

Haier Biomedical
Intelligent Protection of Life Science

Personal -86°C ULT Freezer



DW-86L100J

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 5.5kW/24hr.



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 design, emits sound level of only 46.8dB.

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Product Features

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

VIP insulation and multilayered sealing design

70mm insulating layer with 25mm VIP and 4 layers of gasket improves energy efficiency and reduces heat loss to deliver excellent warm up times in event of power failure.



Ergonomic design for easy door opening and closing. Lockable and equipped with 4 keys as standard with the ability to add a padlock for extra security when required.



Optional IoT Module

Real time monitoring of cabinet temperature, temperature setting, high and low temperature alarm value, temperature curve, alarm log and event log.



- User-settable parameters such as set point and alarms.
- Real-time cabinet temperature display, alarm information, power supply and compressor start/stop state.
- Standard USB port capable of storing >15 years of operating data for compliance.

Filter is easy to remove and clean without the need for tools.

4 casters + 2-foot locks, easy to move, lock and level.



Double stainless-steel inner doors to prevent cooling loss when opening the outer door, easy to clean.



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.



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.

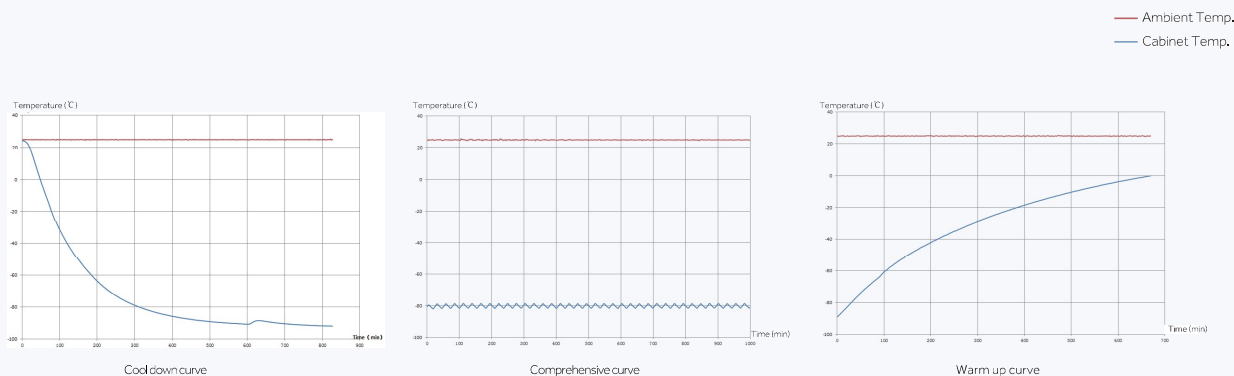


USB data storage

Capable of storing more than 15 years of data.



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



Cooling Time(ambient temperature reducing to -80 °C)

310min

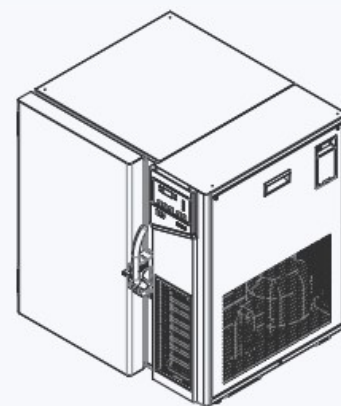
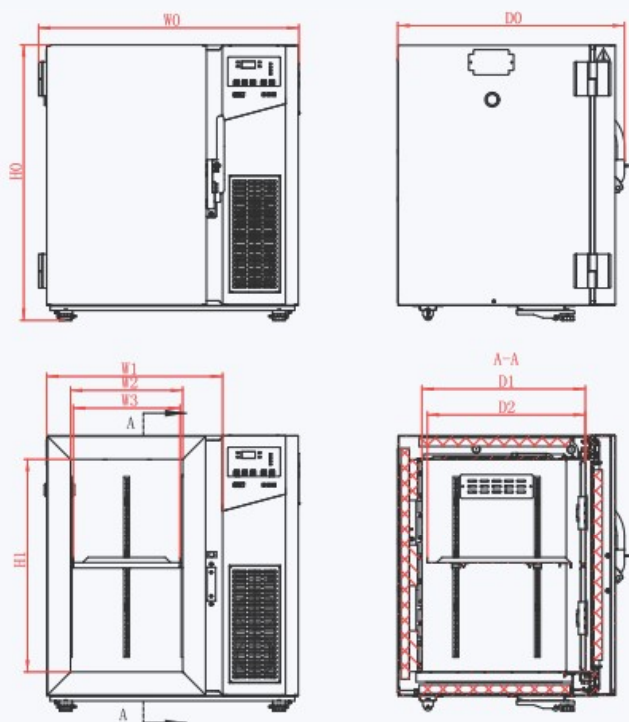
Temperature Uniformity

±4°C

Time for inside temperature to rise back from -80 °C to -50 °C naturally at ambient 25 °C

120min

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 MODEL	W0	W1	W2	W3	D0	D1	D2	H0	H1
DW-86L100J	770mm	520mm	330mm	314mm	660mm	481mm	465mm	810mm	630mm

Specifications



Model		DW-86L100J	
Technical Data	Cabinet Type		Upright
	Climate Class		N
	Cooling Type		Air cooling
	Defrost Mode		Manual
	Refrigerant		HC
	Noise(dB(A))		46.8
Performance	Cooling Performance(°C)		-86
	Temp Range(°C)		-40~-86°C
Control	Controller		Microprocessor
	Display		LED
Electrical Data	Power Supply(V/Hz)		220~240/50
	Power(W)		680W(220V/50Hz)
	Electrical Current(A)		3A(220V/50Hz)
	Capacity(L/Cu.Ft)		100L
Dimensions	Net/Gross Weight(approx)	(kg)	108/132
		(lbs)	238/291
	Interior Dimension(W*D*H)	(mm)	330×481×630
		(in)	13×19×25
	Exterior Dimension(W*D*H)	(mm)	770×660×810
		(in)	30×26×32
	Packing Dimension(W*D*H)	(mm)	830×710×970
(in)		33×28×38.5	
Container Load(20'/40'/40'H)		44x88x88	
Functions	Remote Alarm		Y
	High/Low Temp		Y
	Hot Condenser		Y
	Power Failure		Y
	Sensor Error		Y
	Low Battery		Y
	High Ambient Temp		Y
	Door Ajar		Y
Accessories	Caster		Y
	Foot		4
	Porthole		1
	Shelves		1
	USB Interface		Y
	5V Power Supply Port		Y
	RS485 Port		Y
Other	Certificate		CE