y			Y			Y			Y			Y			Y			Y		
Y			Y			Y			Y			Y			Y			Y		
Y			Y			Y			Y			Y			Y			Y		
Y			Y			Y			Y			Y			Y			Y		
Y			Y			Y			Y			Y			Y			Y		
5/-			7/-			7/-			6/-			12/-			12/-			12/-		
Y			Y			Y			Optional			N/A			N/A			Y		
N/A			N/A			N/A			Optional			N/A			N/A			N/A		
CE	UL		CE	UL		CE	UL	ENERGY STAR	CE	UL		CE	UL		CE	CE	UL			

Product appearance and specifications are subject to change without notice

Laboratory Refrigeration

Standard laboratory refrigerators and freezers for use to store reagents and other consumables.

Product Features

- Precise temperature control
- Adjustable set point
- 3°C temperature uniformity throughout the cabinet
- High efficient HC refrigeration – greener and more energy efficient
- One-touch search for historical data (highest and lowest temperatures recorded)
- High-strength glass shelves
- Dual lock with multiple alarms



HLR-310F

Ergonomic Design

One-touch Search for Historic Data

The highest and lowest historic temperature data is saved and can be checked with one key stroke.

Low Noise

Noise cancelling technology reduces the sound level to less than 40 dB(A) for an improved working environment.

Automatic Door Closing Function

High Strength Glass Shelves

Tempered glass shelves hold 20 kg of products per shelf.

Dual Lock Design With Multiple Alarm Systems

A mortise lock is standard on the door with option to add a padlock for additional security. Standard alarms include high and low temperature, door opening, and sensor errors.



Cabinet Structure



Glass Shelves



Fan/Interior Light



Display Board

Specifications

Model		HLR-198F	HLR-310F	
Technical Data	Type	Upright	Upright	
	Climate Class	N	N	
	Cooling Type	Forced Air Cooling	Forced Air Cooling	
	Defrost Mode	Auto	Auto	
	Refrigerant	R600a	R600a	
	Sound Level(dB(A))	37	40	
Performance	Temperature Range(°C)	3-16 Adjustable	3-16 Adjustable	
	Ambient Temperature (°C)	16-32	16-32	
Control	Controller	Microprocessor	Microprocessor	
	Display	LED	LED	
Electrical Data	Power Supply(V/Hz)	220-240/50	220-240/50	
	Power(W)	135	225	
	Electrical Current(A)	1	1.6	
Dimensions	Capacity(L/Cu.Ft)	198/7.0	310/10.9	
	Net/Gross Weight(approx)	kg	57/66	72/83
		lbs	97/108	158.7/183
	Interior Dimensions(W*D*H)	mm	455*445*900	560*500*1290
		in	18.0*17.5*35.5	22.0*19.7*50.8
	Exterior Dimensions(W*D*H)	mm	535*570*1530	605*598*1840
		in	21.1*22.5*60.3	23.8*23.6*73.6
	Packing Dimensions(W*D*H)	mm	595*640*1660	660*670*1920
		in	23.4*25.2*65.4	26.0*26.4*75.6
	Container Load (20'/40'/40'H)	48/102/102	27/57/57	
Alarms	High/Low Temperature	Y	Y	
	Sensor Error	Y	Y	
	Door Ajar	Y	Y	
Accessories	Caster	4	4	
	Foot	2	2	
	Porthole	Y	Y	
	Shelves	4	4	
Temperature Setting Mode		Password Protection	Password Protection	
Temperature Sensor		1 Resistance Thermometer	1 Resistance Thermometer	
Power Consumption(kWh/24h)		0.95	1.05	
Certification		CE	CE	

Product appearance and specifications are subject to change without notice

ATEX Rated Sparkfree Refrigeration

ATEX rated sparkfree refrigerators and freezers for the safe storage of flammable or volatile substances used within many different laboratories, testing and research facilities. The units, developed in-house, offer 360° internal explosion protection and are fully compliant and certified to the ATEX II C-T6 EU standard.*

ATEX Rated Refrigerators

• Utilising a Zener barrier, the new sparkfree units use quick fuse, a current-limiting resistance or voltage-limiting diode. This limits the input of electric energy to ensure that the sensor will not be a source of ignition for flammable and explosive substances in the cabinet. This is different to other sparkfree refrigerators, ensuring that the Haier Biomedical units are safer by design. This is one of the highest ATEX rated refrigerators within this market, type II C nA, requiring a safety barrier to protect the temperature sensor. This means that these appliances can be used in zone II environments (including II A, II B and II C).

ATEX Rated Freezers

• Designed to meet the stringent standards of ATEX with an explosion rating to zone II C T6 (85° C), the non-static interiors, where all metal parts are grounded, feature aluminium evaporator shelves and plastics drawers. The evaporator shelving provides faster cool down rates and a more uniform temperature distribution, typically ± 3 C, than non-evaporator shelf alternatives.

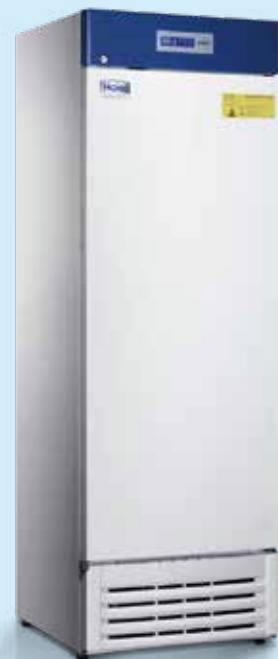
• All models are designed to be energy efficient utilising an optimised hydro-carbon, environmentally safe refrigeration system and cyclo-isopentane polyurethane foam insulation (meets EU ROHS directive) to ensure these units use less energy and meet the RoHS directive designed to reduce waste.



HLR-118SF



DW-25L92SF



HLR-310SF

Product Features

- Low noise – Unique cabinet design and refrigeration system emit only 30 dba, eliminating high pitch noises.
- Micro-processor control with LED temperature display, adjustable temperature from -10°C to -25°C in 1°C increments.
- Visual and audible alarms include high/low temperature, sensor failure and door ajar alert.
- Remote alarm contacts as standard.
- Dual lock design with key and facility to add padlock if required.
- Unit comes with castors and levelling feet to ensure unit is easy to move and secure in place.
- Warning labels alert users about safe operation.

Specifications



Model		HLR-118SF	HLR-310SF	DW-25L92SF	DW-30L278SF	
Technical Data	Type	Under-Counter	Upright	Upright	Upright	
	Climate Class	N,ST	N,ST	4	4	
	Cooling Type	Forced Air Cooling	Forced Air Cooling	Direct cooling	Direct cooling	
	Defrost Mode	Auto	Auto	Manual	Manual	
	Refrigerant	R134a	R600a	HC	HC	
	Sound Level(dB(A))	30	40	27	40	
Performance	Temperature Range(°C)	3~16°C Adjustable	3~16 Adjustable	-25	-30	
	Ambient Temperature (°C)	16~32	16~32	-10~-25	-10~-30	
Control	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	
	Display	LED	LED	LED	LCD	
Electrical Data	Power Supply(V/Hz)	220~240/50	220~240/50	220~240/50	220~240/50	
	Power(W)	140	210	160	330	
	Electrical Current(A)	1.03	1.26	0.75	2.0	
Dimensions	Capacity(L/Cu.Ft)	118/4.2	310/10.9	92/3.3	278/9.8	
	Net/Gross Weight(approx)	kg	44/49	72/83	46/51	115/135
		lbs	97/108	158.7/183	101/113	254/298
	Interior Dimensions(W*D*H)	mm	515*415*630	560*500*1290	435*410*635	520*435*1230
		in	20.3*16.3*24.8	22.0*19.7*50.8	17.1*16.1*25	20.5*17.1*48.4
	Exterior Dimensions(W*D*H)	mm	597*635*835	605*598*1840	597*635*835	745*675*1810
		in	23.5*25*32.9	23.8*23.6*73.6	23.5*25*32.9	29.3*26.6*71.3
	Packing Dimensions(W*D*H)	mm	680*690*910	660*670*2020	680*690*910	805*725*1970
in		26.8*27.2*35.8	26*26.4*79.5	26.8*27.2*35.8	31.7*28.5*77.6	
Container Load (20'/40'/40'H)		48/102/102	27/57/57	48/102/102	23/46/46	
Alarms	High/Low Temperature	Y	Y	Y	Y	
	Power Failure	Optional	Optional	/	Y	
	Sensor Error	Y	Y	Y	Y	
	Door Ajar	Y	Y	Y	/	
	Remote Alarm	Optional	Optional	Y	/	
Accessories	Caster	2	4	Y	Y	
	Foot	2	2	Y	Y	
	Shelves/Baskets	2/1	4/0			
	Water Tray	1	1			
	Padlock Adapter Kit/Quantity	/	1			
	Built-in Key Door Lock/Quantity	1	1	3/-	6/-	
Others	Certification	CE ATEX	CE ATEX	CE ATEX	CE ATEX	
	Interior Material/Colour	PS Plate/White	PS Plate/White	PS Plate/white	PS Plate/white	

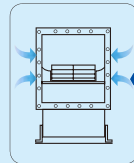
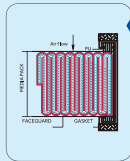
Product appearance and specifications are subject to change without notice

Clean Air Cabinets

Class 2 Microbiological Safety Cabinet

Haier Biomedical class 2 microbiological safety cabinets with dual exhaust filter is our best-selling models offering three levels of protection – operator, product and environment.

Ultra Low Penetration Air Filter System



Intelligent Constant Air Velocity Patent Technology



The professional hot-bulb air velocity transducer performs real-time monitoring on the air velocity of the working area, compares it with the standard air velocity to keep the air speed constant within the safety cabinet by adjustment of the fan speed via the microcomputer system.

304 Stainless Steel Work Surface and Internal Walls

- Stainless steel work surface without screws ensures no accumulation of contaminant
- Dismountable air in-flow plate is easy to clean and disinfect
- Concaved work surface, waste liquid easily collected



Digital Microprocessor Control System

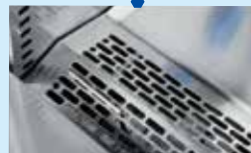


LCD display
Real-time display of key parameters: downflow velocity, inflow velocity, airflow volume, static pressure, negative pressure, accumulative running time of fan and UV lamp and remaining life of filter
Sound & light alarming function
UV sterilization reservation setting function



Patented Safe Air Flow Distribution Design

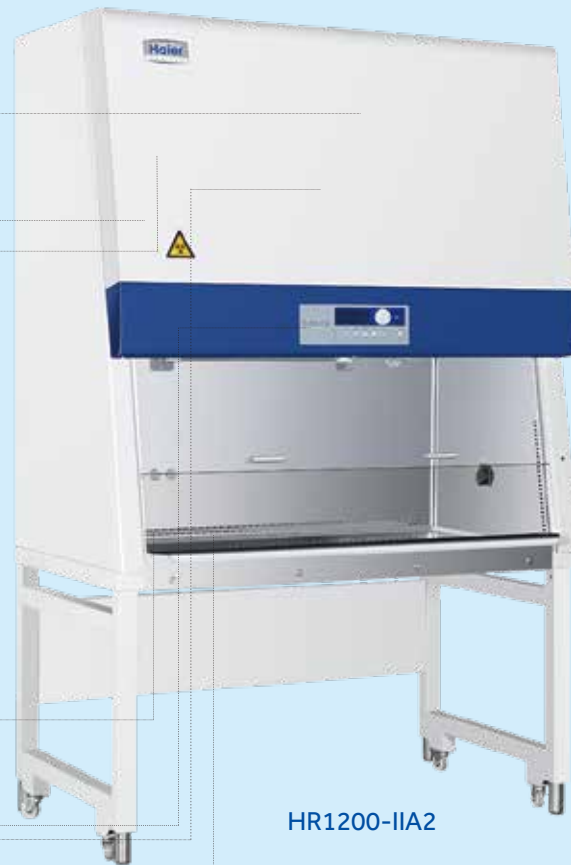
The professional air flow distribution design, provides more uniform airflow, reduced contamination and noise to <62dB(A).



V-shaped Air Inlet Design



Swivel Castor and Self-levelling Feet



HR1200-IIA2

Specifications

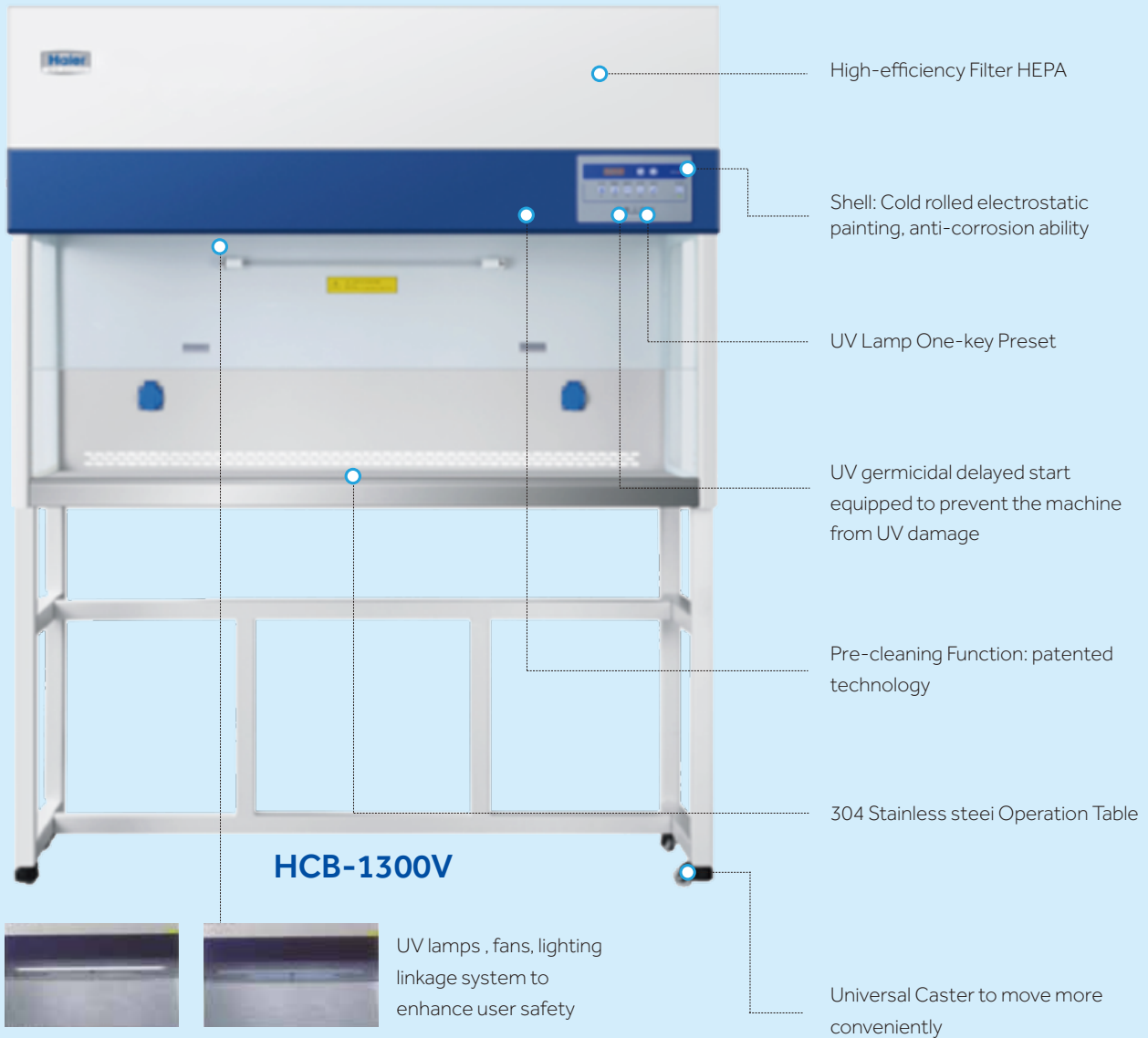


Model		HR900-IIA2	HR1200-IIA2	HR1500-IIA2	HR1200-IIA2-D
Working Voltage & Frequency(V/Hz)		220V 50Hz	220V 50Hz	220V 50Hz	220V 50/60Hz
Power(VA)		1400	1500	1600	1600
Power of Blower(W)		AC-L=330W, M=465W,H=735W	AC-L=330W, M=465W,H=735W	AC 650W	EC 190W, EC 170W
Airflow Circulation		70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust	70% Downflow, 30% Exhaust	70% Downflow,3 0% Exhaust
Main Filter Typical Efficiency		ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um	ULPA, U15,99.9995%@0.12um
Exhaust Filter Typical Efficiency		ULPA, U15,99.9995%@0.12um	HPLA, H14,99.995%@0.3um	HPLA, H14,99.995%@0.3um	TWO HEPA, H14,99.995%@0.3um
Filter's Brand		AAF	AAF	AAF	AAF
Downflow Velocity(m/s)		0.33	0.34	0.31	0.30
Inflow Velocity(m/s)		0.55	0.55	0.55	0.45
Fluorescent Lamp Intensity(Lux)		≥900	≥900	≥900	≥1000
Net/Gross Weight (approx)	kg	270/293	320/339	360/393	320/339
	lbs	595.3/646	705.5/747.4	793.7/866.4	705.5/747.4
Interior Dimensions (W*D*H)	mm	920*620*650	1220*620*650	1520*620*650	1310*620*630
	in	36.2*24.4*25.6	48.0*24.4*25.6	59.9*24.4*25.6	51.6*24.4*24.8
Exterior Dimensions (W*D*H)	mm	1080*845*2160	1380*845*2160	1680*845*2160	1380*780*2160
	in	42.5*33.3*85.0	54.3*33.3*85.0	66.1*33.3*85.0	54.3*30.7*85.0
Packing Dimensions (W*D*H)	mm	1145*920*1690	1470*920*1690	1755*920*1690	1470*920*1690
	in	45.1*36.2*66.5	57.9*36.2*66.5	69.1*36.2*66.5	57.9*36.2*66.5
Supporter		680-900mm adjustable height	680-900mm adjustable height	680-900mm adjustable height	680-900mm adjustable height
Container load (20'/40'/40'H)		12/24/24	8/16/16	6/12/12	8/16/16
Alam		Sound and Flash	Sound and Flash	Sound and Flash	Sound and Flash
Certificate		CFDA,CE,EN12469	CFDA,CE,EN12469	CFDA,CE,EN12469	CE,EN12469

Product appearance and specifications are subject to change without notice

Laminar Flow Cabinet

Haier Biomedical's Laminar Flow Cabinets offer a clean and safe environment protecting your samples.



Class 5 Certification
Air cleanliness exceeds that required for Class 5 clean air applications



Safe & Reliable
Highly efficient HEPA filter 99.995%@0.3µm



Side Glass Windows
Glass wall allows natural light in, reducing optical stress caused by artificial lighting and maximising the usable space



Specifications

Model		HCB-900V	HCB-1300V	HCB-1300H	HCB-1600H
Flow Type		Vertical	Vertical	Horizontal	Horizontal
Voltage/Frequency		220/50	220/50	220/50/60	220/50/60
Power(W)		1200	1200	350	350
Vibration Amplitude (UM)		2	2	2	2
Exhaust Filter Typical Efficiency		H13 HEPA, 99.99%@0.3um	H13 HEPA, 99.99%@0.3um	H13 HEPA, 99.99%@0.3um	H13 HEPA, 99.99%@0.3um
Average Velocity (M/S)		0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4
Fluorescent Lamp Intensity(Lux)		≥300	≥300	≥1000	≥1000
Net/Gross Weight (approx)	kg	115/145	145/171	145/175	165/214
	lbs	254/319	320/376	319/385	363.7/471
Sound Level(dB(A))		58	58	61	61
Internal Dimension (W*D*H)	mm	900*530*520	1300*530*520	1310*550*750	1710*550*750
	in	35.4*20.9*20.5	51.2*20.9*20.5	51.6*21.7*29.6	67.3*21.7*29.6
External Dimension (W*D*H)	mm	970*630*1730	1370*630*1730	1380*792*1960	1780*790*1960
	in	38.2*24.8*68.1	53.9*24.8*68.1	54.4*31.2*77.2	70.1*31.1*77.2
Packing Dimensions (W*D*H)	mm	1105*745*1280	1505*745*1280	1465*940*1350	1865*940*1370
	in	43.5*29.3*50.4	59.3*29.3*50.4	57.7*37*53.2	73.4*37.0*53.9
Stand		755mm high chassis	755mm high chassis	765mm high chassis	765mm high chassis
Cleanliness Classification		ISO 14644.1 Class 5	ISO 14644.1 Class 5	ISO 14644.1 Class 5	ISO 14644.1 Class 5
Container Load(20'40'40'H)		15/33/33	10/25/25	8/16/16	6/12/12
Certification		CE,CFDA	CE,CFDA	CE	CE,CFDA

Product appearance and specifications are subject to change without notice

Wireless Temperature Monitoring

Complete End-to-End IoT, Monitoring & Control Solutions for NHS

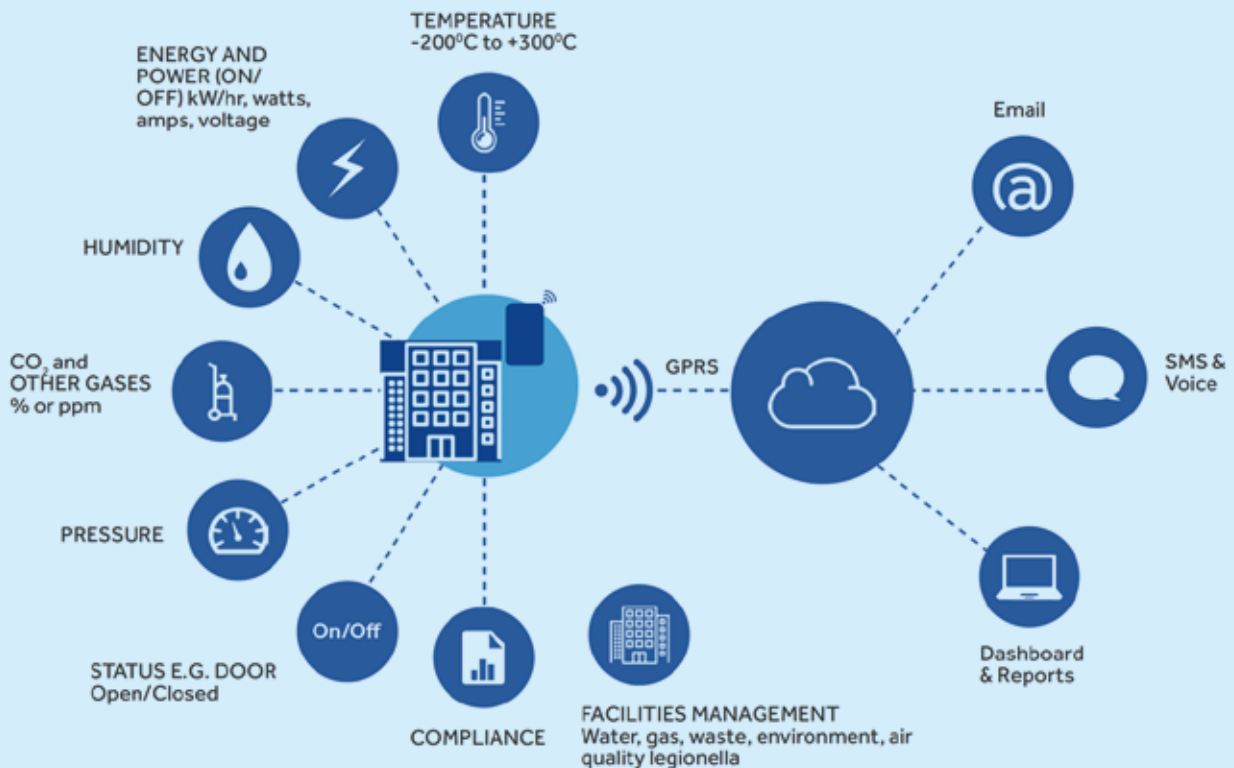
Haier Biomedical has a long-standing partnership with Invisible Systems to supply a wireless monitoring solution to its clinical and life science customers in the UK.

It's one system with multiple applications.

Simple, smart & easy to install without the need for IT



- Critical asset and conditions monitoring - temperature, gas (O₂, CO₂), pressure, status
- Energy monitoring – electric, gas, water
- Compliance –pharma, healthcare, Legionella
- Environmental – leak or flood detection
- Building Energy Management (BEMS)



Conditions & Critical Asset Monitoring

Life science and healthcare facilities rely heavily on temperature of critical assets and room environments. For example, ensuring vaccines, reagents and biological samples such as tissue, blood and stem cells are stored at the correct temperature and compliant with relevant protocols within both research and clinical environments.

In addition to temperature, there are other types of equipment and conditions that may be useful or important to monitor, examples of applications include:

- Status alerts such as door opening
- O₂ levels in LN₂ storage rooms
- Temperature, CO₂ and humidity for incubators
- Pressure differentials for clean rooms
- Leak or flood detection
- Room temperature and humidity for stability testing of pharmaceuticals



The fully featured Realtime-Online software and documentation system ensures compliance with IQ/OQ/PQ available for GCLP, GMP and other areas, MKT reports for pharmaceutical storage requirements. Automated alerts (SMS, email or call) with escalation ensure problems are dealt with effectively and promptly. Reports can be created and emailed to users on a weekly, monthly or yearly basis.



Wireless Monitoring – Summary of Feature and Benefits



Peace of mind 24/7

Anytime, anywhere access to real time data and reports from any web enabled device.



Strong, safe and robust

Utilises roaming GPRS which is easy to install and is not reliant on IT. Sensors have a signal range of 15km ensuring robust reporting and minimal infrastructure. Data is transmitted over encrypted lines to prevent hacking.



Flexible & Scalable

Suitable for multiple monitoring points over multiple sites - no minimum installation size. System can be expanded as client requirements change.



Complete Energy, Temperature and Condition Monitoring solution

A wireless real-time monitoring and control solution for energy monitoring and targeting, temperature monitoring and compliance reporting as well as condition monitoring and M2M.



SMS, Email or Call Alerts

Automated alerts with escalation alarms can also be set to ensure the correct people are contacted in the correct order at the correct time.



Value for Money

This is an affordable and flexible product which can be retro-fitted as a standalone system or integrated with an existing BMS. Monitor a room, a building, a site or a global operation.



Automated Reports

Reports can be created and emailed to users on a weekly, monthly or yearly basis.



Compliant

Fully featured and documented system with training and certification. IQ/OQ/PQ available for GCLP, GMP and other areas. MKT reports for pharmaceutical storage requirements.



No Fuss and Easy to Install

There are only three main components: wireless RF transmitters, RF gateway and Realtime Online™. No wires and no need to connect into LAN or Wi-Fi.



One System. Multiple Applications

Software modules can be tailored to a wide variety of applications with customisable dashboards and screen. For example a system purchased for one use can be extended for additional purposes without the cost of duplicating infrastructures or software packages.



Case Study


Case Study - Nottingham University Hospitals NHS Trust

Pharmacy Refrigerators Framework

Nottingham University Hospitals (NUH) is one of the largest NHS trusts in the UK and provide services to over 2.5 million residents of Nottingham and its surrounding communities. We also provide specialist services for a further 3-4 million people from across the region. NUH's vision is working together to be the best for patients.

NUH wanted to standardise the pharmacy fridges used within the Trust and appoint a single contractor to provide the required pharmacy fridges. In 2017 Haier Biomedical was awarded this framework contract based on its ability to meet its requirements in terms of specification, delivery, warranty and price.



Barking, Havering and Redbridge 
University Hospitals
NHS Trust

Case Study - Barking NHS Trust

In 2019 the hospital evaluated the products and solutions available in the UK as it was looking to purchase two blood bank refrigerators. Haier Biomedical was selected as a supply partner based on the product performance and reliability, value for money, sales and after sales support including ongoing service back up.




Nottinghamshire Healthcare
NHS Foundation Trust

Case Study – Nottingham NHS Trust

This NHS Trust like many have a requirement to monitor and maintain equipment across a portfolio of sites. In particular the need to maintain temperature monitoring of pharmacy fridges and medicine stores and be alerted in the event of equipment failures.

Problems:

- CQC and national safety requirement
- Manual monitoring takes clinical staff away from clinical duties.
- Manual checking is prone to error and can result in inaccurate recordings
- Manual checking has the potential to create a large amount of wastage and subsequently increase cost.
- Quality and potency of medicines can be compromised by in appropriate storage

Benefits of Wireless Monitoring from Haier Biomedical

- Release staff time to clinical duties
- Centralised real-time monitoring of room and fridge temperatures
- Increase the reliability and accuracy of temperature monitoring across the authority
- Improve responses to Alerts enabling the Trust to respond to equipment failures
- Prevent exposure of medicines to incorrect temperatures and therefore reduce waste
- Prevent the exposure of patients to medicines that have been incorrectly stored and may be of suboptimal quality
- Improve regulatory performance with respect to this matter
- Enable the Trust to make better decisions about the replacement of equipment or implementation of air conditioning, therefore avoiding unnecessary costs
- Monitoring of the temperature in specimen fridges to help Trust work in Infection Prevention and Control



Perform preventive maintenance

Discover problems with refrigerators before the equipment failure happens.



Save resources

Automate temperature monitoring process and get rid of manual temperature checks



Reduce products spoilage

Get notified in real time when the refrigerator temperature goes out of allowed range



Fit regulatory compliance

Get all information from temperature and humidity sensors in easy to use online reports

**Automated Blood Management Refrigerator
Used at Blood Station**



HXC-429TR

HXC-629TR

HXC-1369TR

**Automated Blood Management Refrigerator
Used at Hospital**



HXC-149R

HXC-429R

HXC-629R



Microprocessor Control



High Efficiency Inverter Compressor



Multiple Alarms



Precise Temperature Control 4°C±1°C



Double Protection Door Lock Mechanism



Cold Chain Real-time Monitoring



Functional Characteristics



- Equipped with cold chain monitoring module and temperature and humidity.
- Storage temperature is maintained at 2~6°C once cooler is fully charged; without power the transfer temperature is maintained at 2~10°C.
- Storage security is enhanced with NFC swipe card module, lock/unlock status information is uploaded in real-time.
- 12V and 220V power supply for in-vehicle operation.
- Energy-efficient optimized semi-conductor refrigeration technology.

Automated Blood Management Network



Hospital Solution – Technology Advantage

Haier Biomedical's intelligent blood management system ensures the hospital can allocate and track the blood product usage, record the blood product transfusion in real time, ensure accuracy of transfusion of the blood to the right patient, at the right time and right dose so as to obtain the best practice quality clinical transfusion and improve the efficiency of blood management and the blood use safety for blood recipients.

Blood Type Matching Time

40 minutes



1 minutes

Blood Delivery Time

18 minutes



18 seconds

Reagent Usage And Costs



Zero Error Storage Bags





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Note: If a slight difference occurs between pictures and actual products, please refer to actual products. Our company reserves the right of final interpretation of this brochure, please contact us for any further information if required.