Haier Biomedical
Intelligent Protection of Life Science

Smart Frequency Conversion ULT Freezer

Ergonomic Design

- Intelligent frequency conversion technology
- Precise temperature control to ensure the cabinet temperature stability
- Low noise design
- Safe and secure



DW-86L579/729/829/959BPT

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Smart Frequency Conversion ULT Freezer

Product Advantages

Safe and Secure
Standard equipped with key lock, padlock and optional electromagnetic lock, fingerprint lock, providing multiple safeguards for sample safety.

Low Noise
Special noise-reduction design plus super silent compressor technology and energy-saving fan, considerably lowers noise level.

Super Energy Efficient with Three Environmentally Friendly Innovations
Ultra-low power consumption, down to less than 10kWh/day, ensuring a world leading energy saving performance.

Optimized Insulation
Double foaming for both inner and outer doors and five-layer sealing design and optimized super-thick VIP thermal insulation technology, extends temperature holdover time during power failure and increases insulation efficiency by 20%.

Advanced Hardware System





Smart Full-size Touch Screen
10.1-inch capacitive touch screen, state-of-art UI design coupled with sample management system to provide the optimal user experience.

HC & Variable Frequency Drive Refrigeration System for Additional Energy Saving
Advanced innovative design delivers superior energy savings. The energy consumption is down to a single digit.

Product Parts

Smart Full-size Touch Screen
10.1- inch capacitive touch screen, state-of-art UI design coupled with sample management system to provide the optimal user experience



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
Adopts chromium plating, rust-proof



Energy Saving Refrigeration
High efficiency cooling fans and compressors, combined with hydrocarbon refrigerants, ensure energy savings and long-term sample security



DW-86L829BPT



Multilayered Sealing Structure
Multilayered gaskets decrease heat loss and guarantee excellent warm up times in the event of a power failure

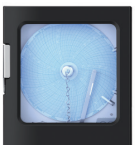


USB Interface
Enables users to download historical temperature data for compliance/ auditing purposes



Improved Handle Design
Lockable handle with unique key prevents other Haier Biomedical freezer owner's access to your precious samples, also comes with space for a padlock for that extra security

Product Accessories (Optional)



Temperature Recorder

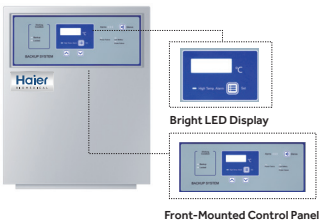
- Front-mounted design
- Enables standalone temperature monitoring





CO_2 Backup System

- Small footprint, lightweight and easy to install
- User-adjustable temperature setpoints
- Flexible design, compatible with all ULT freezers with an access port
- Filter integrated into CO_2 injection pipe to prevent system blockage



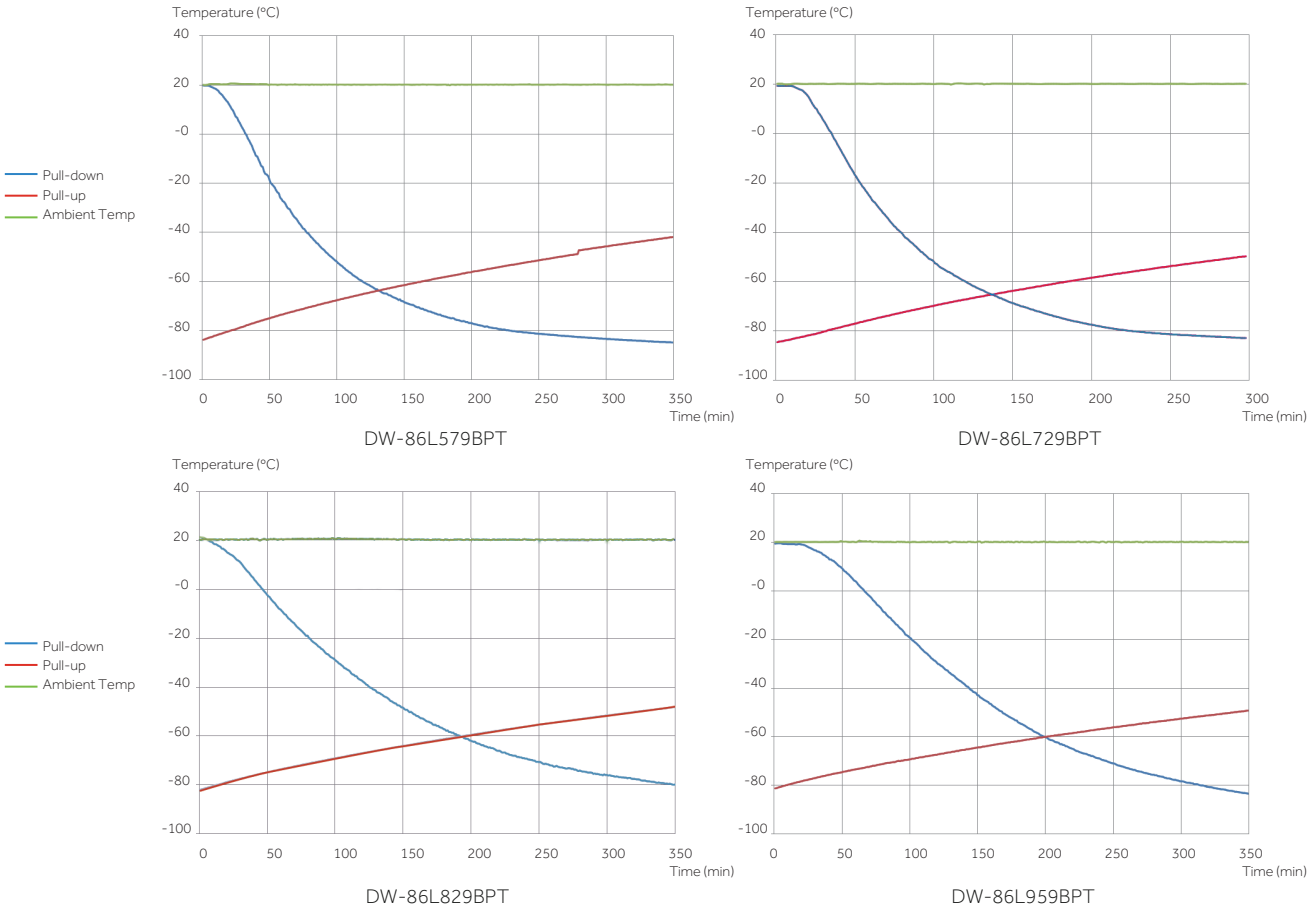
LN_2 Backup System

- Interlocked design to turn off LN_2 injection upon door opening
- Protection circuit to prevent battery overcharging
- Lightweight and portable design, suitable for mounting on top of a freezer
- Alarm functions including low battery and sensor fault

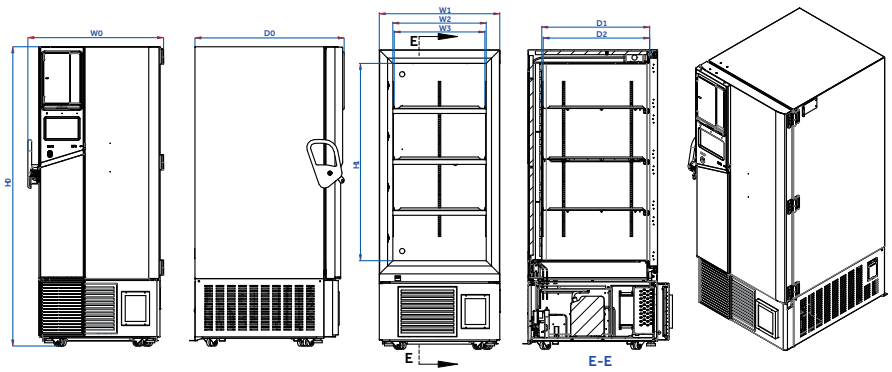
Rack Type	ULT Freezer	Freezer Rack						Freezer Rack Quantity	Box Capacity
		CAT.NO.	Model	Material	Layout (Rows*Columns)	Box Type	Dimensions (D*W*H)(mm)		
 Sliding-drawer freezer rack	DW-86L579BPT	433001	(EXP) DCJ-55-B (SUS201)	SUS201	5*5	2 inch	686*141*291	16	400
	DW-86L729BPT							20	500
	DW-86L829BPT							24	600
	DW-86L959BPT							28	700
	DW-86L579BPT	433002	(EXP) DCJ-55-B (SUS304)	SUS304	5*5	2 inch	686*141*291	16	400
	DW-86L729BPT							20	500
	DW-86L829BPT							24	600
	DW-86L959BPT							28	700

Rack Type	ULT Freezer	Freezer Rack						Freezer Rack Quantity	Box Capacity
		CAT.NO.	Model	Material	Layout (Rows*Columns)	Box Type	Dimensions (D*W*H)(mm)		
 Side-access freezer rack	DW-86L579BPT	4330012	(EXP) DCJ-55-A (SUS304)	SUS304	5*5	2 inch	686*141*291	16	400
	DW-86L729BPT							20	500
	DW-86L829BPT							24	600
	DW-86L959BPT							28	700

Temperature Curve



Product Dimensions



Parameter Description:

W0--Overall width of the machine
W1--Outer width of the cabinet
W2--Inner liner width
W3--Width of inner shelf
(Width of shelve for effective placement of freezing rack)
D0--Overall depth of the machine
D1-- Inner liner depth
D2-- Inner depth of shelf
(Depth of shelve for effective placement of freezing rack)
H0--Overall height of the machine
H1--Inner liner height

Parameter / Model	W0	W1	W2	W3	H0	H1	D0	D1	D2
DW-86L579BPT	895mm	800mm	620mm	602mm	1980mm	1310mm	998mm	716mm	706mm
DW-86L729BPT	1046mm	946mm	766mm	750mm	1980mm	1310mm	998mm	716mm	706mm
DW-86L828BPT	1145mm	1050mm	870mm	854mm	1980mm	1310mm	998mm	716mm	706mm
DW-86L959BPT	1296mm	1196mm	1016mm	1000mm	1980mm	1310mm	998mm	716mm	706mm

Specifications

	Model		DW-86L579BPT	DW-86L729BPT	DW-86L829BPT	DW-86L959BPT
Technical Data	Cabinet Type		Upright	Upright	Upright	Upright
	Ambient Temperature (°C)		10~32	10~32	10~32	10~32
	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
	Temperature Range (°C)		-40~-86	-40~-86	-40~-86	-40~-86
Control	Controller		Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display		LCD Touchscreen	LCD Touchscreen	LCD Touchscreen	LCD Touchscreen
Electrical Data	Power Supply (V/Hz)		100~230/50/60	100~230/50/60	208~230/50/60 | 100~230/50/60	208~230/50/60 | 100~230/50/60
	Max Power (W)		1100	1100	1400	1750
Dimensions	Capacity (L/Cu.Ft)		579/20.4	729/25.7	829/29.2	959/33.9
	Net/Gross Weight	kg	320/350	350/385	380/415	450/485
		lbs	705.5/771.6	771.6/848.8	837.7/914.9	992.1/1069.2
	Interior Dimension (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 Dimension (W*D*H)	mm	895*998*1980	1046*998*1980	1145*998*1980	1296*998*1980
		in	35.2*39.3*78.0	41.2*39.3*78.0	45.1*39.3*78.0	51.0*39.3*78.0
	Packing Dimension (W*D*H)	mm	953*1071*2127	1105*1066*2117	1204*1072*2125	1365*1102*2164
		in	37.6*42.2*83.8	43.6*42*83.4	47.5*42.3*83.7	53.8*43.4*85.2
	Cabinet Width (without handle and hinge)	mm	800	946	1050	1196
	Container Load (20'/40'/40'H)		12/24/24	10/20/20	8/20/20	8/16/16
Functions	High/Low Temperature Alarm		Y	Y	Y	Y
	Hot Condenser Alarm		Y	Y	Y	Y
	Power Failure Alarm		Y	Y	Y	Y
	High/Low Voltage Alarm		Y	N/A	Y	Y
	Sensor Error Alarm		Y	Y	Y	Y
	Low Battery Alarm		Y	Y	Y	Y
	High Ambient Temperature Alarm		Y	Y	Y	Y
	Door Ajar Alarm		Y	Y	Y	Y
	Start-up Delay		Y	Y	Y	Y
Accessories	Caster		Y (4)	Y (4)	Y (4)	Y (4)
	Leveling Feet		Y (2)	Y (2)	Y (2)	Y (2)
	Porthole		2*rear, (25mm) diameter	2*rear, (25mm) diameter	2*rear, (25mm) diameter	2*rear, (25mm) diameter
	Inner Doors		4	4	4	4
	Shelves		3- stainless steel adjustable shelves	3- stainless steel adjustable shelves	3- stainless steel adjustable shelves	3- stainless steel adjustable shelves
	Shelf Dimensions (W*D) (mm)		606*650	752*650	856*650	1002*650
	Max. Load per Shelf (kg)		72	90	108	126
	Freezer Racks Quantity (2" boxes)		16	20	24	28
	Capacity (2" boxes)		400	500	600	700
	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		N/A / Standard	N/A / Standard	N/A / Standard	N/A / Standard
	CO_2 Backup System		Optional	Optional	Optional	Optional
	LN_2 Backup System		Optional	Optional	Optional	Optional
Certifications	Certification		CE, UL, MDR ENERGY STAR	CE, UL, ENERGY STAR, MDR	CE, ENERGY STAR, MDR | UL, ENERGY STAR	CE, ENERGY STAR, MDR | UL, ENERGY STAR

Haier Biomedical reserves the right to change products and specifications without prior notice.