

Personal -86°C ULT Freezer

Typical Installation and Application

guarantine and other departments to store items under low temperature conditions. Applicable for laboratories and biomedical engineering research

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

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



Ergonomic Design













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



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 >24 hrs 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.



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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.





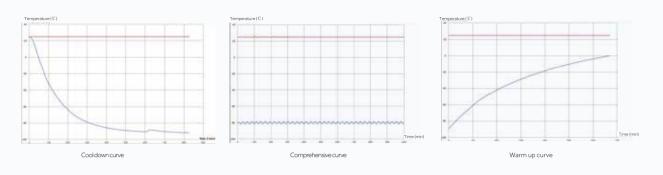
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Typical Performance Characteristics in 25 [°]C Ambient: DW-86L100J

Ambient Temp.
Cabinet Temp.

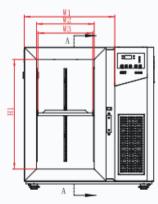
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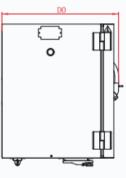


Cooling Time(ambient temperature reducing to -80 °C)	Temperature Uniformity	Time for inside temperature to rise back from-80 $^\circ$ to -50 $^\circ$ naturally at ambient 25 $^\circ$		
310min	±4°C	120min		

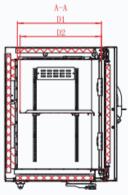
Product Dimension Drawing

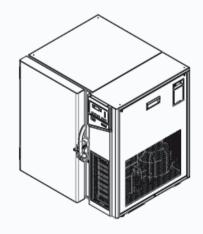






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KEY

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

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

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Model			DW-80	DW-86L100J		
	Cabinet Type	Cabinet Type		Upright		
	Climate Class	Climate Class		N		
Technical Data	Cooling Type	Cooling Type		Direct cooling		
	Defrost Mode	Manual				
	Refrigerant	НС				
	Noise (dB (A))	46.8				
	Cooling Performance (°C)		-86			
Performance	Temp Range (°C)	-40~-86				
	Controller					
Control			Microprocessor			
		Display				
	Power Supply (V/Hz)		220~240/50	120/60		
Electrical Data	Power (W)		680	680		
	Electrical Current (A)	Electrical Current (A)		6.5		
	Capacity (L/Cu.Ft)	100/3.5				
	Net/Gross	(kg)	108/1			
	Weight (approx)	(lbs)	238/2			
Construction	Interior Dimension (W*D*H)	(mm) (in)	330*483			
	Exterior	(mm)	770*660*810			
	Dimension (W*D*H)	(in)	30*26*32			
	Packing Dimension (W*D*H)	(mm)	830*710*970			
Loading Quantities	Container Load (20'/40'/40'H)	(in)	32*28*38.5 44/88/88			
Loduing Quantities	Remote Alarm					
		Y				
	High/Low Temperarture		Y Y			
		Hot Condenser				
Alarms	Power Failure	Y				
AldITTIS	High/Low Voltage	Y				
	Sensor Error	Y				
	Low Battery	Y				
	High Ambient Temperarture	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				
	1.04051 012	Y/Y				

Product appearance and specifications are subject to change without notice

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