

Haier Biomedical
Intelligent Protection of Life Science



DW-86L828W/959W

Water-Cooled ULT Freezer

Scope of Application

Water cooled ULT freezers use less energy and heat emissions are reduced by 90%. Suitable for high ambient environments with limited options for air conditioning.

Innovative Design

- Water cooled ULT freezers use less energy and heat emissions are reduced by 90%
- Temperature uniformity of $\pm 3^{\circ}\text{C}$ (setting temperature at -80°C)
- Intelligent control system
- 10-inch large LCD capacitive screen
- Multiple alarm protection with USB and remote alarm connectivity

Haier Biomedical Co.,Ltd.

No.280 Feng Yuan Road, High-tech Zone,
Qingdao, 266109, P.R. China
E-mail: inquiry@haierbiomedical.com
Website: www.haiermedical.com



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Product Advantages



Microcomputer control system

Microcomputer control, 10' inch LCD temperature display, display precision 0.1°C, inside temperature adjustable set point -40~86°C. Displays operating data such as temperature, voltage and ambient temperature.



Multiple safety locks

The handle incorporates a keylock and facility for padlock. There is the option to have an electromagnetic lock and fingerprint recognition. Multiple of options for users to ensure samples are secure.



Stand-alone sample management system

The software allows users to manage sample inventory within the freezer.



Superior thermal insulation performance

The door is 90mm VIP + polyurethane foam with four seals and a single seal on each inner door reduces loss of internal cold air.



Memory

USB with up to 10 years of the life temperature monitoring data can be downloaded & exported as needed.



Multiple alarm functions

Including high/low temperature, hot condenser, power failure, low battery, high ambient temperature and door ajar.



Alarm back-up battery

When powered off, two lithium batteries can maintain the refrigerator LCD screen for 22 hours.



Networking function

R485 interface is standard, which secures multi-refrigerator networking.

Product Parts Diagram

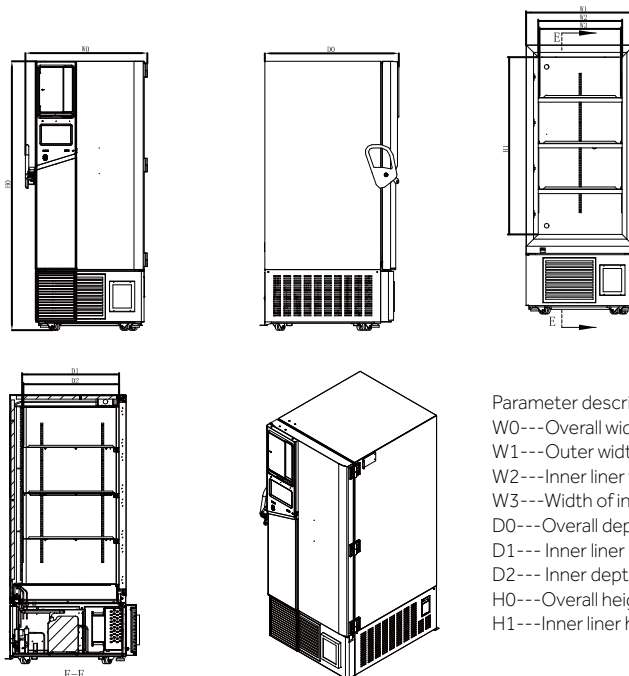


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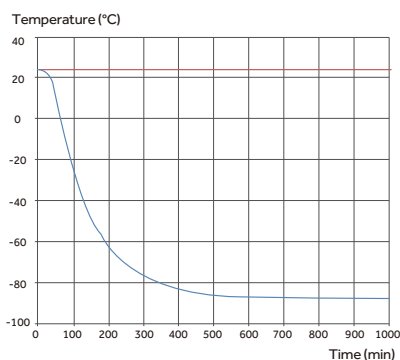
Product Dimension Drawings



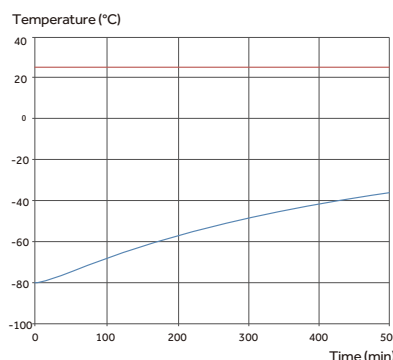
Parameter description:
 W0---Overall width of the machine
 W1---Outer width of the cabinet
 W2---Inner liner width
 W3---Width of inner shelf (width of shelf for effective storage)
 D0---Overall depth of the machine
 D1--- Inner liner depth
 D2--- Inner depth of shelf (effective depth of shelf)
 H0---Overall height of the machine
 H1---Inner liner height

Model	Parameter	W0	W1	W2	W3	H0	H1	D0	D1	D2
DW-86L828W		1145mm	1050mm	870mm	854mm	1980mm	1310mm	998mm	716mm	706mm
DW-86L959W		1296mm	1196mm	1016mm	1000mm	1980mm	1310mm	998mm	716mm	706mm

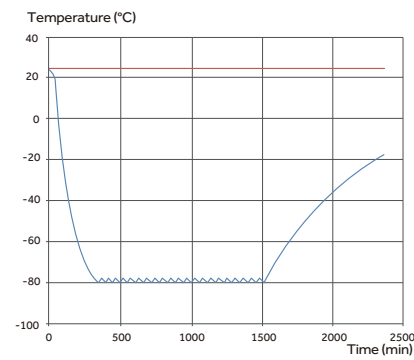
Product Dimension Drawings



Cool down curve



Warm up curve



Comprehensive curve

— Center Temp.
 — Ambient Temp.

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Specifications

Model			DW-86L828W	DW-86L959W
Technical Data	Cabinet Type		Upright	Upright
	Climate Class		N	N
	Cooling Type		Direct cooling	Direct cooling
	Defrost Mode		Manual	Manual
	Refrigerant		HC	HC
	Sound Level (dB(A))		43.5	47
Performance	Cooling Performance (°C)		-86	-86
	Temperature Range (°C)		-40~-86	-40~-86
Control	Controller		Microprocessor	Microprocessor
	Display		LCD Touch Screen	LCD Touch Screen
Electrical Data	Power Supply (V/Hz)		208-230/50/60	208-230/50/60
	Electrical Current (A)		6	7
Dimensions	Capacity (L/Cu.Ft)		828/29.2	959/33.9
	Net/Gross Weight (approx)	kg	380/415	450/485
		lbs	837.7/914.9	992.1/1069.2
	Interior Dimension (W*D*H)	mm	870*716*1310	1016*716*1310
		in	34.3*28.2*51.6	40.0*28.2*51.6
	Exterior Dimension (W*D*H)	mm	1145*998*1980	1296*998*1980
		in	45.1*39.3*78.0	51.0*39.3*78.0
	Packing Dimension (W*D*H)	mm	1240*1080*2130	1410*1160*2185
		in	48.8*42.5*83.9	55.5*45.7*86.0
Alarms	Container Load (20'/40'/40'H)		5/11/11	5/10/10
	High/Low Temperature		Y	Y
	Hot Condenser		Y	Y
	Power Failure		Y	Y
	High/Low Voltage		Y	Y
	Sensor Error		Y	Y
	Low Battery		Y	Y
	High Ambient Temperature		Y	Y
Accessories	Door Ajar		Y	Y
	Caster		Y	Y
	Foot		Y	Y
	Porthole		Y/2	Y/2
	Shelves/Inner doors		3/4	3/4
	USB Interface		Y	Y
	Remote Alarm (Dry contacts)		Y	Y
	5V Power Supply Port		Y	Y
	Temperature Recorder		Optional	Optional
	Rs485 Port		Y	Y
	CO ₂ Backup System		Optional	Optional
	LN ₂ Backup System		Optional	Optional
Others	Certification		CE	CE

*Haier Biomedical reserves the right to change products and specifications without prior notice.

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