

ULT Freezers



Hydrocarbon Energy-saving



Environmentally Friendly



Low Noise



Security Lock



Superior Temperature Uniformity



Compact Footprint with Large Capacity



Faster Re-Entry

Haier Biomedical USA

Website: www.haiermedical-usa.com

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Exterior and Interior View



DW-150W209A

Product Advantages



Energy Efficient Hydrocarbon Refrigeration

- Includes specialist industrial compressor, hydrocarbon refrigerant, dual-compressors 4-stage cascade refrigeration system, which delivers excellent energy-efficiencies
- Energy-efficient fan design with intelligent start/stop



Environmentally Friendly

- 100% HC refrigerant truly environmentally-friendly refrigeration system with zero global warming potential (GWP)
- LBA polyurethane foam has low GWP and is significantly lower than most HFCs commonly used, offering better environmental protection



Superior Uniformity

The temperature uniformity is $\pm 5^{\circ}\text{C}$ with the setting temperature of -150°C



Safe, Secure and Reliable

Multiple alarms, including high and low temperature, power failure, door ajar, hot condenser, low battery, sensor error, and high ambient temperature. The standard ambient temperature ranges from 10°C to 32°C . The pressure state of the system can be automatically adjusted by the pressure controller to prevent the pressure from being too high to effect the freezer operation.



Low Noise

Noise-reduction features and design keep noise level at 55 dB(A)

Specifications

Model			DW-150W209A
Technical Data	Cabinet Type		Chest
	Climate Class		N
	Cooling Type		Direct Cooling
	Defrost Mode		Manual
	Refrigerant		HC
	Sound Level (dB(A))		55
Performance	Cooling Performance (°C)		-150
	Temperature Range (°C)		-140 ~ -150
Control	Controller		Microprocessor
	Display		LCD Touchscreen
Electrical Data	Power Supply(V/Hz)		208~230/60
	Max Power (W)		2000
Dimensions	Capacity (L/Cu.Ft)		209/7.4
	Net/Gross Weight (approx)	kg	260/295
		lbs	573.2/650.4
	Interior Dimensions (W*D*H)	mm	667*462*677
		in	26.3*18.2*26.7
	Exterior Dimensions (W*D*H)	mm	1650*860*1010
		in	65.0*33.9*39.8
	Packing Dimensions (W*D*H)	mm	1810*960*1170
		in	71.3*37.8*46.1
Alarms	Container Load (20'/40'/40'H)		12/24/24
	High/Low Temperature		Y
	Hot Condenser		Y
	Power Failure		Y
	High/Low Voltage		Y
	Sensor Error		Y
	Low Battery		Y
	High Ambient Temperature		Y
	Door Ajar		Y
	Start-Up Delay		Y
	Caster		Y
Accessories	Leveling Feet		Y
	Porthole		1 rear, (25mm) diameter
	Inner Doors		2
	Shelves		N
	Shelf Dimensions (W*D)(mm)		N
	Max. Load per Shelf (kg)		N
	Freezer Racks Quantity (2" boxes)		12
	Capacity (2" boxes)		144
	USB Interface		Y
	Remote Alarm		Y
	5V Power Supply Port		Y
	Temperature Chart Recorder		Optional
	RS232/485 Port		NA/Standard
	CO ₂ Backup System		N/A
	LN ₂ Backup System		Optional
Others	Certification		UL

Exterior View



Interior View



Product Advantages



Microprocessor Control System

Microprocessor control with adjustable LED temperature display; can be set from -40°C to -86°C



Low Sound Level

Specialized refrigeration system design using whisper quiet fan and compressors.



High-Efficiency and Energy-Saving Compressor

High-efficiency HC compressor and optimized refrigeration system, for safe and reliable cold storage of your samples.



Enhanced Safety

Malfunction alarms including high and low temperature, power failure, sensor error, clean-filter, and high ambient temperature. Capable of producing two types of alarm outputs: audible buzzer and visible flashing light.

Specifications

Model			DW-80WZ15	DW-86L51J
Technical Data	Cabinet Type		Chest	Upright
	Climate Class		N	N
	Cooling Type		Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual
	Refrigerant		HC	HC
	Sound Level (dB(A))		60	46.8
Performance	Cooling Performance (°C)		-80	-86
	Temperature Range (°C)		-60~-80	-40~-86
Control	Controller		Temperature Controller	Microprocessor
	Display		LED	LED
Electrical Data	Power Supply (V/Hz)		110/60, DC24	120/60
	Max Power (W)		280	750
Dimensions	Capacity (L/Cu.Ft)		15/0.53	51/1.8
	Net/Gross Weight (approx)	kg	27/33	77/90
		lbs	59.5/72.8	169.8/198.4
	Interior Dimensions (W*D*H)	mm	260*180*330	330*481*316
		in	10.2*7.1*13.0	13*16.5*12.4
	Exterior Dimensions (W*D*H)	mm	690*320*500	532*640*806
		in	27.2*12.6*19.7	20.9*25.2*31.7
	Packing Dimensions (W*D*H)	mm	805*430*725	570*735*1010
		in	31.7*17.0*28.5	22.4*28.9*43.3
Alarms	Container Load (20'/40'/40'H)		105/210/210	64/120/120
	High/Low Temperature		Y	Y
	Hot Condenser		N	Y
	Power Failure		Y	Y
	High/Low Voltage		N	Y
	Sensor Error		Y	Y
	Low Battery		N	Y
	High Ambient Temperature		N	Y
	Door Ajar		N	Y
	Start-Up Delay		N	Y
Accessories	Caster		N	Y
	Leveling Feet		Y	Y
	Porthole		N	1 right side, (25mm) diameter
	Inner Doors		N	1
	Shelves		N	1- Stainless Steel Adjustable Shelves
	Shelf Dimensions (W*D)(mm)		N	316*424
	Max. Load per Shelf (kg)		N	22
	Freezer Racks Quantity (2" boxes)		N	2
	Capacity (2" boxes)		10	30
	USB Interface		N	Y
	Remote Alarm		N	Y
	5V Power Supply Port		N	NA
	Temperature Chart Recorder		N	NA
	RS232/485 Port		N	NA/Standard
	CO ₂ Backup System		N	NA
	LN ₂ Backup System		N	NA
Others	Certification		UL	UL

Specifications

Model			DW-86L100J	DW-86L338J	DW-86L338JA	DW-86W420JA
Technical Data	Cabinet Type		Upright	Upright		Chest
	Climate Class		N	N		N
	Cooling Type		Direct Cooling	Direct Cooling		Direct Cooling
	Defrost Mode		Manual	Manual		Manual
	Refrigerant		HC	HC		HC
	Sound Level (dB(A))		46.8	50		50
Performance	Cooling Performance(°C)		-86	-86		-86
	Temperature Range (°C)		-40~-86	-40~-86		-40~-86
Control	Controller		Microprocessor	Microprocessor		Microprocessor
	Display		LED	LED		LED
Electrical Data	Power Supply(V/Hz)		120/60	120/60	208~230/60	208~230/60
	Max Power (W)		680	900	1400	1600
Dimensions	Capacity (L/Cu.Ft)		100/3.5	338/11.9		420/14.8
	Net/Gross Weight (approx)	kg	108/132	238/278		310/357
		lbs	238/291	524.7/612.9		683.4/787.0
	Interior Dimensions (W*D*H)	mm	330*481*630	465*630*1165		1367*462*652
		in	13*19*25	18.3*24.8*45.9		53.8*18.2*25.7
	Exterior Dimensions (W*D*H)	mm	770*660*810	830*900*1871		2130*870*1020
		in	30*26*32	32.7*35.4*73.7		83.9*34.3*40.2
	Packing Dimensions (W*D*H)	mm	830*730*1000	879*974*2013		2210*910*1160
		in	32.7*28.7*39.4	34.6*38.3*79.3		87*35.8*45.7
Alarms	Container Load(20'/40'/40'H)		44/88/88	12/24/24		6/12/24
	High/Low Temperature		Y	Y		Y
	Hot Condenser		Y	Y		Y
	Power Failure		Y	Y		Y
	High/Low Voltage		Y	N		N
	Sensor Error		Y	Y		Y
	Low Battery		Y	Y		Y
	High Ambient Temperature		Y	Y		Y
	Door Ajar		Y	Y		Y
Accessories	Start-Up Delay		Y	Y		Y
	Caster		Y	Y		Y
	Leveling Feet		Y	Y		Y
	Porthole		1 left side, (25mm) diameter	2 rears, (25mm) diameter		1 rear, (25mm) diameter
	Inner Doors		2	2		3
	Shelves		1- Stainless Steel Adjustable Shelves	3- Stainless Steel Adjustable Shelves		N
	Shelf Dimensions (W*D)(mm)		316*424	451*597		N
	Max. Load per Shelf (kg)		22	44		N
	Freezer Racks Quantity (2" boxes)		4	12		27
	Capacity (2" boxes)		60	216		270
	USB Interface		Y	Y		Y
	Remote Alarm		Y	Y		Y
	5V Power Supply Port		Y	Y		N/A
	Temperature Chart Recorder		/	Optional		Optional
	RS232/485 Port		NA/Standard	Optional		Optional
	CO ₂ Backup System		Optional	Optional		Optional
	LN ₂ Backup System		Optional	Optional		Optional
Others	Certification		UL	UL		UL

* DW-86L338J/490J/578/628/959 stainless steel interior optional

Specifications

Model			DW-86L490JA	DW-86L578J	DW-86L578JA
Technical Data	Cabinet Type		Upright	Upright	
	Climate Class		N	N	
	Cooling Type		Direct Cooling	Direct Cooling	
	Defrost Mode		Manual	Manual	
	Refrigerant		HC	HC	
	Sound Level (dB(A))		50	50	
Performance	Cooling Performance(°C)		-86	-86	
	Temperature Range (°C)		-40~-86	-40~-86	
Control	Controller		Microprocessor	Microprocessor	
	Display		LED	LED	
Electrical Data	Power Supply(V/Hz)		208-230/60	120/60	208-230/60
	Max Power (W)		1600	900	1600
Dimensions	Capacity (L/Cu.Ft)		490/17.3	578/20.4	
	Net/Gross Weight (approx)	kg	295/335	300/330	
		lbs	650.4/738.5	661.4/727.5	
	Interior Dimensions (W*D*H)	mm	590*630*1310	620*716*1310	
		in	23.2*24.8*51.6	24.4*28.2*51.6	
	Exterior Dimensions (W*D*H)	mm	873*900*1980	903*980*1960	
		in	34.4*35.4*78.0	35.6*38.6*77.2	
	Packing Dimensions (W*D*H)	mm	934*980*2116	952*1063*2089	
		in	36.8*38.6*83.3	37.5*41.9*82.2	
Container Load(20'/40'/40'H)			12/24/24	12/24/24	
Alarms	High/Low Temperature		Y	Y	
	Hot Condenser		Y	Y	
	Power Failure		Y	Y	
	High/Low Voltage		N	N	
	Sensor Error		Y	Y	
	Low Battery		Y	Y	
	High Ambient Temperature		Y	Y	
	Door Ajar		Y	Y	
	Start-Up Delay		Y	Y	
Accessories	Caster		Y	Y	
	Leveling Feet		Y	Y	
	Porthole		2 rears, (25mm) diameter	2 rears, (25mm) diameter	
	Inner Doors		4	4	
	Shelves		3- Stainless Steel Adjustable Shelves	3- Stainless Steel Adjustable Shelves	
	Shelf Dimensions (W*D)(mm)		576*567.5	606*650	
	Max. Load per Shelf (kg)		58	72	
	Freezer Racks Quantity (2" boxes)		16	16	
	Capacity (2" boxes)		288	400	
	USB Interface		Y	Y	
	Remote Alarm		Y	Y	
	5V Power Supply Port		Y	Y	
	Temperature Chart Recorder		Optional	Optional	
	RS232/485 Port		Optional	Optional	
	CO ₂ Backup System		Optional	Optional	
	LN ₂ Backup System		Optional	Optional	
Others	Certification		UL	UL, ENERGY STAR	UL

Specifications

	Model		DW-86L728J	DW-86L728JA	DW-86L828JA
Technical Data	Cabinet Type		Upright		Upright
	Climate Class		N		N
	Cooling Type		Direct Cooling		Direct Cooling
	Defrost Mode		Manual		Manual
	Refrigerant		HC		HC
	Sound Level (dB(A))		50		50
Performance	Cooling Performance(°C)		-86		-86
	Temperature Range (°C)		-40~-86		-40~-86
Control	Controller		Microprocessor		Microprocessor
	Display		LED		LED
Electrical Data	Power Supply(V/Hz)		120/60	208-230/60	208-230/60
	Max Power (W)		1700		1700
Dimensions	Capacity (L/Cu.Ft)		728/25.7		828/29.2
	Net/Gross Weight (approx)	kg	345/385		380/410
		lbs	760.6/848.8		837.7/903.9
	Interior Dimensions (W*D*H)	mm	766*716*1310		870*716*1310
		in	30.2*28.2*51.6		34.3*28.2*51.6
	Exterior Dimensions (W*D*H)	mm	1049*980*1980		1153*980*1980
		in	41.3*38.6*78.0		45.4*38.6*78.0
	Packing Dimensions (W*D*H)	mm	1100*1069*2130		1197*1050*2117
		in	43.3*42.1*83.9		47.1*41.3*83.3
Alarms	Container Load(20'/40'/40'H)		12/20/20		8/20/20
	High/Low Temperature		Y		Y
	Hot Condenser		Y		Y
	Power Failure		Y		Y
	High/Low Voltage		N		N
	Sensor Error		Y		Y
	Low Battery		Y		Y
	High Ambient Temperature		Y		Y
	Door Ajar		Y		Y
Accessories	Start-Up Delay		Y		Y
	Caster		Y		Y
	Leveling Feet		Y		Y
	Porthole		2 rears, (25mm) diameter		2 rears, (25mm) diameter
	Inner Doors		4		4
	Shelves		3- Stainless Steel Adjustable Shelves		3- Stainless Steel Adjustable Shelves
	Shelf Dimensions (W*D)(mm)		752*650		856*650
	Max. Load per Shelf (kg)		90		108
	Freezer Racks Quantity (2" boxes)		20		24
	Capacity (2" boxes)		500		600
	USB Interface		Y		Y
	Remote Alarm		Y		Y
	5V Power Supply Port		Y		Y
	Temperature Chart Recorder		Optional		Optional
	RS232/485 Port		Optional		Optional
	CO ₂ Backup System		Optional		Optional
	LN ₂ Backup System		Optional		Optional
Others	Certification		UL, ENERGY STAR	UL	UL, ENERGY STAR

Exterior and Interior View



DW-86L579BPT/729BPT/829BPT/959BPT

Product Advantages



Intelligent Frequency Conversion Technology

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



World-Leading Energy Saving Refrigeration Technology

Our hydrocarbon refrigeration technology reducing operator's cost. The refrigerants global warming potential is extremely low, which is very friendly to the environment.



Precise Temperature Control

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



Minimal Sound Level Output

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

Specifications

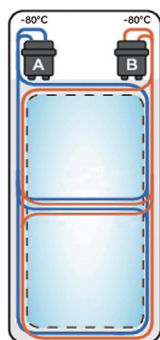
	Model		DW-86L579BPT	DW-86L729BPT	DW-86L829BPT	DW-86L959BPT
Technical Data	Cabinet Type		Upright	Upright	Upright	Upright
	Climate Class		N	N	N	N
	Cooling Type		Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual	Manual	Manual
	Refrigerant		HC	HC	HC	HC
	Sound Level (dB(A))		43.5	43.5	43.5	47
Performance	Cooling Performance(°C)		-86	-86	-86	-86
	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	100-230/50/60	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 (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*78.0	41.2*39.3*78.0	45.1*39.3*78.0	51.0*39.3*78.0
	Packing Dimensions (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
Alarms	Container Load(20'/40'/40'H)		12/24/24	10/20/20	8/20/20	8/16/16
	High/Low Temperature		Y	Y	Y	Y
	Hot Condenser		Y	Y	Y	Y
	Power Failure		Y	Y	Y	Y
	High/Low Voltage		Y	Y	Y	Y
	Sensor Error		Y	Y	Y	Y
	Low Battery		Y	Y	Y	Y
	High Ambient Temperature		Y	Y	Y	Y
	Door Ajar		Y	Y	Y	Y
Accessories	Start-Up Delay		Y	Y	Y	Y
	Caster		Y	Y	Y	Y
	Leveling Feet		Y	Y	Y	Y
	Porthole		2 rears, (25mm) diameter	2 rears, (25mm) diameter	2 rears, (25mm) diameter	2 rears, (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)		596*657	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		NA/Standard	NA/Standard	NA/Standard	NA/Standard
Others	CO ₂ Backup System		Optional	Optional	Optional	Optional
	LN ₂ Backup System		Optional	Optional	Optional	Optional
	Certification		UL, ENERGY STAR	UL, ENERGY STAR	UL, ENERGY STAR	UL, ENERGY STAR

Exterior and Interior View



DW-86L578BPST/728BPST/828BPST

Product Advantages



Dual refrigeration system for optimal reliability and security

Double independent hydrocarbon refrigeration system design, each system can maintain -80°C ensuring the safety of stored samples



Environmental Protection

Environmentally friendly hydrocarbon refrigerant and foam material LBA.



World-leading Energy Saving Refrigeration Technology

Intelligent frequency conversion technology and HC refrigeration system delivers a 50% reduction in energy usage when compared to traditional HFC refrigeration systems.

Specifications

	Model		DW-86L578BPST	DW-86L728BPST	DW-86L828BPST
Technical Data	Cabinet Type		Upright	Upright	Upright
	Climate Class		N	N	N
	Cooling Type		Direct Cooling	Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual	Manual
	Refrigerant		HC	HC	HC
	Sound Level (dB(A))		42	42	42
Performance	Cooling Performance(°C)		-86	-86	-86
	Temperature Range (°C)		-40~-86	-40~-86	-40~-86
Control	Controller		Microprocessor	Microprocessor	Microprocessor
	Display		LCD Touchscreen	LCD Touchscreen	LCD Touchscreen
Electrical Data	Power Supply(V/Hz)		100-230/50/60	100-230/50/60	100-230/50/60
	Max Power (W)		1100	1100	1400
Dimensions	Capacity (L/Cu.Ft)		578/20.4	728/25.7	828/29.2
	Net/Gross Weight (approx)	kg	325/355	350/385	380/410
		lbs	716.5/782.6	771.6/848.8	837.7/914.9
	Interior Dimensions (W*D*H)	mm	620*716*1310	766*716*1310	870*716*1310
		in	24.4*28.2*51.6	30.2*28.2*51.6	34.3*28.2*51.6
	Exterior Dimensions (W*D*H)	mm	895*998*1980	1046*998*1980	1145*998*1980
		in	35.2*39.3*78.0	41.2*39.3*78.0	45.1*39.3*78.0
	Packing Dimensions (W*D*H)	mm	953*1071*2127	1105*1066*2117	1200*1080*2130
		in	37.5*42.1*83.7	43.5*42*83.3	47.2*42.5*83.9
	Container Load(20'/40'/40'H)		12/24/24	10/20/20	8/20/20
Alarms	High/Low Temperature		Y	Y	Y
	Hot Condenser		Y	Y	Y
	Power Failure		Y	Y	Y
	High/Low Voltage		Y	Y	Y
	Sensor Error		Y	Y	Y
	Low Battery		Y	Y	Y
	High Ambient Temperature		Y	Y	Y
	Door Ajar		Y	Y	Y
	Start-Up Delay		Y	Y	Y
Accessories	Caster		Y	Y	Y
	Leveling Feet		Y	Y	Y
	Porthole		2 rears, (25mm) diameter	2 rears, (25mm) diameter	2 rears, (25mm) diameter
	Inner Doors		4	4	4
	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
	Max. Load per Shelf (kg)		72	90	108
	Freezer Racks Quantity (2" boxes)		16	20	24
	Capacity (2" boxes)		400	500	600
	USB Interface		Y	Y	Y
	Remote Alarm		Y	Y	Y
	5V Power Supply Port		Y	Y	Y
	Temperature Chart Recorder		Optional	Optional	Optional
	RS232/485 Port		NA/Standard	NA/Standard	NA/Standard
	CO ₂ Backup System		Optional	Optional	Optional
	LN ₂ Backup System		Optional	Optional	Optional
Others	Certification		UL, ENERGY STAR	UL, ENERGY STAR	UL, ENERGY STAR

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