

TwinCool ULT Freezer With LED Display



Scope of Application

The TwinCool ULT freezer can be used for the storage and protection of valuable samples which require strict and continuous storage conditions, designed to operate even in the event of a compressor failure. Suitable for viruses, pathogens, blood cells and other biological sample cold storage applications found within hospitals, disease control, research institutions and biomedical engineering. Also used to store special materials and other products within electronics and chemicals industries.

Innovative & Ergonomic Design

- Energy Saving Refrigeration
- Multilayered Sealing Gasket
- Pressure Equalisation Port
- Improved Handle Design
- USB Interface
- Multiple Alarms

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Intelligent TwinCool Refrigeration System

Two independent refrigeration systems are designed to ensure optimal reliability, longevity and efficiency. Depending on the load demands and ambient conditions, one or both refrigeration systems will operate on demand, ensuring the samples are fully protected under the worst possible conditions.

Product Advantages



Maximum Sample Security

The TwinCool system means extra insurance for temperature. Each independent refrigeration system can maintain -80°C separately.

Fast Cabinet Pull Down

Fast and efficient cabinet pulldown, it usually takes an average of three hours to reach -80°C at 25°C ambient. This means the temperature recovery after door opening is excellent ensuring the stored samples are not exposed to undesirable temperatures.

Maximum Energy Efficiency

The TwinCool ultra-low temperature system operates with 8.45 kWh/day.

World-leading Energy Saving Refrigeration Technology

The hydrocarbon refrigeration technology uses less than 50% energy compared to traditional CFC refrigerants to reduce the operating cost. The refrigerants do not contain fluorine or chlorine giving it a GWP value of just three, which is better for the environment.

Reduced Running Costs

VIP thermal insulation system is designed to significantly reduce heat gain and operating cost.



DW-86L578S

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Key Features



Energy Saving Refrigeration

High efficiency cooling fans and compressors, combined with hydrocarbon refrigerants, ensure energy savings and long-term sample security



Multilayered Sealing Structure

Multilayered gaskets decrease heat loss and guarantee excellent warm up times in the event of a power failure



Pressure Equalisation Port

Heated Pressure Equalization Port allows users to re-open the main door quickly when entering. Adopts chromium plating, rust-proof



Improved Handle Design

Lockable handle safeguards your precious samples. A padlock can also be added for extra sample safety



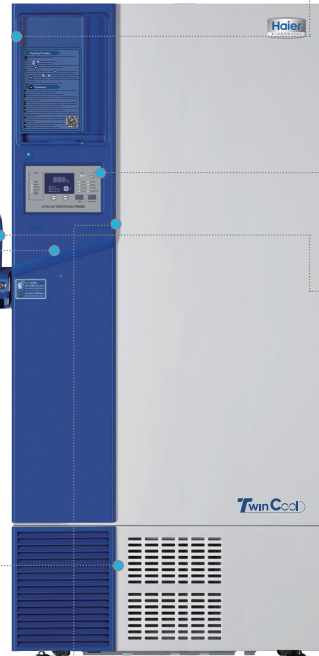
USB Interface

Enables users to download historical temperature data for compliance/auditing purposes



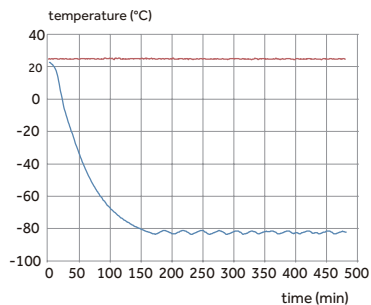
Multi-level Alarms

Alarm functions include high, low temperature, sensor error, power failure, high ambient, clean filter and door ajar

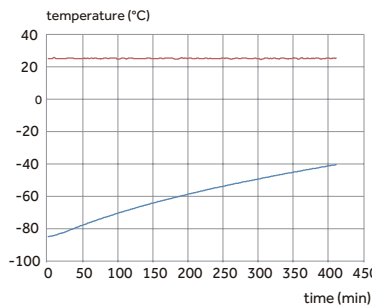


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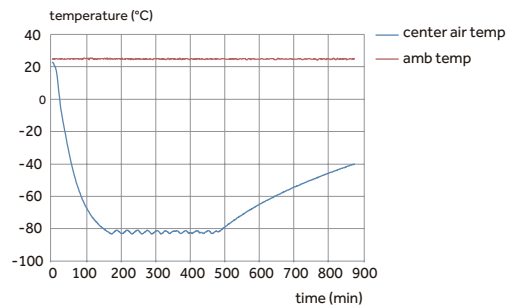
DW-86L578S | TYPICAL PERFORMANCE CHARACTERISTICS AT 25°C AMBIENT



Temperature Cool Down Curve



Temperature Recover Curve



Comprehensive Curve

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Specifications



Model		DW-86L578S	DW-86L728S	
Technical Data	Cabinet Type	Upright	Upright	
	Climate Class	N	N	
	Cooling Type	Direct Cooling	Direct Cooling	
	Defrost Mode	Manual	Manual	
	Refrigerant	HC	HC	
	Sound Level (dB(A))	53	50	
Performance	Cooling Performance (°C)	-86	-86	
	Temperature Range (°C)	-40~-86	-40~-86	
Control	Controller	Microprocessor	Microprocessor	
	Display	LED	LED	
Electrical Data	Power Supply (V/Hz)	220~240/50	220~240/50	
	Electrical Current (A)	10	10	
Construction	Capacity (L/Cu.Ft)	578/20.4	728/25.7	
	Net/Gross Weight (approx)	kg	325/355	350/385
		lbs	716.5/782.6	771.6/848.8
	Interior Dimension (W*D*H)	mm	620*716*1310	766*716*1310
		in	24.4*28.2*51.6	30.2*28.2*51.6
	Exterior Dimension (W*D*H)	mm	895*998*1980	1046*998*1980
		in	35.4*39.3*78.0	41.2*39.3*78.0
	Packing Dimension (W*D*H)	mm	975*1095*2130	1120*1090*2130
in		38.4*43.1*83.9	44.1*42.9*83.9	
Loading Quantities	Container load (20'/40'/40'H)	12/24/24	10/22/22	
Alarms	High/Low Temperature	Y	Y	
	Hot Condenser	Y	Y	
	Power Failure	Y	Y	
	Sensor Error	Y	Y	
	Low Battery	Y	Y	
	High Ambient Temperature	Y	Y	
	Door Ajar	Y	Y	
Accessories	Caster	Y	Y	
	Foot	Y	Y	
	Porthole	Y/2	Y/2	
	Shelves/Inner doors	3/4	3/4	
	USB Interface	Y	Y	
	Remote Alarm (Dry contacts)	Y	Y	
	5V Power Supply Port	Y	Y	
	Temperature Recorder	Optional	Optional	
	RS485	Y	Y	
	CO ₂ Backup System	Optional	Optional	
	LN ₂ Backup System	Optional	Optional	
Certifications	CE	Y	Y	
	ENERGY STAR	Y	Y	

S suffix - Dual independent refrigeration systems

Product appearance and specifications are subject to change without notice