PRODUCT SPECIFICATIONS

Product	DW-86L829BP	DW-86L959BP
Cabinet Type	Upright	Upright
Climate Class	Ν	Ν
Storage Capacity(L/Cu.Ft)	829/29.2	959/33.9
Temperature Range(°C)	-40~-86	-40~-86
Noise Level (dB(A))	43.5	47
Net/Gross Weight(kg/lbs)	380/410	450/485
Exterior Dimensions(W*D*H)	1145*998*1980(mm) 45.1*39.3*78.0(in)	1296*998*1980(mm) 51.0*39.3*78.0(in)
Interior Dimensions(W*D*H)	870*716*1310(mm) 34.3*28.2*51.6(in)	1016*716*1310(mm) 40.0*28.2*51.6
Refrigerant	HC	HC
Cooling Performance(°C)	-86	-86
Display	LED	LED
Power Supply(V/Hz)	208~230/50/60	208~230/50/60
Power(W)	1100	1300
Power Consumption(kWh/day)	8.2	12
Electrical Current(A)	6	6
Building Supply Rating (A)	16	16
Power Lead Length(m)	2.5	2.5
Heat Rejection (BTU/day)	27980	40947
Ambient Temperature(°C)	10~32	10~32
Cooling Type	Direct cooling	Direct cooling
Compressor Type/Brand/Number	Hermetic Reciprocating Type / Nidec/ 2	Hermetic Reciprocating Type / embraco / 2
Compressor Capacity(W)	950+950	950+950
vaporator Type	Copper Tube Evaporator	Copper Tube Evaporator
Defrost Mode	Manual	Manual
controller Level	Тор	Тор
Power Switch	16A	16A
Controller	Microprocessor	Microprocessor
etpoint Security	Yes	Yes
Controller Sensor	PT100	PT100
Remote Alarm Terminals		
	Remote Alarm Port, RS485 (Optional)	Remote Alarm Port, RS485 (Optional)
Adjustable High/Low Temp Alarms	Y	Y
nsulation	VIP+CFC Free Foaming Agent	VIP+CFC Free Foaming Agent
xterior Door Seal	Four Seal On The Outside Door Seal Strip	Four Seal On The Outside Door Seal Strip
nterior Door Seal	One Seal On The Interior Door Seal Strip	One Seal On The Interior Door Seal Strip
ihelves/Capacity/Dims/Material	3 stainless steel adjustable shelves with dimension 854*706 mm(W*D), max capacity per shelf:60kg/132.4 lbs	3 stainless steel adjustable shelves with dimension 1000*706 mm(W*D), max capacity per shelf:70kg/154.5 lbs
Caster	Y/4	Y/4
Exterior Material	Colour Coating Steel Plate	Colour Coating Steel Plate
nterior Material	Colour Coating Steel Plate	Colour Coating Steel Plate
Door Thickness (mm)	90	90
Cabinet Thickness(mm)	90	90
nner Door	Four Solid Door	Four Solid Door
Condenser Type	Fin Condenser	Fin Condenser
an Brand	EBM	EBM
Back Up Battery for Alarm Functions	Support high/low temperature, power failure, door open, sensor failure, high ambient temperature, hot condenser and low battery alarms	Support high/low temperature, power failure, door
Temperature Uniformity(°C)	±3	±3
emperature Accuracy(°C)	1	1
Cool Down Time (25°C ambient to -80°C) mins	350	340
Narm Up Time (25°C ambient -80°C to -50°C) mins	290	290
Min Door Open Recovery Time (ambient 25°C running temp 80°C)mins	40	45
Certificate	CE	CE

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Haier Biomedical Intelligent Protection of Life Science

SmartFrequency Conversion

Holet

Salvum

DW-86L829BP

Haier Biomedical's ultra low temperature freezers with SmartFrequency conversion technology that provides users with a

world-leading energy efficient freezer.







Intelligent Frequency Conversion Technology

Two frequency conversion compressors, designed with adaptive control, follow user patterns and adjust the refrigeration system, substantially reducing energy without compromising performance.



Maximum Energy Efficiency

Due to our SmartFrequency refrigeration technology, innovative cabinet design and the use of hydrocarbon refrigerants, this range of freezers have the lowest energy consumption figures to date at just 8.2kWh/day.



Precise Temperature Control

The innovative control algorithm balances the effects of temperature loss with the unique frequency conversion refrigeration system, ensuring the cabinet temperature stability of $\pm 3^{\circ}$ C.

Smarter by Design

The SmartFrequency Conversion range of ultra low temperature freezers have been designed and developed at the Haier Biomedical R&D Institute and is certified by one of the word's leading energy conservation and environmental protection organisations.

V·I·P

Frequency Conversion Adaptive Technology

Unlike standard, single speed compressors that cycle on and off, our frequency conversion compressor runs at variable speeds to adjust cooling performance to the conditions inside and outside of the freezer. It allows the freezer to adjust to factors such as start-up and door openings when a higher compressor speed is needed. When conditions are normal or stable, the drive runs at a lower speed while still protecting the samples.



World-leading Energy Saving Refrigeration Technology

The hydrocarbon refrigeration technology saves energy by 50%, significantly reducing the running costs of the freezer. Hydrocarbon refrigerant contains no fluorine or chlorine and has a global warming potential (GWP) value of just 3, meaning this refrigerant is a more environmentally friendly option compared to HFC refrigerants.

Minimal Noise Output

Hotel

Salvum

DW-86L829BP

Adaptive control technology controls fans and compressors to reduce noise levels to an exceptional 43.5dB

PRODUCT ADVANTAGES





USB Interface Enables users to download historical

temperature data for compliance/auditing purposes

Multilayered Sealing Structure Triple layer of gaskets split between main and inner doors decreases heat loss and guarantees excellent warm up times in the event of a power failure



Improved Handle Design

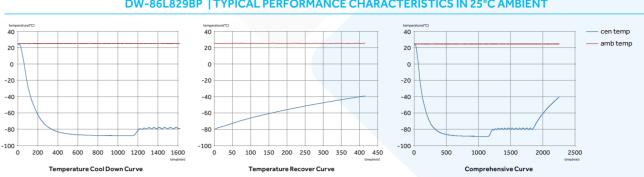
Lockable handle with unique key prevents other Haier freezer owners access to your precious samples, also comes with space for a padlock for that extra security

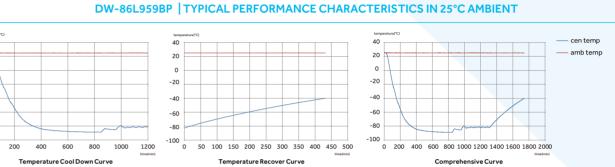


Multilevel Alarms

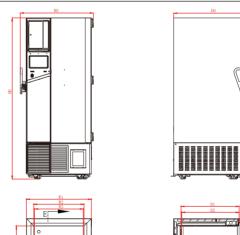
Alarming functions that include hi and low temperature, sensor error, power failure, high ambient, clean filter and door ajar

DW-86L829BP | TYPICAL PERFORMANCE CHARACTERISTICS IN 25°C AMBIENT





PRODUCT DIMENSION DRAWING





40

20

-20

-40

-60

-80

-100 |_____0



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MODEL	CODE	WO		W1	W2	W3	но	D	H1	D0	D1	D2	
DW-86L82	9BP	1145mr	n 1	1050mm	870mm	854mm	1980	mm	1310mm	998mm	716mm	706m	m
DW-86L95	9BP	1296mr	n 1	1196mm	1016mm	1000mm	1980	mm	1310mm	998mm	716mm	706m	im
Model	Volt (V/	tage Hz)	Rated (V		ner Cabinet mperature(°C)	External Dime (W * D * H r			nal Dimension * D * H mm)	Effective Volume (L)	Net Weight Gross Weig		Shelf
Model DW-86L829BP	(V/			W) Te			nm)	(W				ht (Kg)	Shelf 3



W0 --- TOTAL WIDTH W1 --- FREEZER WIDTH W2 --- INNER CABINET WIDTH

D1 --- INNER CABINET DEPTH D2 --- SHELF DEPTH

H0 --- TOTAL HEIGHT H1 --- INNER CABINET HEIGHT

W3 --- SHELF WIDTH D0 --- TOTAL DEPTH

RAMARK