

Super energy-saving technology and precise temperature control. Designed to provide long-term storage for various biological samples and sensitive items to ensure the integrity and stability of precious materials. With its outstanding energy-saving features, it not only reduces electricity consumption but also contributes to a greener environment.

UltraEco

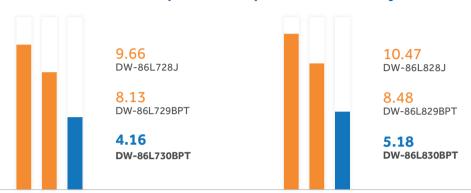
Optimal Energy Efficient Performance 〈



HC refrigerant, frequency conversion technology and optimized structural design combine to lower operating costs compared to previous generation by up to 50%.

ENERGY STAR certified with world-leading energy efficiency

Power Consumption Comparison (kWh/day)



^{*}Above power consumption base on ENERGY STAR report

Significantly Enhanced Performance



The upgraded compressor, along with the enhanced refrigeration system and improved insulation structure, significantly elevates the performance of UltraEco series. In comparison to the previous generation, UltraEco series features lower energy consumption, a longer holdover time, faster temperature recovery time and re-entry time, as well as reduced noise. All these enhancements will bring customers a completely new experience.

49%

(3) Decrease in Energy Consumption

80%

(Faster Re-Entry Time

42dB(A)

্ৰে Lower Sound Level

*Above data based on DW-86L730BPT

16%

Improvement in Warm-Up Time from -80°C to -50°C

15 min

±2°C

Model	DW-86L729BPT	DW-86L730BPT	DW-86L829BPT	DW-86L830BPT
Temperature Uniformity (°C)	±3	±2	±3	±3
ENERGY STAR Power Consumption (kWh/day)	8.13	4.16	8.48	5.18
1-Minute Open Door Recovery Time (20° C Ambient Running at -75°C)(mins)	24	15	35	32
Warm-Up Time at 20° C Ambient (from -80°C to -50°C)(mins)	300	348	315	378
Re-entry Time (Seconds)	300	60	300	60

^{*}Freezer performance will vary based on customer product volume, storage format, operating conditions, test methodology and performing recommended maintenance

Green and Environmental Friendly 〈





Naturally occurring Hydrocarbon (HC) refrigerants and insulation materials with ultra-low global warming potential (GWP) levels exert an extremely minimal impact on the environment. These are not only eco-friendly but also contribute to a sustainable future by reducing the carbon footprint and safeguarding the delicate balance of our ecosystem.

Safety and Reliability

- Dual sensors ensure accurate detection of temperature changes, providing double the security for sample storage.
- The self-diagnostic feature of the compressor triggers immediate alarms in case of issues, enabling swift maintenance to prevent sample damage.
- VIP insulation technology provides 6-hour durable thermal retention and safeguards samples during brief power failures.
- Optional built-in independent backup system guarantees sample safety even in the event of a long power outage.

Ergonomic Design





10 Inch Capacitive Touch Screen

State-of-art UI design coupled with sample management system to provide the optimal user experience



Innovative Light Bar Design

Clearly indicate the operating status of the freezer and offer strengthened visual alarm indications for effortless at-a-glance monitoring





Improved Pressure Relief Port

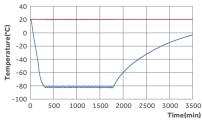
Re-entry time shortened to just 60 seconds



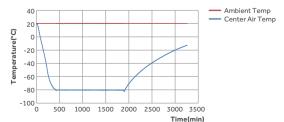
USB Interface

Enables users to download historical temperature data for compliance/ auditing purposes

Typical Performance Characteristics at 20°C Ambient



DW-86L730BPT Comprehensive Curve



DW-86L830BPT Comprehensive Curve



Temperature characteristics (20-point measurement)



Specifications ()

	Model		DW-86L730BPT	DW-86L830BPT	
	Cabinet Type		Upright	Upright	
Technical Data	Climate Class		N	N	
	Cooling Type		Direct Cooling	Direct Cooling	
	Defrost Mode		Manual	Manual	
	Refrigerant		HC	HC	
	Sound Level (dB(A))		≤42	≤46	
Performance	Cooling Performance (°C)		-86	-86	
	Temperature Range (°C)		-40~-86	-40~-86	
Control	Controller		Microprocessor	Microprocessor	
	Display		Touch Screen LCD	Touch Screen LCD	
	Power Supply (V/Hz)		100~230/50/60	100~230/50/60	
Electrical Data	Max Power (W)		900	1050	
Dimensions	Capacity (L/Cu.Ft)		730/25.8	830/29.3	
	Net/Gross Weight (approx)	kg	315/368	336/390	
		lbs	694.5/811.3	740.8/859.8	
		mm	766*716*1310	870*716*1310	
	Interior Dimensions (W*D*H)	in	30.2*28.2*51.6	34.3*28.2*51.6	
		mm	1046*998*1970		
	Exterior Dimensions (W*D*H)	in	41.2*39.3*77.6	1145*998*1970	
		mm	1110*1150*2160	45.1*39.3*77.6 1220*1150*2160	
	Packing Dimensions (W*D*H)	in	43.3*45.3*85	48*45.3*85	
	Container Load (20'/40'/40'H)	111	10/20/20	8/20/20	
			Y	Υ	
	High/Low Temperature Alarm Hot Condenser Alarm		Y	Y	
Alarms			Y	Y	
	Power Failure Alarm				
	High/Low Voltage Alarm		Y	Y	
	Sensor Error Alarm		Y	Y	
	Low Battery		Y	Y	
	High Ambient Temperature Alarm		Y	Y	
	Door Ajar Alarm		Y	Y	
	Start-Up Delay		Y	Y	
	Caster		Y(4)	Y(4)	
	Leveling Feet		Y(2)	Y(2)	
	Porthole		2 Rear, (15mm)Diameter	2 Rear, (15mm)Diameter	
Accessories	Inner Doors		4	4	
	Shelves		3 - Stainless Steel Adjustable Shelves	3- Stainless Steel Adjustable Shelve	
	Shelf Dimensions (W*D)(mm)		752*650	856*650	
	Max. Load per Shelf (kg)		90	108	
	Freezer Racks Qty (2" boxes)		20	24	
	Capacity (2" boxes)		500	600	
	USB Interface		Y	Y	
	Remote Alarm		Y	Y	
	5V Power Supply Port		Y	Υ	
	Temperature Chart Recorder		Optional	Optional	
	RS232/485 Port		NA/Standard	NA/Standard	
	CO₂ Backup System		Optional	Optional	
	LN₂ Backup System		Optional	Optional	
	Certifications		CE, UL, ENERGY STAR	CE, UL, ENERGY STAR	

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



Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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