



DW-86L828W

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

- Green and environmentally friendly
- Superior uniformity
- Low noise
- Water-cooled frequency conversion saves energy
- Water-cooling saves energy
- HC refrigerants and frequency conversion compressor technology
- Safe and durable

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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.



Stand-alone sample management system

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



Memory

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



Alarm back-up battery

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



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.



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.



Multiple alarm functions

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



Networking function

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

Product Parts Diagram



Pocket organizer document storage



LCD touch screen



External door seal - four layers



Inner door seal - one layer



Finger print module(optional)



Electromagnetic door lock (optional)



Door handle (with lock)



Front protection panel of refrigeration compartment



Leveling leg

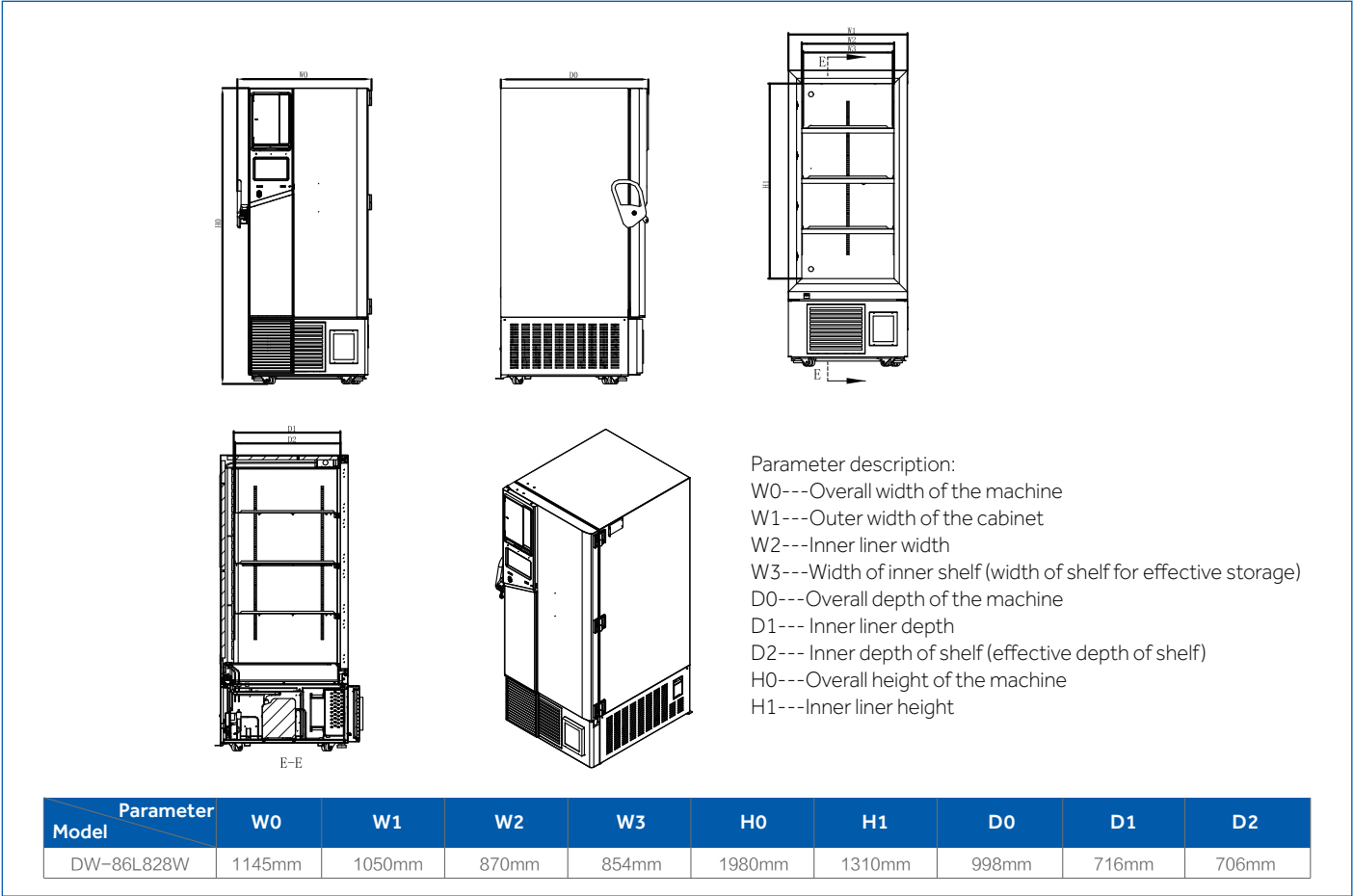
Caster

Pressure balance hole:
The door pressure relief port supports multiple door opens over short periods

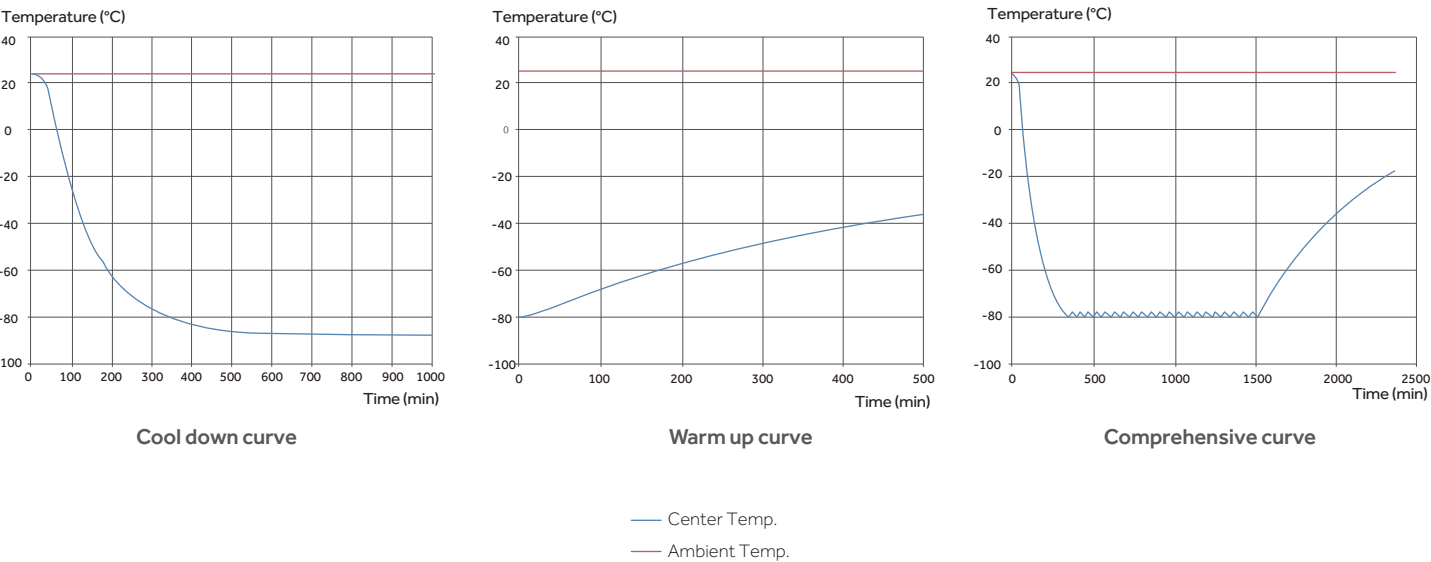


Easy to remove and clean filter

Product Dimension Drawings



Product Dimension Drawings



Specifications



	Model	DW-86L828W
General	Storage Capacity (L/Cu.Ft)	828/29.2
	Temperature Range (°C)	-40~-86
	Noise (dB(A))	43.5
	Net/Gross Weight (kg)	380/415
	Exterior Dimensions (W*D*H)	mm 1145*998*1980
		in 45.1*39.3*78.0
	Interior Dimensions (W*D*H)	mm 870*716*1310
		in 34.3*28.2*51.6
Environmental & Electrical Data	Electrical Power (V/Hz)	208 ~ 230/50/60
	Power Consumption (kW-h/day)	8.2
	Electrical Current (A)	6
	Building Supply Rating (A)	6
	Power Lead Length (m)	2
	Heat Rejection (BTU/day)	30960
	Ambient Temperature (°C)	10-32
Refrigeration Configuration	Refrigeration System Type	Direct cooling
	Compressor Type/Brand/Number	Hermetic Reciprocating Type/SECOP/2
	Compressor Capacity (W)	938
	Evaporator Type	Copper Tube Evaporator
	Defrost Method	Manual
	Refrigerant Charge/Flammable	R290 R170/Yes
Controller/ Electrical System Features	Controller Level	TOP
	Power Switch	15A
	Controller Type	Microprocessor
	Setpoint Security	Yes
	Controller Sensor	PT100
	Remote Alarm Terminals	Yes
	Adjustable High/Low Temp Alarms	Yes
Construction	Insulation	VIP+CFC Free Foaming Agent
	Exterior Door Seal	Two exterior door sealing strips, each 2 layers, total of 4 layers
	Interior Door Seal	One interior door sealing strip, 1 layer
	Shelves/Capacity/Dims/Material	3 stainless steel adjustable shelves with dimension 856*650 mm (W*D), max capacity per shelf: 120kg, 264.6 lbs
	Casters	Y/4
	Exterior Material	Color Coating Cold Plate Steel
	Interior Material	Color Coating Steel Plate
	Door Thickness (mm)	90
	Cabinet Thickness (mm)	90
	Inner Door	Four Solid Door
	Condenser Type	Water Cooling
	Fan Brand	EBM
	Back Up Battery For Alarm Functions	High/low temperature,hot condenser,power failure,low battery,high ambient temperature,door ajar ,etc.
Performance	Temperature Uniformity (°C)	±3
	Temperature Accuracy (°C)	0.1
	Cool Down Time (25°C ambient to -80°C) mins	380
	Warm Up Time (25°C ambient -80°C to -50°C) mins	290
	1 Min Door Open Recovery Time (ambient 25°C running temp -75°C) mins	40
Certification	CE	Y
Cooling Water Without Impurities	Requirements	Pressure: ≤150 psi, Temperature: 15- 32°C, Flow rate: 3.8L/min, PH value: 6-9

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