

TwinCool ULT Freezer



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.

Friendly Design

- ◎ Safe and secure
- ◎ Low noise design, reducing the noise down to 53dB
- ◎ Cloud data storage available
- ◎ Optimized insulation

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A Dual independent refrigeration systems for maximum sample safety

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.

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

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.

C World-leading energy saving refrigeration technology

The HC refrigeration technology coupled with superinsulation, 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-86L418ST

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.

Optional IoT Software System



Simplified Sample Management Experience

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



Wireless Monitoring Connectivity

Check the real-time operating status via mobile phones or portable tablet, simple and reliable.

Friendly Design



Safe and secure

Equipped with key lock, padlock and electromagnetic lock as standard, 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, reducing the noise down to 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 temperature holdover time during power failure and increases insulation efficiency by 30%.

Specifications



	Model	DW-86L418ST	DW-86L578ST	DW-86L578SAT	DW-86L728ST	DW-86L728SAT
Technical Data	Cabinet Type	Upright	Upright	Upright	Upright	Upright
	Climate Class	N	N	N	N	N
	Cooling Type	Direct cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost Mode	Manual	Manual	Manual	Manual	Manual
	Refrigerant	HC	HC	HC	HC	HC
Performance	Sound Level (dB(A))	50	50 52	53	50 53	53
	Cooling Performance (°C)	-86	-86	-86	-86	-86
	Temperature Range (°C)	-40~-86	-40~-86	-40~-86	-40~-86	-40~-86
Control	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	LCD Touchscreen	LCD Touchscreen	LCD Touchscreen	LCD Touchscreen	LCD Touchscreen
Electrical Data	Power Supply (V/Hz)	208~230/50	208~230/50	120/60	208~230/60	208~230/50 120/60
	Power (W)	1600	1600	1400	1800	1800
	Electrical Current (A)	10	10	14	10	14
	Power Consumption (kWh/24h)	8.45	10	12	10	10.5 11
Construction	Capacity (L/Cu.Ft)	418/14.8	578/20.4	578/20.4	728/25.7	728/25.7
	Net/Gross Weight (approx)	kg 525/286	325/355	325/355	350/385	350/385
		lbs 562.2/630.5	716.5/782.6	716.5/782.6	771.6/848.8	771.6/848.8
	Interior Dimension (W*D*H)	mm 465*716*1310	620*716*1310	620*716*1310	766*716*1310	766*716*1310
		in 18.3*28.2*51.6	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)	mm 830*998*1980	895*998*1980	895*998*1980	1046*998*1980	1046*998*1980
		in 32.7*39.3*78.0	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)	mm 897*1078*2135	950*1055*2150	950*1055*2150	1100*1105*2150	1100*1105*2150
		in 35.3*42.4*84.1	37.4*41.5*84.6	37.4*41.5*84.6	43.3*43.5*84.6	43.3*43.5*84.6
Alarms	Container Load (20'/40'/40'H)	12/26/26	12/24/24	12/24/24	10/20/20	10/20/20
	High/Low Temperature	Y	Y	Y	Y	Y
	Hot Condenser	Y	Y	Y	Y	Y
	Power Failure	Y	Y	Y	Y	Y
	High/Low Voltage	Y	Y	Y	Y	Y
	Sensor Error	Y	Y	Y	Y	Y
	Low Battery	Y	Y	Y	Y	Y
	High Ambient Temperature	Y	Y	Y	Y	Y
	Door Ajar	Y	Y	Y	Y	Y
Accessories	Caster	Y	Y	Y	Y	Y
	Foot	Y	Y	Y	Y	Y
	Porthole	Y/2	Y/2	Y/2	Y/2	Y/2
	Shelves/Inner Doors	3/4	3/4	3/4	3/4	3/4
	USB Interface	Y	Y	Y	Y	Y
	Remote Alarm (Dry contacts)	Y	Y	Y	Y	Y
	5V Power Supply Port	Y	Y	Y	Y	Y
	Temperature Recorder	Optional	Optional	Optional	Optional	Optional
	RS485 Port	Y	Y	Y	Y	Y
	CO ₂ Backup System	Optional	Optional	Optional	Optional	Optional
Certifications	LN ₂ Backup System	Optional	Optional	Optional	Optional	Optional
	CE	Y	Y /	/	Y /	/
	UL	/	/ Y	Y	/ Y	Y
	ENERGY STAR	/	Y Y	Y	Y Y	Y

Product appearance and specifications are subject to change without notice