

Stirling Compact ULT Freezer



DW-86L100STL

Scope of Application

It is applicable to products and samples with strict storage requirements, and ideal for long-term storage, meeting the typical storage needs of hospitals, disease control centers, research institutions, and biomedical engineering institutes.

Innovative Design

- Low Noise
- High Uniformity
- Upgraded System and Loss Reduction
- Energy Saving and Environmental Protection
- Smart Internet of Things
- Multiple Temperature Ranges

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Product Features



Featuring a space-saving design, it offers full-performance ULT storage for benchtop setups, stacked arrangements, or undercounter installations.



Ideal for precisely regulated temperature changes across an expansive set point range of -86°C to -20°C , maintaining a temperature uniformity of $\leq \pm 2^{\circ}\text{C}$.



The advanced refrigeration system utilizes 100% natural refrigerants to reduce the impact on climate.



Optimized for energy efficiency delivering a power consumption of just 3 kWh/day at -80°C .



Improved pressure relief port, re-entry shortened to just 60 seconds.



The sound level is $\leq 46\text{dB (A)}$, creating a quiet environment.



Adopting the PID temperature control technology enables precise temperature control and keeps the temperature fluctuation within $\pm 0.5^{\circ}\text{C}$ from -20°C to -86°C .



Innovative refrigeration technology without compressor and oil ensures safety, reliability and a long service life.

Ergonomic Design

➤ The engine room is moved up, and the height of the storage space is reduced for easy access.

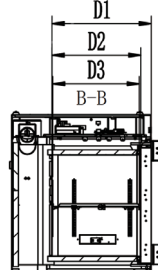
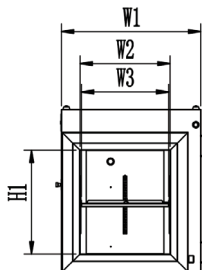
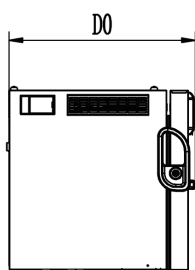
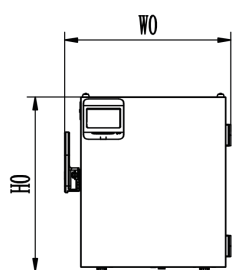
➤ An ergonomic handle and a unique slide track design make opening the door much easier.

➤ 7 inch LCD touch screen, intelligent human-computer interaction.

➤ Multiple interface configurations: standard USB interface, RS485 interface.

➤ Designed with multiple security lock and multiple security guarantee, including secret lock, padlock, optional fingerprint lock, NFC punch lock.

Product Dimension Drawings



DW-86L100STL

Ramark

W0---Overall width of the machine
W1---Outer width of the cabinet
W2---Inner liner width
W3---Width of inner shelf
(Width of shelf for effective placement of freezing rack)
D0---Overall depth of the machine
D1---Inner liner depth
D2---Inner depth of shelf
D3---Width of inner shelf
(Width of shelf for effective placement of freezing rack)
H0---Overall height of the machine
H1---Inner cabinet height

Model	Code	W0	W1	W2	W3	D0	D1	D2	D3	H0	H1
DW-86L100STL		779mm	705mm	440mm	426mm	820mm	496mm	444mm	432mm	816mm	505mm

Specifications



Model			DW-86L100STL	
Technical Data	Cabinet Type		Upright	
	Climate Class		N	
	Cooling Type		Direct cooling	
	Defrost Mode		Manual	
	Refrigerant		HC	
	Sound Level(dB(A))		≤46.3	
Performance	Cooling Performance (°C)		-86	
	Temperature Range (°C)		-20~-86	
Control	Controller		Microprocessor	
	Display		Touch Screen LCD	
Electrical Data	Power Supply (V/Hz)		220-240V/50/60Hz	110-120V/50/60Hz
	Max Power (W)		300	
Dimensions	Capacity (L/Cu.Ft)		100/3.5	
	Net/Gross Weight	kg	110/145	
		lbs	260.2/326.3	
	Interior Dimension (W*D*H)	mm	440*444*505	
		in	17.3*17.5*19.9	
	Exterior Dimension (W*D*H)	mm	779*820*816	
		in	30.7*32.3*32.1	
	Packing Dimension (W*D*H)	mm	850*920*1000	
		in	33.5*36.2*39.4	
Functions	Cabinet Width (without handle and hinge)		705	
	Container Load (20'/40'/40'H)		24/52/52	
	High/Low Temperature Alarm		Y	
	Hot Condenser Alarm		N	
	Power Failure Alarm		Y	
	High/Low Voltage Alarm		Y	
	Sensor Error Alarm		Y	
	Low Battery Alarm		Y	
	High Ambient Temperature Alarm		Y	
Accessories	Door Ajar Alarm		Y	
	Start-up delay		Y	
	Caster		Y	
	Leveling Feet		Y	
	Porthole		Y/1	
	Inner Doors		2	
	Shelves		1 - stainless steel adjustable shelves	
	Shelf Dimensions (W*D) (mm)		425*430	
	Max. Load per Shelf (kg)		90	
	Freezer Racks Quantity (2" boxes)		6	
	Capacity (2" boxes)		72	
	USB Interface		Y	
	Remote Alarm		Y	
	5V Power Supply Port		Y	
	Temperature Chart Recorder		N	
	RS232/485 Port		NA/Standard	
	CO ₂ Backup System		Optional	
	LN ₂ Backup System		Optional	
Others	Certifications		CE	UL