

-86°C ULT Freezer

DW-86L51J



Scope of Application :

This product is suitable for pharmaceutical users, the ULT freezer is for the storage of clinical samples and long-term storage of samples in blood stations, hospitals, epidemic prevention stations, scientific research institutes and biological products research institutes as key examples.

Innovative Design

- Ergonomic & User Friendly Design
- Hydrocarbon Energy Saving
- Safe, Secure and Reliable
- Microprocessor Control System
- Tool-free Removable Filter Design
- Multiple Data Ports

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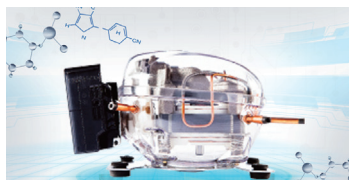


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Product Advantages



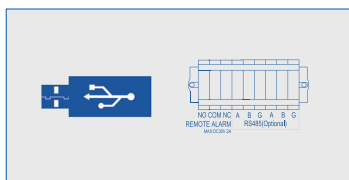
Auto-cascade Hydrocarbon (HC) Refrigeration Technology

Utilizing imported auto-cascade hydrocarbon compressor, with superior refrigeration effect and energy saving



Microprocessor Control System

Microprocessor control, with temperature display precision at 0.1°C. Internal temperature is adjustable from of -40°C ~ -86°C



Multiple Ports

Enables users to download historical temperature data for the past 15 years
Equipped with remote alarm function and RS485 port



Filter Design

Tool-free removable filter design, easy and quick to clean the filter



Excellent Doors Seals

Total six gaskets to safeguard the freezer temperature, including a 70mm insulation layer, a 25mm vacuum VIP and 4 layers of silicone seal



Stainless Steel Inner Door

Prevent loss of inside cold air and easy to clean

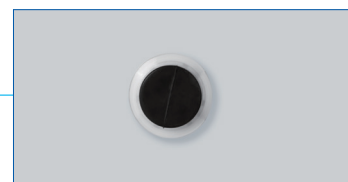


Ergonomic Design

Unique hook slide, which allows users to open and close with one hand

Internal Lock

Standard internal lock with 4 keys, which can be managed by different people



Porthole

One porthole as standard, allows for independent testing of cabinet temperature

Technical Parameters

Model	Power Supply (V/Hz)	Power (W)	Effective Volume (L)	Temperature (°C)	External Dimensions (W*D*H)(mm)	Internal Dimensions (W*D*H)(mm)	Weight (kg)	Sample Size (2ml)
DW-86L51J	220~240/50	320	51	-40~-86	532*640*806	330*481*316	86	3000

*Haier Biomedical reserves the right to change products and specifications without prior notice.

Personal -86°C ULT Freezer



DW-86L100J

Typical Installation and Application

Suitable for clinical, medical, scientific research, quarantine and other departments to store items under low temperature conditions. Applicable for universities, hospitals, disease prevention and control centres, blood stations, scientific research institutes, electronics and chemical enterprise laboratories and biomedical engineering research institutes.

For storage of biological products and biological samples such as red and white blood cells, viruses, bone and bacteria. Also used for electronic devices and other materials used for cryogenic tests.



Energy Efficient, Safe and Reliable

High efficiency HC refrigeration system, optimised for energy efficiency delivering a power consumption figure of just 5.5 kW·h/24 h



Personal ULT Storage

810mm cabinet height makes it easy to place on or under bench, saving storage space. Stackable design.



Ergonomic Design

Ergonomic handle design ensures easy one-hand door opening.



Low Noise

Optimized noise reduction cabinet and system design, emits sound level of only 46.8 dB.

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Haier Biomedical -86°C Personal ULT Freezer
 Energy-efficient HC refrigeration design. Secure and reliable. Intelligent Control.

VIP insulation and multilayered sealing design
 70mm insulating layer with 25mm VIP and 4 layers of gasket improves energy efficiency and reduces heat loss to ensure superior heating preservation time in event of power failure.

Optional IoT Module
 Real time monitoring of cabinet temperature, temperature setting, high and low temperature alarm value, temperature curve, alarm log and event log.

Ergonomic design for easy door opening and closing. Lockable and equipped with 4 keys as standard with the availability of adding a padlock for extra security when required.

Double stainless-steel inner doors to prevent cooling loss when opening the outer door, easy to clean.

Filter is easy to remove and clean without the need for tools.

4 casters + 2-foot locks, easy to move, lock and level.

- User-settable parameters such as temperature pre-set and alarms.
- Real-time cabinet temperature display, alarm information, power supply and compressor start/stop status.
- Standard USB port capable of storing more than 15 years of operating data for compliance.



Microprocessor control system

- Microprocessor control with LED temperature display. The adjustable precision is 1 °C. And the temperature in the unit is adjustable from -40 °C to -86 °C.
- Cabinet temperature/voltage/ambient temperature checking are available.
- Multiple fault alarms: High/low temperature, high/low voltage, high ambient, sensor error, door ajar, power failure, low battery, remote alarm, and hot condenser alarm.
- Two types of alarms: Audible buzzer alarm and flashing light alarm.
- Battery backup alarm function operates continuously for >24hrs in the event of a power outage.
- Standard configuration: RS485 port and USB interface.
- Standard 5V power supply available for test equipment.
- Optional IoT module.



Superior thermal insulation performance

70mm super thick insulation layer design, aviation vacuum insulation material VIP, thickness of 25 mm or more, 4 layers of silicone seal, superior thermal insulation and energy saving effect.



Porthole

Portholes as standard, allows for independent testing of cabinet temperature.



Security lock

Standard door lock and padlock to ensure sample security and prevent unauthorised access.

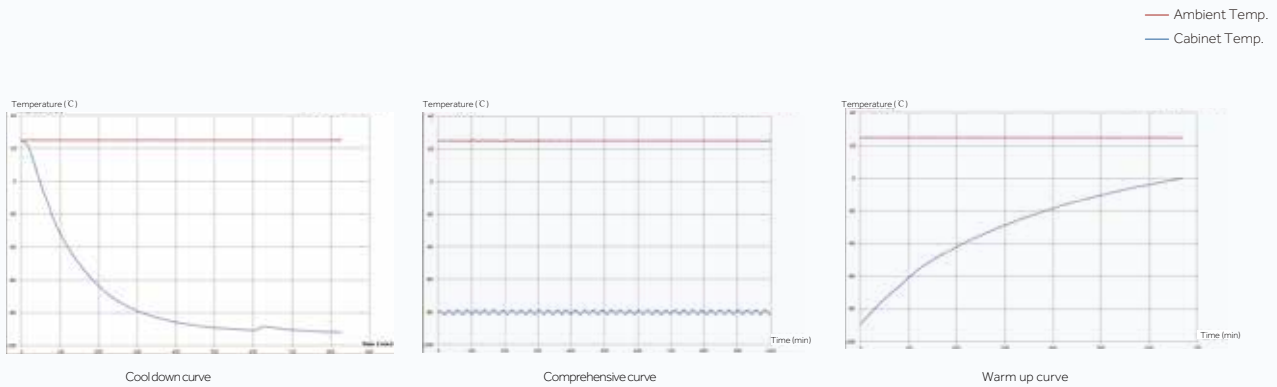


USB data storage

Capable of storing more than 15 years of data.

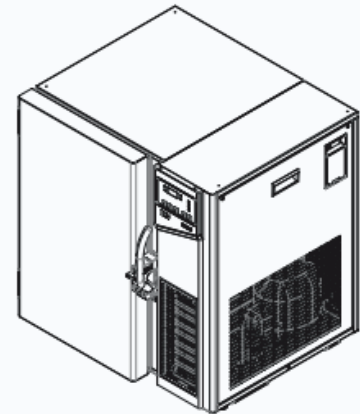
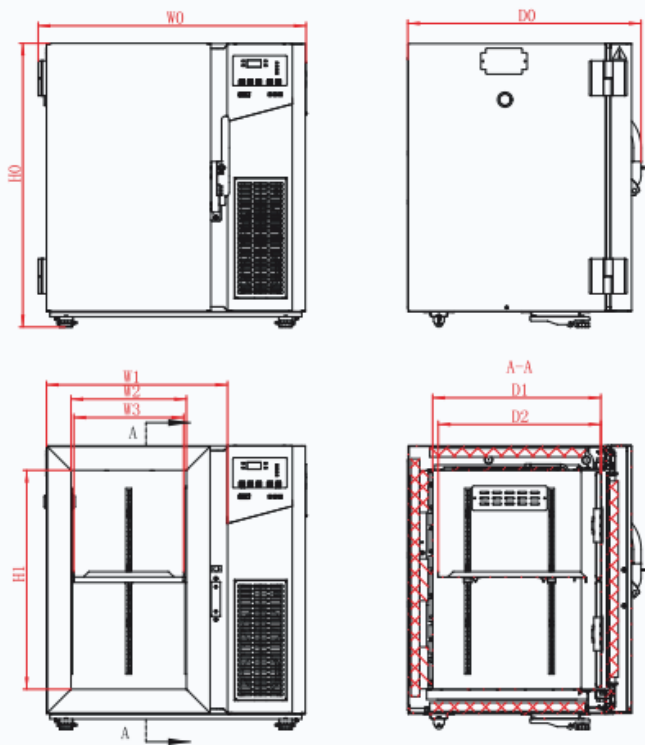


Typical Performance Characteristics in 25 °C Ambient: DW-86L100J



Cooling Time(ambient temperature reducing to -80 °C)	Temperature Uniformity	Time for inside temperature to rise back from -80 °C to -50 °C naturally at ambient 25 °C
310min	±4°C	120min

Product Dimension Drawing



KEY

- W0=TOTAL WIDTH
- W1=FREEZER WIDTH
- W2=INNER CABINET WIDTH
- W3=INNER CABINET SHELF WIDTH
- D0=TOTAL DEPTH
- D1=INNER CABINET DEPTH
- D2=INNER CABINET SHELF DEPTH
- H0=TOTAL HEIGHT
- H1=INNER CABINET HEIGHT

CODE MODEL	W0	W1	W2	W3	D0	D1	D2	H0	H1
DW-86L100J	770mm	520mm	330mm	314mm	660mm	481mm	465mm	810mm	630mm



Model		DW-86L100J	
Technical Data	Cabinet Type	Upright	
	Climate Class	N	
	Cooling Type	Direct cooling	
	Defrost Mode	Manual	
	Refrigerant	HC	
	Noise (dB (A))	46.8	
Performance	Cooling Performance (°C)	-86	
	Temp Range (°C)	-40~-86	
Control	Controller	Microprocessor	
	Display	LED	
Electrical Data	Power Supply (V/Hz)	220~240/50	120/60
	Power (W)	680	680
	Electrical Current (A)	3	6.5
	Capacity (L/Cu.Ft)	100/3.5	
Construction	Net/Gross Weight (approx)	(kg)	108/132
		(lbs)	238/291
	Interior Dimension (W*D*H)	(mm)	330*481*630
		(in)	13*19*25
	Exterior Dimension (W*D*H)	(mm)	770*660*810
		(in)	30*26*32
Packing Dimension (W*D*H)	(mm)	830*710*970	
	(in)	32*28*38.5	
Loading Quantities	Container Load (20'/40'/40'H)	44/88/88	
Alarms	Remote Alarm	Y	
	High/Low Temperature	Y	
	Hot Condenser	Y	
	Power Failure	Y	
	High/Low Voltage	Y	
	Sensor Error	Y	
	Low Battery	Y	
	High Ambient Temperature	Y	
	Door Ajar	Y	
Accessories	Caster	Y	
	Foot	Y	
	Porthole	Y/1	
	Shelves/ Inner Doors	1/2	
	USB Interface	Y	
	5V Power Supply Port	Y	
	RS485 Port	Y	
Certification	CE/UL	Y/Y	

Product appearance and specifications are subject to change without notice