

# Haier Biomedical Intelligent Protection of Life Science



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

Suitable for clinical, medical, scientific research, quarantine and other departments to store items under low temperature conditions. Applicable for laboratories and biomedical engineering research sample biological samples such as red and white 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.



#### Personal ULT Storage

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



#### Ergonomic design



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#### **Product Features**



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  $^{\circ}$ C , adjustable cabinet temperature set point -40  $^{\circ}$ C ~-86  $^{\circ}$ 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.



#### 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.

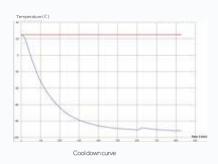


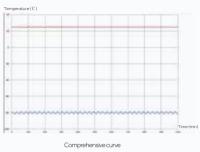


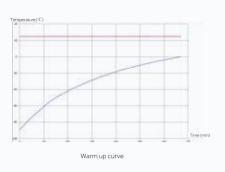
## Typical Performance Characteristics in 25 °C Ambient: DW-86L100J



 Ambient Temp. – Cabinet Temp.







Cooling Time(ambient temperature
reducing to -80 ℃)
210min

**Temperature Uniformity** 

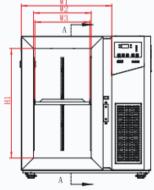
Time for inside temperature to rise back from-80  $^{\circ}$  to -50  $^{\circ}$  naturally at ambient 25  $^{\circ}$ 

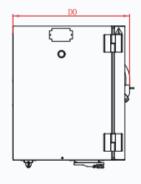
±4℃

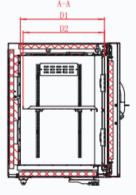
## **Product Dimension Drawing**

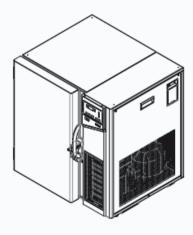












Parameters description:

W0: Overall width

W1: External width

W2: Internal width

W3: Shelf width (efficient width for cryogenic vial storage)

D0: Overall depth

D1: Internal depth

D2: Shelf depth (efficient depth for cryogenic vial storage)

H0: Overall height H1: Internal height

CODE	Wo	W1	W2	W3	D0	D1	D2	Н0	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				
recrimedi bata	Defrost Mode	Manual				
	Refrigerant	HC				
	Noise((dB(A))	46.8				
	Cooling Performance(°C)	-86				
Performance	Temp Range( °C )	-40~-86				
0 1 1	Controller	Microprocessor				
Control	Display	LED				
	Power Supply(V/Hz)	220~240/50	120/60			
	Power(W)					
Electrical Data	Electrical Current(A)	3	6.5			
	Capacity(L/Cu.Ft)	100/3.5				
	Net/Gross	(kg)	108/1	32		
	Weight(approx)	(lbs)	238/2			
	Interior Dimension(W*D*H)	(mm) (in)	330×481×630 13×19×25			
Dimensions	Exterior	(mm)	770×660×810			
	Dimension(W*D*H)	(in)	30×26×32			
	Packing	(mm)	830x710x970			
	Dimension(W*D*H)	33x28x38.5				
	Container Load(20'/40'/40'H)	Container Load(20'/40'/40'H)				
	Remote Alarm	Y				
	High/Low Temperarture	High/Low Temperarture				
	Hot Condenser	Y				
Functions	Power Failure	Y				
	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	Υ				
Other	Certificate		CE	UL		