



Multiple alarms



Hydrocarbon refrigerant
and foam material LBA



High performance in
temperature uniformity



Intelligent frequency
conversion technology

dot scientific inc

Phone: (800) 878-1785
Fax: (810) 744-2865
Email: orders@dotscientific.com

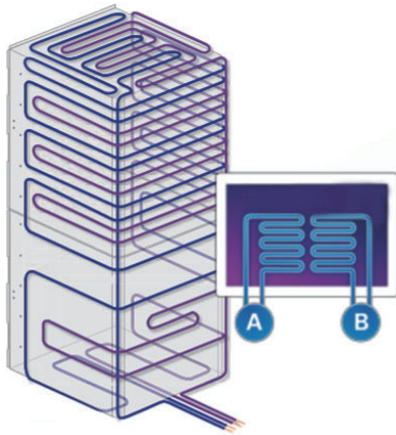
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TwinCool Frequency Conversion ULT

The Twincool Frequency conversion range of freezers utilize two key innovations to delivery outstanding sample security and energy efficiency – dual cooling and adaptive refrigeration technologies.



Product Advantages



Dual refrigeration system, double safety and optimal reliability

Double independent hydrocarbon refrigeration system design, each system can maintain -80°C ensuring the safety of stored samples



World-leading Energy Saving Refrigeration Technology

Intelligent frequency conversion technology and HC refrigeration system delivers a 50% reduction in energy usage when compared to traditional HFC refrigeration systems



Environmental Protection

Environmentally friendly hydrocarbon refrigerant and foam material LBA



Optional IoT System

The optional IoT monitors the operating status of the equipment in real time. Equipped with multiple alarm functions and a self-diagnostics system to identify and warns users to ensure sample safety

Ergonomic Design



Adjustable Sample Loading Tray (Optional)

The adjustable height sample load tray provides users with a convenient place to hold samples while opening and accessing storage compartments



Intelligent Control

10.1-inch high-performance touch screen, sensitive touch operation. Users can check the real-time operating status via IoT



Large Loading Capacity

Maximum Capacity: 600 boxes (2 inch boxes with 10*10 configuration) 60,000 samples can be stored



Low Noise Design

Optimised systems and noise-reducing cabinet design lower noise out to 42dB for a quieter working experience

Product Parts



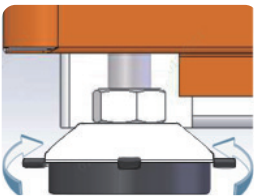
Ergonomic design

Document holder for easy storage of documents



High quality door opening experience

The ergonomic chamfer design of the handle ensures smooth operation and maximum durability



Adjustable feet

For easy positioning and levelling



Magnetic filter screen

Filter screen is easy to clean



DW-86L828BPST

Microcomputer control

Microcontroller with 10.1 inch LCD touch screen displays temperature and other important data. Temperature display precision is 0.1°C

Multiple alarms

Including high/ low temperature alarm, sensor error alarm, hot condensor alarm, power failure alarm, low battery alarm, door ajar alarm, high ambient temperature alarm, etc



Multiple safety lock

Standard mechanical lock, optional electromagnetic lock
Optional fingerprint lock and NFC for optimal security and access



Networking function

Equipped with RS485 interface to connect multiple freezers

Specifications

	Model	DW-86L828BPST	DW-86L728BPST	DW-86L578BPST	
Technical Data	Cabinet Type	Upright	Upright	Upright	
	Climate Class	N	N	N	
	Cooling Type	Direct cooling	Direct cooling	Direct cooling	
	Defrost Mode	Manual	Manual	Manual	
	Refrigerant	HC	HC	HC	
	Sound Level (dB(A))	42	42	42	
Performance	Cooling Performance (°C)	-86	-86	-86	
	Temperature Range (°C)	-40~-86	-40~-86	-40~-86	
Control	Controller	Microprocessor	Microprocessor	Microprocessor	
	Display	LCD	LCD	LCD	
Electrical Data	Power Supply (V/Hz)	100-230/50/60Hz	100-230/50/60Hz	100-230/50/60Hz	
	Power (W)	720	710	710	
	Max Power Draw (W)	1400	1100	1100	
	Electrical Current (A)	13	10.4	10.4	
	Power Consumption (kWh/24h) (set -80°C at 25°C ambient)	10.4	8.4	7.0	
Dimensions	Capacity (L/Cu.Ft)	828/29.2	728/25.7	578/20.4	
	Net/Gross Weight	kg	380/410	350/385	325/355
		lbs	837.7/914.9	771.6/848.8	716.5/782.6
	Interior Dimension (W*D*H)	mm	870*716*1310	766*716*1310	620*716*1310
		in	34.3*28.2*51.6	30.2*28.2*51.6	24.4*28.2*51.6
	Exterior Dimension (W*D*H)	mm	1145*998*1980	1046*998*1980	895*998*1980
		in	45.1*39.3*78.0	41.2*39.3*78.0	35.2*39.3*78.0
	Packing Dimension (W*D*H)	mm	1190*1045*2150	1100*1105*2150	950*1055*2150
		in	46.9*41.1*84.6	43.3*43.5*84.6	37.4*41.5*84.6
	Cabinet Width (without handle and hinge)	mm	1050	946	800
Container Load (20'/40'/40'H)		8/20/20	10/20/20	12/24/24	
Functions	High/Low Temperature	Y	Y	Y	
	Hot Condenser	Y	Y	Y	
	Power Failure	Y	Y	Y	
	High/Low Voltage	Y	Y	Y	
	Sensor Error	Y	Y	Y	
	Low Battery	Y	Y	Y	
	High Ambient Temperature	Y	Y	Y	
	Door Ajar	Y	Y	Y	
	Start-up Delay	Y	Y	Y	
Accessories	Caster	Y	Y	Y	
	Foot	Y	Y	Y	
	Porthole	Y/2	Y/2	Y/2	
	Shelves/ Inner Doors	3/4	3/4	3/4	
	USB Interface	Y	Y	Y	
	Remote Alarm	Y	Y	Y	
	5V Power Supply Port	Y	Y	Y	
	Temperature Chart Recorder	Optional	Optional	Optional	
	RS232/485 Port	NA/Standard	NA/Standard	NA/Standard	
	CO ₂ Backup System	Optional	Optional	Optional	
	LN ₂ Backup System	Optional	Optional	Optional	
Other	Certification	CE/UL/Energy Star	CE/UL/Energy Star	CE/UL/Energy Star	