

Haier Biomedical
Intelligent Protection of Life Science

-86°C Ultra Low Temperature Freezer

Energy-saving Series

Hydrocarbon refrigeration, saving power by 50%



World Leading Energy-Efficient



Hydrocarbon Refrigeration System



Slim Cabinet Design



Reliable Sample Protection



Malfunction Alarms



Excellent Insulation Performance

Suitable for blood stations, hospitals, disease control and prevention centers, scientific research institutions, and all related medical and life science laboratories.

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International



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@haiermedicalint



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원문: Haier Biomedical Standard Low Energy ULT Freezer with LED Display Standard Low Energy ULT Freezer with LED Display · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

**Product Features****Field Proven Reliability**

- Unique insulated inner door design for four separate storage compartments to minimize frost buildup inside the chamber
- Specialized control system design for a well-balanced operation of cascade refrigeration system
- Positive field proven reliability record

**Safety**

- Malfunction alarms including high and low temperature, power failure, sensor error, clean-filter, and extremely high ambient
- Capable of producing two types of alarm outputs: audible buzzer and visible flashing light
- Multiple built-in system protection features including user-settable protection code for controls, user settable delay to start, voltage compensation system, and protection against extreme high voltages
- Door open feature standard and USB port for temperature data downloading standard on upright models
- Remote alarm contacts

**Energy Saving**

- Unique door seal design for the minimum loss of cold temperature during a door opening
- High performance VIP insulation panels to minimize cabinet heat gain and to improve temperature stability
- Patented cabinet insulation system designed for optimal performance of cold storage temperature and minimal frost buildup
- Unique design of independent insulated inner door systems for independent access of storage space to provide the maximum protection of stored samples

**Installation & Application**

- Wide range operating voltage system from 185V to 260V designed to allow units installed in areas with poor voltage condition
- Suitable for 10°C to 32°C ambient temperature
- Input voltage and ambient temperature shown simultaneously for ease of monitoring environmental conditions
- Robust door latch designed for secure door closing
- Compact casters for ease of maneuvering

**Key Design Features**

- Microprocessor-controlled system designed for controllable range of -40°C to -86°C for cabinet space with 1°C increment
- Large LED display for cabinet temperature, set temperature, ambient temperature, and input voltage
- Settable high temperature and low temperature alarms
- Automatic clean-filter alarm and sensor error alert
- Adjustable storage shelf height
- Optional temperature recorder, storage racks and storage boxes

**Low Sound Level**

- Specialized refrigeration system design using whisper quiet fan and compressors
- Freezer chassis designed to absorb vibration and sound

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Product Parts



4 Individual Removable Foam Inner Doors

- 4 individual inner doors can be opened independently to minimize frost buildup inside the chamber
- Unique door seal design for the minimum loss of cold temperature during a door opening
- Compatibility with existing racking system from competitors
- Stainless steel handle to ensure proper strength for door latching
- Some interior door handles have been upgraded to stainless steel for more comfortable door opening experience



Excellent Doors Seals

- Total of five gaskets to safeguard the freezer temperature, including four seals for the exterior door, one for each inner door

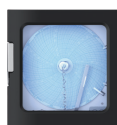


- Optimized slideway design, easier to open and close the door



Pressure Equalization Port

- Heated port with spring-assisted mechanism to prevent icing on the vent
- Allows re-accessing the freezer after initial door opening
- Adopts chromium plating, rust-proof



Circular-chart Recorder (Optional)

- Front-mounted
- For independent temperature monitoring



DW-86L728J

High Efficiency Refrigeration Components



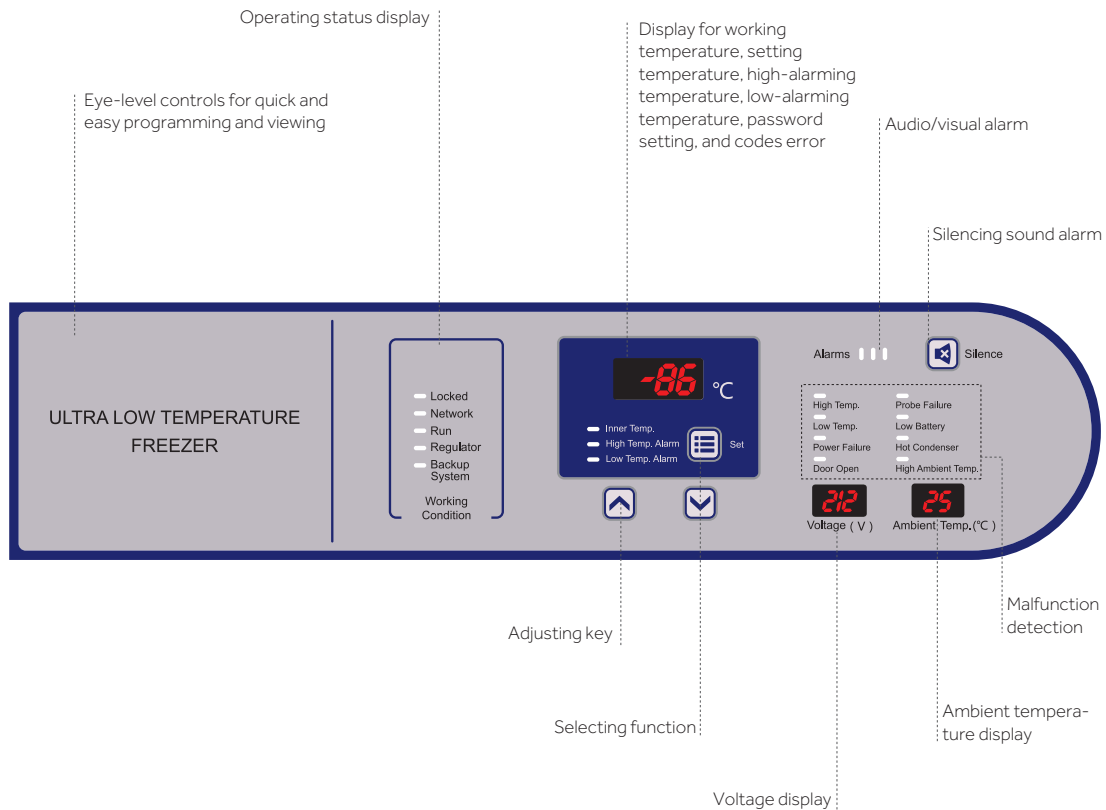
Two port holes for ease of temperature monitoring

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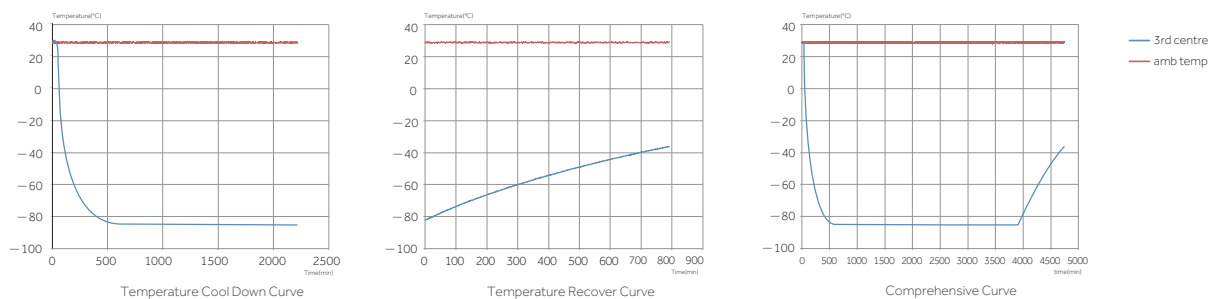
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Product Performance

TYPICAL PERFORMANCE CHARACTERISTICS AT 25 °C AMBIENT



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Specifications



	Model	DW-86L338J			DW-86L338JA		DW-86L388J		DW-86L486E		DW-86L490J		DW-86L490JA		
Data Technical	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))	50					50		49		50				
Performance	Cooling Performance (°C)	-86					-86		-86		-86				
	Temperature Range (°C)	-40~-86					-40~-86		-40~-86		-40~-86				
Control Data	Controller	Microprocessor					Microprocessor		Microprocessor		Microprocessor				
	Display	LED					LED		LED		LED				
Electrical	Power Supply (V/Hz)	220~240/50	120/60	208~230/60			220~240/50		220~240/50		220~240/50		208~230/60		
	Electrical Current(A)	7.5	12	7.5			7.5		10		8		6		
Dimensions	Capacity (L/Cu.Ft)		338/11.9					388/13.7		486/17.1		490/17.3			
	Net/Gross Weight (approx)	kg	238/278					255/286		290/310		295/335			
		lbs	524.7/612.9					562.2/630.5		639.3/683.4		650.4/738.5			
	Interior Dimension (W*D*H)	mm	465*630*1165					465*716*1310		590*630*1310		590*630*1310			
		in	18.3*24.8*45.9					18.3*28.2*51.6		23.3*24.8*51.6		23.2*24.8*51.6			
	Exterior Dimension (W*D*H)	mm	823*900*1871					830*980*1980		953*900*1980		873*900*1980			
		in	32.4*35.4*73.6					32.7*38.6*78.0		37.5*35.4*78.0		34.4*35.4*78.0			
	Packing Dimension (W*D*H)	mm	887*995*2040					890*1090*2130		1020*1020*2130		920*990*2130			
		in	34.9*39.2*80.3					35.0*42.9*83.9		40.2*40.2*83.9		35.2*39.0*83.9			
Functions	Container Load (20'/40'/40'H)		12/26/26					12/26/26		10/22/22		12/26/26			
	High/Low Temperature		Y					Y		Y		Y			
	Hot Condenser		Y					Y		Y		Y			
	Power Failure		Y					Y		Y		Y			
	Sensor Error		Y					Y		Y		Y			
	Low Battery		Y					Y		Y		Y			
	High Ambient Temperature		Y					Y		Y		Y			
Accessories	Door Ajar		Y					Y		Y		Y			
	Caster		Y					Y		Y		Y			
	Foot		Y					Y		Y		Y			
	Porthole		Y/2					Y/2		Y/2		Y/2			
	Shelves/ Inner Doors		3/2					3/2		3/4		3/4			
	USB Interface		Y					Y		Y		Y			
	Remote Alarm		Y					Y		Y		Y			
	5V Power Supply Port		Y					Y		Y		Y			
	Temperature Chart Recorder		Optional					Optional		Optional		Optional			
	RS232/485 Port		Optional					Optional		Optional		Optional			
Certification	CO ₂ Backup System		Optional					Optional		Optional		Optional			
	LN ₂ Backup System		Optional					Optional		Optional		Optional			
	CE		Y	/	/			/		Y		Y	/		
	UL		/	Y	Y			Y		/		/	Y		
	ENERGY STAR		/	/	/			/		/		/	/		

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-86°C Ultra Low Temperature Freezer



Model		DW-86L578J			DW-86L578JA			DW-86L628E			DW-86L728J			DW-86L728JA			DW-86L828J			DW-86L828JA		
Data Technical	Cabinet Type		Upright			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										
Performance	Sound Level (dB(A))		50			49			50			50			51.5							
	Cooling Performance (°C)		-86			-86			-86			-86										
	Temperature Range (°C)		-40~-86			-40~-86			-40~-86			-40~-86										
Control Data	Controller		Microprocessor			Microprocessor			Microprocessor			Microprocessor										
	Display		LED			LED			LED			LED										
Electrical	Power Supply (V/Hz)		220-240/50		120/60	208-230/60		220-240/50		220-240/50		120/60	208-230/60		120/60	208-230/60						
	Electrical Current(A)		7.5		12	9		11		10		18	10		10	10						
Dimensions	Capacity (L/Cu.Ft)		578/20.4			626/22.1			728/25.7			828/29.2										
	Net/Gross Weight (approx)	kg	300/330			301/323			345/385			380/410										
		lbs	661.4/727.5			664.0/712.0			760.6/848.8			837.7/903.9										
	Interior Dimension (W*D*H)	mm	620*716*1310			760*630*1310			766*716*1310			870*716*1310										
		in	24.4*28.2*51.6			29.9*24.8*51.6			30.2*28.2*51.6			34.3*28.2*51.6										
	Exterior Dimension (W*D*H)	mm	903*980*1960			1035*900*1980			1049*980*1980			1145*980*1980										
		in	35.6*38.6*77.2			40.7*35.4*78.0			41.3*38.6*78.0			45.1*38.6*78.0										
	Packing Dimension (W*D*H)	mm	970*1085*2130			1110*1005*2130			1120*1090*2130			1240*1080*2130										
		in	38.2*42.7*83.9			43.7*39.6*83.9			44.1*42.9*83.9			48.8*42.5*83.9										
Functions	Container Load (20'/40'/40'H)		12/24/24			12/24/24			10/22/22			5/11/11										
	High/Low Temperature		Y			Y			Y			Y										
	Hot Condenser		Y			Y			Y			Y										
	Power Failure		Y			Y			Y			Y										
	Sensor Error		Y			Y			Y			Y										
	Low Battery		Y			Y			Y			Y										
	High Ambient Temperature		Y			Y			Y			Y										
Accessories	Door Ajar		Y			Y			Y			Y										
	Caster		Y			Y			Y			Y										
	Foot		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		Y			Y			Y			Y										
	Remote Alarm		Y			Y			Y			Y										
	5V Power Supply Port		Y			Y			Y			Y										
	Temperature Chart Recorder		Optional			Optional			Optional			Optional										
	RS232/485 Port		Optional			Optional			Optional			Optional										
Certification	CO2 Backup System		Optional			Optional			Optional			Optional										
	LN2 Backup System		Optional			Optional			Optional			Optional										
	CE		Y	/	/	Y		Y	/	/	Y	/	/									
	UL		/	Y	Y	/		/	Y	Y	/	Y	Y									
ENERGY STAR		Y	Y	/	/		/	Y	/	/	Y	/	Y									

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	Model	DW-86L100J		DW-86W100J	DW-86W420J	DW-86W420JA
Data Technical	Cabinet Type	Upright		Chest	Chest	
	Climate Class	N		N	N	
	Cooling Type	Direct Cooling		Direct Cooling	Direct Cooling	
	Defrost Mode	Manual		Manual	Manual	
	Refrigerant	HC		HC	HC	
Performance	Sound Level (dB(A))	46.8		49	50	
	Cooling Performance (°C)	-86		-86	-86	
	Temperature Range (°C)	-40~-86		-40~-86	-40~-86	
Control Data	Controller	Microprocessor		Microprocessor	Microprocessor	
	Display	LED		LED	LED	
Electrical	Power Supply (V/Hz)	220-240/50	120/60	220-240/50	220-240/50	208-230/60
	Electrical Current(A)	3	6.5	4	7.5	
Dimensions	Capacity (L/Cu.Ft)	100/3.5		100/3.5	420/14.8	
	Net/Gross Weight (approx)	kg	108/132	138/160	310/357	
		lbs	238/291	304.2/352.7	683.4/787.0	
	Interior Dimension (W*D*H)	mm	330*481*630	470*450*480	1367*462*652	
		in	13*19*25	18.5*17.7*18.9	53.8*18.2*25.7	
	Exterior Dimension (W*D*H)	mm	770*660*810	769*825*1120	2130*870*1020	
		in	30*26*32	30.3*32.5*44.1	83.9*34.3*40.2	
	Packing Dimension (W*D*H)	mm	865*755*1020	860*880*1310	2230*930*1180	
		in	34.1*29.7*40.2	33.9*34.6*51.6	87.8*36.6*46.5	
Functions	Container Load (20'/40'/40'H)	32/64/64		14/28/56	12/26/26	
	High/Low Temperature	Y		Y	Y	
	Hot Condenser	Y		Y	Y	
	Power Failure	Y		Y	Y	
	Sensor Error	Y		Y	Y	
	Low Battery	Y		Y	Y	
	High Ambient Temperature	Y		Y	Y	
	Door Ajar	Y		Y	Y	
	Caster	Y		Y	Y	
Accessories	Foot	Y		Y	Y	
	Porthole	Y/1		Y/1	Y/1	
	Shelves/ Inner Doors	1/2		-/1	-/3	
	USB Interface	Y		Y	Y	
	Remote Alarm	Y		Y	Y	
	5V Power Supply Port	Y		N/A	N/A	
	Temperature Chart Recorder	/		Optional	Optional	
	RS232/485 Port	NA/Y		Optional	Optional	
	CO ₂ Backup System	Optional		Optional	Optional	
Certification	LN ₂ Backup System	Optional		Optional	Optional	
	CE	Y	/	Y	Y	/
	UL	/	Y	/	/	Y
	ENERGYSTAR	/	/	/	/	/

• Product appearance and specifications are subject to change without notice.
 • DW-86L338J/490J/578/628/959 stainless steel interior optional.

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