

#### **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 sample 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  $5.5 \, kW/24 hr$ .



#### 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 desig emits sound level of only 46.8dB.



## **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.

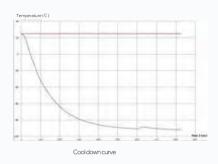


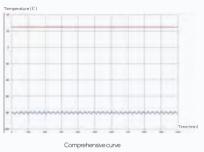


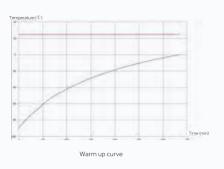
## Typical Performance Characteristics in 25 ℃ Ambient: DW-86L100J











Cooling Time(ambient temperature reducing to -80℃)							

Temperature Uniformity

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

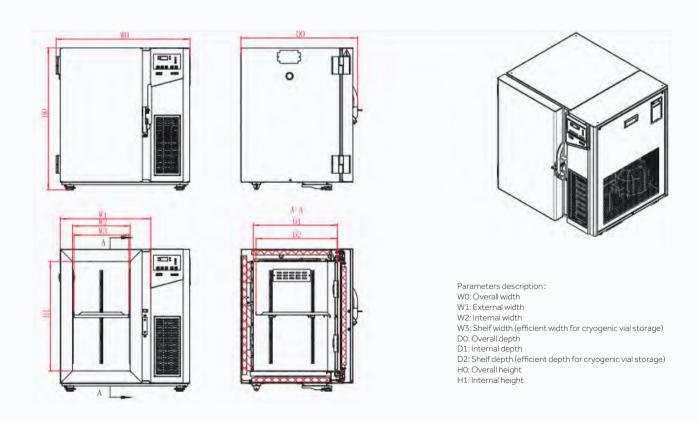
10min

±4℃

120min

## **Product Dimension Drawing**





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



# Specifications ()

Мо	DW-86L100J				
	Cabinet Type	Upright			
	Climate Class	N			
Technical Data	Cooling Type	Direct cooling			
reer mear Data	Defrost Mode	Manual			
	Refrigerant	HC			
	Noise((dB(A))	46.8			
	Cooling Performance(°C)	-86			
Performance	Temp Range(℃)	-40~-86			
	Controller	Microprocessor			
Control	Display	LED			
	Power Supply(V/Hz)				
	Power(W)	220~240/50 680	120/60		
Electrical Data	Electrical Current(A)	3	6.5		
	Capacity(L/Cu.Ft)	100/3			
	Net/Gross	(kg)	108/1		
	Weight(approx)	(lbs)	238/291		
	Interior	(mm)	330×481	×630	
Dimensions	Dimension(W*D*H)	(in)	13×19×25		
2	Exterior	(mm)	770×660×810		
	Dimension(W*D*H)	(in)	30×26×32 830×710×970		
	Packing Dimension(W*D*H)	(mm) (in)	33x28x38.5		
	Container Load(20'/40'/40'H)	44/88/88			
	Remote Alarm	Y			
	High/Low Temperarture	Y			
	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	Y			
Other	Certificate	CE	UL		

