

Haier Biomedical

Intelligent Protection of Life Science

-86°C ULT Freezer

DW-86L828J



Energy saving

VIP(Vacuum Insulation Panel) design with extra insulation cuts down on heat loss to cabinet by 25% and helps reduce energy consumption by more than 20%, power consumption only 12 kWh/day



Slim design

Easily fits through every standard lab door and takes a small footprint



Reliable

Cabinet temperature can reach -86°C with temp uniformity within 4°C

Complementary products



CO₂
Backup
Systems



Chart
Recorder



Stainless
Steel
Racks



Cryo
Boxes

Specifications

DW-86L828J

Technical Data

Type	-86°C ULT Freezer
Cabinet Type	Upright
Climate Class	N
Cooling Type	Direct cooling
Defrost Mode	Manual
Refrigerant	HC
Noise Lever (dB)	50

Performance

Cooling performance(°C)	-86
Temperature Range(°C)	-40~-86

Control

Controller	Microprocessor
Display	LED

Electrical Data

Power Supply(V/Hz)	220-240/50
Power(W)	1000
Electrical Current(A)	10

Functions

High/Low Temperature	Y
Remote Alarm	Y
Hot Condenser	Y
Power Failure	Y
Sensor Error	Y
Low Battery	Y
High Ambient Temp	Y
Door Ajar	Y



Accessories

Caster	Y
Foot	Y
Test Hole	Y/2
Shelves/Inner Doors	3/4
Temperature Recorder	Optional
USB Interface	Y
Rs232/485 Interface	Optional
CO2 Backup System	Optional
LN2 Backup System	Optional
Racks & Boxes	Optional

Dimensions

Capacity(L/Cu.Ft)	828/29.2	
Net/Gross Weight(approx)	380/410(kg)	837.8/903.9(lbs)
Interior Dimensions(W*D*H)	870*716*1310(mm)	34.3*28.2*51.6(in)
Exterior Dimensions(W*D*H)	1145*980*1980(mm)	45.1*38.6*78.0(in)
Packing Dimensions(W*D*H)	1190*1045*2150(mm)	46.9*41.1*84.6(in)
Container load (20'/40'/40'H)	8/20/20	

Accessories & consumables

DW-86L828J

Consumables

Racks		Part Code
Model	DCJ-55-A	DCJ-55-B
Q'ty/Layer	6	
Dimension (W*D*H)	138*685*293(mm) 5.4*27.0*11.5(in)	140*685*293(mm) 5.5*27.0*11.5(in)

Boxes		Part Code
Model	T130	HBB-200-PP HBB-281-PC HBB-200-C
Material	PP	PP PC PC
Dimension (W*D*H)	133*133*53.5(mm) 5.2*5.2*2.1(in)	
Q'ty/Rack	25	

Total Q'ty				
Racks	24			
Boxes	600			
Vials	48600	60000	48600	60000

CO₂ Backup System

Model	HBX-IC
Temperature range	-40°C to -70°C

LN₂ Backup System

Model	HBX- II A
Temperature range	-90°C to -135°C

Chart Recorder

Temperature range	+50°C to -115°C
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Others

Certificate	CE
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Complementary products



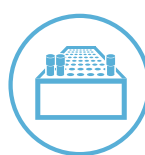
CO2 Backup Systems



Stainless Steel Racks



Chart Recorder



Cryo Boxes

PRODUCT BULLETIN #2

Date: 26 June 2018

Haier Biomedical Awarded Energy Star Rating for Energy Efficient ULT Freezers



ENERGY STAR® is the US government-backed symbol for energy efficiency, providing simple, credible, and unbiased information that consumers and businesses rely on to make well-informed decisions¹, save money and protect the environment.

Three models within Haier Biomedical's energy efficient ULT portfolio, DW-86L578J, DW-86L728J and DW-86828J, have been independently tested and certified and the data is now available through the programme's online tool, [ENERGY STAR Portfolio Manager](#)®. The portal can be used to view all the different models of Energy Star rated freezers and website users can compare models.



Certificate of Conformance

Three models within the J series range of ULT freezers were supplied to UL, a global leader in energy efficiency product testing and certification (<https://www.ul.com/>), to undergo independent testing against the US ENERGY STAR®: programme requirements for Laboratory Grade Refrigerators and Freezers, Version 1.1.



Energy Data Comparisons:

The Energy Manager Portfolio shows a comparison of the data between Haier, Panasonic, Eppendorf and others. The example below is a screenshot (taken on 26/06/18) comparing Thermo, Eppendorf and Haier models.

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< back to results			
	Thermo Fisher - TSX50086A - TSX50086A	Eppendorf - CryoCube - CryoCube F740HI	Haier - DW- 86L728J(220V) - DW- 86L728J(220V) DW-86L728J(220V)
ENERGY STAR Partner:	Thermo Fisher Scientific LLC	Eppendorf North America	HAIER MEDICAL & LABORATORY PRODUCTS CO LTD
Product Type:	Ultra-Low Temperature Freezer	Ultra-Low Temperature Freezer	Ultra-Low Temperature Freezer
Total Volume (cubic feet):	23.84	26.1	25.32
Ultra-Low Temperature Freezer Energy Consumption (kWh/day/cu-ft):	0.45	0.47	0.42
Peak Temperature Variance (°C):	22.93	20.41	21.18
Product Form Factor:	Upright	Upright	Upright
Total Number of Doors:	1	1	1
Number of glass doors:	0	0	0
Number of solid doors:	1	1	1
Door Opening Orientation:	Swinging,Right	Swinging,Right	Swinging,Right
Number of Drawers or Shelves:	3	2	4
Number of Internal Ports and/or Access Holes:	2	2	2

To view all ULT freezers rated within the Energy Star Programme paste the following link into your browser.

https://www.energystar.gov/productfinder/product/certified-lab-grade-refrigeration/results?scrollTo=432&search_text=&lab_grade_refrigerators_and_freezers_product_type_filter=Ultra-Low+Temperature+Freezer&brand_name_isopen=&markets_filter=United+States&zip_code_filter=&product_types=Select+a+Product+Category&sort_by=calculated_daily_energy_consumption_kwh_day_cu_ft&sort_direction=asc¤tZipCode=&page_number=0&lastpage=0

Energy Data

Independently Tested and ENERGY STAR® Certified

		
Model Number		
DW-86L578J	DW-86L728J	DW-86L828J
Total Volume (cubic feet/litres)		
20.55/578	25.32/728	28.75/828
Energy consumption(kwh/day/cu-ft)		
0.37	0.42	0.38

ENERGY STAR® is the US government-backed symbol for energy efficiency, providing simple, credible, and unbiased information that consumers and businesses rely on to make well-informed decisions*, save money and protect the environment.

*<https://www.energystar.gov/>





WolfLabs

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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Please contact us if this literature doesn't answer all your questions.