Haier Biomedical
Intelligent Protection of Life Science



ULT Freezer Solutions

Your Haier Biomedical Partner

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Note:If a slight difference occurs between pictures and actual products, please refer to actual products. Our company reserves the right of final interpretation of this brochure, please contact us for any further information if required.

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Haier Biomedical
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-150°C Cryo Freezer

Haier Biomedical

-150°C Cryo Freezer

A mechanical cryogenic freezer is used for the long-term cryopreservation of samples such as cell cultures, tissue samples, bacteria, viruses and non-biological products such as electronics. Applications include cord blood preservation, biobanks, reproductive procedures, blood banks, life science research, biomedical engineering and fisheries. Mechanical cryopreservation is a safe alternative to LN_2 and can reduce or eliminate the reliance on LN_2, reducing safety concerns.



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 environmently-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

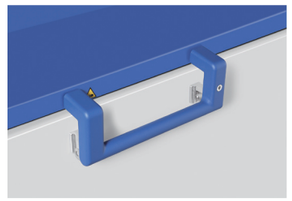
The temperature uniformity is ±5°C with the setting temperature of -150°C

Low Noise

Noise-reduction features and noise reduction design lowers to noise to 55 dB (A)

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 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.





Follow the QR code and learn more about the
Cryo Freezer DW-150W209 from Haier Biomedical

-150°C Cryo Freezer

Specifications

Model			DW-150W209A	DW-150W209
Technical Data	Cabinet Type		Chest	Chest
	Ambient Temperature (°C)		10~28	10~28
	Cooling Type		Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual
	Refrigerant		HC	HC
	Sound Level (dB(A))		55	55
Performance	Cooling Performance (°C)		-150	-150
	Temperature Range (°C)		-140 ~-150	-140 ~-150
Control	Controller		Microprocessor	Microprocessor
	Display		LCD Touchscreen	LCD Touchscreen
Electrical Data	Power Supply (V/Hz)		208~230/60	220~240/50
	Max Power (W)		2000	1750
Dimensions	Capacity (L/Cu.Ft)		209/7.4	209/7.4
	Net/Gross Weight	kg	260/295	260/295
		lbs	573.2/650.4	573.2/650.4
	Interior Dimension (W*D*H)	mm	667*462*677	667*462*677
		in	26.3*18.2*26.7	26.3*18.2*26.7
	Exterior Dimension (W*D*H)	mm	1650*860*1010	1650*860*1010
		in	65.0*33.9*39.8	65.0*33.9*39.8
	Packing Dimension (W*D*H)	mm	1810*960*1170	1810*960*1170
		in	71.3*37.8*46.1	71.3*37.8*46.1
	Cabinet Width (without handle and hinge)	mm	667	667
	Container Load (20'/40'/40'H)		12/24/24	12/24/24
Functions	High/Low Temperature Alarm		Y	Y
	Hot Condenser Alarm		Y	Y
	Power Failure Alarm		Y	Y
	High/Low Voltage Alarm		Y	Y
	Sensor Error Alarm		Y	Y
	Low Battery Alarm		Y	Y
	High Ambient Temperature Alarm		Y	Y
	Door Ajar Alarm		Y	Y
	Start-Up Delay		Y	Y
Accessories	Caster		Y(4)	Y(4)
	Leveling Feet		Y(2)	Y(2)
	Porthole		1*Rear, (25mm) Diameter	1*Rear, (25mm) Diameter
	Inner Doors		2	2
	Freezer Racks Qty (2" boxes)		12	12
	Capacity (2" boxes)		144	144
	USB Interface		Y	Y
	Remote Alarm		Y	Y
	5V Power Supply Port		Y	Y
	Temperature Chart Recorder		Optional	Optional
	RS232/485 Port		N/A / Standard	N/A / Standard
	CO_2 Backup System		N/A	N/A
	LN_2 Backup System		Optional	Optional
Other	Certification		UL	CE, MDR

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

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Intelligent Protection of Life Science

UltraEco ULT Freezer

UltraEco ULT Freezer

Super energy-saving technology and precise temperature control. Designed to provide long-term storage for various biological samples and sensitive items to ensure the integrity and stability of precious materials. With its outstanding energy-saving features, it not only reduces electricity consumption but also contributes to a greener environment.



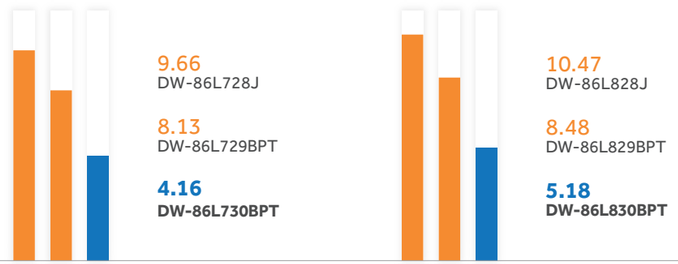
DW-86L730/830BPT

Optimal Energy Efficient Performance

HC refrigerant, frequency conversion technology and optimized structural design combine to lower operating costs compared to previous generation by up to 50%.

ENERGY STAR certified with world-leading energy efficiency

Power Consumption Comparison (kWh/day)



*Above power consumption base on ENERGY STAR report

Significantly Enhanced Performance

The upgraded compressor, along with the enhanced refrigeration system and improved insulation structure, significantly elevates the performance of UltraEco series. In comparison to the previous generation, UltraEco series features lower energy consumption, a longer holdover time, faster temperature recovery time and re-entry time, as well as reduced noise. All these enhancements will bring customers a completely new experience.

UltraEco ULT Freezer

49%
Decrease in Energy Consumption

16%
Improvement in Warm-Up Time from -80°C to -50°C

80%
Faster Re-Entry Time

15 min
1 Min Door Opening Recovery Time

42dB(A)
Lower Sound Level

±2°C
Outstanding Temperature Uniformity

*Above data based on DW-86L730BPT

Model	DW-86L729BPT	DW-86L730BPT	DW-86L829BPT	DW-86L830BPT
Temperature Uniformity (°C)	±3	±2	±3	±3
ENERGY STAR Power Consumption (kWh/day)	8.13	4.16	8.48	5.18
1-Minute Open Door Recovery Time (20° C Ambient Running at -75°C)(mins)	24	15	35	32
Warm-Up Time at 20° C Ambient (from -80°C to -50°C)(mins)	300	348	315	378
Re-entry Time (Seconds)	300	60	300	60

*Freezer performance will vary based on customer product volume, storage format, operating conditions, test methodology and performing recommended maintenance

Green and Environmental Friendly



Naturally occurring Hydrocarbon (HC) refrigerants and insulation materials with ultra-low global warming potential (GWP) levels exert an extremely minimal impact on the environment. These are not only eco-friendly but also contribute to a sustainable future by reducing the carbon footprint and safeguarding the delicate balance of our ecosystem.

Safety and Reliability

- Dual sensors ensure accurate detection of temperature changes, providing double the security for sample storage.
- The self-diagnostic feature of the compressor triggers immediate alarms in case of issues, enabling swift maintenance to prevent sample damage.
- VIP insulation technology provides 6-hour durable thermal retention and safeguards samples during brief power failures.
- Optional built-in independent backup system guarantees sample safety even in the event of a long power outage.

UltraEco ULT Freezer

Ergonomic Design

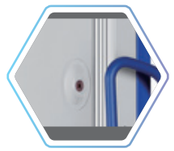


10 Inch Capacitive Touch Screen
State-of-art UI design coupled with sample management system to provide the optimal user experience

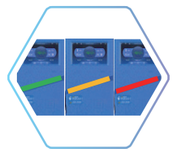


USB Interface
Enables users to download historical temperature data for compliance/auditing purposes



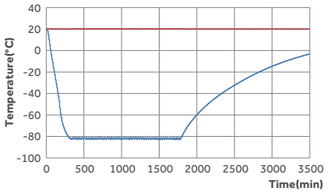


Improved Pressure Relief Port
Re-entry time shortened to just 60 seconds

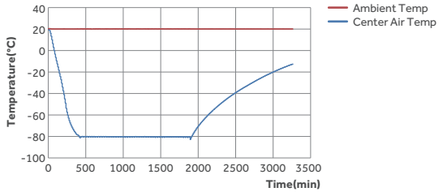


Innovative Light Bar Design
Clearly indicate the operating status of the freezer and offer strengthened visual alarm indications for effortless at-a-glance monitoring

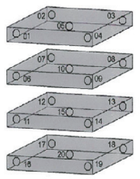
Typical Performance Characteristics at 20°C Ambient



DW-86L730BPT Comprehensive Curve



DW-86L830BPT Comprehensive Curve



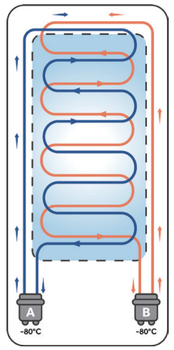
Temperature characteristics (20-point measurement)

UltraEco ULT Freezer

Specifications

	Model		DW-86L730BPT	DW-86L830BPT
Technical Data	Cabinet Type		Upright	Upright
	Ambient Temperature (°C)		10~32	10~32
	Cooling Type		Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual
	Refrigerant		HC	HC
	Sound Level (dB(A))		≤42	≤46
Performance	Cooling Performance (°C)		-86	-86
	Temperature Range (°C)		-40~-86	-40~-86
Control	Controller		Microprocessor	Microprocessor
	Display		LCD touchscreen	LCD touchscreen
Electrical Data	Power Supply (V/Hz)		100~230/50/60	100~230/50/60
	Max Power (W)		900	1050
Dimensions	Capacity (L/Cu.Ft)		730/25.8	830/29.3
	Net/Gross Weight (approx)	kg	315/368	336/390
		lbs	694.5/811.3	740.8/859.8
	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	1046*998*1970	1145*998*1970
		in	41.2*39.3*77.6	45.1*39.3*77.6
	Packing Dimensions (W*D*H)	mm	1110*1150*2160	1220*1150*2160
		in	43.3*45.3*85	48*45.3*85
	Cabinet Width (without handle and hinge)	mm	946	1050
	Container Load (20'/40'/40'H)		10/20/20	8/20/20
Functions	High/Low Temperature Alarm		Y	Y
	Hot Condenser Alarm		Y	Y
	Power Failure Alarm		Y	Y
	High/Low Voltage Alarm		Y	Y
	Sensor Error Alarm		Y	Y
	Low Battery		Y	Y
	High Ambient Temperature Alarm		Y	Y
	Door Ajar Alarm		Y	Y
	Start-Up Delay		Y	Y
Accessories	Caster		Y(4)	Y(4)
	Leveling Feet		Y(2)	Y(2)
	Porthole		2*rear, (15mm)diameter	2*rear, (15mm)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 Qty (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		N/A / Standard	N/A / Standard
	CO_2 Backup System		Optional	Optional
	LN_2 Backup System		Optional	Optional
Others	Certifications		CE, UL, ENERGY STAR	CE, UL, ENERGY STAR

Product Advantages





Dual Refrigeration System for Optimal Reliability and Security

Two independent hydrocarbon (HC) refrigeration systems, each can maintain -80°C ensuring the safety of stored samples

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

Environmental Protection

Environmentally friendly hydrocarbon refrigerant and LBA foam material

Optional IoT System

The optional IoT monitors the operating status of the equipment in real time. Equipped with multiple alarm functions and a self-diagnostics system to identify and warn users to ensure sample safety

Ergonomic Design

Low Noise Design

Optimised systems and noise-reducing cabinet design lower noise out to 42dB for a quieter working experience

Adjustable Sample Loading Tray (Optional)

The adjustable height sample load tray provides users with a convenient place to hold samples while opening and accessing storage compartments

Large Loading Capacity

DW-86L578BPST: 40, 000 cryovials (2ml)
DW-86L728BPST: 50, 000 cryovials (2ml)
DW-86L828BPST: 60, 000 cryovials (2ml)

Intelligent Control

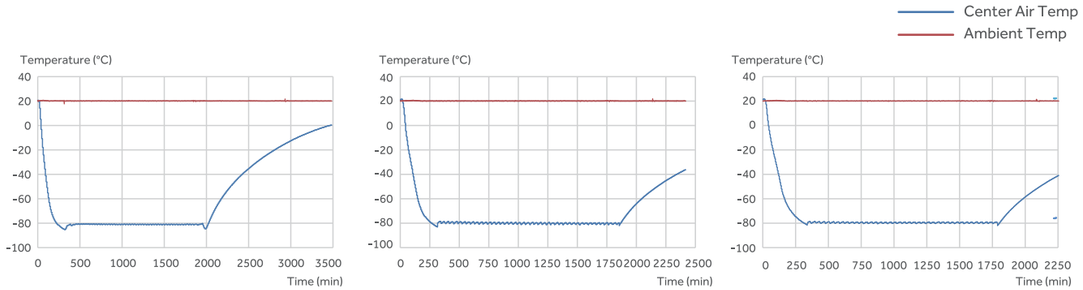
10.1-inch high-performance touch screen, sensitive touch operation.
Using the optional IoT module, users can check the real-time operating status from an App

Follow the QR code and learn more about the
TwinCool Frequency Conversion ULT Freezer DW-86L828BPST from Haier Biomedical

Ergonomic Design



Temperature Curve

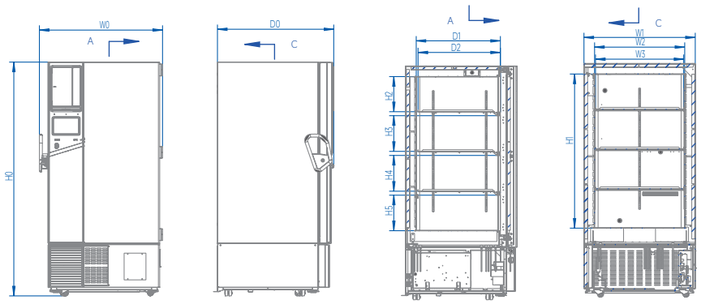


DW-86L578BPST Comprehensive Curve

DW-86L728BPST Comprehensive Curve

DW-86L828BPST Comprehensive Curve

Product Dimensions



Remark

W0=Total Width
W1=Freezer Width
W2=Inner Cabinet Width
W3=Inner Cabinet Shelf Width
H0=Total Height
H1=Inner Cabinet Height
H2=1st Floor Height
H3=2ed Floor Height
H4=3rd Floor Height
H5=4th Floor Height
D0=Total Depth
D1=Inner Cabinet Width
D2=Inner Cabinet Shelf Width

Parameter / Model	W0	W1	W2	W3	H0	H1	H2	H3	H4	H5	D0	D1	D2
DW-86L578BPST	895mm	800mm	620mm	602mm	1980mm	1310mm	298mm	303mm	303mm	301mm	998mm	716mm	700mm
DW-86L728BPST	1046mm	946mm	766mm	750mm	1980mm	1310mm	298mm	303mm	303mm	301mm	998mm	716mm	700mm
DW-86L828BPST	1145mm	1050mm	870mm	854mm	1980mm	1310mm	298mm	303mm	303mm	301mm	998mm	716mm	700mm

Specifications

	Model		DW-86L578BPST	DW-86L728BPST	DW-86L828BPST
Technical Data	Cabinet Type		Upright	Upright	Upright
	Ambient Temperature (°C)		10~32	10~32	10~32
	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	kg	325/355	350/385	380/410
		lbs	716.5/782.6	771.6/848.8	837.7/914.9
	Interior Dimension (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 Dimension (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 Dimension (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
	Cabinet Width (without handle and hinge)	mm	800	946	1050
	Container Load (20'/40'/40'H)		12/24/24	10/20/20	8/20/20
Functions	High/Low Temperature Alarm		Y	Y	Y
	Hot Condenser Alarm		Y	Y	Y
	Power Failure Alarm		Y	Y	Y
	High/Low Voltage Alarm		Y	Y	Y
	Sensor Error Alarm		Y	Y	Y
	Low Battery Alarm		Y	Y	Y
	High Ambient Temperature Alarm		Y	Y	Y
	Door Ajar Alarm		Y	Y	Y
	Start-up delay		Y	Y	Y
Accessories	Caster		Y (4)	Y (4)	Y (4)
	Leveling Feet		Y (2)	Y (2)	Y (2)
	Porthole		2*rear, (25mm) diameter	2*rear, (25mm) diameter	2*rear, (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		N/A / Standard	N/A / Standard	N/A / Standard
	CO_2 Backup System		Optional	Optional	Optional
	LN_2 Backup System		Optional	Optional	Optional
Others	Certifications		CE, UL, MDR, ACT, ENERGY STAR	CE, UL, MDR, ACT, ENERGY STAR	CE, UL, MDR, ACT, ENERGY STAR

Ultra Low Temperature RFID Freezer

The Haier Biomedical ULT RFID freezer offers enhanced protection for high-value samples like genetic material, biosamples, and tissue. With quick freezing, secure access, and comprehensive inventory management features, it ensures product integrity and visibility while eliminating manual processes. Ideal for research facilities and laboratories seeking efficient sample storage solutions.



DW-86L728BPSTR

Product Features

Enhanced Efficiency

Effortlessly locate and inventory sample tubes without the need to open the door. The system automatically records the exact position of each sample in real-time, streamlining manual processes.

Rapid Inventory Management

Save time and effort with a single click inventory feature that completes within 5 seconds. Say goodbye to errors and delays.

Precision Identification

Achieve accurate and swift recognition with a 3-second automatic identification process for sample information and location. This system excels at high-density batch reading tasks.

Enhanced Safety Measures

The dual refrigeration system features double independent hydrocarbon refrigeration units, both capable of maintaining -80°C. This design not only ensures the safety of stored samples but also enhances reliability.

Ergonomic Design Features

Intuitive Monitoring Software

Benefit from a tailored sample management software that allows real-time tracking and monitoring of operational status, ensuring seamless workflow oversight.

Comprehensive Security Integration

Utilize the four-code integration tube system, combining RFID tags, bottom QR codes, tube barcodes, and tube digital codes for heightened security and reliability in sample management.

Ultra Low Temperature RFID Freezer

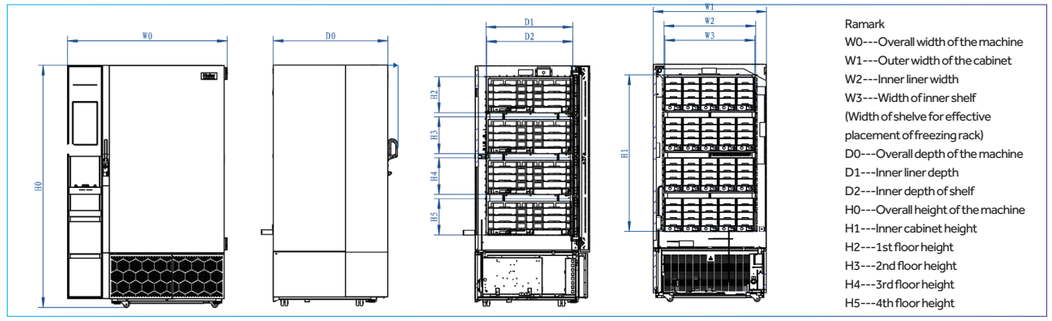
Streamlined User Interface

Navigate effortlessly through operations with a 15.6-inch LCD touch screen that provides an intuitive display of vital information. Accessing and managing tasks is made simple and efficient.

Free Sample Placement

Samples can be placed freely without the need to be stored in specific locations, and the relevant sample information will be updated automatically.

Product Dimensions



Ramark
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
H0---Overall height of the machine
H1---Inner cabinet height
H2---1st floor height
H3---2nd floor height
H4---3rd floor height
H5---4th floor height

W0	W1	W2	W3	H0	H1	H2	H3	H4	H5	D0	D1	D2
1300	947	766	752	1980	1310	298	303	303	301	1045	716	712

Ergonomic Design



Ultra Low Temperature RFID Freezer

Specifications

	Model		DW-86L728BPSTR
Technical Data	Cabinet Type		Upright
	AmbientTemperature (°C)		10~32
	Cooling Type		Direct cooling
	Defrost Mode		Manual
	Refrigerant		HC
	Sound Level (dB (A))		42
Performance	Cooling Performance (°C)		-86
	Temperature Range (°C)		-40~-86
	Inventory Speed (Sec)		5
	Query Speed (Sec)		2
	Recognition Speed (Sec)		3
Control	Controller		Microprocessor
	Display		Touch Screen LCD
Electrical Data	Power Supply (V/Hz)		220/50
	Max Power (W)		1700
Dimensions	Capacity (L/Cu.Ft)		728/25.7
	Net/Gross Weight	kg	555/640
		lbs	1223.5/1410.9
	Interior Dimension (W*D*H)	mm	766*716*1310
		in	30.2*28.2*51.6
	Exterior Dimension (W*D*H)	mm	1300*1045*1980
		in	51.1*41.1*77.9
	Packing Dimension (W*D*H)	mm	1480*1175*2215
		in	58.2*46.2*87.2
	Cabinet Width (without handle and hinge)	mm	1300
Functions	High/Low Temperature Alarm		Y
	Hot Condenser Alarm		Y
	Power Failure Alarm		Y
	High/Low Voltage Alarm		Y
	Sensor Error Alarm		Y
	Low Battery Alarm		Y
	High Ambient Temperature Alarm		Y
	Door Ajar Alarm		Y
	Start-up delay		Y
Accessories	Caster		Y
	Leveling feet		Y
	Porthole		Y/2
	Inner Doors		4
	Shelves		3 - stainless steel shelves
	Shelf Dimensions (W*D) (mm)		752*650
	Max. Load per Shelf (kg)		90
	Freezer Racks Qty (2" boxes)		20
	Capacity (2" boxes)		400
	USB Interface		Y
	Remote Alarm		Y
	5V Power Supply Port		Y
	Temperature Chart Recorder		Optional
	RS232/485 Port		N/A / Standard
	CO_2 Backup System		Optional
	LN_2 Backup System		Optional
Others	Certification		CE

Stirling Compact ULT Freezer

It is applicable to products and samples with strict storage requirements, and ideal for long-term storage, meeting the typical storage needs of hospitals, disease control centers, research institutions, and biomedical engineering institutes.



DW-86L100STL

Product Features

Featuring a space-saving design, it offers full-performance ULT storage for benchtop setups, stacked arrangements, or undercounter installations.

Ideal for precisely regulated temperature changes across an expansive set point range of -86°C to - 20°C, maintaining a temperature uniformity of ≤±2°C.

The advanced refrigeration system utilizes 100% natural refrigerants to reduce the impact on climate.

Optimized for energy efficiency delivering a power consumption of just 3 kWh/day at -80°C.

Improved pressure relief port, re-entry shortened to just 60 seconds.

The sound level is ≤ 46dB (A), creating a quiet environment.

Adopting the PID temperature control technology enables precise temperature control and keeps the temperature fluctuation within ±0.5°C from -20°C to -86°C.

Innovative refrigeration technology without compressor and oil ensures safety, reliability and a long service life.

Stirling Compact ULT Freezer

Ergonomic Design

The engine room is moved up, and the height of the storage space is reduced for easy access.

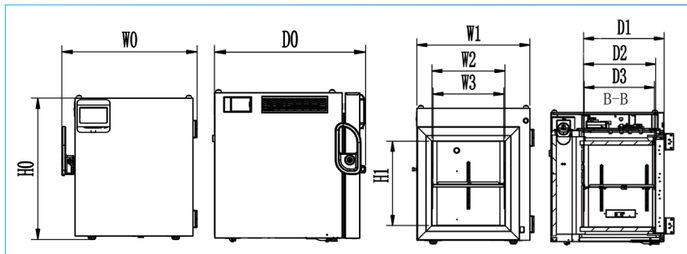
7 inch LCD touch screen, intelligent human-computer interaction.

An ergonomic handle and a unique slide track design make opening the door much easier.

Equipped with multiple security lock and multiple security guarantee, including secret lock, padlock, optional fingerprint lock.

Multiple interface configurations: standard USB interface, RS485 interface.

Product Dimensions



DW-86L100STL

Ramark
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
D3---Width of inner shelf
(Width of shelve for effective placement of freezing rack)
H0---Overall height of the machine
H1---Inner cabinet height

Model \ Code	W0	W1	W2	W3	D0	D1	D2	D3	H0	H1
DW-86L100STL	779mm	705mm	440mm	426mm	820mm	496mm	444mm	432mm	816mm	505mm

Stirling Compact ULT Freezer

Specifications

	Model		DW-86L100STL	
Technical Data	Cabinet Type		Upright	
	Ambient Temperature (°C)		10~32	
	Cooling Type		Direct cooling	
	Defrost Mode		Manual	
	Refrigerant		HC	
	Sound Level(dB(A))		≤46	
Performance	Cooling Performance (°C)		-86	
	Temperature Range (°C)		-20~-86	
Control	Controller		Microprocessor	
	Display		LCD touchscreen	
Electrical Data	Power Supply (V/Hz)		220~240/50/60	110~120/50/60
	Max Power (W)		300	
Dimensions	Capacity (L/Cu.Ft)		100/3.5	
	Net/Gross Weight	kg	110/145	
		lbs	260.2/326.3	
	Interior Dimension (W*D*H)	mm	440*444*505	
		in	17.3*17.5*19.9	
	Exterior Dimension (W*D*H)	mm	779*820*816	
		in	30.7*32.3*32.1	
	Packing Dimension (W*D*H)	mm	850*920*1000	
		in	33.5*36.2*39.4	
	Cabinet Width (without handle and hinge)	mm	705	
	Container Load (20'/40'/40'H)		24/52/52	
Functions	High/Low Temperature Alarm		Y	
	Hot Condenser Alarm		N/A	
	Power Failure Alarm		Y	
	High/Low Voltage Alarm		N/A	
	Sensor Error Alarm		Y	
	Low Battery Alarm		Y	
	High Ambient Temperature Alarm		Y	
	Door Ajar Alarm		Y	
	Start-up delay		Y	
Accessories	Caster		Y	
	Leveling Feet		Y	
	Porthole		Y/1	
	Inner Doors		2	
	Shelves		1- Stainless Steel Adjustable Shelves	
	Shelf Dimensions (W*D) (mm)		425*430	
	Max. Load per Shelf (kg)		90	
	Freezer Racks Quantity (2" boxes)		6	
	Capacity (2" boxes)		72	
	USB Interface		Y	
	Remote Alarm		Y	
	5V Power Supply Port		Y	
	Temperature Chart Recorder		N/A	
	RS232/485 Port		N/A / Standard	
	CO_2 Backup System		Optional	
	LN_2 Backup System		Optional	
Others	Certifications		CE	UL

Haier Biomedical

Intelligent Protection of Life Science

Frequency Conversion ULT Freezer

Salvum Ultimate Frequency Conversion ULT Freezer

Suitable for long term storage applications and compliant with typical storage requirements found in hospitals, disease control and prevention centres, scientific research institutions, biomedical engineering institutes, the agriculture/fishery sector as well as the electronics and chemical industries.

Advanced Hardware System



Smart Full-size Touch Screen

10-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 excellent energy savings. The energy consumption is down to a single digit.

Product Parts

Smart Full-size Touch Screen
10 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



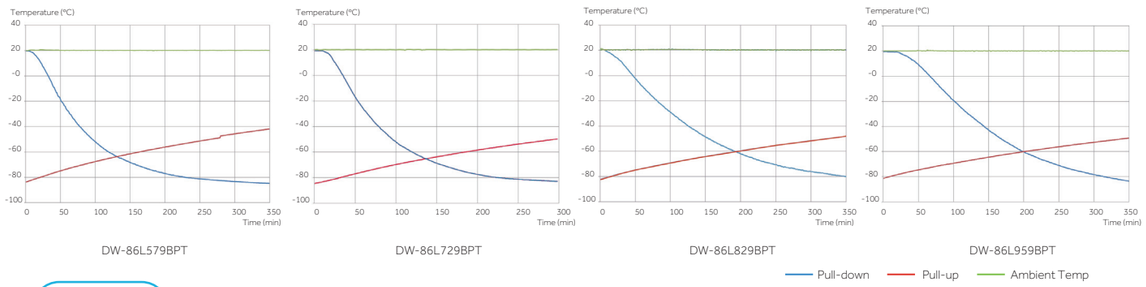
Multilayered Sealing Structure
Multilayered gaskets decrease heat loss and guarantee excellent warm up times in the event of a power failure



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

Temperature Curve



Follow the QR code and learn more about the
Smart Frequency Conversion ULT Freezer DW-86L829BPT from Haier Biomedical

Ergonomic Design

Safe and secure

Equipped with key lock, padlock and optional electromagnetic lock, with optional fingerprint lock, providing multiple safeguards for sample safety

Low noise design, reducing the noise down to 43.5dB

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%

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	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 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	Y	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
Others	Certifications		CE, UL, MDR	CE, UL, ENERGY STAR, MDR	CE, ENERGY STARCE, MDR | UL, ENERGY STAR	CE, ENERGY STAR, MDR | UL, ENERGY STAR

Salvum Ultimate Frequency Conversion ULT Freezer

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

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.

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 ±3°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.

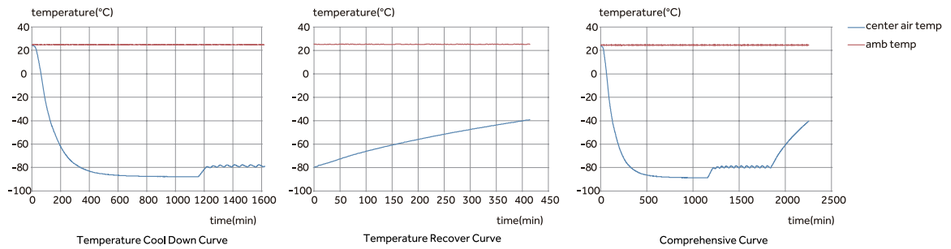
World-leading energy saving Refrigeration technology
Our hydrocarbon refrigeration technology can save energy by 50%, significantly reducing operator's cost. The refrigerants do not contain fluoride and chloride. The global warming potential is extremely low at 3. Thus they are very friendly to the environment.

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

Ergonomic Design



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



Temperature Cool Down Curve | Temperature Recover Curve | Comprehensive Curve

Salvum Ultimate Frequency Conversion ULT Freezer

	Model		DW-86L579BP	DW-86L729BP	DW-86L829BP		DW-86L959BP	
Technical Data	Cabinet Type		Upright	Upright	Upright		Upright	
	Ambient Temperature (℃)		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 (℃)		-86	-86	-86		-86	
	Temperature Range (℃)		-40~-86	-40~-86	-40~-86		-40~-86	
Control	Controller		Microprocessor	Microprocessor	Microprocessor		Microprocessor	
	Display		LED	LED	LED		LED	
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	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 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		N/A	N/A	N/A		N/A	
	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	
Others	Certifications		CE, UL, MDR	CE, UL, ENERGY STAR, MDR	CE, ENERGY STAR, MDR	UL, ENERGY STAR	CE, ENERGY STAR, MDR	UL, ENERGY STAR

Salvum Ultimate Standard Low Energy ULT Freezer with LCD Touchscreen

Haier Biomedical Salvum brand of ULT freezers has been designed to deliver energy savings and reduced carbon footprint. This range uses environmentally safe hydrocarbon refrigerants and high efficiency fan motors to maximize the cooling ability of the system and reduce energy consumption. While providing sample safety, the freezer design makes energy savings possible for laboratories.



DW-86L829



DW-86L579

Product Advantages

All-New Upgrade

Both the appearance and performance have been upgraded and optimized compared to the previous generation, delivering users an optimal experience

HC Energy-Saving

The high efficiency hydrocarbon compressor along with the upgraded refrigeration technology leads to a significant reduction in energy consumption



Superior Uniformity

The temperature uniformity is within ±4°C at -80°C setpoint, which ensures reliable preservation and maintains sample integrity over time

Environmental Protection

Adopt environmentally friendly hydrocarbon refrigerant and green LBA insulation to reduce the carbon footprint and protect the environment

Multiple Alarm Functions

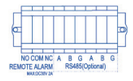
Including high/low temperature alarm, sensor failure alarm, power failure alarm, low battery alarm, door ajar alarm and high ambient temperature alarm. Alarm mode is sound and flash



Rich Configurations

Standard: RS485 interface, remote alarm, USB interface, 10-inch touch screen, adjustable stainless steel shelves
Optional: temperature recorder, backup system, stainless inner





Optimized Design

Upgraded VIP Insulation Technology

The Vacuum Insulated Panels (VIP) has been upgraded from a spliced form to an integrated one, ensuring unparalleled temperature performance

Improved Pressure Relief Port

The re-entry time has been shortened to just 60 seconds, effectively ensuring continuous access to the freezer

Intelligent Control

The 10 - inch LCD touchscreen integrated with a microprocessor controller system can intuitively display internal temperature, ambient temperature, set point and other data as well as temperature curves. The set temperature is adjustable between -40 ° C and -86 ° C, with a temperature display precision of 0.1°C

Safe and Secure

Equipped with keyed door lock, padlock, optional electronic lock, providing multiple safeguards for sample safety

Product Parts



Document holder for easy storage of files and pens



The handle designed with a unique sliding-track makes opening and closing the door easier



The tool-free removable filter makes it easy and quick to clean





The outer door is equipped with four layers of seals and the inner door with one layer, which significantly reduces heat loss



Standard USB interface enables users to download historical temperature data (up to 15 years)



4 swivel casters and 2 adjustable leveling legs for easy maneuvering and precise positioning

Specifications

	Model		DW-86L419	DW-86L579	DW-86L729	DW-86L829
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))		47	47	52	52
Performance	Cooling Performance (°C)		-86	-86	-86	-86
	Temp 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)		220~240/50	220~240/50	220~240/50	220~240/50
	Electrical Current (A)		800	1000	1700	1900
Dimensions	Capacity (L/Cu.Ft)		419/14.8	579/20.45	729/25.75	829/29.3
	Net/Gross Weight (approx)	kg	255/286	300/330	350/385	380/410
		lbs	562.2/630.5	661.4/727.5	771.6/848.8	837.7/903.9
	Interior Dimensions (W*D*H)	mm	465*716*1310	620*716*1310	766*716*1310	870*716*1310
		in	18.3*28.2*51.6	24.4*28.2*51.6	30.2*28.2*51.6	34.3*28.2*51.6
	Exterior Dimensions (W*D*H)	mm	830*990*1980	903*990*1960	1049*990*1980	1153*990*1980
		in	32.7*39.0*78.0	35.6*39.0*77.2	41.3*39.0*78.0	45.4*39.0*78.0
	Packing Dimension (W*D*H)	mm	870*1070*2110	950*1075*2110	1120*1090*2130	1200*1080*2130
		in	34.3*42.1*83.1	37.4*42.3*83.1	44.1*42.9*83.9	47.2*42.5*83.9
	Cabinet Width (without handle and hinge)	mm	725	800	946	1050
	Container Load (20'/40'/40'H)		12/26/26	12/24/24	10/20/20	10/20/20
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	Y	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		2	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)		441*657	606*649	752*650	856*650
	Max. Load per Shelf(kg)		54	72	90	108
	Freezer Racks Quantity(2" boxes)		12	16	20	24
	Capacity(2" boxes)		300	400	500	600
	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
Others	Certifications		CE, MDR	CE, MDR	CE, MDR	CE, MDR

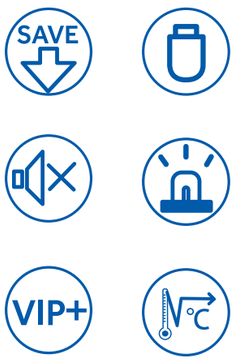
Salvum Ultimate Standard Low Energy ULT Freezer with LED Display

This product line is designed and manufactured for long term storage of various biological products, including viruses, germs, erythrocytes and leucocytes. Applications can be found in blood banks, hospitals, epidemic prevention services, research institutes, biological engineering institutes, laboratories in electronic and chemical plants.



Advantages

- World leading energy-efficient
- Hydrocarbon refrigeration system
- Slim cabinet design
- Reliable sample protection
- Malfunction alarms
- Excellent insulation performance





Insulation and System Design

- Special V-I-P (Vacuum Insulation Panel) insulation system reduces the heat gain by 25%
- High efficiency HC refrigeration system improves the overall efficiency by 45%
- Four individual insulated inner doors reduce the cold air loss to the minimum
- Heated Pressure Equalization Port makes re-accessing the unit fast
- About 50 dba sound level

Safe and Reliable Storage

- Superior temperature uniformity
- Dependable fans, compressors and other system related components

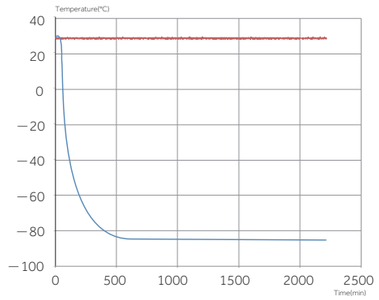
Alarms (Visual and Audible)

- Adjustable High/Low temperature alarm
- Sensor error
- Low battery
- Door ajar
- Power failure
- Hot condenser
- High ambient temperature
- Remote alarm contact

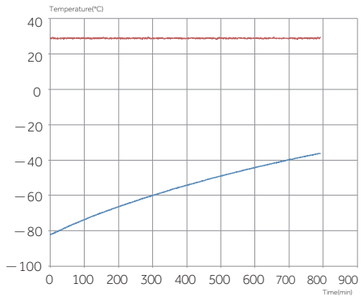
Extended Warm up Time During Power Failure

- Warm up time measures the time taken for temperature to rise up (from -80°C to -50°C) at 25°C ambient when the power is interrupted.
- Haier has the longest warm up time when compared with other major brands in the market.

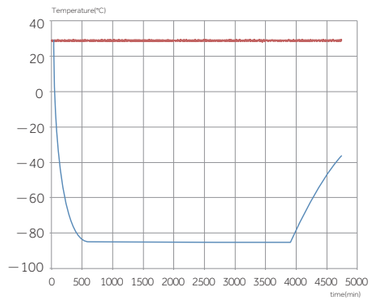
TYPICAL PERFORMANCE CHARACTERISTICS AT 25 °C AMBIENT



Temperature Cool Down Curve



Temperature Recover Curve



Comprehensive Curve

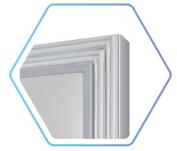


Ergonomic Design



4 Individual Removable Foam Inner Doors

- 4 individual inner doors can be opened independently to minimize frost buildupinside the chamber.
- Unique door seal design for the minimum loss of cold temperature during a dooropening.
- 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 morecomfortable 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.



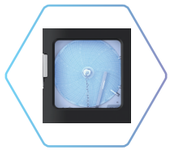
DW-86L728J



Two port holes for ease oftemperature monitoring



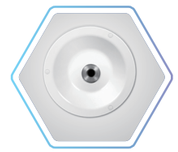
High Effciency Refrigeration Components



Temperature Recorder (Optional)
Front-mounted.
For independent temperature monitoring.

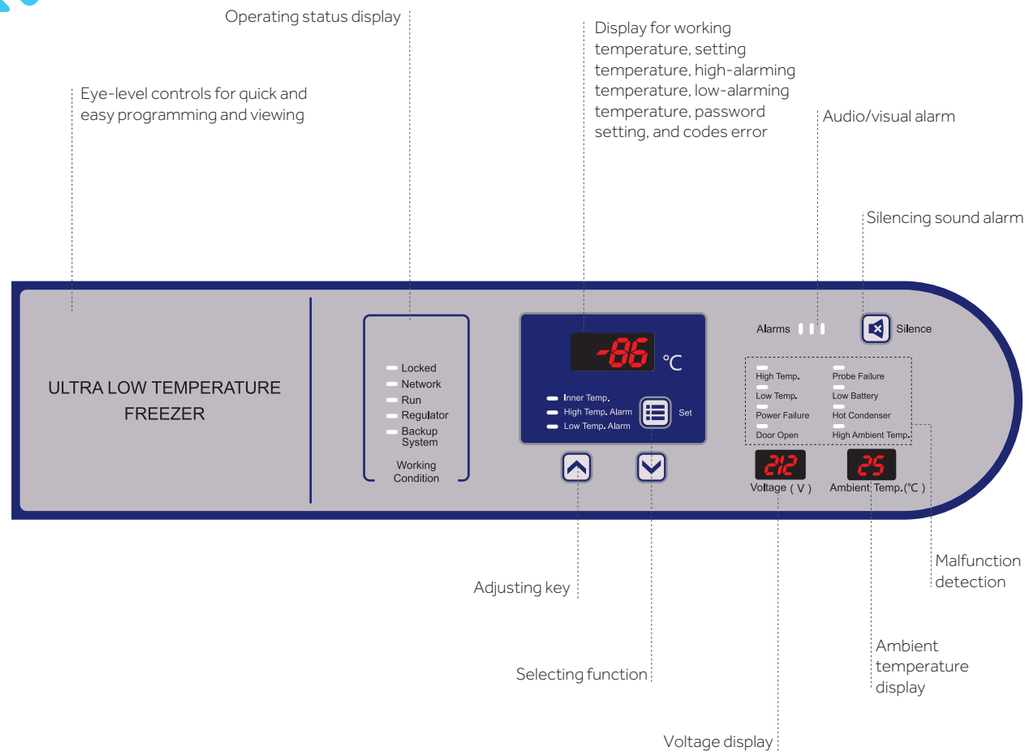


Optimized slideway design, easier to open and close the door.



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.

Salvum Ultimate Standard Low Energy ULT Freezer with LED Display



Specifications

Alarm	Alarm Triggering Condition
High Temperature	Temperature reaches the warm alarm limit
Low Temperature	Temperature reaches the low alarm limit
Power Failure	Equipment loses power
Door Ajar	Door opening time secedes set time, settable between 0 and 20 minutes
Sensor Error	E0.Ambient sensor fails E1.Condenser sensor fails E2.Main cabinet temperature control sensor fails E3.Heat exchanger sensor fails E4.Heat exchanger temperature fails
Low Battery	Battery capacity runs low or battery switch is not turned on
Hot Condenser	1. Condensers filter element is clogged 2. Ambient temperature is too high
High Ambient Temperature	Ambient temperature exceeds 32°C

Field proven reliablity

- 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

Installation & Application

- Wide range operating voltage system from 185V to 260 V 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

Low sound level

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

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

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

Salvum Ultimate Water-Cooled ULT Freezer

Haier water-cooled ULT freezers are designed to meet strict requirements for storage of plasma, biological materials, vaccines, reagents, specimens, and other valuable samples. They are ideal for installations in hospitals, clinics, blood banks and medical research facilities where freezer heat must be removed by cooling water.





Advantages

- Intelligent frequency conversion technology
- Advanced control Touchscreen
- Higher efficiency to yield more energy savings of up to 20%
- Approximately 90% of the compressor heat generated during operation is removed by the cooling water, thus posting the ambient temperature of laboratory
- Use less air-conditioning power for a comfortable laboratory condition
- Advanced control
- Low sound level
- Smart coolant control
- High quality industry grade hermetically sealed compressors
- Pressure protection system due to lack of water flow







Specifications





	Model		DW-86L828W	DW-86L959W
Technical Data	Cabinet Type		Upright	Upright
	Ambient Temperature (°C)		10~32	10~32
	Cooling Type		Direct Cooling	Direct Cooling
	Defrost Mode		Manual	Manual
	Refrigerant		HC	HC
	Sound Level (dB (A))		43.5	47
Performance	Cooling Performance (°C)		-86	-86
	Temperature Range (°C)		-40~-86	-40~-86
Control	Controller		Microprocessor	Microprocessor
	Display		LCD touchscreen	LCD Touch Screen
Electrical Data	Power Supply (V/Hz)		208~230/50/60	208~230/50/60
	Max Power (W)		1100	1300
Dimensions	Capacity (L/Cu.Ft)		828/29.2	959/33.9
	Net/Gross Weight (approx)	kg	380/415	450/485
		lbs	837.7/914.9	992.1/1069.2
	Interior Dimension (W*D*H)	mm	870*716*1310	1016*716*1310
		in	34.3*28.2*51.6	40.0*28.2*51.6
	Exterior Dimension (W*D*H)	mm	1145*998*1980	1296*998*1980
		in	45.1*39.3*78.0	51.0*39.3*78.0
	Packing Dimension (W*D*H)	mm	1204*1072*2125	1365*1102*2164
		in	47.5*42.3*83.7	53.8*43.4*85.2
	Cabinet Width (without handle and hinge)	mm	1050	1196
	Container Load (20'/40'/40'H)		8/20/20	8/16/16
Functions	High/Low Temperature Alarm		Y	Y
	Hot Condenser Alarm		Y	Y
	Power Failure Alarm		Y	Y
	High/Low Voltage Alarm		Y	Y
	Sensor Error Alarm		Y	Y
	Low Battery Alarm		Y	Y
	High Ambient Temperature Alarm		Y	Y
	Door Ajar Alarm		Y	Y
	Start-up delay		Y	Y
Accessories	Caster		Y (4)	Y (4)
	Leveling Feet		Y (2)	Y (2)
	Porthole		2*rear, (25mm)diameter	2*rear, (25mm)diameter
	Inner Doors		4	4
	Shelves		3- stainless steel adjustable shelves	3- stainless steel adjustable shelves
	Shelf Dimensions (W*D) (mm)		856*650	1002*650
	Max. Load per Shelf (kg)		108	126
	Freezer Racks Quantity (2" boxes)		24	28
	Capacity (2" boxes)		600	700
	USB Interface		Y	Y
	Remote Alarm		Y	Y
	5V Power Supply Port		Y	Y
	Temperature Chart Recorder		Optional	Optional
	RS232/485 Port		N/A / Standard	N/A / Standard
	CO_2 Backup System		Optional	Optional
	LN_2 Backup System		Optional	Optional
Others	Certifications		CE, MDR	CE, MDR

Under Counter ULT freezer

Suitable for clinical, medical, scientific research, quarantine and other departments to store items under low temperature conditions. Applicable for universities, hospitals, disease prevention and control centers, blood stations, scientific research institutes, electronics and chemical enterprise laboratories and biomedical engineering research institutes. For storage of biological products and biological samples such as red and white blood cells, viruses, bone and bacteria. Also used for electronic devices and other materials used for cryogenic tests.



DW-86L100J

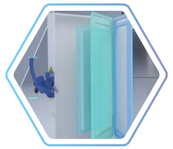
Energy Efficient, Safe and Reliable
High efficiency HC refrigeration system, optimised for energy efficiency.

Compact Design
810mm cabinet height makes it easy to place on or under counter, saving storage space. Stackable design.

Ergonomic Design
Ergonomic handle design ensures easy one-hand door opening.

Quiet Operation
Optimized noise reduction cabinet and system design, emits sound level of only 46.8dB.

Follow the QR code and learn more about the
Under Counter ULT Freezer DW-86L100J from Haier Biomedical



VIP insulation and multilayered sealing design
70mm insulating layer with 25mm VIP and 4 layers of gasket improves energy efficiency and reduces heat loss to deliver excellent warm up times in event of power failure.



Optional IoT Module
Real time monitoring of cabinet temperature, temperature setting, high and low temperature alarm value, temperature curve, alarm log and event log.



· User-settable parameters such as set point and alarms.
· Real-time cabinet temperature display, alarm information, power supply and compressor start/stop state.
· Standard USB port capable of storing >15 years of operating data for compliance.

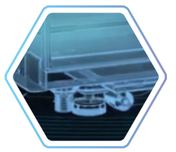




Ergonomic design for easy door opening and closing. Lockable and equipped with 4 keys as standard with the ability to add a padlock for extra security when required.



Double stainless-steel inner doors to prevent cooling loss when opening the outer door, easy to clean.



4 casters + 2-foot locks easy to move, lock and level.



Filter is easy to remove and clean without the need for tools.

Under Counter ULT freezer







Microprocessor control system

· Microcomputer electronic thermostat, LED temperature display, display precision 1°C, adjustable cabinet temperature set point -40°C~-86°C.
· Cabinet temperature/voltage/ambient temperature checking are available.
· Multiple alarm functions: high temperature alarm, low temperature alarm, sensor fault alarm, power failure alarm, low battery power alarm, open door alarm and high ambient temperature alert.
· Sound and light alarm mode, attachable to remote alarm interface.
· Battery backup alarm function operates continuously for >24hrs in the event of a power outage.
· Standard configuration: RS485 port and USB interface.
· Standard 5V power supply available for test equipment.
· Optional IoT module.

Superior thermal insulation performance

70mm super thick insulation layer design, aviation vacuum insulation material VIP, thickness of 25 mm or more, 4 layers of silicone seal, superior thermal insulation and energy saving effect.

Porthole

Portholes as standard, allows for independent testing of cabinet temperature.

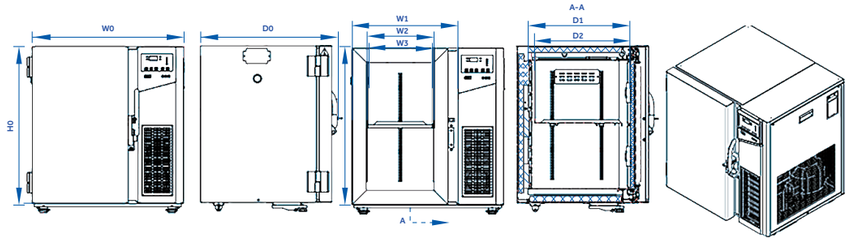
Security lock

Standard door lock and padlock to ensure sample security and prevent unauthorised access.

USB data storage

Capable of storing more than 15 years of data.

Product Dimensions



KEY

W0=TOTAL WIDTH
W1=FREEZER WIDTH
W2=INNER CABINET WIDTH
W3=INNER CABINET SHELF WIDTH
D0=TOTAL DEPTH
D1=INNER CABINET DEPTH
D2=INNER CABINET SHELF DEPTH
H0=TOTAL HEIGHT
H1=INNER CABINET HEIGHT

CODE / MODEL	W0	W1	W2	W3	D0	D1	D2	H0	H1
DW-86L100J	770mm	520mm	330mm	314mm	660m	481mm	465mm	810mm	630mm

Specifications

	Model		DW-86L100J	
Technical Data	Cabinet Type		Upright	
	Ambient Temperature (°C)		10~32	
	Cooling Type		Direct cooling	
	Defrost Mode		Manual	
	Refrigerant		HC	
	Sound Level (dB (A))		46.8	
Performance	Cooling Performance (°C)		-86	
	Temperature Range (°C)		-40~-86	
Control	Controller		Microprocessor	
	Display		LED	
Electrical Data	Power Supply(V/Hz)		220~240/50	120/60
	Max Power(W)		680	
Dimensions	Capacity(L/Cu.Ft)		100/3.5	
	Net/Gross Weight	kg	108/132	
		lbs	238/291	
	Interior Dimension (W*D*H)	mm	330*481*630	
		in	13*19*25	
	Exterior Dimension (W*D*H)	mm	770*660*810	
		in	30*26*32	
	Packing Dimension (W*D*H)	mm	830*730*1000	
		in	32.7*28.7*39.4	
	Cabinet Width (without handle and hinge)	mm	520	
	Container Load (20'/40'/40'H)		44/88/88	
Functions	High/Low Temperature Alarm		Y	
	Hot Condenser Alarm		Y	
	Power Failure Alarm		Y	
	High/Low Voltage Alarm		Y	
	Sensor Error Alarm		Y	
	Low Battery Alarm		Y	
	High Ambient Temperature Alarm		Y	
	Door Ajar Alarm		Y	
	Start-up Delay		Y	
Accessories	Caster		Y(4)	
	Leveling Feet		Y(2)	
	Porthole		1 left side, (25mm)diameter	
	Inner Doors		2	
	Shelves		1- stainless steel adjustable shelves	
	Shelf Dimensions (W*D) (mm)		316*424	
	Max. Load per Shelf (kg)		22	
	Freezer Racks Quantity (2" boxes)		4	
	Capacity (2" boxes)		60	
	USB Interface		Y	
	Remote Alarm		Y	
	5V Power Supply Port		Y	
	Temperature Chart Recorder		N/A	
	RS232/485 Port		N/A / Standard	
	CO_2 Backup System		Optional	
	LN_2 Backup System		Optional	
Others	Certification		CE, MDR	UL

-86°C ULT Freezer

Specifications








Model			DW-86L338J	DW-86L338JA	DW-86L388J	DW-86L486E	DW-86L490J	DW-86L490JA	DW-86L578J	DW-86L578JA	DW-86L628E
Technical Data	Cabinet Type		Upright		Upright	Upright	Upright		Upright		Upright
	Ambient Temperature (℃)		10~32		10~32	10~32	10~32		10~32		10~32
	Cooling Type		Direct Cooling		Direct Cooling	Direct Cooling	Direct Cooling		Direct Cooling		Direct Cooling
	Defrost Mode		Manual		Manual	Manual	Manual		Manual		Manual
	Refrigerant		HC		HC	HC	HC		HC		HC
	Sound Level (dB (A))		50		50	49	50		50		49
Performance	Cooling Performance (℃)		-86		-86	-86	-86		-86		-86
	Temperature Range (℃)		-40~-86		-40~-86	-40~-86	-40~-86		-40~-86		-40~-86
Control	Controller		Microprocessor		Microprocessor	Microprocessor	Microprocessor		Microprocessor		Microprocessor
	Display		LED		LED	LED	LED		LED		LED
Electrical Data	Power Supply (V/Hz)		220~240/50	120/60	208~230/60	220~240/50	220~240/50	208~230/60	220~240/50	120/60	208~230/60	220~240/50
	Max Power (W)		900	900	1400	900	1000	1600	1700	900	1600	1200
Dimensions	Capacity (L/Cu.Ft)		338/11.9			388/13.7	486/17.1	490/17.3	578/20.4			626/22.1
	Net/Gross Weight	kg	238/278			255/286	290/310	295/335	300/330			301/323
		lbs	524.7/612.9			562.2/630.5	639.3/683.4	650.4/738.5	661.4/727.5			664.0/712.0
	Interior Dimension (W*D*H)	mm	465*630*1165			465*716*1310	590*630*1310	590*630*1310	620*716*1310			760*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	24.4*28.2*51.6			29.9*24.8*51.6
	Exterior Dimension (W*D*H)	mm	830*900*1871			830*980*1980	953*900*1980	873*900*1980	903*980*1960			1035*900*1980
		in	32.7*35.4*73.7			32.7*38.6*78.0	37.5*35.4*78.0	34.4*35.4*78.0	35.6*38.6*77.2			40.7*35.4*78.0
	Packing Dimension (W*D*H)	mm	879*974*2013			877*1070*2114	1020*1020*2130	934*980*2116	952*1063*2089			1110*1005*2130
		in	34.6*38.3*79.3			34.5*42.1*83.2	40.2*40.2*83.9	36.8*38.6*83.3	37.5*41.9*82.2			43.7*39.6*83.9
	Cabinet Width (without handle and hinge)	mm	725			725	850	770	800			940
	Container Load (20'/40'/40'H)		12/24/24			12/24/24	12/24/24	12/24/24	12/24/24			12/24/24
Functions	High/Low Temperature Alarm		Y			Y	Y	Y	Y			Y
	Hot Condenser Alarm		Y			Y	Y	Y	Y			Y
	Power Failure Alarm		Y			Y	Y	Y	Y			Y
	High/Low Voltage Alarm		N/A			N/A	N/A	N/A	N/A			N/A
	Sensor Error Alarm		Y			Y	Y	Y	Y			Y
	Low Battery Alarm		Y			Y	Y	Y	Y			Y
	High Ambient Temperature Alarm		Y			Y	Y	Y	Y			Y
	Door Ajar Alarm		Y			Y	Y	Y	Y			Y
	Start-Up Delay		Y			Y	Y	Y	Y			Y
Accessories	Caster		Y (4)			Y (4)	Y (4)	Y (4)	Y (4)			Y (4)
	Leveling Feet		Y (2)			Y (2)	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			2*rear, (25mm)diameter
	Inner Doors		2			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			3- stainless steel adjustable shelves
	Shelf Dimensions (W*D) (mm)		451*597			576*597	576*567.5		606*650			746*567.5
	Max. Load per Shelf (kg)		44			58	58		72			72
	Freezer Racks Quantity (2" boxes)		12			16	16		16			20
	Capacity (2" boxes)		216			320	288		400			400
	USB Interface		Y			Y	Y		Y			Y
	Remote Alarm		Y			Y	Y		Y			Y
	5V Power Supply Port		Y			Y	Y		Y			Y
	Temperature Chart Recorder		Optional			Optional	Optional		Optional			Optional
	RS232/485 Port		Optional			Optional	Optional		Optional			Optional
	CO_2 Backup System		Optional			Optional	Optional		Optional			Optional
	LN_2 Backup System		Optional			Optional	Optional		Optional			Optional
Others	Certifications		CE, MDR	UL		CE, MDR	CE, MDR	UL	CE, MDR	UL	UL	CE, MDR

-86°C ULT Freezer

Specifications











	Model		DW-86L728J	DW-86L728JA	DW-86L828J	DW-86L828JA	DW-86L100J	DW-86W100J	DW-86W420J	DW-86W420JA
Technical Data	Cabinet Type		Upright		Upright		Upright	Chest	Chest	
	Ambient Temperature (°C)		10~32		10~32		10~32	10~32	10~32	
	Cooling Type		Direct Cooling		Direct Cooling		Direct Cooling	Direct Cooling	Direct Cooling	
	Defrost Mode		Manual		Manual		Manual	Manual	Manual	
	Refrigerant		HC		HC		HC	HC	HC	
	Sound Level (dB (A))		50		50	51.5	46.8	49	50	
Performance	Cooling Performance (°C)		-86		-86		-86	-86	-86	
	Temperature Range (°C)		-40~-86		-40~-86		-40~-86	-40~-86	-40~-86	
Control	Controller		Microprocessor		Microprocessor		Microprocessor	Microprocessor	Microprocessor	
	Display		LED		LED		LED	LED	LED	
Electrical Data	Power Supply (V/Hz)		220~240/50	120/60 | 208-230/60	220~240/50	208-230/60	220~240/50	120/60 | 220~240/50	220~240/50	208-230/60
	Max Power (W)		1700		1700		680	800	1600	
Dimensions	Capacity (L/Cu.Ft)		728/25.7		828/29.2		100/3.5	100/3.5	420/14.8	
	Net/Gross Weight	kg	345/385		380/410		108/132	138/160	310/357	
		lbs	760.6/848.8		837.7/903.9		238/291	304.2/352.7	683.4/787.0	
	Interior Dimension (W*D*H)	mm	766*716*1310		870*716*1310		330*481*630	470*450*480	1367*462*652	
		in	30.2*28.2*51.6		34.3*28.2*51.6		13*19*25	18.5*17.7*18.9	53.8*18.2*25.7	
	Exterior Dimension (W*D*H)	mm	1049*980*1980		1153*980*1980		770*660*810	769*825*1120	2130*870*1020	
		in	41.3*38.6*78.0		45.4*38.6*78.0		30*26*32	30.3*32.5*44.1	83.9*34.3*40.2	
	Packing Dimension (W*D*H)	mm	1100*1069*2130		1197*1050*2117		830*730*1000	835*860*1280	2210*910*1160	
		in	43.3*42.1*83.9		47.1*41.3*83.3		32.7*28.7*39.4	32.9*33.9*50.4	87*35.8*45.7	
	Cabinet Width (without handle and hinge)	mm	946		1050		520	733	733	
	Container Load (20'/40'/40'H)		12/20/20		8/20/20		44/88/88	12/24/48	6/12/24	
Functions	High/Low Temperature Alarm		Y		Y		Y	Y	Y	
	Hot Condenser Alarm		Y		Y		Y	Y	Y	
	Power Failure Alarm		Y		Y		Y	Y	Y	
	High/Low Voltage Alarm		N/A		N/A		Y	N/A	N/A	
	Sensor Error Alarm		Y		Y		Y	Y	Y	
	Low Battery Alarm		Y		Y		Y	Y	Y	
	High Ambient Temperature Alarm		Y		Y		Y	Y	Y	
	Door Ajar Alarm		Y		Y		Y	Y	Y	
	Start-Up Delay		Y		Y		Y	Y	Y	
Accessories	Caster		Y (4)		Y (4)		Y (4)	Y (4)	Y (4)	
	Leveling Feet		Y (2)		Y (2)		Y (2)	Y (2)	Y (2)	
	Porthole		2*rear, (25mm)diameter		2*rear, (25mm)diameter		1*left side, (25mm)diameter	1*rear, (25mm)diameter	1*rear, (25mm)diameter	
	Inner Doors		4		4		2	1	3	
	Shelves		3- stainless steel adjustable shelves		3- stainless steel adjustable shelves		1- stainless steel adjustable shelves	/	/	
	Shelf Dimensions (W*D) (mm)		752*650		856*650		316*424	/	/	
	Max. Load per Shelf (kg)		90		108		22	/	/	
	Freezer Racks Quantity (2" boxes)		20		24		4	9	27	
	Capacity (2" boxes)		500		600		60	72	270	
	USB Interface		Y		Y		Y	Y	Y	
	Remote Alarm		Y		Y		Y	Y	Y	
	5V Power Supply Port		Y		Y		Y	N/A	N/A	
	Temperature Chart Recorder		Optional		Optional		N/A	Optional	Optional	
	RS232/485 Port		Optional		Optional		N/A / Standard	Optional	Optional	
	CO_2 Backup System		Optional		Optional		Optional	Optional	Optional	
	LN_2 Backup System		Optional		Optional		Optional	Optional	Optional	
Others	Certifications		CE, MDR	UL	CE, MDR	UL	CE, MDR	UL	CE, MDR	CE, MDR | UL

-86°C ULT Freezer

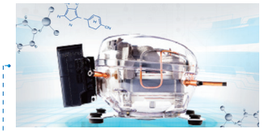
Suitable for pharmaceutical, clinical and medical research use, for the long-term storage of samples and products under ultra-low temperature conditions.

Advantage



Microprocessor Control System

Microprocessor control, with temperature display precision at 0.1°C. Internal temperature is adjustable from of -40°C ~ -86°C



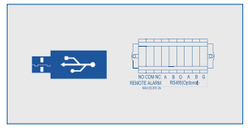
Auto-cascade Hydrocarbon (HC) Refrigeration Technology

Utilizing auto-cascade hydrocarbon compressor, with superior refrigeration and energy saving effect



Excellent Doors Seals

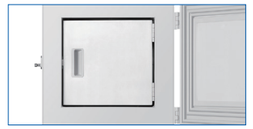
Total six gaskets to safeguard the freezer temperature, including a 70mm insulation layer, a 25mm vacuum VIP and 4 layers of silicone seal



Multiple Ports

Enables users to download historical temperature data (up to 15 years) Equipped with remote alarm function and RS485 port





Stainless Steel Inner Door

Prevents loss of internal air to keep samples safe



Internal Lock

Standard internal lock with 4 keys for multiple users

Ergonomic Design

Unique hook slide handle design, allows users to open and close the door with one hand



Quick Access Filter Design

Tool-free removable filter design, easy and quick to clean the filter



Porthole

One porthole as standard, allows for independent testing of cabinet temperature

DW-86L51J

Advantage



DW-80WZ15

HC Energy Saving

High quality HC high-efficiency compressor with optimized refrigeration system, which can save 50% on power consumption.

One Unit for Multiple Applications

*Vehicle-mounted transportation with 24V(DC) power supply
*Long-term storage with 110V power supply.

Superior Uniformity

Built-in evaporator, fast cool down refrigeration, the temperature is safe, secure and reliable with the uniformity of ±3°C at key characteristic points.

Mini-ULT Freezer

Ergonomic Design

Light Weight

The whole unit weighs 27kg, easy to carry.

Superior Insulation Performance

25mm VIP + 70mm thick LBA foam insulation layer design, dual seal strips for better insulation.

Safety Lock Catch

Simple adjustable mechanical lock with lock catch, and it can be equipped with an external lock to guarantee the safety of sample transportation and storage.

Metal Handle

Hidden metal handle, stylish and comfortable, safe and durable, easy to carry.

Specifications

	Model		DW-80WZ15		DW-86L51J	
Technical Data	Cabinet Type		Chest		Upright	
	Ambient Temperature (°C)		10~32		10~32	
	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)		220/50, DC24	110/60, DC24	120V/60	220~240/50
	Max Power (W)		280		750	500
Dimensions	Capacity (L/Cu.Ft)		15/0.53		51/1.8	
	Net/Gross Weight	kg	27/33		77/90	73/86
		lbs	59.5/72.8		169.8/198.4	160.9/189.6
	Interior Dimension (W*D*H)	mm	260*180*330		330*481*316	
		in	10.2*7.1*13.0		13*16.5*12.4	
	Exterior Dimension (W*D*H)	mm	690*320*500		532*640*806	
		in	27.2*12.6*19.7		20.9*25.2*31.7	
	Packing Dimension (W*D*H)	mm	805*430*725		570*735*1010	
		in	31.7*17.0*28.5		22.4*28.9*43.3	
	Cabinet Width (without handle and hinge)	mm	/		470	
	Container Load (20'/40'/40'H)		105/210/210		64/120/120	
Functions	High/Low Temperature Alarm		Y		Y	
	Hot Condenser Alarm		N/A		Y	
	Power Failure Alarm		Y		Y	
	High/Low Voltage Alarm		N/A		Y	
	Sensor Error Alarm		Y		Y	
	Low Battery Alarm		N/A		Y	
	High Ambient Temperature Alarm		N/A		Y	
	Door Ajar Alarm		N/A		Y	
	Start-up delay		N/A		Y	
Accessories	Caster		N/A		Y (4)	
	Leveling Feet		Y (4)		Y (2)	
	Porthole		N/A		1*right side, (25mm)diameter	
	Inner Doors		N/A		1	
	Shelves		/		1- stainless steel adjustable shelves	
	Shelf Dimensions (W*D) (mm)		/		316*424	
	Max. Load per Shelf (kg)		/		22	
	Freezer Racks Quantity (2" boxes)		N/A		2	
	Capacity (2" boxes)		10		30	
	USB Interface		N/A		Y	
	Remote Alarm		N/A		Y	
	5V Power Supply Port		N/A		N/A	
	Temperature Chart Recorder		N/A		N/A	
	RS232/485 Port		N/A		N/A / Standard	
	CO_2 Backup System		N/A		N/A	
	LN_2 Backup System		N/A		N/A	
Others	Certifications		CE, MDR	UL	UL	CE, MDR

ULT Freezer Inventory Racks

ULT Freezer	Freezer Rack						Freezer Rack Quantity	Total Boxes
	CAT.No.	Model	Type	Layout (Rows*Columns)	Box Type	Dimensions (D*W*H) (mm)		
DW-150W209/150W209A	433028	DCJ-12-A(SUS304)	Vertical	12*1	2 inch	141*141*662	12	144
DW-86L388J/419	433012	DCJ-55-A(SUS304)	Side-access	5*5	2 inch	686*141*291	12	300
	433001/433002	DCJ-55-B(SUS201/304)	Sliding-drawer	5*5	2 inch	686*141*291	12	300
DW-86L578J/578JA/579 /579BP/579BPT/578BPST	433012	DCJ-55-A (SUS304)	Side-access	5*5	2 inch	686*141*291	16	400
	433001/433002	DCJ-55-B(SUS201/304)	Sliding-drawer	5*5	2 inch	686*141*291	16	400
DW-86L728J/728JA/ 729/729BP/729BPT/728BP ST/730BPT	433012	DCJ-55-A (SUS304)	Side-access	5*5	2 inch	686*141*291	20	500
	433001/433002	DCJ-55-B(SUS201/304)	Sliding-drawer	5*5	2 inch	686*141*291	20	500
DW-86L828J/828JA/829 /829BP/829BPT/828W/828 BPST/830BPT	433012	DCJ-55-A (SUS304)	Side-access	5*5	2 inch	686*141*291	24	600
	433001/433002	DCJ-55-B(SUS201/304)	Sliding-drawer	5*5	2 inch	686*141*291	24	600
DW-86L959BP/959BPT /959W	433012	DCJ-55-A (SUS304)	Side-access	5*5	2 inch	686*141*291	28	700
	433001/433002	DCJ-55-B(SUS201/304)	Sliding-drawer	5*5	2 inch	686*141*291	28	700
DW-86L486E	433013	DCJ-54-A (SUS304)	Side-access	5*4	2 inch	552*141*291	16	320
	433003/433004	DCJ-54-B(SUS201/304)	Sliding-drawer	5*4	2 inch	552*141*291	16	320
DW-86L628E	433013	DCJ-54-A(SUS304)	Side-access	5*4	2 inch	552*141*291	20	400
	433003/433004	DCJ-54-B(SUS201/304)	Sliding-drawer	5*4	2 inch	552*141*291	20	400
DW-86L338J/DW-86L338JA	433016 433013	DCJ-44-A(SUS304) DCJ-54-A(SUS304)	Side-access	4*4 5*4	2 inch	552*141*240 552*141*291	6 6	96 120
	433007/433008 433003/433004	DCJ-44-B(SUS201/304) DCJ-54-B(SUS201/304)	Sliding-drawer	4*4 5*4	2 inch	552*141*240 552*141*291	6 6	96 120
DW-86L490J/490JA	433016 433013	DCJ-44-A(SUS304) DCJ-54-A(SUS304)	Side-access	4*4 5*4	2 inch	552*141*240 552*141*291	8 8	128 160
	433007/433008 433003/433004	DCJ-44-B(SUS201/304) DCJ-54-B(SUS201/304)	Sliding-drawer	4*4 5*4	2 inch	552*141*240 552*141*291	8 8	128 160
DW-86L100J	433005/433006	DCJ-53-B(SUS201/304)	Sliding-drawer	5*3	2 inch	417*141*291	4	60
DW-86L51J	433005/433006	DCJ-53-B(SUS201/304)	Sliding-drawer	5*3	2 inch	417*141*291	2	30
DW-86W420J/420JA	433026	DCJ-10-A (SUS304)	Vertical	10*1	2 inch	141*141*552	27	270
DW-86W100J	433025	DCJ-08-A(SUS304)	Vertical	8*1	2 inch	141*141*442	9	72

CO_2 Backup System

Advantage

- Small footprint, light and easy for installation
- User adjustable temperature setting
- Simple to program and operate
- Flexible – Can be installed on any ULT freezer, which has a port hole
- The CO2 injection pipe is designed in combination of filter, to prevent the blockage of CO2 back-up system



Safety

- Liquid CO_2 test button to ensure the backup system is working

  Low CO_2 alarm system alerts the user when liquid CO_2 bottle is low in liquid level
- Ultra-low sound level compressors



Reliability

- Stainless steel covering, more elegant
- Stainless steel input pipe design, allows for flexibility and ease of cylinder positioning
- Durable battery lasts up to 48 hours



Specifications

	Model	HBX-IC
Technical Data	AmbientTemperature (°C)	10-32
	Cooling Type	Direct Cooling
	Refrigerant	CO_2
Performance	Cooling Performance (°C)	-70
	Temperature Range (°C)	-40~-70
Control	Controller	Thermostat
	Display	LED
Electrical Data	Power Supply (V/Hz)	220-240/50
		208-230/60
		115/60
	Power (W)	20
	Electrical Current (A)	0.25
Dimensions	Net/Gross Weight (approx)	11.2/14
		24.7/30.86
	Exterior Dimensions (W*D*H)	200*400*160
		7.8*15.7*6.3
	Packing Dimensions (W*D*H)	550*390*330
		21.7*15.4*13.0
Alarms	CO_2 Margin Insufficient Alarm	Y
	Low Battery Alarm	Y
	Sensor Error Alarm	Y
	Main Power Off Alarm	Y
	Charge Indicator	Y
	CO_2 Injection Test Button	Y
Accessories	Foot	4
Others	Certifications	CE/UL

LN_2 Backup System

LN_2 backup cooling system is an independent refrigeration system generally used for a -150°C mechanical cryo freezer. When there is a loss of power or the temperature of the freezer rises to the high alarm set point, the LN_2 backup system can be automatically activated to inject LN_2 into the chamber to maintain the freezer temperature. The backup system operates on a rechargeable battery when there is a loss of mains power.



Features

- Interlocked design to turn off the LN_2 injection when the door is opened
- Protection circuit to prevent over-charging battery
- Light weight and portable design, suitable for installation on top of a freezer
- Alarm functions to include low battery and sensor error

Specifications

Model		HBX-IIA
Technical Data	Cabinet Type	Horizontal
	Cooling Type	Direct Cooling
	Refrigerant	LN_2
Performance	Cooling Performance (°C)	-135
	Temperature Range (°C)	-90~-135
Control	Controller	Thermostat
	Display	LED
Electrical Data	Power Supply (V/Hz)	220-240/50
		208-230/60
		115/60
	Power (W)	20
	Electrical Current (A)	0.05
Dimensions	Net/Gross Weight (approx)	15/17
		33.1/37.5
	Exterior Dimensions (W*D*H)	360*305*445
		14.2*12.0*17.5
	Packing Dimensions (W*D*H)	450*375*720
		17.7*14.8*28.3
Alarms	Low Battery Alarm	Y
	Sensor Error Alarm	Y
	Main Power Off Alarm	Y
	Charge Indicator	Y
Others	Certification	CE/UL

Controlled Rate Freezer

Suitable for primary cells and cooling cells that are highly sensitive to temperature changes.

Product Advantages

Precise Temperature Control

- Fine temperature control, the temperature rises and fall rate can be controlled in a large range, can achieve the cooling rate of 0.1~99°C/min
- Stable temperature control, double solenoid valve design and special jet ring design, stable temperature control, effectively reduces cell damage
- Precise temperature control, ADRC control algorithm, temperature fluctuation range is ±0.5°C
- 21 CFR Part 11–compliance
  Use of electronic records and signatures during the manufacturing process, that may help improve operational efficiency, improve system security, and decrease the number of records with defects

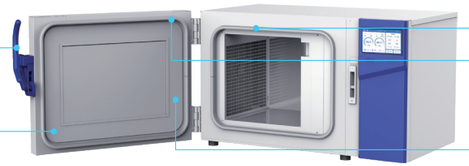
Ergonomic Design

- 7-inch touch LCD screen, easy to operate
- Liquid nitrogen allowance warning: Real-time display of liquid nitrogen allowance, timely warning when it is lower than 20%
- Single handle press lock, simple and labor-saving, locking function, and the safety of the test process is guaranteed
- Equipped with a real-time temperature curve printer and electronically archived temperature records

Product Functions



Controlled Rate Freezer

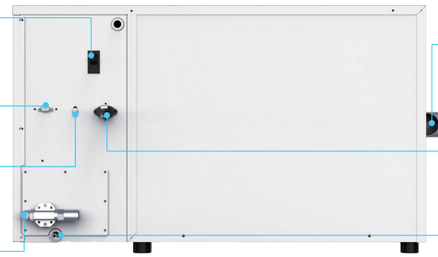


Lock
Ergonomic design, easy to operate

Side-opening Door
Convenient access of frozen samples, suitable height

Double Layer Sealing Structure
Good sealing performance

Superior Insulation Performance
Environmental friendly polyurethane foam material has good thermal insulation performance



Power Switch
Easy to operate, safe and reliable

RS 232 Interface

Liquid nitrogen level monitoring port

Gas inlet
Pipe thread connection, safe and stable

Pressure Relief Hole
When the inner pressure is too large, the pressure relief hole releases the pressure by itself to achieve the equilibrium state of internal and external pressure

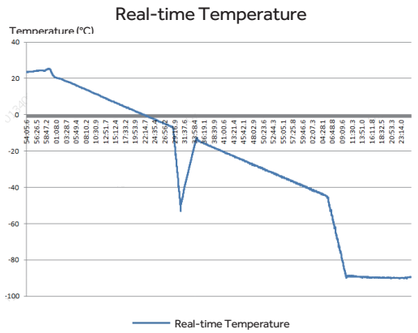
Power Connecter
Plug and play

Drain

Product Performance



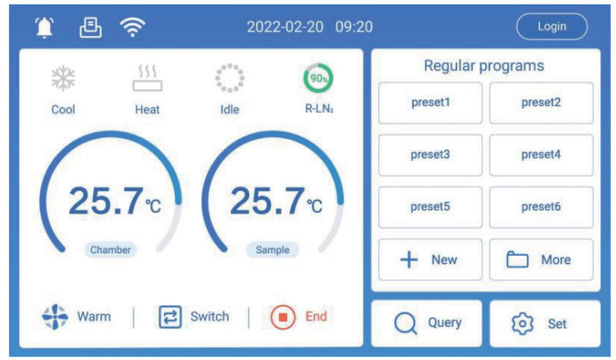
ADRC control algorithm, more accurate temperature control, temperature fluctuation range is ±0.5℃



Double solenoid valve design and special jet ring design to realize the cooling rate of 0.1~99℃/min
The heating rate is 0.1~12℃/min by heater design

Controlled Rate Freezer

One-Click Freezing



Various program timer settings, one-click freezing of samples

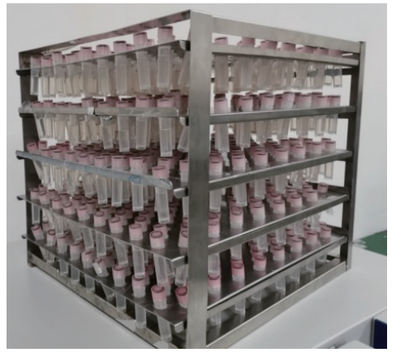
Specifcations

Model	CJ-L19	CJ-L37	CJ-L54
Effective Volume(L)	19	37	54
Temperature Range(℃)	-180~50		
Cooling Rate(℃/min)	0.1~99.9		
Heating Rate(℃/min)	0.1~12		
Temperature Uniformity(℃)	＜2		
Power Supply (V/Hz)	220~50/60		
Display Screen	7 "colorful LCD touch screen		
Refrigerant	Liquid nitrogen		
Liquid Nitrogen Monitoring	Alarm reminder for liquid nitrogen less than 20%		
Exterior Dimensions (W*D*H mm)	775*571*527	941*571*527	1093*571*527
Interior Dimensions (W*D*H mm)	170*340*330	330*340*330	485*340*330
Packing Dimensions (W*D*H mm)	890*710*705	1050*700*705	1200*710*705
Net/Gross Weight (Kg)	66/106	73/114.5	84.5/118
Serial Port Form	USB Interface/RS232 serial port		
Accessories	1 Printer, 2 Sample probe		
Certification	CE		

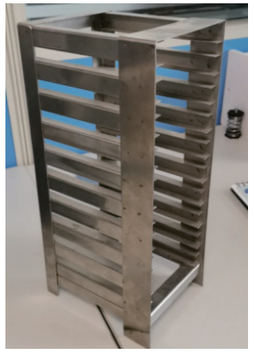
Controlled Rate Freezer

Optional Freezing Rack

Description	Dimensions (W*D*H mm)	Vials/Bags Per Rack	Number of Racks		
			Model		
			CJ-L19	CJ-L37	CJ-L54
2/5ml freezing rack	308*327*300	810(2ml vial) 486(5ml vial)		1	1+1
2/5ml freezing rack	143*326*300	550(2ml vial) 330(5ml vial)	1		
50ml freezing rack	100*153*259	13(25/50ml bag)	3	6	9
250ml freezing rack	160*240*256	8(250/500ml bag)	1	2	3
100ml freezing rack	112*164*301	10(100ml bag)	2	4	6



Vials Freezing Rack



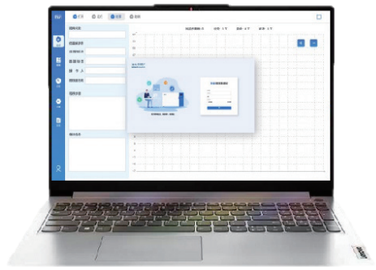
Bag Freezing Rack



Bag Freezing Box

Controlled Rate Freezer

PC Software(with PC)



Optimized profile design and easy to operate.

Real-time acquisition of freezing curve, sample temperature, operating steps, etc.

Remote control of controllable rate freezer.

Update and enhance the creation of freezing programs.

Realize the comparative analysis of historical data, output running records and print program reports.

Self-pressurized LN_2 Storage



Model	YDZ-100/1.5
Volume of LN_2 (L)	100
Static Evapouration (L/Day)	1.3
LN_2 Output (L/Min)	4
Height (mm)	1185
Outside Diameter (mm)	606
Empty Weight (kg)	75
Full Weight (kg)	157
Pressure Parameters (MPa)	1. Standard working pressure 0.09 2. Maximum working pressure 0.15 3. First stage safety valve relief pressure 0.15 4. Second stage safety valve release pressure 0.24 5. Pressure gauge range 0~0.25

Freeze Dryer

Applicable to biological research, medical laboratories for drying of biotechnological and pharmaceutical products, e.g. tissues and tissue extracts, bacteria, vaccines, and sera, also suitable to food research chemical industry and other related scenarios for efficient lyophilization of samples.



DG-65Z04-10A

Product Advantages

Automatic parameter storage
Intelligent storage of the freeze-drying parameters, without setting them separately each time

The refrigeration efficiency is greatly improved
The evaporator is located in the freezing chamber, which directly cools the sample and improves the refrigeration efficiency, it can reach-60°C within 25 minutes

The integrated design and totally enclosed environment make the sample pollution-free
The whole working cabin is closed, the freeze-drying process is isolated from the outside environment

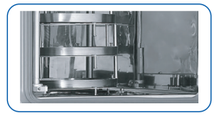
IoT real-time management
Separate account, authority management, configuration record function, data traceability, real-time monitoring of equipment status

Multiple alarm functions
Multiple alarms including cold trap cooling overtime, vacuum pump oil replacement reminder, temperature sensor fault/cold trap temperature sensor fault, vacuum sensor fault, condenser sensor fault, ambient temperature sensor fault, abnormal refrigeration, motor overcurrent, condenser dirty blockage, vacuum alarm, heating lamp life less than 10% alarm

High sublimation speed and high drying efficiency
Excellent temperature uniformity, free from external influences, more energy-saving and environment-friendly

Freeze Dryer

Ergonomic Design



Automatic lifting shelves without manual operation



External vacuum pump, convenient for oil change

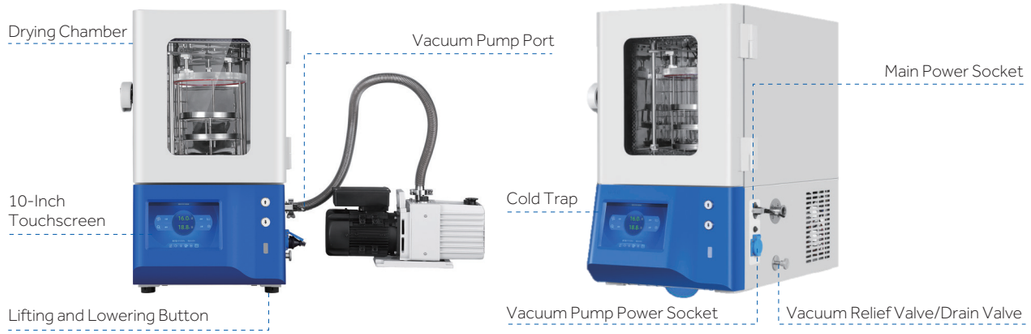


The filter can be easily replaced



The design of glass door ensures the working situation in the drying chamber visible at the glance

Product Parts



Vacuum Pump

- The two-level gas ballast design offers greater convenience in meeting the steam discharge requirements of diverse processes.
- The automatic anti-backflow oil design provides more reliable protection for the vacuum system, preventing it from being contaminated by oil after shutdown.
- The built-in gear wheel pump and constant pressure oil supply mechanism ensure forced oil supply, allowing stable and reliable operation even under high suction pressure.



Rotary Vane Vacuum Pump DRV10 **Oil Filter**

Freeze Dryer

Vacuum Pump

Model		DRV10
Power Supply (V/Hz)		220/50
Pumping Speed (m^3/h)		9.9
Ultimate Pressure	Gas Ballast Off (Pa)	$5*10^{-1}$
	Gas Ballast On (Pa)	5
Motor Power (kw)		0.4
Required Oil (L)		1.1
Air Inlet		KF25
Air Outlet		KF25
Sound Level (db)		65
Weight (kg)		25

Model	DG-65Z04-10A
Ice Condenser Temperature (°C)	-65
Condensation Efficiency	4kg/24h
Sound Level (dB(A))	≤60
Weight (kg)	145 (equipment)+25 (pump)
Ultimate vacuum (Pa/mbar)	$5/5*10^{-2}$
Maximum Condensation (kg)	4
Power (w)	950
Power Supply (V/Hz)	220/50
Dry Chamber Interior Dimesion (W*D*H)(mm)	404*374*398
Dry Chamber Capacity (L)	60
Freeze Cabinet Capacity (L)	13
Area (m^2)	0.1
Shelves	3 layers
Material Tray Diameter (mm)	Φ200
Maximum Spacing Between Material Trays (mm)	70
Exterior Dimension (W*D*H)(mm)	480*793*883 (without pump)
Packing Dimension (W*D*H)(mm)	665*900*1400 (include pump)
Temperature Curve Display	Yes
Vacuum Pump Maintenance Reminder	Yes
Screen	10.1 inch touch screen
Notepad	Yes
Account Management	Yes
USB	Yes
Penicillin Bottle	Optional
Vacuum Pump Oil	Optional
Oil Mist Filter	Optional
Certifications	CE

Freeze Dryer

Applicable to biological research, medical laboratories for drying of biotechnological and pharmaceutical products, e.g. tissues and tissue extracts, bacteria, vaccines, and sera. The product is also suitable to food research, chemical industry and other related scenarios for efficient lyophilization of samples.



DG-65Z04-10AR

Product Advantages

Automatic Parameter Storage
Intelligent storage of the freeze-drying parameters, without setting them separately each time

IoT Real-time Management
Separate account, authority management, configuration record function, data traceability, real-time monitoring of equipment status

Real Time Monitoring of Freeze-Drying Status
Check the sample freeze-drying curve at any time, and it can be adjusted immediately and in time if there are any risks

The Refrigeration Efficiency is Greatly Improved
The evaporator is located in the freezing chamber, which directly cools the sample and improves the refrigeration efficiency, it can reach-60°C within 25 minutes

Multiple Alarm Functions
Multiple alarms, including cold trap cooling overtime, vacuum pump oil replacement reminder, temperature sensor fault/cold trap temperature sensor fault, vacuum sensor fault, condenser sensor fault, ambient temperature sensor fault, abnormal refrigeration, motor overcurrent, condenser dirty blockage, vacuum alarm, heating lamp life less than 10% alarm

Ergonomic Design



Standard
Suitable for freeze-drying bulk samples



Manifolds
Suitable for freeze-drying samples in externally-attached flasks



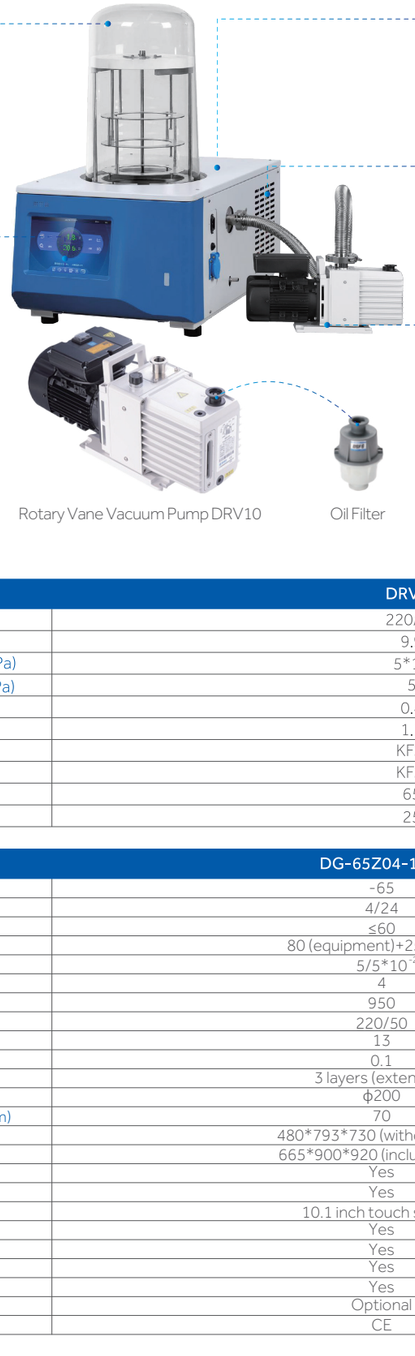
Stoppering
Suitable for freeze-drying and stoppering samples in vials



Stoppering with Manifolds
Suitable for freeze-drying and stoppering samples in vials and externally-attached flasks

Freeze Dryer

Product Parts



Specifications

Model		DRV10
Power Supply (V/Hz)		220/50
Pumping Speed (m^3/h)		9.9
Ultimate Pressure	Gas Ballast Off (Pa)	$5*10^{-1}$
	Gas Ballast On (Pa)	5
Motor Power (kw)		0.4
Required Oil (L)		1.1
Air Inlet		KF25
Air Outlet		KF25
Sound Level (db)		65
Weight (kg)		25

Model	DG-65Z04-10AR
Ice Condenser Temperature (°C)	-65
Condensation Effciency (kg/h)	4/24
Sound Level (dB(A))	≤60
Weight (kg)	80 (equipment)+25 (pump)
Ultimate Vacuum (Pa/mbar)	$5/5*10^{-2}$
Maximum Condensation (kg)	4
Power (w)	950
Power Supply (V/Hz)	220/50
Freeze Cabinet Capacity (L)	13
Area (m^2)	0.1
Shelves	3 layers (extensive)
Material Tray Diameter (mm)	ϕ200
Maximum Spacing Between Material Trays (mm)	70
Exterior Dimension (W*D*H)(mm)	480*793*730 (without pump)
Packing Dimension (W*D*H)(mm)	665*900*920 (include pump)
Temperature Curve Display	Yes
Vacuum Pump Maintenance Reminder	Yes
Screen	10.1 inch touch screen
Notepad	Yes
Account Management	Yes
USB	Yes
IoT	Yes
Penicillin Bottle	Optional
Certifcations	CE

Pilot Freeze Dryer

The pilot freeze dryer is a smaller-scale freeze-drying system used in research, product development, and small-scale production processes.



HDG-85Z10-50

Product Advantages

Precise Temperature Control

- The ±0.5°C shelf temperature accuracy allows precise adjustments tailored to your sample's needs and freeze-drying conditions.
- Benefit from ±1°C cabinet temperature accuracy, ensuring consistent freeze-drying quality across your samples.

Efficient Refrigeration Technology

- Experience rapid cold trap pull down from +20°C to -45°C in just 30 minutes, with the ability to reach ultimate temperatures of -85°C.
- Achieve simultaneous cabinet and cold trap cooling, reducing wait times and enhancing efficiency.

PLC Control, User-Friendly Control Interface

- Utilize editabl e automatic programs and multi-temperature segment control, meeting fine process requirements effortlessly.
- Navigate easily through operations with the touchscreen interface, which can connect to a PC, enabling multi-user applications.

Comprehensive Documentation

Ensure compliance with FDA 21 CFR part 11, featuring e-signature capabilities for robust documentation.

Pilot Freeze Dryer

Product Features

Suitable for Small Batch Production & Pilot Run

Shelf total size: 0.54m²

Capacity: Circa. 3.690 Penicillin bottles Φ12mm
Circa. 2.046 Penicillin bottles Φ16mm
Circa. 1.056 Penicillin bottles Φ22mm

Custom Design Options

0.2m²/ 0.4m² / 1m² can be customized according to customer demand.
Optional eutectic point test, drying end point judgment, can be connected to the sterilizer and gas backfill system, semi-customized to meet a variety of needs of users.

Automatic Stoppering Function

Experience automatic stoppering functionality, facilitated by a customized hydraulic system. ideal for small batch production needs.

Sample Safety

Rest assured. with emergency protection functions and IoT monitoring, ensure the safety of your valuable samples.

Product Performances

Model	HDG-85Z10-50
Shelf Size	0.54m²
	Penicillin Φ12mm: Circa. 3690pcs
	Penicillin Φ16mm: Circa. 2046pcs
	Penicillin Φ22mm: Circa. 1056pcs
Cold Trap Temperature (°C)	-85
Cold Trap Cooling Speed	From +20°C to -45°C in 30min
Ice Condenser Capacity (kg)	10
Shelf Temperature Uniformity (°C)	±0.5°C On same shelf
	±1°C For all shelves
Ultimate Vacuum (mbar)	0.005
Shelf Dimension (mm)	300*450
Shelf Quantity	4+1
Shelf Distance (mm)	80
Shelf Temperature (°C)	-60°C~60°C
Power (W)	5000
Exterior Dimension (W*D*H)(mm)	1550*890*1950
Weight (kg)	800
Power Supply (V/Hz)	220/50
Control System	PLC control (Touchscreen as standard, can connect with PC)
Vacuum Control	Leak control valve
Freeze Drying Curve & Records	Yes
Automated Program	Yes (Manually)
Penicillin Lid Press	Yes (Hydraulic)
N2 Back Fill System	Optional
Automatic Drainage	Yes
Frost Function	Heated water frost
IoT Monitoring	No
Sample Emergency Protection	Constantly cooling the sample when vacuum exceeds limit
FDA 21 CFR Part 11	Compliance
Drying End Point Judgment	Optional
Eutectic Point test	Optional
Sterilization	Optional for H_2O_2 sterilizer
IQ/OQ Confirmation	Optional
Certifications	CE

Laboratory Freeze Dryer

Bench-Top



HDG-86Z03-12T

Floor-Standing



HDG-86Z04-12



HDG-86Z06-18

The laboratory freeze-dryer is designed for laboratory research and sample preparation, and there are five types of design that can meet different needs.

Product Features

Offering different choices of ice condenser capacity: 3, 4, 6 kg per 24 hours

Rapid cooling to temperatures as low as -90°C

Environmentally-friendly HC refrigeration system

Optimal process control for quick and reliable freeze-drying

Real time display of sample temperature, vacuum curve, and cold trap temperature curve

Laboratory Freeze Dryer

Ergonomic Design



7" touchscreen display for intuitive operation

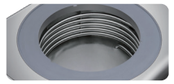


Vacuum relief valve/Drain valve





Clear acrylic chamber for easy viewing



Easy to clean anti-corrosion cold trap and shelves



USB port to download operational data

Multiple Freeze-Drying Chamber Options



Standard — Suitable for freeze-drying bulk samples



Stoppering — Suitable for freeze-drying and stoppering samples in vials



Manifolds — Suitable for freeze-drying samples in externally-attached flasks



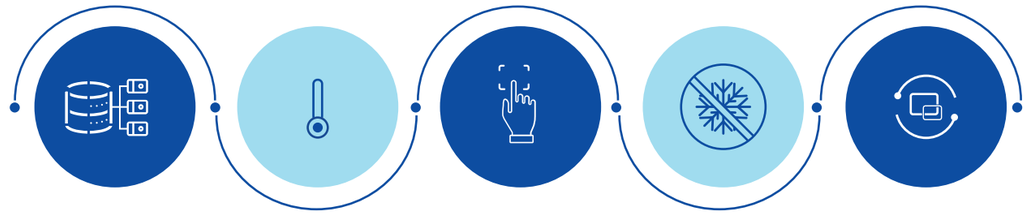
Stoppering with Manifolds — Suitable for freeze-drying and stoppering samples in vials and externally-attached flasks



T-Type — Suitable for freeze-drying samples in ampoule bottle and externally-attached flasks

Laboratory Freeze Dryer

Freeze-Drying Function Options



- Shelf Heating System
- Eutectic Point Detector
- Freeze-Drying Automatic Control System
- Auto-Defrost
- Remote Monitoring

Specifications

Model	HDG-86Z03-12T	HDG-86Z04-12	HDG-86Z06-18
Type	Bench-Top	Floor-Standing	Floor-Standing
Area (m2)	0.12/0.09	0.12/0.09	0.18/0.09
Ice Condenser Temperature (°C)	-86	-86	-86
Ice Condenser Capacity (kg)	3	4	6
Condensation Efficiency (kg/24h)	3	4	6
Maximum Vacuum (Pa)	≤ 5	≤ 5	≤ 5
Shelf Diameter (mm)	ϕ200	ϕ200	ϕ240/ϕ240
Number of Shelves	4/3	4/3	4/3
Distance Between Shelves (mm)	70	70	70
Freeze Chamber Dimension (mm)	ϕ300*150	ϕ300*210	ϕ340*250
Power Supply (V/Hz)	220V/50Hz	220V/50Hz	220V/50Hz
Power (W)	950	980	1000
Exterior Dimension (W*D*H) (mm)	406*550*430	406*550*720	645*600*720
Weight (kg)	44	50	60

Haier Biomedical
Intelligent Protection of Life Science





Consumables Solutions for ULT Freezer

Lab Consumables Storage Solutions

Freezer Storage Racks

Haier Biomedical offers a full line of freezer storage racks to help making efficient use of space in chest and upright freezers, deep freezers, and ultra-low temperature freezers.
Normally, freezer racks may have horizontal access (for upright freezers) or vertical openings (for chest freezers). For optimal storage, client can choose racks designed to fit the particular freezer model or product.



Product Features

- Manufactured using advanced capacitor energy storage resistance welding to product solid weld with smooth finish
- Various specifications for different storage requirements-frozen storage tube (box), SBS frozen storage tube (box), centrifugal tube, etc
- Handle is designed to reduce frost and ice build-up around handle
- Customised racking is available for different types of storage containers or models of freezer, contact us for more information

Freezer Storage Racks

Drawer Freezer Rack	CAT.NO.	Model	Material	Adapte	Packing
	433001	(EXP)DCJ-55-B(SUS201)	SUS201	133*133*53mm box	1 pcs/ case
	433002	(EXP)DCJ-55-B(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433003	(EXP)DCJ-54-B(SUS201)	SUS201	133*133*53mm box	1 pcs/ case
	433004	(EXP)DCJ-54-B(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433005	(EXP)DCJ-53-B(SUS201)	SUS201	133*133*53mm box	1 pcs/ case
	433006	(EXP)DCJ-53-B(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433007	(EXP)DCJ-44-B(SUS201)	SUS201	133*133*53mm box	1 pcs/ case
	433008	(EXP)DCJ-44-B(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	434040	(EXP)DCJ-45-B(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	434041	(EXP)DCJ-33-B(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433009	(EXP)DCJ-35-B(3 inch/SUS304)	SUS304	133*133*94mm box	1 pcs/ case
	433010	(EXP)DCJ-34-B(3 inch/SUS304)	SUS304	133*133*94mm box	1 pcs/ case
	433011	(EXP)DCJ-75-B(SUS304)	SUS304	133*133*37mm box	1 pcs/ case

Side-access Freezer Rack	CAT.NO.	Model	Material	Adapte	Packing
	433012	(EXP)DCJ-55-A(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433013	(EXP)DCJ-54-A(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433037	(EXP)DCJ-53-A(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433014	(EXP)DCJ-35-A(3 inch/SUS304)	SUS304	133*133*94mm box	1 pcs/ case
	433015	(EXP)DCJ-34-A(3 inch/SUS304)	SUS304	133*133*94mm box	1 pcs/ case
	433016	(EXP)DCJ-44-A(SUS304)	SUS304	133*133*53mm box	1 pcs/ case

SBS Freezer Rack	CAT.NO.	Model	Material	Adapte	Packing
	433017	(EXP)DCJ-57-B(SUS304)	SUS304	86*128*50.8mm box	1 pcs/ case
	433018	(EXP)DCJ-77-B(SUS304)	SUS304	86*128*38.5mm box	1 pcs/ case
	433019	(EXP)DCJ-56-B(SUS304)	SUS304	86*128*50.8mm box	1 pcs/ case
	433020	(EXP)DCJ-57-B(SUS201)	SUS201	86*128*50.8mm box	1 pcs/ case
	433021	(EXP)DCJ-77-B(SUS201)	SUS201	86*128*38.5mm box	1 pcs/ case
	433022	(EXP)DCJ-56-B(SUS201)	SUS201	86*128*50.8mm box	1 pcs/ case

Vertical Freezer Rack	CAT.NO.	Model	Material	Adapte	Packing
	433023	(EXP)DCJ-6-A(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433025	(EXP)DCJ-8-A(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433026	(EXP)DCJ-10-A(SUS304)	SUS304	133*133*53mm box	1 pcs/ case
	433028	(EXP)DCJ-12-A(SUS304)	SUS304	133*133*53mm box	1 pcs/ case

Centrifuge Tube Freezer Rack	CAT.NO.	Model	Material	Adapte	Packing
	433029	(EXP)SDCJ-15ml	SUS304	15ml centrifuge tube	1 pcs/ case
	433030	(EXP)SDCJ-50ml	SUS304	50ml centrifuge tube	1 pcs/ case

Barcode Cryogenic Tubes and Storage Boxes

Haier Biomedical can provide a range of high quality cryogenic storage tubes , which can withstand the extremes of cryogenic conditions while protecting the valuable samples. Meanwhile the Haier Biomedical cryogenic storage tubes have high compatibility with above freezer storage racks and ULT freezers, meeting the client's one-stop demands.



Product Features

- Rigorous cytoxicology-testing ensures pyrogen, RNase, DNase and endotoxins levels are less than 0.005EU/mL
- Complying with ANSI/SLAS international standards, suitable for a variety of automated storage and processing equipment
  Laser etching process and three-code information integration technology are adopted to ensure the security and redundancy to provide an extra layer of protection
- The snap design of the base is easy to use and prevents scratches after freezing
- Designed and manufactured to prevent leakage at -98kpa to meet the IATA dangerous goods PI650 standard





Universal Cryogenic Tubes and Storage Boxes

Cryogenic Tube

CAT.NO.	Volume (mL)	Material	Specification	Type	Sterile	Packing
413032	0.5	PP	SBS 12x8	box-packed	√	96 pcs/box, 80 boxes/ case
413033	0.75	PP	SBS 12x8	box-packed	√	96 pcs/box, 70 boxes/ case
413034	1.0	PP	SBS 12x8	box-packed	√	96 pcs/ box, 50 boxes/ case
413004	2.0	PP	SBS 6x8	box-packed	√	48 pcs/ box, 50 boxes/ case
413005	2.0	PP	10x10	box-packed	√	100 pcs/ box, 30 boxes/ case
413006	0.5	PP	/	bag-packed	√	220 pcs/ bag 60 bags/ case
413007	1.0	PP	/	bag-packed	√	150 pcs/ bag 40 bags/ case
413008	2.0	PP	/	bag-packed	√	70 pcs/ bag 50 bags/ case

* External cap , triple code, white code on black background

SBS Box

CAT.NO.	Adapte	Material	Specification	Packing
413009	0.5 ml SBS Tube	PC+ABS	SBS 8x12	80 boxes/ case
413010	0.75 ml SBS Tube	PC+ABS	SBS 8x12	70 boxes/ case
413011	1.0 ml SBS Tube	PC+ABS	SBS 8x12	50 boxes/ case
413012	2.0 ml SBS Tube	PC+ABS	SBS 6x8	50 boxes/ case
413013	2.0 ml SBS Tube	PC+ABS	10x10	30 boxes/ case

Cryogenic Storage Series

High Speed Batch Scanner

Cryo tubes can withstand ultra-low temperature refrigerator environment, no deformation under low temperature environment, tigh_x0002_tly closed tube mouth, low risk of contamination. The multi-colored caps are designed for easy sample differentiation.



- Temperature Range: -196 ℃ ~ 121 ℃

Internal thread tube:



Concave cap
(color code inset possible)

External thread tube:



Automated cap



Flat cap



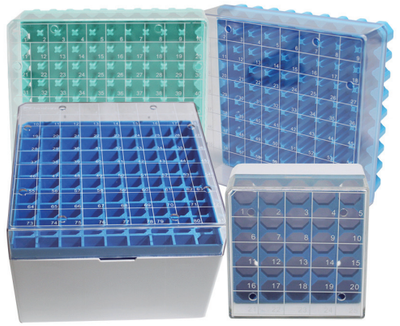
Concave cap
(color code inset possible)

External thread	CAT.NO.	Volume (mL)	Material	Cap	Sterile	Packing
	423010	0.5	PP	Flat cap	√	100pcs/bag, 10bags/case
	423016	0.5	PP	Flat cap	√	100pcs/ box, 12 boxes/ case
	423011	1.5	PP	Flat cap	√	100pcs/bag, 10bags/ case
	423017	1.5	PP	Flat cap	√	100pcs/ box, 12 boxes/ case
	423032	0.5	PP	Automated cap	√	100pcs/bag, 20bags/ case
	423038	0.5	PP	Automated cap	√	100pcs/ box, 30 boxes/ case
	423028	1.0	PP	Automated cap	√	100pcs/bag, 20bags/ case
	423026	1.0	PP	Automated cap	√	100pcs/ box, 30 boxes/ case
	423035	1.5	PP	Automated cap	√	100pcs/bag，20bags/ case
	423041	1.5	PP	Automated cap	√	100pcs/ box, 30 boxes/ case
	423029	2.0	PP	Automated cap	√	100pcs/bag, 20bags/ case
	423027	2.0	PP	Automated cap	√	100pcs/ box, 30 boxes/ case
	423012	2.0	PP	Concave cap	√	100pcs/bag, 10bags/ case
	423013	5.0	PP	Concave cap	√	100pcs/bag, 10bags/ case

Internal thread	CAT.NO.	Volume (mL)	Material	Cap	Sterile	Packing
	423014	1.0	PP	Concave cap	√	100pcs/bag, 10bags/ case
	423015	2.0	PP	Concave cap	√	100pcs/bag, 10bags/ case

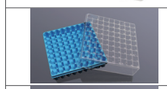
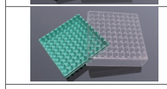
Cryogenic Storage Series

Cryogenic Box



- Specifications: 25/81/100 wells
- Temperature Range: -196 ℃ ~ 121 ℃

Paper Box	CAT.NO.	Type	Specifications	Adapte	Packing
	423001	9*9	133*133*53mm White	0.5-2.0ml	50 boxes/case
	423002	10*10	133*133*53mm White	0.5-2.0ml	50 boxes/case

PC Box	CAT.NO.	Type	Specifications	Adapte	Packing
	422005	5*5	73*73*53mm Clear box cover, Blue center plate, white base	0.5-2.0ml	50 boxes/case
	422012	9*9	133*133*53mm Clear box cover, Blue base	0.5-2.0ml	50 boxes/case
	422013	10*10	133*133*53mm Clear box cover, Green base	0.5-2.0ml	50 boxes/case
	422014	9*9	133*133*94mm Clear box cover, Blue center plate, White base	5.0ml	24 boxes/case

High Speed Batch Scanner

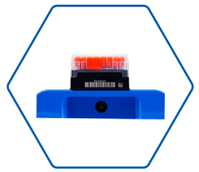
Haier Biomedical high speed batch scanner can be used to scan various specifications of boxed prefabricated code cryogenic tubes, 1S high-speed identification of sample information, to achieve efficient management of sample.





Intelligent induction tube box, automatic light filling, multi environment adaptation.

Tube bottom code and box code synchronous reading, three-dimensional construction data.





Detachable module design, compatible with SBS, square and other multi-specification cryogenic box.

Module anti-loss hook design, prevent module placement and loss trouble.



CAT.NO	Description	Quantity	Package
445005	Batch scanning, high-speed scanning, side code scanning, suitable SBS freezer box	1	1 set/case
445007	Batch high-speed scanning, top scanning model, suitable for 10*10/9*9 top labeled freezer box	1	1 set/case

Single Tube Scanner

Haier Biomedical single tube scanner is flexible and quick to scan the samples information.





Wireless communication distance up to 30 meters, easy to identify mobile scene information.

Support battery charging and replacement, a saturated charge can work for 20 hours or standby for 50 hours.





Excellent DPM code reading ability, suitable for all kinds of precision code recognition, fast and accurate.

CAT.NO	Description	Quantity	Package
445012	Wireless handheld scanner, provide single cryogenic tube or cryogenic box, scanner recognition one-dimensional code/ two-dimensional code function, plug and play	1	1 set/case
445013	Handheld scanner, provide single cryogenic tube or cryogenic box, scanner recognition one-dimensional code/two-dimensional code function, plug and play	1	1 set/case
445053	Desktop scanner, provide single cryogenic tube or cryogenic box, scanner recognition one-dimensional code/two-dimensional code function, plug and play	1	1 set/case

Batch Cover Opener

Haier Biomedical batch cover opener opens or closes the multi-channel cap improves the efficiency compared to manual operation and reduces the risk of contact with biochemical reagents and safety risks.



- Multi-channel synchronized cap opening, up to 8 channels at a time
- Push-key design for quick and easy cap removal
- Rack storage, convenient storage of opened batch caps

CAT.NO.	Description	Quantity	Package
445016	8-channel, hand-held, for SBS 96 boxed cryo-tubes;	1	1 set/case
445020	6-channel, hand-held, for SBS 48/24 boxed cryo-tubes;	1	1 set/case

Product Portfolio

Cryo Freezer



DW-150W209

-86°C ULT Freezer



DW-86L728BPSTR



DW-86L100STL



DW-86L730/830BPT



DW-86L579BP/729BP
DW-86L829BP/959BP



DW-86L578BPST
DW-86L728BPST
DW-86L828BPST

Water Cooling Freezer



DW-86L579BPT/729BPT
DW-86L829BPT/959BPT



DW-86L828W



DW-86L959W



DW-86L419/579
DW-86L729/829



DW-86L338J
DW-86L338JA



DW-86L388J



DW-86L490J
DW-86L490JA



DW-86L578J
DW-86L578JA



DW-86L728J
DW-86L728JA



DW-86L828J
DW-86L828JA



DW-86L486E



DW-86L628E



DW-86L51J



DW-86L100J

Chest



DW-86W100J



DW-86W420J
DW-86W420JA

Product Portfolio

Mini ULT Freezer



DW-80WZ15

Controlled Rate Freezer



CJ-L19/L37/L54

Backup System



HBX-IC HBX-IIA

Freeze Dryer



DG-65Z04-10A DG-65Z04-10AR

Pilot Freeze Dryer



HDG-85Z10-50

Laboratory Freeze Dryer



HDG-86Z03-12T
HDG-86Z04-12
HDG-86Z06-18

Freezer Storage Racks



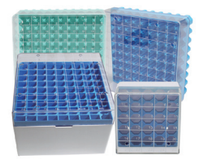
Barcode Cryogenic Tubes and Storage Boxes



Universal Cryogenic Tubes and Storage Boxes



Cryogenic Storage Series



High Speed Batch Scanner



Single Tube Scanner



Batch Cover Opener

