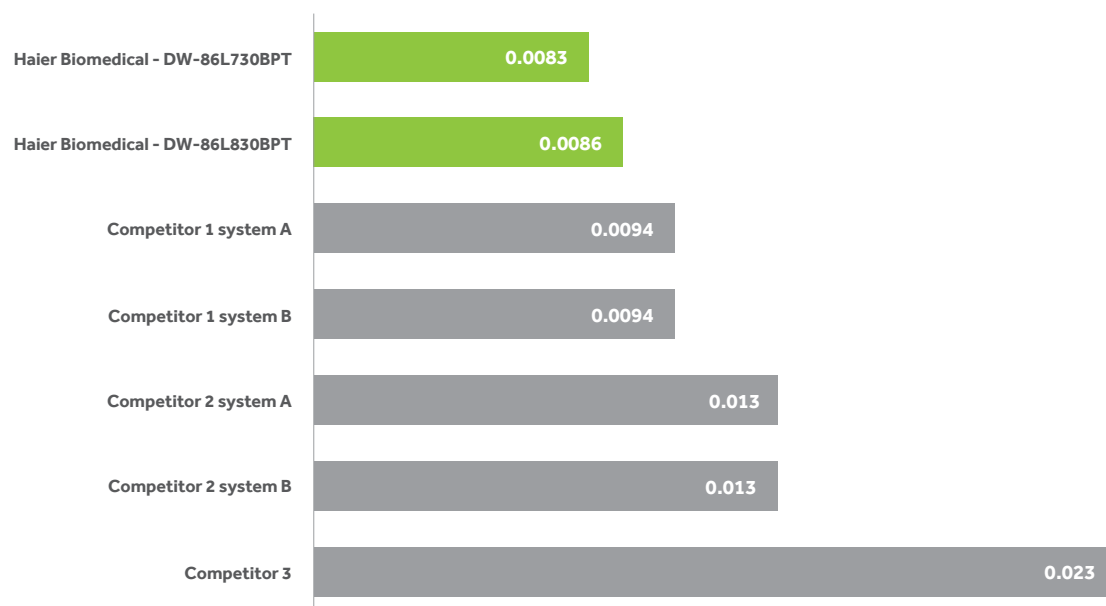


The UltraEco ULT freezer – an ultra-low impact, greener alternative for cold storage

Haier Biomedical
Intelligent Protection of Life Science

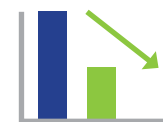
Discover the UltraECO ULT freezer, the most energy efficient ULT freezer in the world. Our UltraECO ULT freezer uses energy-saving technology to deliver precise temperature control for long-term storage of biological samples and reagents, ensuring the integrity and stability of these precious materials. But that's just one consideration. It is equally important that today's storage solutions are energy efficient and environmentally friendly. The Energy Star-rated UltraECO ULT freezer not only reduces electricity consumption but also contributes to a greener environment by using HC refrigerants and insulation materials that have minimal impact on the ecosystem.

Power consumption (kWh/day/2"cryobox)

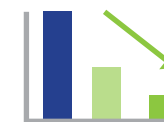


The UltraEco ULT freezer – an ultra-low impact, greener alternative for cold storage

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



- Up to 50 % reduction compared to the previous generation of ULT freezers



- Even more when measured against older models or other brands

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

A world first in the sector

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.

~200x
less impactful on
the environment

20 %
better hold
times

10 %
better energy
efficiency

Reduced CO₂ emissions

Carbon dioxide is a significant contributor to climate change. Our UltraECO ULT freezer reduces emissions by 2.5 tons over 10 years compared to the previous generation of ULT freezers – the equivalent of a trip from Birmingham, UK, to New Zealand and back by car!

Model	kg/24 hr	Year 1 (kg)	Year 2 (kg)	Year 3 (kg)	Year 4 (kg)	Year 5 (kg)	Year 10 (kg)
UltraECO freezer DW-86L730BPT	0.69	253.57	507.15	760.72	1014.29	1267.86	2535.73
Previous generation ULT freezer DW-86L729BPT	1.34	487.64	975.28	1462.92	1950.56	2438.2	4876.4
Comparison	0.65	234.07	468.13	702.2	936.27	1170.34	2340.67

Super energy-saving UltraECO ULT freezers vs. competitors

Brand	Haier Biomedical UltraECO ULT freezer DW-86L730BPT	Haier Biomedical UltraECO ULT freezer DW-86L830BPT	Competitor 1	Competitor 2	Competitor 3
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 per year (£)* (Energy cost: £0.25/kWh)	379.60	472.68	492.75	711.75	1,113.25
Energy cost 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

Return on investment

The energy efficient UltraECO ULT freezer offers considerably reduced annual running costs compared to competitor models – certified by Energy Star – virtually paying for itself within 10 years.



The UltraECO ULT freezer:
high performance, low energy,
ultra-low impact storage
– without compromise.



View our
UltraECO ULT
freezers here:

Haier Biomedical UK Ltd, Ocean House, 121 Harris Way, Sunbury,
Surrey, TW16 7EL, United Kingdom.
T: +44 (0)1932 780 070 **W:** www.haierbiomedical.co.uk
E: sales@haierbiomedical.co.uk
Company Registration Number: 07694265

Haier Biomedical
Intelligent Protection of Life Science