

Smart Frequency Conversion ULT Freezer

DW-86L579BP DW-86L829BP DW-86L729BP DW-86L959BP



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

Ergonomic Design

- Energy Saving Refrigeration
- Multilayered Sealing Structure
- Improved Handle Design
- USB Interface

- Pressure Equalisation Port
- Multilevel Alarms

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Scope of Application



Haier Biomedical's Smart Frequency technology manages the compressor speeds on demand. The ultra-low temperature freezers can thus achieve the world-leading energy efficiency in ultra-low temperature.



Intelligent frequency conversion technology

Two variable speed compressors are controlled for optimal freezer performance. Low energy consumption is achieved.



Maximum energy efficiency

Our SmartFrequency Technology, coupled with our environmentally safe and friendly hydrocarbon refrigeration system, allows the Haier freezers to operate at a low level of energy of 8.2 kWh/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.



Frequency conversion adaptive technology

Variable speed compressors in Haier Biomedical freezers are operated to produce the capacity that matches the demand of the load. The control system automatically tunes the speed of the compressors to optimize the operation.



World-leading energy saving refrigeration technology

Our hydrocarbon refrigeration technology can save energy by 50%, significantly reducing operator's cost. The refrigerants do not contain fluoride and chloride. The global warming potential is extremely low at 3. Thus they are very friendly to the environment.



Minimal sound level output

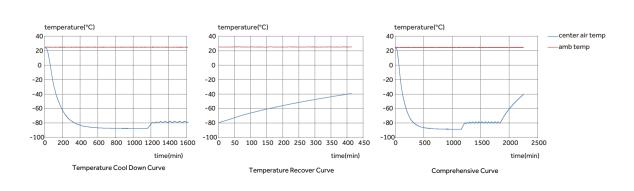
Adaptive control technology controls the fans and compressors to reduce the sound level to 43.5 dB(A).



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

power failure, high ambient, clean filter

and door ajar





Specifications



	Model		DW-86L579BP	DW-86L729BP	DW-86L829BP	DW-86L959BP
Technical Data	Cabinet Type		Upright	Upright	Upright	Upright
	Climate Class		N	N	N	N
	Cooling Type		Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual	Manual	Manual
	Refrigerant		HC	HC	HC	HC
	Sound Level (dB(A))		43.5	43.5	43.5	47
Performance -	Cooling Performance (°C)		-86	-86	-86	-86
	Temp Range (°C)		-40~-86	-40~-86	-40~-86	-40~-86
	Controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor
Control -	Display		LED	LED	LED	LED
Electrical	Power Supply (V/Hz)		100~230/50/60	100~230/50/60	208~230/50/60	208~230/50/60
Data	Electrical Current (A)		14	14	15 6	20 7
Construction	Capacity (L/Cu.Ft)		579/20.4	729/25.7	829/29.2	959/33.9
	Net/Gross Weight (approx)	kg	325/355	350/385	380/415	450/485
		lbs	716.5/782.6	771.6/848.8	837.7/914.9	992.1/1069.2
	Interior Dimensions (W*D*H)	mm	620*716*1310	766*716*1310	870*716*1310	1016*716*1310
		in	24.4*28.2*51.6	30.2*28.2*51.6	34.3*28.2*51.6	40.0*28.2*51.6
	Exterior Dimensions (W*D*H)	mm	895*998*1980	1046*998*1980	1145*998*1980	1296*998*1980
		in	35.2*39.3*78	41.2*39.3*78.0	45.1*39.3*78.0	51.0*39.3*78.0
		mm	975*1095*2130	1120*1090*2130	1240*1080*2130	1410*1160*2185
	Packing Dimension (W*D*H)	in	38.4*43.1*83.9	44.1*42.9*83.9	48.8*42.5*83.9	55.5*45.7*86
	Container Load (20'/40'/40'H)		12/24/24	10/22/22	5/11/11	5/10/10
Alarms	Remote Alarm (Dry contacts)		Υ	Υ	Υ	Y
	High/Low Temp		Υ	Υ	Y	Y
	Hot Condenser		Υ	Υ	Υ	Υ
	Power Failure		Y	Υ	Y	Y
	Sensor Error		Υ	Υ	Υ	Υ
	Low Battery		Υ	Υ	Y	Υ
	High Ambient Temp		Υ	Υ	Υ	Υ
	Door Ajar		Y	Y	Y	Y
Accessories -	Caster		Y	Υ	Y	Y
	Foot		Υ	Y	Y	Υ
	Porthole		Y/2	Y/2	Y/2	Y/2
	Shelves/Inner Doors		3/4	3/4	3/4	3/4
	USB Interface		Y	Υ	Y	Y
	5V Power Supply Port		Y	Υ	Y	Y
	Temp Recorder		Optional	Optional	Optional	Optional
	RS485 Port		Y	Y	Y	Y
	CO ₂ Backup System		Optional	Optional	Optional	Optional
	LN₂ Backup System		Optional	Optional	Optional	Optional
Certifications	CE		Y	Y	/ Y	/ Y
	UL		Y	Y	Y /	Y /
	ENERGY STAR		Y	Y	YY	YY
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BP suffix - Variable frequency invertor compressor Product appearance and specifications are subject to change without notice