Haier Biomedical
Intelligent Protection of Life Science

TwinCool ULT Freezer With Touch Screen

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
- Low Noise Design
- Pressure Equalization Port
- Cloud Data Storage Available
- Optimized Insulation
- Multiple Alarms

Haier Biomedical USA

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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

Dual independent refrigeration systems/compressors for maximum sample security

The dual refrigeration systems run independently and alternately, both reaching -80°C, such that if one system fails the other will maintain temperature to ensure sample storage safety.

High speed refrigeration system for faster pull down and temperature recovery after door openings

Utilizing auto-cascade hydrocarbon (HC) refrigeration technology to deliver fast temperature pull down. From an ambient of 25°C it takes just 180 minutes to reach -80°C. It provides a quick temperature recovery to -75°C within 25 minutes after door opening for 1 minute, guaranteeing the safety of samples.

World-leading energy saving refrigeration technology

The HC refrigeration technology coupled with super-insulation, increases the insulation efficiency by 30%, and the cabinet is designed to reduce heat loss ensuring an energy efficient freezer. The 418L model has a power consumption of 8.45 kWh/day and is certified by The National Quality Certification Center for Energy Saving and Environmental Protection.

DW-86L578ST

TwinCool ULT Freezer With Touch Screen

Advanced Hardware System

Smart Full-size Touch Screen

10-inch touch screen with state-of-the-art user interface design, coupled with a sample management system which provides an optimal user experience.

Unique Controller Features

Simplified Sample Management Experience

Optional barcode scanner for simple, effortless and precise identification. Input and retrieve your samples with higher precision and efficiency.

Remote Monitoring Options

Real-time monitoring with our U- Cool systems allows for simple and reliable tracking and has USB data exporting standard.

Innovative & Ergonomic Design

Safe and secure

Equipped with key lock, padlock and optional electromagnetic lock, with optional fingerprint lock, providing multiple safeguards for sample safety

Cloud data storage available

Store hundreds of millions of scientific research and sample information in the cloud server.

Low noise design at 53dB

Special noise-reduction design plus super silent compressor technology and energy-saving fan, considerably lowers noise level.

Optimized insulation

Double foaming for both inner and outer doors and five-layer sealing design and optimized super-thick VIP thermal insulation technology, extends tempe-rature holdover time during power failure and incre-ases insulation efficiency by 30%.

Specifications

	Model		DW-86L578ST	DW-86L578SAT	DW-86L728ST	DW-86L728SAT
Technical Data	Cooling Type		Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost Mode		Manual	Manual	Manual	Manual
	Refrigerant		HC	HC	HC	HC
	Sound Level (dB(A))		52	53	53	53
Performance	Cooling Performance (°C)		-86	-86	-86	-86
	Temperature Range (°C)		-40~-86	-40~-86	-40~-86	-40~-86
	Temperature Uniformity (°C)		±3	±3	±3	±3
Control	Controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display		LCD Touchscreen	LCD Touchscreen	LCD Touchscreen	LCD Touchscreen
Electrical Data	Power Supply (V/Hz)		120/60	208~230/60	120/60	208~230/60
	Electrical Current (A)		18	10	18	10
	Power Consumption (kWh/24h)		11	10	10	12
Construction	Capacity (L/Cu.Ft)		578/20.4	578/20.4	728/25.7	728/25.7
	Net/Gross Weight (approx) Actual/Packaged Weight	lbs	716.5/782.6	716.5/782.6	771.6/848.8	771.6/848.8
		kg	325/355	325/355	350/385	350/385
	Interior Dimension (W*D*H)	in	24.4*28.2*51.6	24.4*28.2*51.6	30.2*28.2*51.6	30.2*28.2*51.6
	Exterior Dimension (W*D*H)	in	35.4*39.3*78.0	35.4*39.3*78.0	41.2*39.3*78.0	41.2*39.3*78.0
	Packing Dimension (W*D*H)	in	37.4*41.5*84.6	37.4*41.5*84.6	43.3*43.5*84.6	43.3*43.5*84.6
Alarm Functions	High/Low Temperature		Y	Y	Y	Y
	Hot Condenser		Y	Y	Y	Y
	Power Failure		Y	Y	Y	Y
	High/Low Voltage		Y	Y	Y	Y
	Sensor Error		Y	Y	Y	Y
	Low Battery		Y	Y	Y	Y
	High Ambient Temperature		Y	Y	Y	Y
	Door Ajar		Y	Y	Y	Y
Accessories	Caster		Y	Y	Y	Y
	Foot		Y	Y	Y	Y
	Porthole		Y/2	Y/2	Y/2	Y/2
	Shelves/Inner Doors		3/4	3/4	3/4	3/4
	USB Interface		Y	Y	Y	Y
	Remote Alarm (Dry contacts)		Y	Y	Y	Y
	5V Power Supply Port		Y	Y	Y	Y
	Temperature Recorder		Optional	Optional	Optional	Optional
	RS485 Port		Y	Y	Y	Y
	CO_2 Backup System		Optional	Optional	Optional	Optional
	LN_2 Backup System		Optional	Optional	Optional	Optional
Certifications	UL		Y	Y	Y	Y
	ENERGY STAR		Y	Y	Y	Y

Product appearance and specifications are subject to change without notice