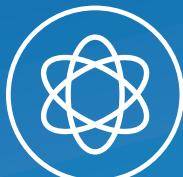




Safe, Secure and Reliable



Environmentally Friendly



High Performance in  
Temperature Uniformity



World-leading Energy Saving  
Refrigeration Technology

# TwinCool Frequency Conversion ULT

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



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**Product Advantages****Safe, Secure and Reliable**

Multiple alarms, including: high and low temperature, power failure, door ajar, hot condenser, low battery, sensor error, and high ambient temperature.

The standard ambient temperature ranges from 10°C to 32°C and can be applied to the ambient temperature of 38°C for an extended period of time.

**Environmentally Friendly**

HC refrigerants have zero Global Warming Potential (GWP) and the LBA polyurethane foam has lower GWP than most HFC commonly used, combined they deliver superior environmental protection.

**Ergonomic Design**

- Leveling Feet and Casters
- Adjustable Shelves
- Document Holder
- Easy to Remove Filter Cover
- Heated Pressure Equalization Port
- Robust Handle Design with Lock and Unique Key

**High Performance in Temperature Uniformity**

The unique frequency conversion refrigeration system ensures excellent temperature stability.

**World-leading Energy Saving Refrigeration Technology**

High efficiency cooling fans and compressors, combined with hydrocarbon refrigerants, ensure energy savings and long-term sample security.

**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.

**DW-86L578BPST**

	Model	DW-86L828BPST	DW-86L728BPS	DW-86L578BPST
<b>Technical Data</b>	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
<b>Performance</b>	Cooling Performance (°C)	-86	-86	-86
	Temperature Range (°C)	-40~ -86	-40~ -86	-40~ -86
<b>Control</b>	Controller	Microprocessor	Microprocessor	Microprocessor
	Display	LCD	LCD	LCD
<b>Electrical Data</b>	Power Supply (V/Hz)	100~230/50/60Hz	100~230/50/60Hz	100~230/50/60Hz
	Power (W)	720	680	710
	Max Power Draw (W)	1400	1100	1100
	Electrical Current (A)	13	10.4	10.4
	Power Consumption(kWh/24h) (set -75° at 25° ambient) amet, consequetur	8.06	7.0	6.0
	Capacity (L/Cu.Ft)	828/29.2	728/25.7	578/20.4
<b>Dimensions</b>	Net/Gross Weight	kg	380/410	350/385
		lbs	837.7/914.9	771.6/848.8
	Interior Dimension (W*D*H)	mm	870*716*1310	766*716*1310
		in	34.3*28.2*51.6	30.2*28.2*51.6
	Exterior Dimension (W*D*H)	mm	1145*998*1980	1046*998*1980
		in	45.1*39.3*78.0	41.2*39.3*78.0
	Packing Dimension (W*D*H)	mm	1190*1045*2150	1100*1105*2150
		in	46.9*41.1*84.6	43.3*43.5*84.6
	Cabinet Width (without handle and hinge)	mm	1050	946
	Container Load (20'/40'/40'H)		8/20/20	10/20/20
				12/24/24
<b>Functions</b>	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
<b>Accessories</b>	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 <sub>2</sub> Backup System	Optional	Optional	Optional
<b>Other</b>	LN <sub>2</sub> Backup System	Optional	Optional	Optional
	Certification	CE	CE/UL	CE/UL