



### **DW-86L828ST**

# **TwinCool Frequency Conversion ULT** Freezer

## Scope of Application:

Suitable for the storage of biological samples such as viruses, blood cells, bacteria and tissue. as well as electronics and other special materials. The freezer combines frequency conversion compressors, hydrocarbon refrigerants (HC) and dual refrigeration system technology to deliver optimal sample security, energy-efficiency, and sustainability. The product is used within hospitals, disease control, life science and medical research, bioengineering, pharma and other enterprize laboratories.

## **Innovative** Design

- Energy saving and environmentally friendly
- HC refrigerant
- Intelligent control
- Combines frequency conversion technology with dual refrigeration
- Superior insulation performance

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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





#### Low Noise Design

Optimised systems and noise-reducing cabinet design lower noise out to 53dB for a quieter working experience



#### Large loading capacity

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



#### Word-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 storagecompartments



#### Intelligent Control

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





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#### Temperature Cool Down Curve



- 3<sup>rd</sup> center temp

**Product Dimensions** 



Stability Curve

**Temperature Recovery Curve** 





	Model		DW-86L828ST
Technical Data	Cabinet Type		Upright
	Climate Class		N
	Cooling Type		Direct cooling
	Defrost Mode		Manual
	Refrigerant		HC
	Sound Level (dB(A))		53
Performance	Cooling Performance (°C)		-86
	Temperature Range (°C)		-40~-86
Control	Controller		Microprocessor
	Display		LCD
Electrical Data	Power Supply (V/Hz)		220~240/50/60
	Power (W)		1400
	Electrical Current (A)		6.5
Dimensions	Capacity (L/Cu.Ft)		828/29.2
		kg	380/410
	Net/Gross Weight	lbs	837.7/914.9
	Interior Dimensions (W*D*H)	mm	870*716*1310
		in	34.3*28.2*51.6
	Exterior Dimensions (W*D*H)	mm	1145*998*1980
		in	45.1*39.3*78.0
	Packing Dimensions (W*D*H)	mm	1190*1045*2150
		in	46.9*41.1*84.6
	Cabinet Width (without handle and hinge)	mm	1050
	Container Load (20'/40'/40'H)		8/20/20
Functions	High/Low Temperature		Y
	Hot Condenser		Y
	Power Failure		Y
	High/Low Voltage		Y
	Sensor Error		Ŷ
	Low Battery		Y
	High Ambient Temperature		Y
	Door Ajar		Y
	Caster		Y
			Y
	Foot		Y/2
	Porthole Shelves/ Inner Doors		3/4
			Y
	USB Interface		Y
	Remote Alarm		Y
	5V Power Supply Port		
	Temperature Chart Recorder RS232/485 Port		Optional
			NA/Standard
	NFC		Optional
	Fingerprint		Optional
			Optional
	CO <sub>2</sub> Backup System		Optional
	LN2 Backup System		Optional
	Freezing Rack; DCJ-55-A or DCJ-55-B; (Quantity)		24
Others	Certification CE		

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