

Haier Biomedical
Intelligent Protection of Life Science

UltraEco ULT Freezer

Redefining Cold Storage Excellence



World's No.1
Energy Efficiency



Ultra-Low
Carbon Footprint



Superior
Performance



Uncompromising
Safeguards



User-Centric
Convenience

*Based on ENERGY STAR certified ULT freezer energy data (as of Feb. 2026)



DW-86L580BPT/730BPT/ 830BPT/960BPT

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Mar, 2026



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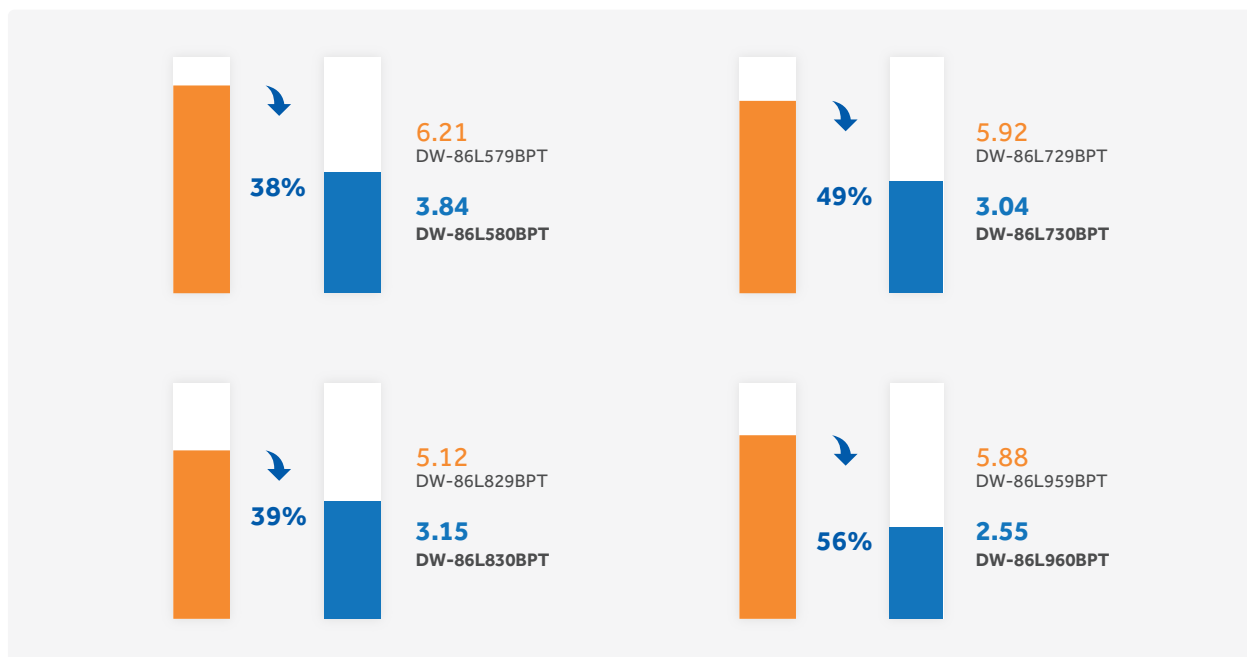
원문: Haier Biomedical UltraEco ULT Freezer UltraEco ULT Freezer · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

Optimal Energy Efficient Performance

The UltraEco ULT freezer – an ultra-low impact, greener alternative for cold storage

The UltraEco ULT freezer combines a hydrocarbon refrigerant, inverter compressor technology and new sustainable material science to significantly reduce electricity consumption:

Power Consumption (kWh/year/2"cryobox)



Enhanced Performance

An upgraded compressor, enhanced refrigeration system and new sustainable insulation material deliver a range of benefits compared to the previous generation of ULT freezers.

↓ 49%

Decrease in Energy Consumption

□ 15 min

1 Min Door Opening Recovery Time

⌚ 80%

Faster Re-Entry Time

⌚ 1 hour

Improvement in warm-up time from -80 to -50°C

🔊 42dB(A)

Lower Sound Level

🌡️ ±2°C

Outstanding Temperature Uniformity

*Above data based on DW-86L730BPT

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Green and Environmental Friendly



Naturally occurring hydrocarbon refrigerants and insulation materials are a feature of the UltraEco ULT freezer – the first of its kind in this sector. These non-toxic, eco-friendly materials are more sustainable, non-ozone depleting and reduce the carbon footprint, providing a greener, more environmentally- friendly insulation solution than other current generation freezers.

Safety and Reliability

- Dual sensors deliver precise temperature change detection, doubling sample storage security.
- The compressor's self-diagnostic function triggers instant alarms upon malfunctions, enabling prompt maintenance to prevent sample damage.
- Optimized VIP insulation ensures extended thermal retention, safeguarding samples during brief power outages.
- Optional built-in backup system and independent control panel guarantee sample safety, even during extended power outages.

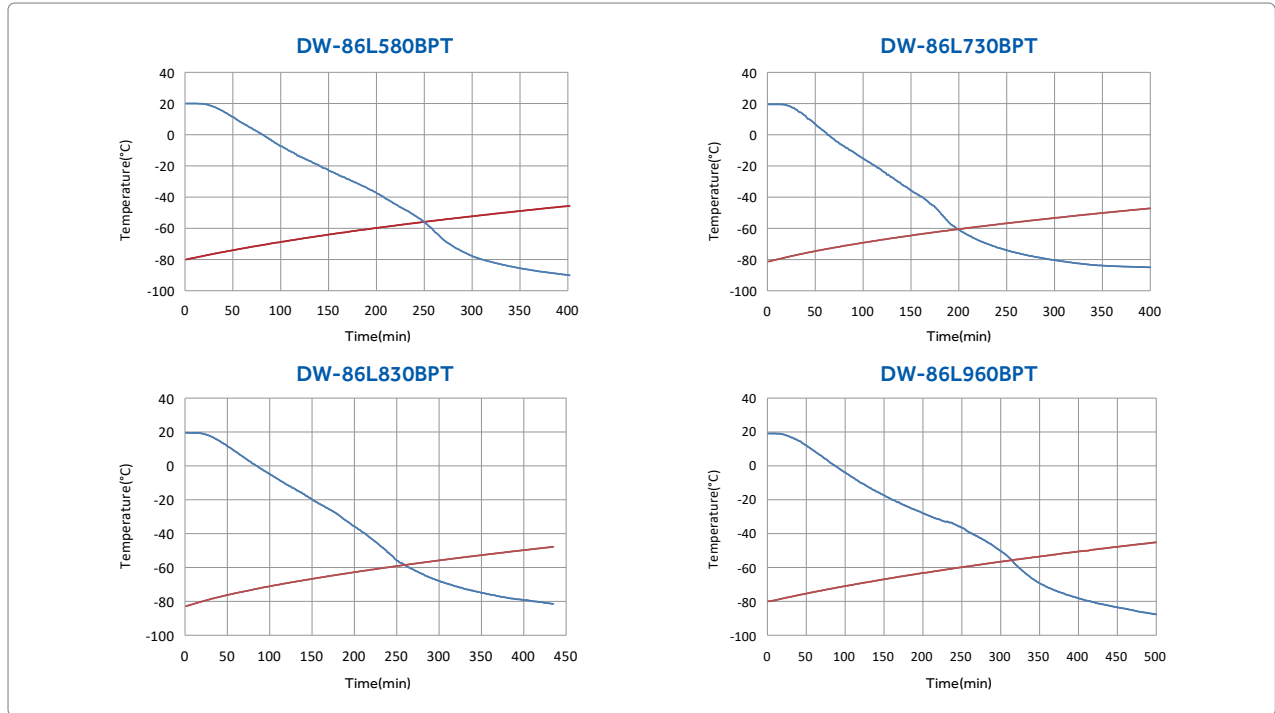
Ergonomic Design



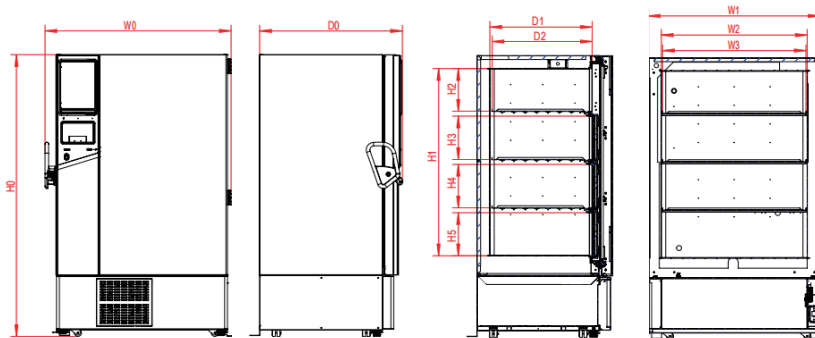
Performance Curve

Temperature Pull-down & Pull-up Curves at 20°C Ambient

— Pull-down
— Pull-up



Product Dimensions



Remark

- W0 ----- Overall Unit Width
- W1 ----- Cabinet Exterior Width
- W2 ----- Inner Liner Width
- W3 ----- Shelf Clear Width (for freezer racks)
- D0 ----- Overall Unit Depth
- D1 ----- Inner Liner Depth
- D2 ----- Maximum Item Storage Depth
- H0 ----- Overall Unit Height
- H1 ----- Inner Liner Height
- H2 ----- 1st Layer Height
- H3 ----- 2nd Layer Height
- H4 ----- 3rd Layer Height
- H5 ----- 4th Layer Height

Model \ Code	W0/mm	W1/mm	W2/mm	W3/mm	H0/mm	H1/mm	H2/mm	H3/mm	H4/mm	H5/mm	D0/mm	D1/mm	D2/mm
DW-86L580BPT	895	800	620	604	1970	1310	298	303	303	301	998	716	700
DW-86L730BPT	1046	946	766	750	1970	1310	298	303	303	301	998	716	700
DW-86L830BPT	1145	1050	870	854	1970	1310	298	303	303	301	998	716	700
DW-86L960BPT	1296	1196	1016	999	1970	1310	298	303	303	301	998	716	700

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Specifications

Model		DW-86L580BPT	DW-86L730BPT	DW-86L830BPT	DW-86L960BPT
Technical Data	Cabinet Type	Upright	Upright	Upright	Upright
	Ambient Temperature (°C)	10-32	10-32	10-32	10-32
	Cooling Type	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling
	Defrost Mode	Manual	Manual	Manual	Manual
	Refrigerant	HC	HC	HC	HC
Performance	Sound Level (dB(A))	≤42	≤42	≤46	≤40
	Cooling Performance (°C)	-86	-86	-86	-86
Control	Temperature Range (°C)	-40~-86	-40~-86	-40~-86	-40~-86
	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Electrical Data	Display	LCD Touchscreen	LCD Touchscreen	LCD Touchscreen	LCD Touchscreen
	Power Supply (V/Hz)	100-230/50/60	100-230/50/60	100-230/50/60	100-230/50/60
Dimensions	Max Power (W)	800	900	1050	900
	Capacity (L/Cu.Ft)	580/20.5	730/25.8	830/29.3	960/33.9
	Net/Gross Weight	kg	287/326	315/368	336/390
		lbs	632.7/718.7	694.5/811.3	740.8/859.8
	Interior Dimension (W*D*H)	mm	620*716*1310	766*716*1310	870*716*1310
		in	24.4*28.2*51.6	30.2*28.2*51.6	34.3*28.2*51.6
	Exterior Dimension (W*D*H)	mm	895*998*1970	1046*998*1970	1145*998*1970
		in	35.2*39.3*77.6	41.2*39.3*77.6	45.1*39.3*77.6
	Packing Dimension (W*D*H)	mm	960*1150*2160	1110*1150*2160	1220*1150*2160
		in	37.8*45.3*85	43.7*45.3*85	48*45.3*85
Functions	Cabinet Width (without handle and hinge)	mm	800	946	1050
	Container Load (20'/40'/40'H)		12/24/24	10/20/20	8/20/20
	High/Low Temperature Alarm	Y	Y	Y	Y
	Hot Condenser Alarm	Y	Y	Y	Y
	Power Failure Alarm	Y	Y	Y	Y
	High/Low Voltage Alarm	Y	Y	Y	Y
	Sensor Error Alarm	Y	Y	Y	Y
	Low Battery Alarm	Y	Y	Y	Y
	High Ambient Temperature Alarm	Y	Y	Y	Y
	Door Ajar Alarm	Y	Y	Y	Y
Accessories	Start-up Delay	Y	Y	Y	Y
	Caster	Y(4)	Y(4)	Y(4)	Y(4)
	Leveling Feet	Y(2)	Y(2)	Y(2)	Y(2)
	Porthole	2*rear, (15mm)diameter	2*rear, (15mm)diameter	2*rear, (15mm)diameter	2*rear, (15mm)diameter
	Inner Doors	4	4	4	4
	Shelves	3- stainless steel adjustable shelves	3- stainless steel adjustable shelves	3- stainless steel adjustable shelves	3- stainless steel adjustable shelves
	Shelf Dimensions (W*D)(mm)	606*650	752*650	856*650	1002*650
	Max. Load per Shelf (kg)	72	90	108	126
	Freezer Racks Qty (2" boxes)	16	20	24	28
	Capacity (2" boxes)	400	500	600	700
	USB Interface	Y	Y	Y	Y
	Remote Alarm	Y	Y	Y	Y
	5V Power Supply Port	Y	Y	Y	Y
	Temperature Chart Recorder	Optional	Optional	Optional	Optional
	RS232/485 Port	N/A/Standard	N/A/Standard	N/A/Standard	N/A/Standard
Other	CO ₂ Backup System	Optional	Optional	Optional	Optional
	LN ₂ Backup System	Optional	Optional	Optional	Optional
Other	Certifications	CE, UL, ENERGY STAR	CE, UL, ENERGY STAR	CE, UL, ENERGY STAR	CE, UL, ENERGY STAR

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

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