

# -150°C Cryo Freezer



**DW-150W209**

## Scope of Application :

A mechanical cryogenic freezer is used for the long-term cryopreservation of samples such as cell cultures, tissue samples, bacteria, viruses and non-biological products such as electronics. Applications include cord blood preservation, biobanks, reproductive procedures, blood banks, life science research, biomedical engineering and fisheries. Mechanical cryopreservation is a safe alternative to LN<sub>2</sub> and can reduce or eliminate the reliance on LN<sub>2</sub>, reducing safety concerns.

## Innovative Design

- ◉ 100% Hydrocarbon refrigeration technology
- ◉ Energy-efficient and Environmentally-friendly
- ◉ Quiet, low noise operation
- ◉ Safe and reliable
- ◉ Intelligent control

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## Product Advantages



### Hydrocarbon energy-saving refrigeration technologies

- Includes specialist industrial compressor, hydrocarbon refrigerant, dual-compressors 4-stage cascade refrigeration system, which delivers excellent energy-efficiencies
- Energy-efficient fan design with intelligent start/stop



### Environmentally friendly

- HC refrigerant, truly environmentally-friendly refrigeration system with zero global warming potential (GWP)
- LBA polyurethane foam has low GWP and is significantly lower than most HFCs commonly used, offering better environmental protection



### Superior Uniformity

The temperature uniformity is  $\pm 5^{\circ}\text{C}$  with the setting temperature of  $-150^{\circ}\text{C}$



### Safe, Secure and Reliable

The standard ambient temperature ranges from  $10^{\circ}\text{C}$  to  $32^{\circ}\text{C}$ . The pressure state of the system can be automatically adjusted by the pressure controller to prevent the pressure from being too high to effect the freezer operation. Multiple alarms, including high and low temperature, power failure, door ajar, hot condenser, low battery, sensor error, and high ambient temperature.



### Low noise

Noise-reduction features and system ensure a low noise output of just 55dB

## Functional Details

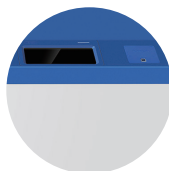
### Integrated stainless steel hinge

Lid opening with stopping mechanism, angle  $>45^{\circ}$



### Intelligent touchscreen controller and multiple interfaces

Angled LCD screen allows users to view data clearly



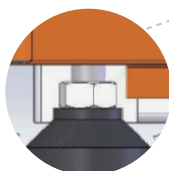
### Electric control module

Standard USB port. Optional fingerprint lock, NFC card lock



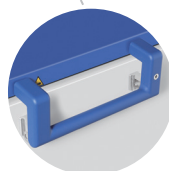
### Access Port

One 25mm test hole



### Adjustable foot

Large adjustable feet, easy to level



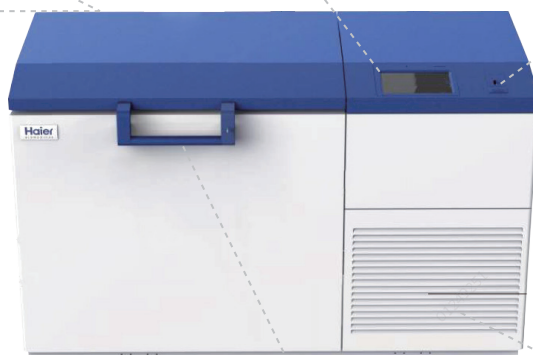
### Integrated lid and handle

Easy to grasp, comfortable to use and durable



### Magnetic front cover

Screwless design making it easy to remove and clean the filter



## Product Details

### • Microprocessor controller

Equipped with a microprocessor controller and a 10.1 inch LCD screen with display accuracy at 0.1°C to show the cabinet and ambient temperature, voltage and other data clearly. The temperature inside the cabinet is adjustable from -130°C to -150°C.

### • Safe and secure

Integrated handle, equipped with key lock and padlock as standard with optional electromagnetic lock and finger-print lock, providing multiple safeguards for sample safety.

### • Large capacity USB

Enables users to download historical temperature data (up to 15 years) for compliance and auditing purposes.

### • Backup power, extended standby

Equipped as standard with two lithium batteries which allows extended information/data availability, even after power cutoff.

### • Multiple alarms

Including high and low temperature alarm, sensor error, hot condenser, power failure, low battery, door ajar, high ambient temperature and other alarm functions.

### • Superior insulation performance

The VIP and polyurethane foam (140mm) cabinet design, multiple door seals, two inner lids to prevent cold loss, delivers excellent thermal efficiencies.

### • Compatible with freezer racks design

The internal height of the compartment means that various racks can be used for storage for flexibility.

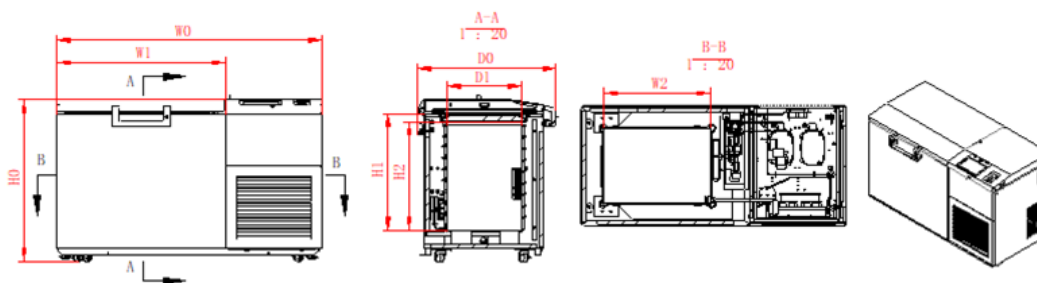
### • Networking functions

A standard RS485 port is configured to be connected to the monitoring software.

### • Anti-defrost design

Built-in halo heater reduces frost build-up.

## Product Dimension Drawings



#### Remark:

W0-Total Width  
W1-Cabinet Width  
W2-Inner Cabinet Effective Width  
D0-Total Depth  
D1-Inner Cabinet Effective Depth  
H0-Total Height  
H1-Inner Cabinet Height  
H2-Inner Cabinet Effective Height

Model	Code	W0	W1	W2	H0	H1	H2	D0	D1
DW-150W209		1650mm	1050mm	667mm	1010mm	727mm	677mm	860mm	462mm

## Specifications



Model	DW-150W209		
Technical Data	Cabinet type		Chest
	Climate class		N
	Cooling type		Direct cooling
	Defrost mode		Manual
	Refrigerant		HC
	Sound level (dB(A))		55
Performance	Cooling performance (°C)		-150
	Temperature range (°C)		-130 ~ -150
Control	Controller		Microprocessor
	Display		LCD
Electrical Data	Power supply (V/Hz)		220~240/50
	Power (W)		1600
	Max power draw (W)		1750
	Electrical current (A)		10
Dimensions	Capacity (L/Cu.Ft)		209/7.4
	Net/gross weight (approx)	kg	260/295
		lbs	573.2/650.4
	Interior dimensions (W*D*H)	mm	667*462*677
		in	26.3*18.2*26.7
	Exterior dimensions (W*D*H)	mm	1650*860*1010
		in	65.0*33.9*39.8
	Packing dimensions (W*D*H)	mm	1810*940*1190
		in	71.3*37.0*46.9
Functions	Container load (20'/40'/40'H)		6/13/13
	High/Low temperature		Y
	Hot condenser		Y
	Power failure		Y
	High/Low voltage		Y
	Sensor error		Y
	Low battery		Y
	High ambient temperature		Y
	Door ajar		Y
Accessories	Start-up delay		Y
	Caster		Y
	Foot		Y
	Porthole		Y/1
	Inner doors		-/2
	USB interface		Y
	Remote alarm		Y
	5V power supply port		Y
	Temperature chart recorder		Optional
	RS485 port		Y
	LN2 backup system		Optional
	Freezing rack		DCJ-10-A Quantity: 12
Certification	CE		Y