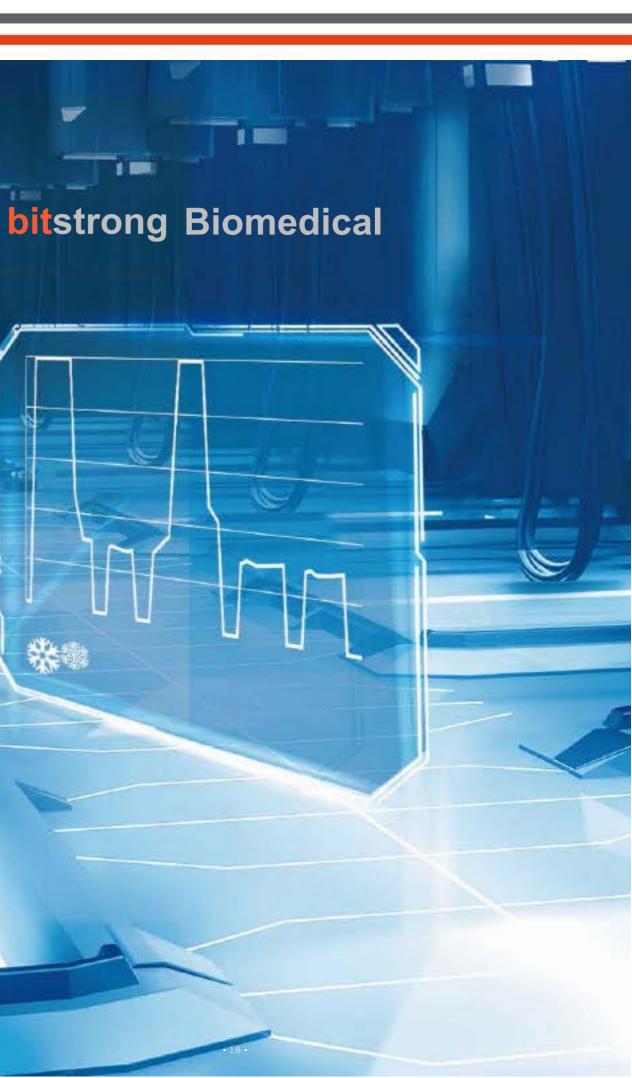


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Salvum

SmartFrequency Conversion **ULT Freezer**



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Salvum SmartFrequency Conversion ULT Freezer



Smarter by Design

The SmartFrequency 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.

Intelligent frequency **Conversion technology**

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



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 ±3°C.



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.

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



DW-86L829BP



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.



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.



Minimal sound level output

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

Salvum SmartFrequency Conversion ULT Freezer

Salvum SmartFrequency Conversion ULT Freezer

Specifications

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Energy Saving Refrigeration High efficiency cooling fans and compressors, combined with hydrocarbon refrigerants, ensure energy savings and long-term sample security		Multilayered Sealing Structure Triple layer of gaskets split between mai and inner doors decreases heat loss and guarantee excellent warm up times in th event of a power failure
Pressure Equalisation Port Heated port with spring assisted mechanism to prevent icing on the vent allows users to reopen the main door soon after entering	Salvum	Improved Handle Design Lockable handle with unique key prevent other Haier freezer owner's access to yo precious samples, also comes with space a padlock for that extra security
USB Interface Enables users to download historical temperature data for compliance/auditing purposes	DW-86L829BP	Multilevel Alarms Alarming functions that include high and temperature, sensor error, power failure ambient,clean filter and door ajar
Enables users to download historical temperature data for compliance/auditing purposes DW-86L829BP	PICAL PERFORMANCE CHARACTERIST	Alarming functions that include high and temperature, sensor error, power failure ambient, clean filter and door ajar
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Enables users to download historical temperature data for compliance/auditing purposes DW-86L829BP TY ÉāćÉ ĉ~í ì ĉÉEœ F í 20 0 -20	Éã É É ở-í 1 ở É E œ F 1 É E	Alarming functions that include high and temperature, sensor error, power failure ambient, clean filter and door ajar
ÉâćÉč~í ì čÉEœ F	PICAL PERFORMANCE CHARACTERIST	Alarming functions that include high and temperature, sensor error, power failure ambient, clean filter and door ajar
Enables users to download historical temperature data for compliance/auditing purposes DW-86L829BP TY ÉâéÉê~í ì êÉEœ F	PICAL PERFORMANCE CHARACTERIST	Alarming functions that include high and temperature, sensor error, power failure ambient, clean filter and door ajar

	Model		DW-86L579BP	DW-86L729BP	DW-86L829BP	DW-86L959B
	Cabinet Type		Upright	Upright	Upright	Upright
Technical Data	Climate Class		N	N	Ν	N
	Cooling Type		Direct Cooling	Direct Cooling	Direct Cooling	Direct Coolin
	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	Microprocess
Control -	Display		LED	LED	LED	LED
Electrical – Data –	Power Supply(V/Hz)		100~230/50/60	100~230/50/60	208~230/50/60	208~230/50
	Power(W)		1100	1100	1100	1300
	Electrical Current(A)		6	6	6	7
Dimensions	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.
	Interior Dimensions(W*D*H)	mm	620*716*1310	766*716*1310	870*716*1310	1016*716*13
		in	24.4*28.2*51.6	30.2*28.2*51.6	34.3*28.2*51.6	40.0*28.2*5
	Exterior Dimensions(W*D*H)	mm	895*998*1980	1046*998*1980	1145*998*1980	1296*998*19
		in	35.2*39.3*78.0	41.2*39.3*78.0	45.1*39.3*78.0	51.0*39.3*78
	Packing Dimension(W*D*H)	mm	950*1055*2150	1100*1105*2150	1190*1045*2150	1365*1105*2
		in	37.4*41.5*84.6	43.3*43.5*84.6	46.9*41.1*84.6	53.7*43.5*84
	Container Load(20'/40'/40'H)		12/24/24	10/20/20	8/20/20	8/16/16
	Remote Alarm		Y	Y	Y	Y
	High/Low Temp		Y	Y	Y	Y
	Hot Condenser		Y	Y	Y	Y
Alarms Pc Se Lc Hi Do	Power Failure		Y	Y	Y	Ý
	Sensor Error		Y	Y	Ŷ	Y
	Low Battery		Y	Y	Y	Y
	High Ambient Temp		Y	Y	Y	Y
	Door Ajar		Y	Y	Y	Y
	Caster		Y	Y	Y	Y
Accessories	Foot		Y	Y	Y	Y Y
	Porthole		Y/2	Y/2	Y/2	Y/2
	Shelves/Inner Doors		3/4	3/4	3/4	3/4
	USB Interface		У У	Y	Y	Y
	5V Power Supply Port		Y	Y	Y	Ý
	Temp Recorder		Optional	Optional	Optional	Optional
	RS232/485 Port		Optional	Optional	Optional	Optional
	CO ₂ Backup System			Optional	,	
			Optional	Optional	Optional Optional	Optional
	LN₂ Backup System		Optional	Optional	Optional	Optional

Product appearance and specifications are subject to change without notice

