

Personal **-86°**C **ULT Freezer**



DW-86L100J

Typical Installation and Application

under low temperature conditions. Applicable for universities, hospitals, disease prevention and laboratories and biomedical engineering research for electronic devices and other materials used for



Energy Efficient, Safe and Reliable

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

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



Low noise

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



Haier -86°C Personal ULT Freezer

Energy-efficient HC refrigeration design. Secure and reliable. Intelligent Control.



Microprocessor control system

- Microcomputer electronic thermostat, LED temperature display, display precision 0.1 °C, adjustable cabinet temperature set point -40 °C ~- 86 °C.
- Cabinet temperature/voltage/ambient temperature checking are available.
- Multiple alarm functions: high temperature alarm, low temperature alarm, sensor fault alarm, power failure alarm, low battery power alarm, open door alarm and high ambient temperature alert.
- Sound and light alarm mode, attachable to remote alarm interface.
- Battery backup alarm function operates continuously for >24hr 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.



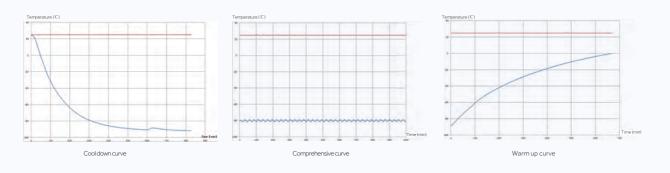




Typical Performance Characteristics in 25 [°]C Ambient: DW-86L100J

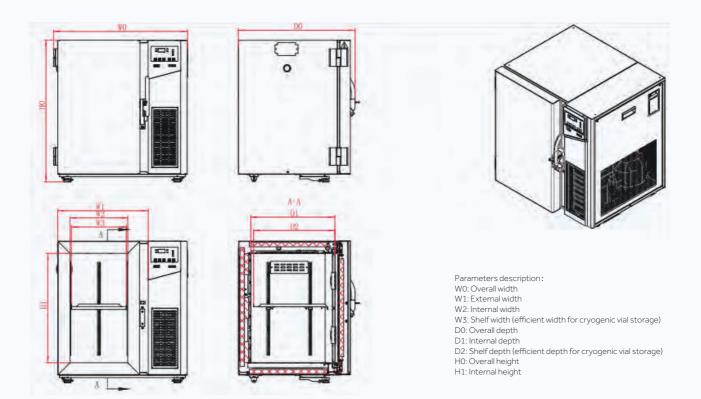
— Ambient Temp.
— Cabinet Temp.

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Cooling Time(ambient temperature reducing to -80 $^\circ$)	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



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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Specifications	<
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Model			DW-86L		
	Cabinet Type	Upright			
	Climate Class	N			
Technical Data	Cooling Type		Air cooling		
rechnical Data	Defrost Mode		Manual		
	Refrigerant				
			HC		
	Noise((dB(A))		46.8		
Performance	Cooling Performance(°C)		-86		
	Temp Range(°C)		-40~-86°C		
Control	Controller		Microproces		
Control	Display		LED		
	Power Supply(V/HZ)		220~240/!		
	Power(W)		680W(220V/5		
Electrical Data	Electrical Current(A)		3A(220V/50		
	Capacity(L/Cu.Ft)		100L		
	Net/Gross Weight(approx)	(kg) (lbs)	108/132 238/291		
	Interior Dimension(W*D*H)	(IDS)	330×481×6		
		(in)	13×19×25		
Dimensions		(mm)	770×660×8		
	Exterior Dimension(W*D*H)	(in)	30×26×32		
		(mm)	830x710x97		
	Packing Dimension(W*D*H)	(in)	33x28x38.		
	Container Load (20'/40'/40'H)		44x88x88		
	Remote Alarm	Y			
	High/Low Temp	Y			
	Hot Condenser		Y		
Functions	Power Failure		Y		
	Sensor Error	Y			
	Low Battery	Y			
	High Ambient Temp	Y			
	Door Ajar		Y		
	Caster		Y		
	Foot		4		
	Porthole	1			
Accessories	Shelves	1			
	USB Interface	Y			
	5V Power Supply Port		Y		
	RS485 Port		Y		
Other	Certificate		CE		

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