

UltraEco ULT Freezer

Ultra Low Energy / Ultra Low Impact



- DW-86L730BPT / DW-86L830BPT -

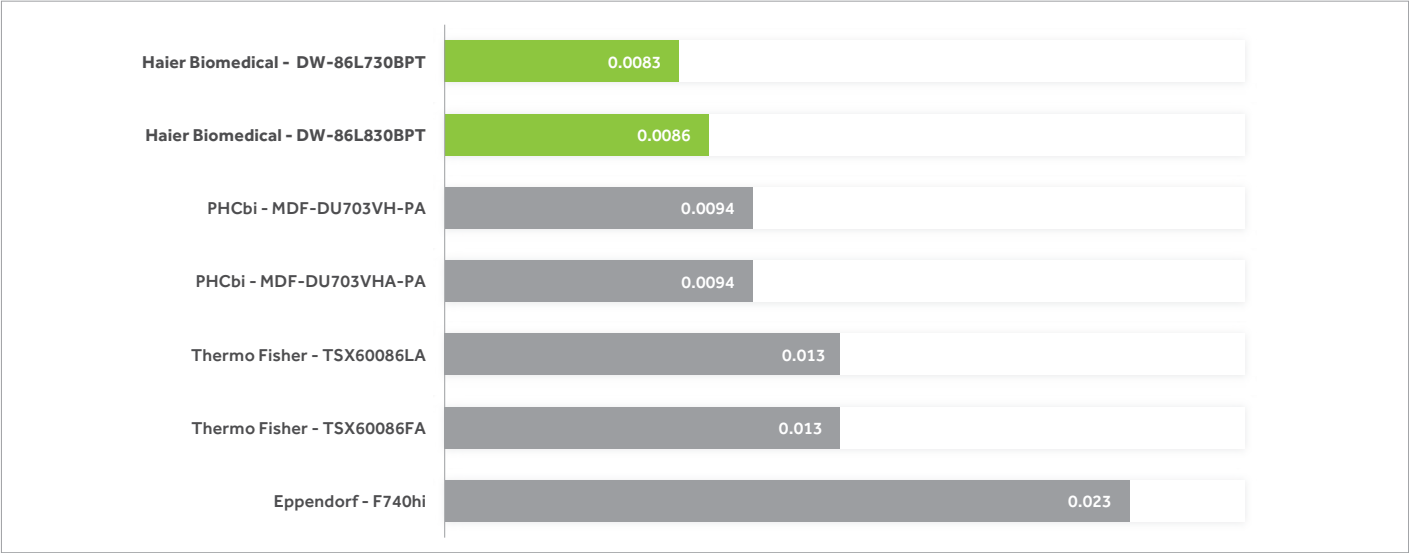
Enhanced Energy Efficiency

The UltraECO range has been certified as the lowest energy ULT freezer, at **just 4.16* kWh per day**, by EnergyStar.

*Date based on DW-86L730BPT



Power Consumption (kWh/day/2"cryobox)



Super Energy-Saving ULT Freezer VS. Its Competitors

Brand	Haier Biomedical	Haier Biomedical	PHCbi	Thermo Fisher	Eppendorf Cryocube
Series	Super Energy-Saving Series	Super Energy-Saving Series	VIP®ECO SMART	TSX	Cryocube
Model	DW-86L730BPT	DW-86L830BPT	MDF-DU703VH-PA MDF-DU703VHA-PA	TSX60086FA TSX60086LA	F740hi
Gross Capacity Liters (cu.ft.)	730(25.8)	830(29.3)	729(25.7)	815(28.8)	739(26.1)
2" Box Capacity	500	600	576	600	528
Energy Consumption* (kWh/day)	4.16	5.18	5.4	7.8	12.2
Energy cost/year/box	£0.76	£0.79	£0.86	£1.19	£2.11
Energy Cost in £ per Year* (Energy Cost: £0.25/kWh)	£379.60	£472.68	£492.75	£711.75	£1,113.25
Energy Cost in £ per 10 Years (Energy Cost: £0.25/kWh)	£3,796.00	£4,726.80	£4,927.50	£7,117.50	£11,132.50

*Energy consumption from <https://www.energystar.gov/productfinder/product/certified-lab-grade-refrigeration/Website> accessed January 13, 2025

*Energy cost from <https://www.ofgem.gov.uk/news/changes-energy-price-cap-between-1-july-and-30-september-2025> publish date 23 May 2025

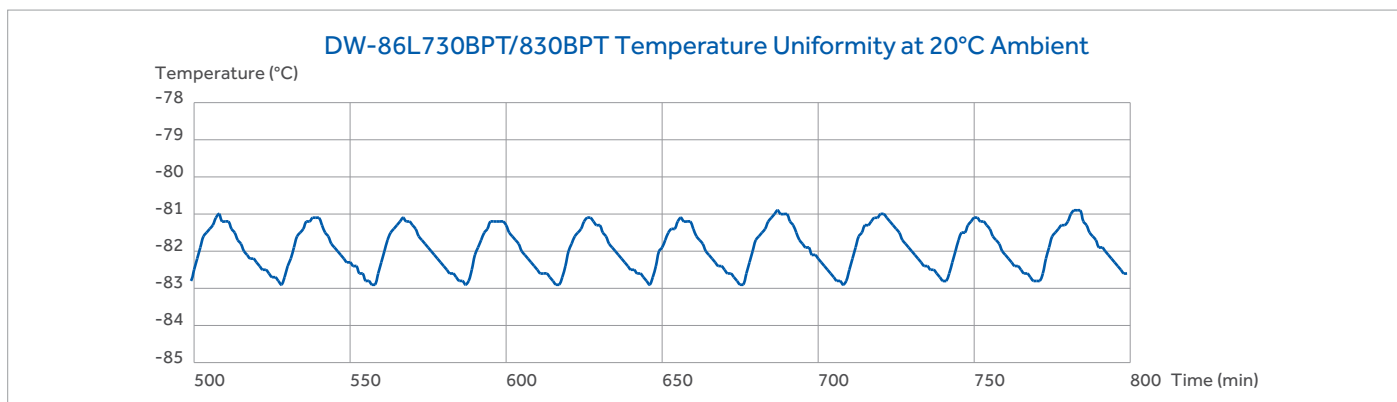
Superior Performance

Green and Environmental Friendly



HC refrigerants and insulation materials with ultra-low global warming potential (GWP) levels exert an extremely minimal impact on the environment.

Excellent Temperature Uniformity



Under stringent high-standard testing at 20 measurement points, the temperature uniformity within the chamber can be maintained within $\pm 2^{\circ}\text{C}$ at 20°C ambient.

Enhanced Insulation and Cooling Technology

Thanks to the upgraded compressor and advanced insulation design, there is a great improvement in the warm-up time and door opening recovery time



348min

Warm-Up Time from -80°C to -50°C



15 min

1 Min Door Opening Recovery Time
*Open All Inner Doors

* Data based on DW-86L730BPT, 20°C ambient

Faster Re-Entry

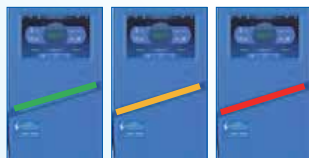


Upgraded electromagnetic PEP allows for rapid re-entry

Optimised Design

Innovative Light Bar Design

Clearly indicates the operating status and visually alerts users of alarms for effortless at-a-glance monitoring.



Normal Operation

Abnormal Alert

Critical Alarm

USB Interface

Standard USB port enables users to download historical temperature, alarm and operational data for compliance or auditing purposes.



Enhanced Access Security

Ergonomic handle makes door opening and closing effortless with a unique key lock and the ability to add padlocks for additional security. Optional fingerprint and NFC card access.



Backup System (Optional)

Built-in backup system and independent control panel guarantees sample safety even in the event of a long power outage.



Specifications

Model		DW-86L730BPT	DW-86L830BPT
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))	≤42	≤46
Performance	Cooling Performance (°C)	-86	-86
	Temperature Range (°C)	-40~-86	-40~-86
Energy (kWh/day)**		4.16	5.18
Electrical Data	Power Supply (V/Hz)		100-230/50/60
	Max Power (W)	900	1050
Dimensions	Capacity (L/Cu.Ft)	730/25.8	830/29.3
	Net/Gross Weight (approx)	kg	315/368
		lbs	694.5/811.3
	Interior Dimensions (W*D*H)	mm	766*716*1310
		in	30.2*28.2*51.6
	Exterior Dimensions (W*D*H)	mm	1046*998*1970
		in	41.2*39.3*77.6
	Packing Dimensions (W*D*H)	mm	1110*1150*2160
		in	43.3*45.3*85
Alarms	Container Load (20'/40'/40'H)	10/20/20	8/20/20
	High/Low Temperature Alarm	Y	Y
	Hot Condenser Alarm	Y	Y
	Power Failure Alarm	Y	Y
	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
Accessories	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
	Inner Doors	4	4
	Shelves	3- Stainless Steel Adjustable Shelves	3- Stainless Steel Adjustable Shelves
	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	Y
	Temperature Chart Recorder	Optional	Optional
	RS232/485 Port	NA/Standard	NA/Standard
Others	CO ₂ Backup System	Optional	Optional
	LN ₂ Backup System	Optional	Optional
Others	Certifications	CE, UL, ENERGY STAR	CE, UL, ENERGY STAR

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

**EnergyStar certified.

Haier Biomedical UK Ltd.

Ocean House, 121 Harris Way,
Sunbury, Surrey, TW16 7EL
Tel: (01932)780 070
Email: sales@haierbiomedical.co.uk
Website: www.haierbiomedical.co.uk



@HaierBiomedicalUK



Haier Biomedical UK



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@HaierBiomedical