

ULT Freezer



DW-86L419/579/729/829

Making Your Lab More Intelligent and Reliable

● Intelligent Inventory Management

10-inch touchscreen with single version inventory management allows users to easily record item locations, entry and exit records for intelligent stock management.

● Safe and Reliable Storage

Temperature uniformity $\leq \pm 4^{\circ}\text{C}$, equipped with an intelligent temperature monitoring system, real-time temperature data monitoring function and multiple safety alarm system.

● Energy Saving and Environmentally Friendly

The optimized hydrocarbon refrigeration system is more environmentally friendly and uses significantly less energy than older technologies, saving up to 30% on electricity. ENERGY STAR certified.

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Ergonomic Design



Narrow Door Design

The freezer can pass through a 830mm wide door when the freezer door is open.



New Handle Design

Adopting exclusive slide design, easy to open and close the door



Improved Pressure Relief Port

Re-entry time shortened to just 60 seconds



Porthole

Two portholes as standard, allows for independent testing of cabinet temperature



Filter Design

Tool-free removable filter, making it easy and quick to clean the filter



Detachable Inner Door Design

Tool-free detachable inner door, ensuring easy and quick defrost



Product Advantages

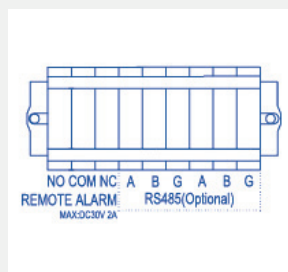


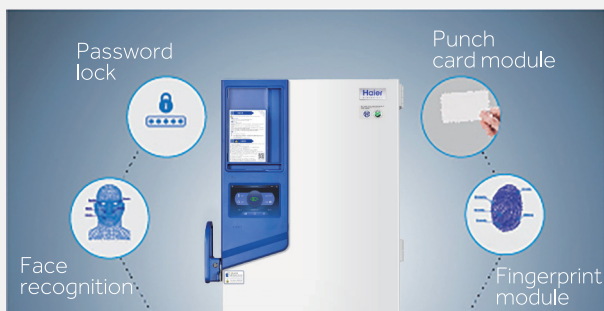
Large Intelligent LCD Screen Visual Management

10-inch high-performance LCD capacitive screen, sensitive touch operation; intuitive display of inside temperature, ambient temperature, input voltage and other data and temperature curves.

Equipped with Multiple Interfaces

- Standard USB interface, capable of storing data for 10 years
- Standard remote alarm terminal and RS485 port





Multiple Options for Safe Management and Control Systems

Password lock as standard with optional fingerprint module, face recognition and punch card system. Multi-person management control option to ensure safe and secure storage.

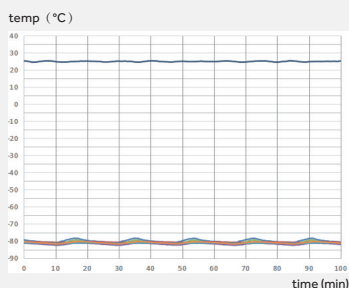
Optional IoT System Real-time Monitoring

The IoT APP can monitor the operating status of the equipment anytime and anywhere. The unit is equipped with self-diagnose system faults and alarm functions, ensuring sample safety.



Safe and Secure with Multiple Alarms

Designed and manufactured with multiple alarm functions, such as high temperature alarm, low temperature alarm, sensor failure alarm, power failure alarm, low battery alarm, door ajar alarm and high ambient temperature alarm to name a few.



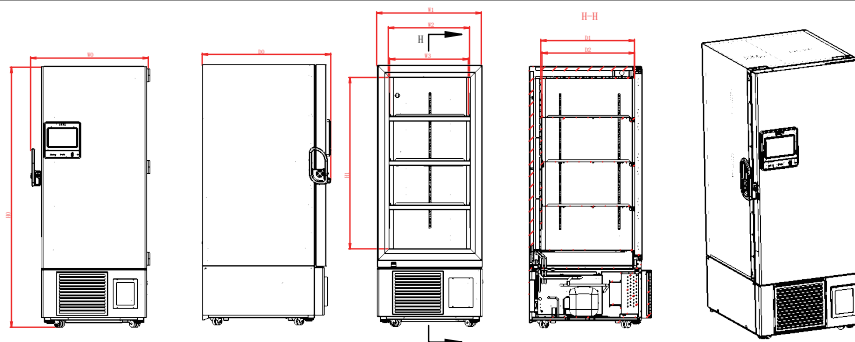
Precise Temperature Control ensures Safe Storage

The setting temperature is adjustable between $-40 \sim -86^{\circ}\text{C}$, monitoring temperature curves in real time, and the temperature safety alarm system is the latest design and state-of-the-art technology.

High-efficiency and Energy-saving Compressor

Adopting high-efficiency HC compressor and optimized refrigeration system, for safe and reliable cold storage of your samples.





W0 --- TOTAL WIDTH
W1 --- FREEZER WIDTH
W2 --- INNER CABINET WIDTH
W3 --- SHELF WIDTH
D0 --- TOTAL DEPTH
D1 --- INNER CABINET DEPTH
D2 --- SHELF DEPTH
H0 --- TOTAL HEIGHT
H1 --- INNER CABINET HEIGHT

Model \ Parameter	W0	W1	W2	W3	H0	H1	D0	D1	D2
DW-86L419	830	725	465	450	1980	1310	980	716	710
DW-86L579	903	800	620	604	1960	1310	980	716	710
DW-86L729	1049	946	766	750	1980	1310	980	716	710
DW-86L829	1159	1050	870	854	1980	1310	980	716	710

Model			DW-86L419	DW-86L579	DW-86L729	DW-86L829	
Technical Data	Cabinet Type		Upright	Upright	Upright	Upright	
	Climate Class		N	N	N	N	
	Cooling Type		Direct cooling	Direct cooling	Direct cooling	Direct cooling	
	Defrost Mode		Manual	Manual	Manual	Manual	
	Refrigerant		HC	HC	HC	HC	
Performance	Sound Level (dB(A))		47	47	52	52	
	Cooling Performance (°C)		-86	-86	-86	-86	
	Temperature Range (°C)		-40~-86	-40~-86	-40~-86	-40~-86	
Control	Controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor	
	Display		LCD touchscreen	LCD touchscreen	LCD touchscreen	LCD touchscreen	
Electrical Data	Power Supply (V/Hz)		220-240/50	220-240/50	220-240/50	220-240/50	
	Max Power (W)		800	1000	1700	1900	
Dimensions	Capacity (L/Cu.Ft)		419/14.8	579/20.45	729/25.75	829/29.3	
	Net/Gross Weight	kg	255/286	300/330	350/385	380/410	
		lbs	562.2/630.5	661.4/727.5	771.6/848.8	837.7/903.9	
	Interior Dimension (W*D*H)	mm	465*716*1310	620*716*1310	766*716*1310	870*716*1310	
		in	18.3*28.2*51.6	24.4*28.2*51.6	30.2*28.2*51.6	34.3*28.2*51.6	
	Exterior Dimension (W*D*H)	mm	830*980*1980	903*980*1960	1049*980*1980	1153*980*1980	
		in	32.7*38.6*78.0	35.6*38.6*77.2	41.3*38.6*78.0	45.4*38.6*78.0	
	Packing Dimension (W*D*H)	mm	870*1070*2110	950*1075*2110	1120*1090*2130	1200*1080*2130	
		in	34.3*42.1*83.1	37.4*42.3*83.1	44.1*42.9*83.9	47.2*42.5*83.9	
	Cabinet Width (without handle and hinge)	mm	725	800	946	1050	
	Container Load (20'/40'/40'H)			12/26/26	12/24/24	10/20/20	10/20/20
	Functions	High/Low Temperature Alarm		Y	Y	Y	Y
Hot Condenser Alarm		Y	Y	Y	Y		
Power Failure Alarm		Y	Y	Y	Y		
High/Low Voltage Alarm		Y	Y	Y	Y		
Sensor Error Alarm		Y	Y	Y	Y		
Low Battery Alarm		Y	Y	Y	Y		
High Ambient Temperature Alarm		Y	Y	Y	Y		
Door Ajar Alarm		Y	Y	Y	Y		
Start-up delay		Y	Y	Y	Y		
Accessories	Caster		Y(4)	Y(4)	Y(4)	Y(4)	
	Leveling feet		Y(2)	Y(2)	Y(2)	Y(2)	
	Porthole		2 rear, (25mm)diameter	2 rear, (25mm)diameter	2 rear, (25mm)diameter	2 rear, (25mm)diameter	
	Inner Doors		2	4	4	4	
	Shelves		3- stainless steel adjustable shelves	3- stainless steel adjustable shelves	3- stainless steel adjustable shelves	3- stainless steel adjustable shelves	
	Shelf Dimensions (W*D)(mm)		441*657	606*649	752*650	856*650	
	Max. Load per Shelf (kg)		54	72	90	108	
	Freezer Racks Quantity (2" boxes)		12	16	20	24	
	Capacity (2" boxes)		300	400	500	600	
	USB Interface		Y	Y	Y	Y	
	Remote Alarm		Y	Y	Y	Y	
	5V Power Supply Port		Y	Y	Y	Y	
	Temperature Chart Recorder		Optional	Optional	Optional	Optional	
	RS232/485 Port		NA/Standard	NA/Standard	NA/Standard	NA/Standard	
	CO ₂ Backup System		Optional	Optional	Optional	Optional	
	LN ₂ Backup System		Optional	Optional	Optional	Optional	
Other	Certification		CE	CE, ENERGY STAR	CE, ENERGY STAR	CE, ENERGY STAR	