



Multiple alarms



Hydrocarbon refrigerant and foam material LBA



High performance in temperature uniformity



Intelligent frequency conversion technology

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# TwinCool Frequency Conversion ULT

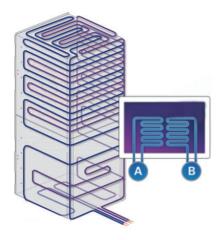
The Twincool Frequency conversion range of freezers utilize two key innovations to delivery outstanding sample security and energy efficiency – dual cooling and adaptive refrigeration technologies.





## **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



#### **Environmental Protection**

Environmentally friendly hydrocarbon refrigerant and foam material LBA





#### 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



#### 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







### 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



#### Large Loading Capacity

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



## Intelligent Control

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



#### Low Noise Design

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



# Product Parts (

Magnetic filter screen Filter screen is easy to clean







# Specifications ()

	Model		DW-86L828BPST	DW-86L728BPST	DW-86L578BPST
	Cabinet Type		Upright	Upright	Upright
Technical Data	Climate Class		N	N	N
	Cooling Type		Direct cooling	Direct cooling	Direct cooling
	Defrost Mode		Manual	Manual	Manual
	Refrigerant		НС	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 abient)		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
		mm	1145*998*1980	1046*998*1980	895*998*1980
	Exterior Dimension (W*D*H)	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	Υ
	Hot Condenser		Y	Y	Υ
	Power Failure		Y	Y	Υ
	High/Low Voltage		Y	Υ	Υ
	Sensor Error		Y	Y	Υ
	Low Battery		Υ	Y	Υ
	High Ambient Temperature		Υ	Υ	Υ
	Door Ajar		Y	Υ	Υ
	Start-up Delay		Υ	Υ	Υ
	Caster		Υ	Υ	Υ
Accessories	Foot		Υ	Υ	Υ
	Porthole		Y/2	Y/2	Y/2
	Shelves/Inner Doors		3/4	3/4	3/4
	USB Interface		Υ	Υ	Υ
	Remote Alarm		Υ	Υ	Υ
	5V Power Supply Port		Υ	Υ	Υ
	Temperature Chart Recorder		Optional	Optional	Optional
	RS232/485 Port		NA/Standard	NA/Standard	NA/Standard
	CO <sub>2</sub> Backup System		Optional	Optional	Optional
	LN₂ Backup System	LN₂ Backup System		Optional	Optional
Other	Certification		CE/UL/Energy Star	CE/UL/Energy Star	CE/UL/Energy Star