

# **Personal** -86°C ULT Freezer



#### **Typical Installation and Application**

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

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.



## Qingdao Haier Biomedical Co., Ltd.

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### **Product Features**



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 >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

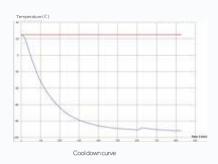
Capable of storing more than 15 years of data.

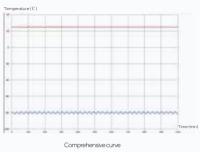


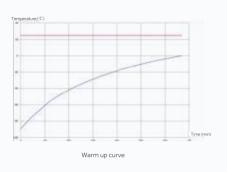
## Typical Performance Characteristics in 25 ℃ Ambient: DW-86L100J



 Ambient Temp. — Cabinet Temp.







Cooling Time(ambient temperature							
reducing to -80 $^{\circ}$ (							
310min							

**Temperature Uniformity** 

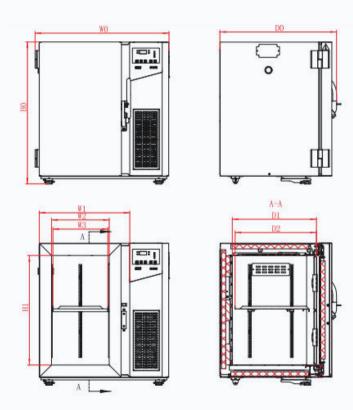
Time for inside temperature to rise back from-80  $^{\circ}$  to -50  $^{\circ}$  naturally at ambient 25  $^{\circ}$ 

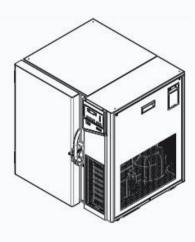
±4℃

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

## Specifications ()

	DW-86L100J					
	Cabinet Type	Upright				
	Climate Class	N				
Technical Data	Cooling Type	Direct cooling				
reen near Data	Defrost Mode	Manual				
	Refrigerant	HC				
	Noise (dB (A))	46.8				
	Cooling Performance (°C)	-86				
Performance	Temp Range (°C)	-40~-86				
	Controller	Microprocessor				
Control	Display	LED				
	Power Supply (V/Hz)	220~240/50	120/60			
	Power (W)	680	680			
Electrical Data	Electrical Current (A)	3	6.5			
	Capacity (L/Cu.Ft)	100/3.5				
	Net/Gross	(kg)	108/1			
	Weight (approx)	(lbs)	238/29			
	Interior	(mm)	330*481	*630		
Construction	Dimension (W*D*H)	(in)	13*19*			
	Exterior Dimension (W*D*H)	(mm)	770*660*810 30*26*32			
		(in) (mm)	830*710*970			
	Packing Dimension (W*D*H)	(in)	32*28*38.5			
Loading Quantities	Container Load (20'/40'/40'H)					
	Remote Alarm	Y				
	High/Low Temperarture	High/Low Temperarture				
	Hot Condenser	Y				
	Power Failure	Y				
Alarms	High/Low Voltage	Y				
	Sensor Error	Y				
	Low Battery	Y				
	High Ambient Temperarture	Y				
	Door Ajar	Y				
	Caster	Y				
	Foot	Y				
	Porthole	Y/1				
Accessories	Shelves/Inner Doors	1/2				
	USB Interface	Y				
	5V Power Supply Port	Y				
	RS485 Port	Y				
 Certification		CE/UL				
Certification	CE/UL		Y/Y			

 $\label{product} \mbox{Product appearance and specifications are subject to change without notice}$