



TwinCool
ULT Freezer

Scope of Application

The TwinCool ULT freezer can be used for the storage and protection of valuable samples which require strict and continuous storage conditions, designed to operate even in the event of a compressor failure. Suitable for viruses, pathogens, blood cells and other biological sample cold storage applications found within hospitals, disease control, research institutions and biomedical engineering. Also used to store special materials and other products within electronics and chemicals industries.

Advanced Hardware System



Smart Full-size Touch Screen

10-inch touch screen with state-of-the-art user interface design, coupled with a sample management system which provides an optimal user experience.

A Dual independent refrigeration systems for maximum sample safety

The dual refrigeration systems run independently and alternately, both reaching -80°C, such that if one system fails the other will maintain temperature to ensure sample storage safety.

B High speed refrigeration system for faster pull down and temperature recovery after door opening

Utilizing auto-cascade hydrocarbon (HC) refrigeration technology to deliver fast temperature pull down. From an ambient of 25°C it takes just 240 minutes to reach -80°C. It provides a quick temperature recovery to -75°C within 30 minutes after door opening for 1 minute, guaranteeing safety of samples.

C World-leading energy saving refrigeration technology

The HC refrigeration technology coupled with superinsulation, increases the insulation efficiency by 30%, and the cabinet is designed to reduce heat loss ensuring an energy efficient freezer. The 578L model has a power consumption of 10 kWh/day and is certified by The National Quality Certification Center for Energy Saving and Environmental Protection.

IoT Software System (Optional)



Simplified Sample Management Experience

Barcode scanner for simple, effortless and precise identification. Input and retrieve your samples with higher precision and efficiency



Wireless Monitoring Connectivity

Check the real-time operating status via mobile phones or portable tablet, simple and reliable.

Friendly 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 50dB(A)

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



Cloud data storage available

Store hundreds of millions of scientific research and sample information in the cloud server



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 30%

Specifications

Model	DW-86L578ST	DW-86L578SAT	DW-86L728ST	DW-86L728SAT			
Technical Data	Cabinet Type	Upright	Upright	Upright	Upright		
	Climate Class	N	N	N	N		
	Cooling Type	Direct cooling	Direct cooling	Direct cooling	Direct cooling		
	Defrost Mode	Manual	Manual	Manual	Manual		
	Refrigerant	HC	HC	HC	HC		
Performance	Sound Level (dB(A))	50 52	53	50 53	53		
	Cooling Performance (°C)	-86	-86	-86	-86		
Control	Temperature Range (°C)	-40~-86	-40~-86	-40~-86	-40~-86		
	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor		
Electrical Data	Display	LCD Touchscreen	LCD Touchscreen	LCD Touchscreen	LCD Touchscreen		
	Power Supply (V/Hz)	208~230/50 120/60	208~230/60	208~230/50 120/60	208~230/60		
	Power (W)	1600 1400	1800	1800 1400	1800		
	Electrical Current (A)	10 14	10	10 14	10		
Construction	Power Consumption (kWh/24h)	10 12	10	10.5 11	12		
	Capacity (L/Cu.Ft)	578/20.4	578/20.4	728/25.7	728/25.7		
	Net/Gross Weight (approx)	kg	325/355	325/355	350/385	350/385	
		lbs	716.5/782.6	716.5/782.6	771.6/848.8	771.6/848.8	
	Interior Dimension (W*D*H)	mm	620*716*1310	620*716*1310	766*716*1310	766*716*1310	
		in	24.4*28.2*51.6	24.4*28.2*51.6	30.2*28.2*51.6	30.2*28.2*51.6	
Exterior Dimension (W*D*H)	mm	895*998*1980	895*998*1980	1046*998*1980	1046*998*1980		
	in	35.4*39.3*78.0	35.4*39.3*78.0	41.2*39.3*78.0	41.2*39.3*78.0		
Packing Dimension (W*D*H)	mm	950*1055*2150	950*1055*2150	1100*1105*2150	1100*1105*2150		
	in	37.4*41.5*84.6	37.4*41.5*84.6	43.3*43.5*84.6	43.3*43.5*84.6		
Loading Quantities	Container Load (20'/40'/40'H)	12/24/24	12/24/24	10/20/20	10/20/20		
Alarms	High/Low Temperature	Y	Y	Y	Y		
	Hot Condenser	Y	Y	Y	Y		
	Power Failure	Y	Y	Y	Y		
	High/Low Voltage	Y	Y	Y	Y		
	Sensor Error	Y	Y	Y	Y		
	Low Battery	Y	Y	Y	Y		
	High Ambient Temperature	Y	Y	Y	Y		
	Door Ajar	Y	Y	Y	Y		
	Caster	Y	Y	Y	Y		
Accessories	Foot	Y	Y	Y	Y		
	Porthole	Y/2	Y/2	Y/2	Y/2		
	Shelves/Inner Doors	3/4	3/4	3/4	3/4		
	USB Interface	Y	Y	Y	Y		
	Remote Alarm (Dry contacts)	Y	Y	Y	Y		
	5V Power Supply Port	Y	Y	Y	Y		
	Temperature Recorder	Optional	Optional	Optional	Optional		
	RS485 Port	Y	Y	Y	Y		
	CO ₂ Backup System	Optional	Optional	Optional	Optional		
LN ₂ Backup System	Optional	Optional	Optional	Optional			
Certifications	CE	Y	/	/	Y	/	/
	UL	/	Y	Y	/	Y	Y
	ENERGY STAR	Y	Y	Y	Y	Y	Y

Product appearance and specifications are subject to change without notice

The TwinCool ultra-low temperature freezer of Haier Biomedical provides the highest level of protection for your valuable samples.



DW-86L578S

Safer by Design

Haier Biomedical's ultra low temperature freezers with intelligent TwinCool technology are designed to provide optimal cabinet reliability, longevity, efficiency and sample protection. This super efficient technology also improves the energy efficiency of our third generation ULT freezers and leads the way in terms of product innovation.

Intelligent TwinCool Refrigeration System

Two independent refrigeration systems are designed to ensure optimal reliability, longevity and efficiency. Depending on the load demands and ambient conditions, one or both refrigeration systems will operate on demand, ensuring the samples are fully protected under the worst possible condition.



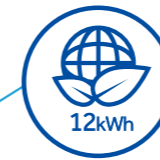
Maximum Sample Security

TwinCool system means extra insurance for temperature. Each independent refrigeration system can maintain -80°C separately.



Fast Cabinet Pull Down

Fast and efficient cabinet pulldown, it usually takes an average of three hours to reach -80°C at 25°C ambient. This means the temperature recovery after door opening is excellent ensuring the stored samples are not exposed to undesirable temperatures.



Maximum Energy Efficiency

The TwinCool ultra-low temperature system operates with 12 kWh/day.



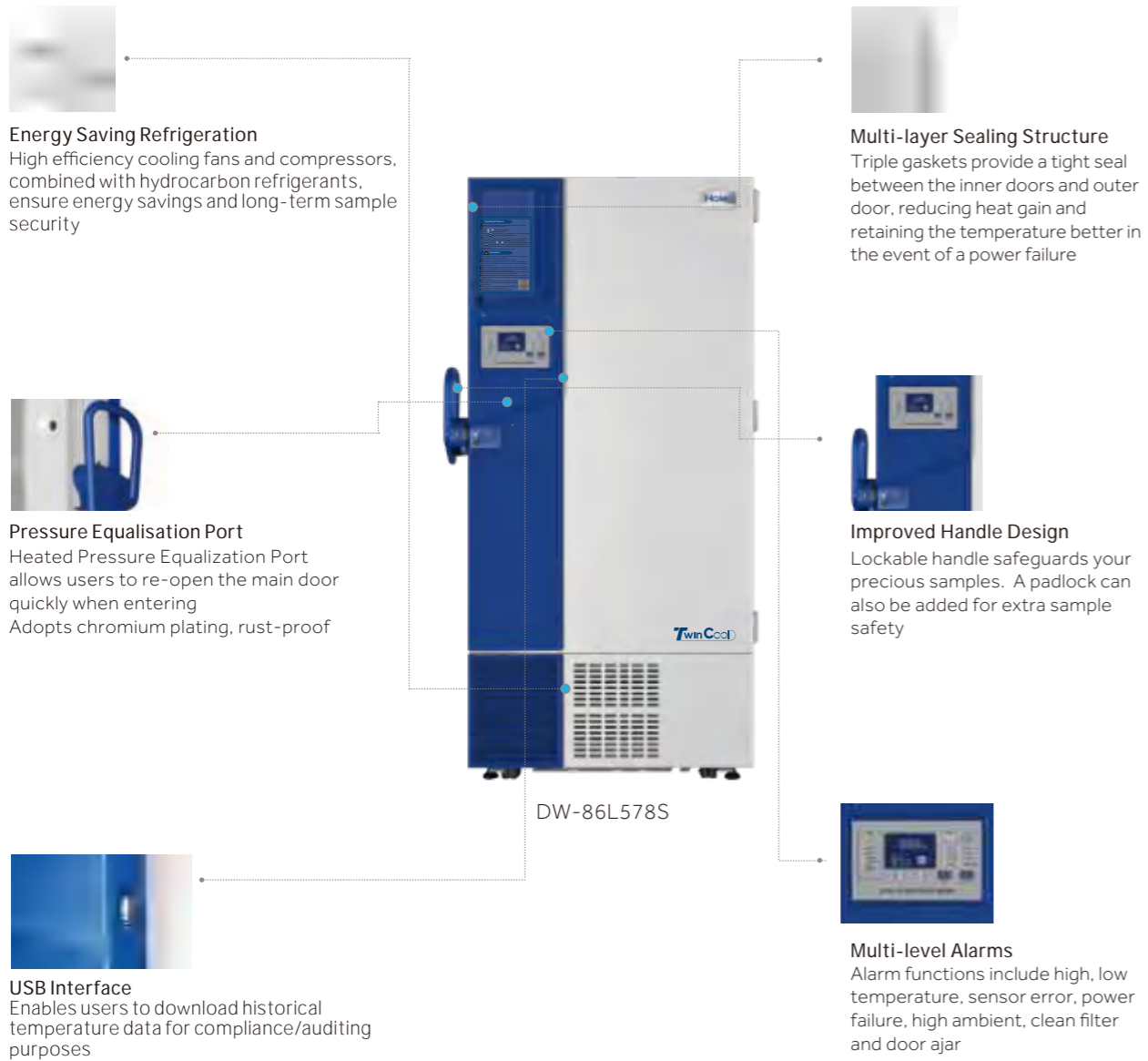
World-leading Energy Saving Refrigeration Technology

The Haier hydrocarbon refrigeration technology uses less than 50% energy compared to traditional CFC refrigerants to reduce the operating cost. The refrigerants do not contain fluorine or chlorine giving it a GWP value of just three, which is better for the environment.

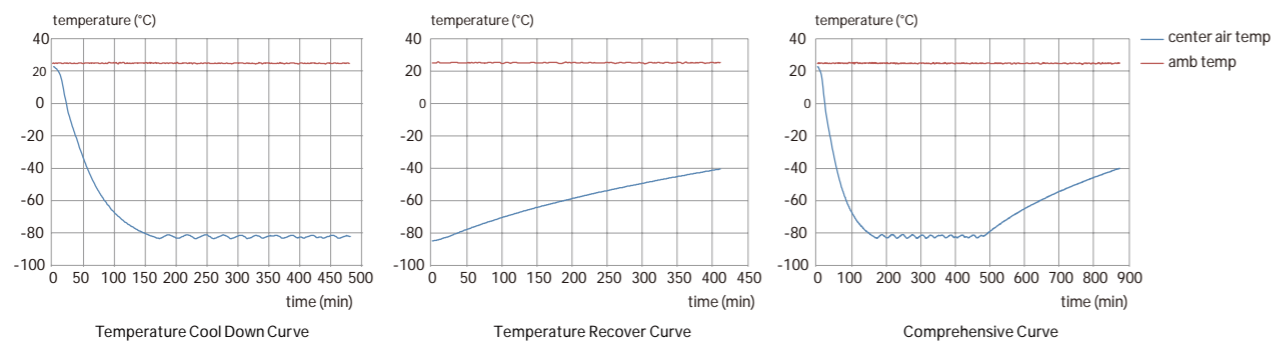


Reduced Running Costs

VIP thermal insulation system is designed to significantly reduce heat gain and operating cost.



DW-86L578S | TYPICAL PERFORMANCE CHARACTERISTICS AT 25°C AMBIENT



Specifications

Model	DW-86L578S	DW-86L728S
Technical Data		
Cabinet Type	Upright	Upright
Climate Class	N	N
Cooling Type	Direct Cooling	Direct Cooling
Defrost Mode	Manual	Manual
Refrigerant	HC	HC
Sound Level (dB(A))	53	50
Performance		
Cooling Performance (°C)	-86	-86
Temperature Range (°C)	-40~-86	-40~-86
Control		
Controller	Microprocessor	Microprocessor
Display	LED	LED
Electrical Data		
Power Supply (V/Hz)	208~230/50	208~230/50
Power (W)	1600	1800
Electrical Current (A)	10	10
Power Consumption (kWh/24h)	10	10.5
Construction		
Capacity (L/Cu.Ft)	578/20.4	728/25.7
Net/Gross Weight (approx)	kg	325/355
	lbs	716.5/782.6
Interior Dimension (W*D*H)	mm	620*716*1310
	in	24.4*28.2*51.6
Exterior Dimension (W*D*H)	mm	895*998*1980
	in	35.4*39.3*78.0
Packing Dimension (W*D*H)	mm	950*1055*2150
	in	37.4*41.5*84.6
Loading Quantities		
Container load (20'/40'/40'H)	12/24/24	10/20/20
Alarms		
High/Low Temperature	Y	Y
Hot Condenser	Y	Y
Power Failure	Y	Y
Sensor Error	Y	Y
Low Battery	Y	Y
High Ambient Temperature	Y	Y
Door Ajar	Y	Y
Accessories		
Caster	Y	Y
Foot	Y	Y
Porthole	Y/2	Y/2
Shelves/Inner doors	3/4	3/4
USB Interface	Y	Y
Remote Alarm (Dry contacts)	Y	Y
5V Power Supply Port	Y	Y
Temperature Recorder	Optional	Optional
RS485	Y	Y
CO ₂ Backup System	Optional	Optional
LN ₂ Backup System	Optional	Optional
Certifications		
CE	Y	Y
ENERGY STAR	Y	Y

S suffix - Dual independent refrigeration systems

Product appearance and specifications are subject to change without notice



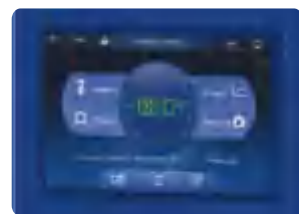
Frequency
Conversion
ULT Freezer



Scope of Application

Applicable for products and samples which require strict storage conditions such as viruses, pathogens, red blood cells, white blood cells, skin, bones, bacteria, semen, biological products, electronics and special materials. 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, agriculture/ fishery companies as well as the electronics and chemical industry.

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 superior energy savings. The energy consumption is down to a single digit.

Optional IoT Software System



Simplified Sample Management Experience

Optional barcode scanner for simple, effortless and precise identification. Input and retrieve your samples with higher precision and efficiency



Wireless Monitoring Connectivity

Check the real-time operating status via mobile phones or portable tablet, simple and reliable.

A Quicker product access, identification and retrieval

Instead of a manual system, the one-gun, one-code and one-key operation plus touch screen synchronization means you can access and retrieve your samples within seconds

B 24-hour sample protection

Using Haier Biomedical's app and IoT technology the unit can be monitored and can self-diagnose faults, ensuring you are always aware of your unit's status and able to make real-time and informed choices to protect your samples.

C Cloud data storage available

Store hundreds of millions of scientific research and sample information in the cloud server

Friendly Design



Safe and secure

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



Low noise design, reducing the noise down to 53dB

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	
	Climate Class	N	N	N	N	
	Cooling Type	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling	
	Defrost Mode	Manual	Manual	Manual	Manual	
	Refrigerant	HC	HC	HC	HC	
	Sound Level (dB(A))	43.5	43.5	43.5	47	
Performance	Cooling Performance (°C)	-86	-86	-86	-86	
	Temperature Range (°C)	-40~-86	-40~-86	-40~-86	-40~-86	
Control	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	
	Display	LCD Touchscreen	LCD Touchscreen	LCD Touchscreen	LCD Touchscreen	
Electrical Data	Power Supply (V/Hz)	100~230/50/60	100~230/50/60	208~230/50/60	208~230/50/60	
	Power (W)	1100	1100	1100	1300	
	Electrical Current (A)	6	6	6	7	
	Power Consumption (kWh/24h)	7.5	8	8.2	9.8	
Construction	Capacity (L/Cu.Ft)	579/20.4	729/25.7	829/29.2	959/33.9	
	Net/Gross Weight (approx)	kg	325/355	350/385	380/415	450/485
		lbs	716.5/782.6	771.6/848.8	837.7/914.9	992.1/1069.2
	Interior 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		35.4*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	950*1055*2150	1100*1105*2150	1190*1045*2150	1365*1105*2150	
	in	37.4*41.5*84.6	43.3*43.5*84.6	46.9*41.1*84.6	53.7*43.5*84.6	
Loading Quantities	Container load (20'/40'/40'H)	12/24/24	10/20/20	9/20/20	8/16/16	
	High/Low Temperature	Y	Y	Y	Y	
Alarms	Hot Condenser	Y	Y	Y	Y	
	Power Failure	Y	Y	Y	Y	
	High/Low Voltage	Y	Y	Y	Y	
	Sensor Error	Y	Y	Y	Y	
	Low Battery	Y	Y	Y	Y	
	High Ambient Temperature	Y	Y	Y	Y	
	Door Ajar	Y	Y	Y	Y	
	Caster	Y	Y	Y	Y	
	Foot	Y	Y	Y	Y	
	Porthole	Y/2	Y/2	Y/2	Y/2	
Accessories	Shelves/Inner Doors	3/4	3/4	3/4	3/4	
	USB Interface	Y	Y	Y	Y	
	Remote Alarm (Dry contacts)	Y	Y	Y	Y	
	5V Power Supply Port	Y	Y	Y	Y	
	Temperature Recorder	Optional	Optional	Optional	Optional	
	RS485 Port	Y	Y	Y	Y	
	CO ₂ Backup System	Optional	Optional	Optional	Optional	
	LN ₂ Backup System	Optional	Optional	Optional	Optional	
	Certifications	CE	Y	Y	Y	Y
		UL	Y	Y	Y	Y
ENERGY STAR		Y	Y	Y	Y	

BP suffix - Variable frequency inverter compressor
 T suffix - Advanced with touchscreen
 Product appearance and specifications are subject to change without notice

Haier Biomedical's smart frequency 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 smart frequency 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 $\pm 3^{\circ}\text{C}$.



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).

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

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

Multilayered Sealing Structure
Triple layer of gaskets split between main and inner doors decreases heat loss and guarantee excellent warm up times in the event of a power failure

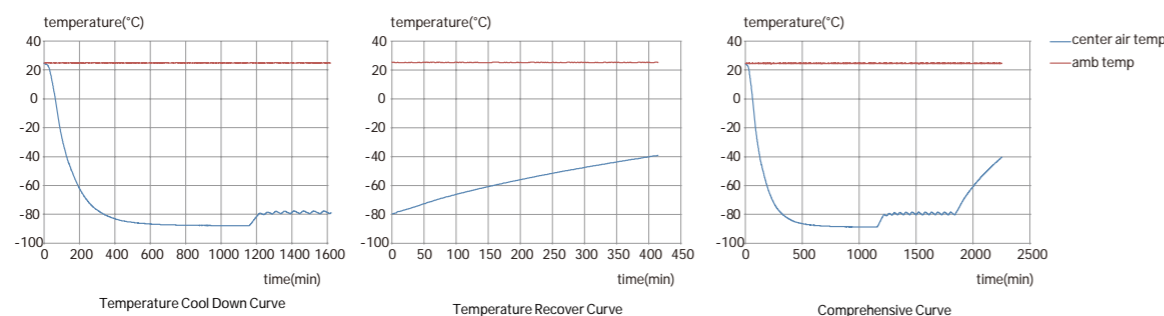
Improved Handle Design
Lockable handle with unique key prevents other Haier freezer owner's access to your precious samples, also comes with space for a padlock for that extra security

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

Multilevel Alarms
Alarming functions that include high and low temperature, sensor error, power failure, high ambient, clean filter and door ajar

DW-86L829BP

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



Specifications

	Model	DW-86L579BP	DW-86L729BP	DW-86L829BP	DW-86L959BP	
Technical Data	Cabinet Type	Upright	Upright	Upright	Upright	
	Climate Class	N	N	N	N	
	Cooling Type	Direct Cooling	Direct Cooling	Direct Cooling	Direct Cooling	
	Defrost Mode	Manual	Manual	Manual	Manual	
	Refrigerant	HC	HC	HC	HC	
	Sound Level (dB(A))	43.5	43.5	43.5	47	
Performance	Cooling Performance (°C)	-86	-86	-86	-86	
	Temp Range (°C)	-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	208~230/50/60	
	Power (W)	1100	1100	1100	1300	
	Electrical Current (A)	6	6	6	7	
	Power Consumption (kWh/24h)	7.5	8	8.2	9.8	
Construction	Capacity (L/Cu.Ft)		579/20.4	729/25.7	829/29.2	959/33.9
		Net/Gross Weight (approx)	kg	325/355	350/385	380/415
	Interior Dimensions (W*D*H)	lbs	716.5/782.6	771.6/848.8	837.7/914.9	992.1/1069.2
		mm	620*716*1310	766*716*1310	870*716*1310	1016*716*1310
	Exterior Dimensions (W*D*H)	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
		mm	895*998*1980	1046*998*1980	1145*998*1980	1296*998*1980
	Packing Dimension (W*D*H)	in	35.4*39.3*78.0	41.2*39.3*78.0	45.1*39.3*78.0	51.0*39.3*78.0
		mm	950*1055*2150	1100*1105*2150	1190*1045*2150	1365*1105*2150
Loading Quantities	in	37.4*41.5*84.6	43.3*43.5*84.6	46.9*41.1*84.6	53.7*43.5*84.6	
	Container Load (20'/40'/40'H)	12/24/24	10/20/20	9/20/20	8/16/16	
Alarms	Remote Alarm (Dry contacts)	Y	Y	Y	Y	
	High/Low Temp	Y	Y	Y	Y	
	Hot Condenser	Y	Y	Y	Y	
	Power Failure	Y	Y	Y	Y	
	Sensor Error	Y	Y	Y	Y	
	Low Battery	Y	Y	Y	Y	
	High Ambient Temp	Y	Y	Y	Y	
	Door Ajar	Y	Y	Y	Y	
Accessories	Caster	Y	Y	Y	Y	
	Foot	Y	Y	Y	Y	
	Porthole	Y/2	Y/2	Y/2	Y/2	
	Shelves/ Inner Doors	3/4	3/4	3/4	3/4	
	USB Interface	Y	Y	Y	Y	
	5V Power Supply Port	Y	Y	Y	Y	
	Temp Recorder	Optional	Optional	Optional	Optional	
	RS485 Port	Y	Y	Y	Y	
Certifications	CO ₂ Backup System	Optional	Optional	Optional	Optional	
	LN ₂ Backup System	Optional	Optional	Optional	Optional	
	CE	Y	Y	Y	Y	
	UL	Y	Y	Y	Y	
	ENERGYSTAR	Y	Y	Y	Y	

BP suffix - Variable frequency inverter compressor
Product appearance and specifications are subject to change without notice

Haier Biomedical 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 posing little impact to a laboratory's ambient
- 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	
	Climate Class	N	N	
	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 Touchscreen	
Electrical Data	Power Supply (V/Hz)	208~230/50/60	208~230/50/60	
	Power (W)	1100	1300	
	Electrical Current (A)	6	7	
	Power Consumption (kWh/24h)	8.2	9.8	
	Capacity (L/Cu.Ft)	828/29.2	959/33.9	
Construction	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	1190*1045*2150	1365*1105*2150	
	in	46.9*41.1*84.6	53.7*43.5*84.6	
Loading Quantities	Container Load (20'/40'/40'H)	9/20/20	8/16/16	
	High/Low Temperature	Y	Y	
Alarms	Hot Condenser	Y	Y	
	Power Failure	Y	Y	
	High/Low Voltage	Y	Y	
	Sensor Error	Y	Y	
	Low Battery	Y	Y	
	High Ambient Temperature	Y	Y	
	Door Ajar	Y	Y	
	Caster	Y	Y	
Accessories	Foot	Y	Y	
	Porthole	Y/2	Y/2	
	Shelves/Inner doors	3/4	3/4	
	USB Interface	Y	Y	
	Remote Alarm (Dry contacts)	Y	Y	
	5V Power Supply Port	Y	Y	
	Temperature Recorder	Optional	Optional	
	Rs485 Port	Y	Y	
	CO ₂ Backup System	Optional	Optional	
	LN ₂ Backup System	Optional	Optional	
Certification	CE	Y	Y	

Product appearance and specifications are subject to change without notice

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.

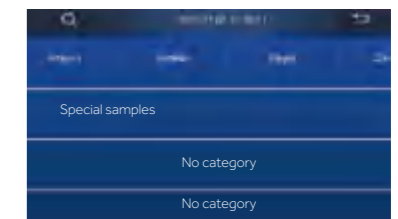


Large Intelligent LCD Screen Visual Management

10-inch high-performance LCD capacitive screen, sensitive touch operation; intuitive display of inside temperature, ambient temperature, input voltage and other data and temperature curves.

Inventory Management System

The single version of the inventory management allows users who do not have a racking system within the freezer to easily record item locations, entry and exit records.



Single version (standard)



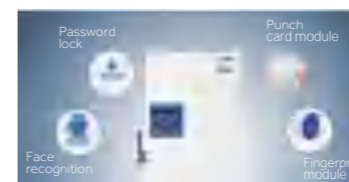
Professional version(optional)

In instances where customers use racking systems, the optional professional version of the inventory management is available. Freezer racks, boxes, and vials can easily record item locations and entry and exit records, facilitate item inventory and statistics, realize multi-screen interaction and reduce errors through secondary verification.

The freezer comes with the single version as standard.

Equipped with Multiple Interfaces

- Standard USB interface, capable of storing data for 10 years
- Standard remote alarm terminal RS485 port



Multiple Options for Safe Management and Control Systems

Standard password lock, optional fingerprint module, punch card module, face recognition, realizing safe and secure multi-user management.



DW-86L829



DW-86L579

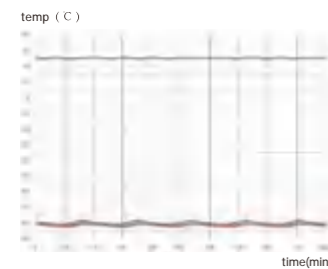
Optional IoT System Realizes Real-time Monitoring

The IoT APP can monitor the operating status of the equipment anytime and anywhere. Equipped with multiple alarm functions and able to self-diagnose system faults to ensure sample safety. (Contact your local area representative to check local availability.)



Safe and Secure with Multiple Alarms

Multiple alarm functions include high temperature alarm, low temperature alarm, sensor error alarm, power failure alarm, low battery alarm, door ajar alarm and high ambient temperature alarm.



Precise Temperature Control Ensures Safe Storage

Adjustable temperature set-point between -40°C ~ -86°C and the ability to monitor temperature curves in real time, equipped with sophisticated temperature safety alarm system to ensure product safety.

Ergonomic Design



Narrow Door Design

The freezer can pass through an 750mm wide door when the door is open



New Handle Design

Adopting exclusive slide design, easy to open and close the door



Pressure Equalization Port

Equipped with pressure equalization port, realize easy opening
Adopts chromium plating, rust-proof



Porthole

Two portholes as standard, allows for independent testing of cabinet temperature



Filter Design

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



Detachable Inner Door Design

Tool-free detachable inner door, realizing easy and quick defrost

Specifications

Model	DW-86L419	DW-86L579	DW-86L729	DW-86L829		
Technical Data	Cabinet Type	Upright	Upright	Upright	Upright	
	Climate Class	N	N	N	N	
	Cooling Type	Direct cooling	Direct cooling	Direct cooling	Direct cooling	
	Defrost Mode	Manual	Manual	Manual	Manual	
	Refrigerant	HC	HC	HC	HC	
Performance	Sound Level (dB(A))	47	48	52	48	
	Cooling Performance (°C)	-86	-86	-86	-86	
Control	Temp Range (°C)	-40~-86	-40~-86	-40~-86	-40~-86	
	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	
Electrical Data	Display	LCD Touchscreen	LCD Touchscreen	LCD Touchscreen	LCD Touchscreen	
	Power Supply (V/Hz)	220~240/50	220~240/50	220~240/50	220~240/50	
	Power (W)	800	1000	1700	1900	
	Electrical Current (A)	5	5.5	9	10	
Construction	Power Consumption (kWh/24h)	8	9	10	11	
	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*980*1980	903*980*1960	1049*980*1980	1153*980*1980	
	in	32.7*38.6*78.0	35.6*38.6*77.2	41.3*38.6*78.0	45.4*38.6*78.0	
Packing Dimension (W*D*H)	mm	897*1078*2135	950*1055*2130	1100*1105*2150	1190*1045*2150	
	in	35.3*42.4*84.1	37.4*41.5*83.9	43.3*43.5*84.6	46.9*41.1*84.6	
Loading Quantities	Container Load (20'/40'/40'H)	12/26/26	12/24/24	10/20/20	9/20/20	
Alarms	High/Low Temp	Y	Y	Y	Y	
	Hot Condenser	Y	Y	Y	Y	
	Power Failure	Y	Y	Y	Y	
	High/Low Voltage	Y	Y	Y	Y	
	Sensor Error	Y	Y	Y	Y	
	Low Battery	Y	Y	Y	Y	
	High Ambient Temp	Y	Y	Y	Y	
	Door Ajar	Y	Y	Y	Y	
Accessories	Caster	Y	Y	Y	Y	
	Foot	Y	Y	Y	Y	
	Porthole	Y/2	Y/2	Y/2	Y/2	
	Shelves/ Inner Doors	3/2	3/4	3/4	3/4	
	USB Interface	Y	Y	Y	Y	
	Remote Alarm (Dry contacts)	Y	Y	Y	Y	
	5V Power Supply Port	Y	Y	Y	Y	
	Temp Recorder	Optional	Optional	Optional	Optional	
	RS485 Port	Y	Y	Y	Y	
	CO ₂ Backup System	Optional	Optional	Optional	Optional	
LN ₂ Backup System	Optional	Optional	Optional	Optional		
Certification	CE	Y	Y	Y	Y	

Product appearance and specifications are subject to change without notice

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

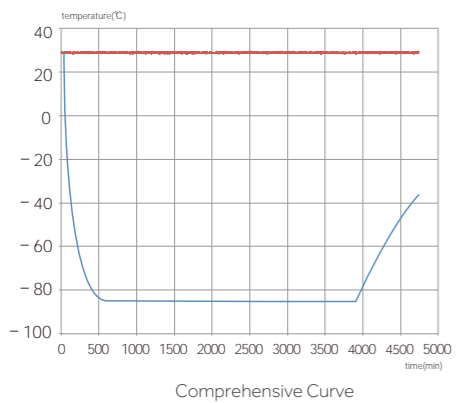
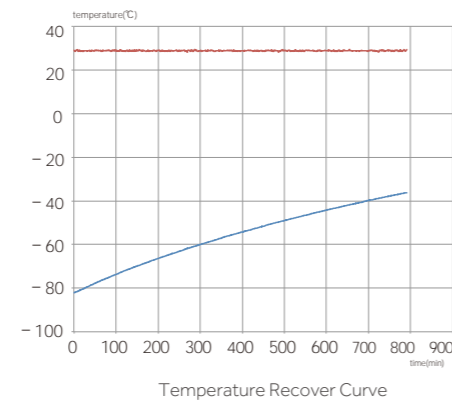
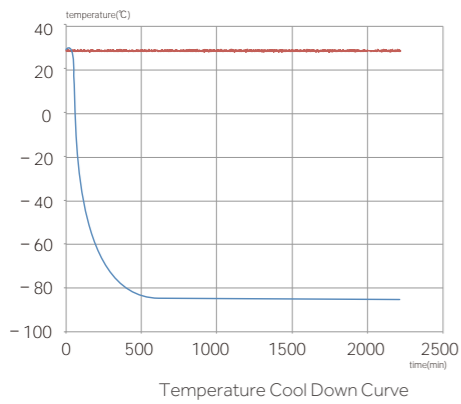
Alarms (Visual and Audible)

- Adjustable High/Low temperature alarm
- Sensor error
- Low battery
- Door ajar
- Power failure
- Hot condenser
- High ambient
- 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 Biomedical has the longest warm up time when compared with other major brands in the market.

TYPICAL PERFORMANCE CHARACTERISTICS AT 25 °C AMBIENT



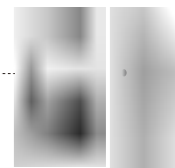
4 Individual Removable Foam Inner Doors

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



Excellent Doors Seals

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



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



Pressure Equalization Port

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



Circular- chart Recorder (Optional)

- Front-mounted.
- For independent temperature monitoring.



DW-86L728J

High Efficiency Refrigeration Components

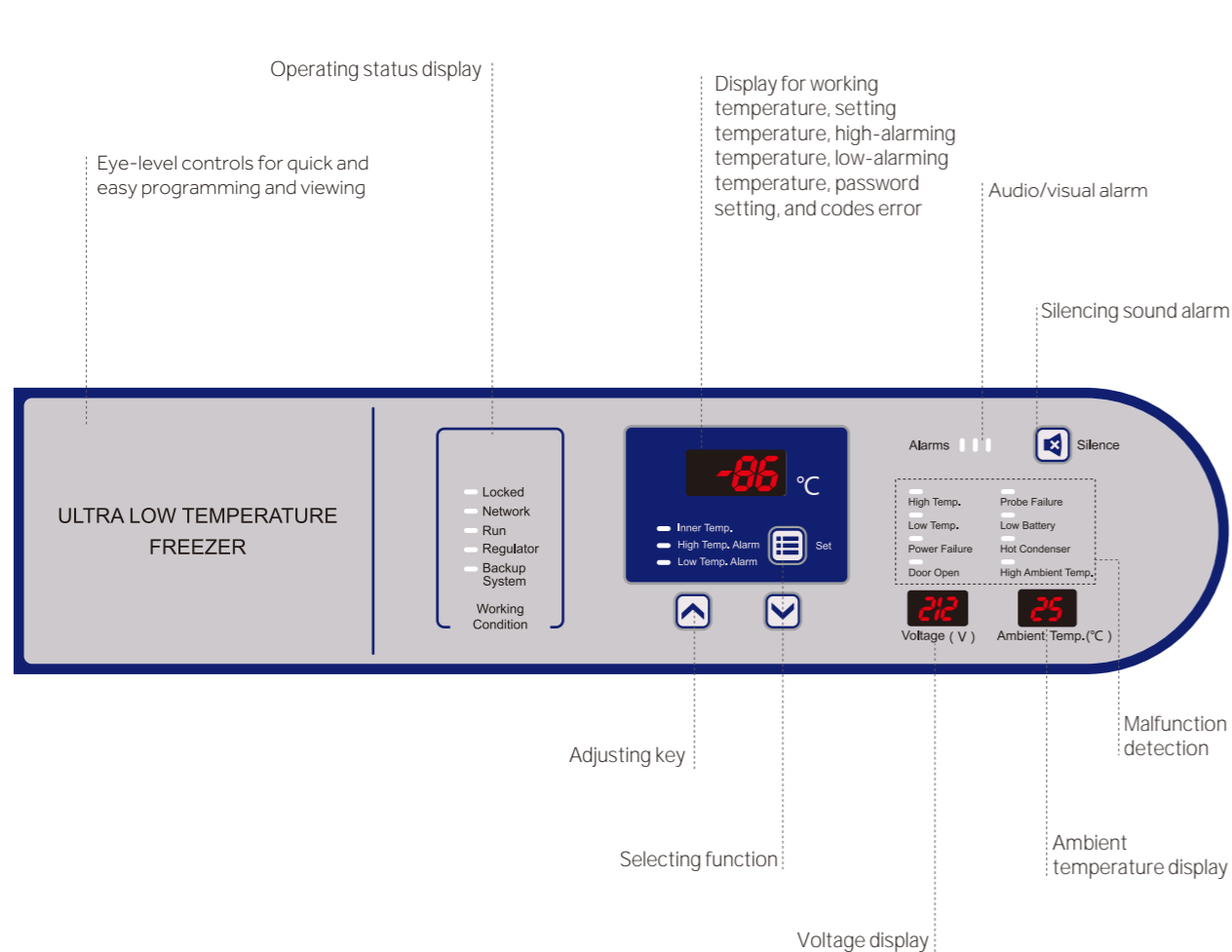
- Hermetically sealed industrial grade compressors for ultra-low refrigeration application.
- Low sound level.
- High efficient oil separator.
- Unique hydrocarbon refrigeration system to provide maximum efficiency in extreme conditions.



Two port holes for ease of temperature monitoring

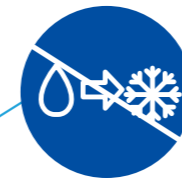


Standard Low Energy ULT Freezer with LED Display



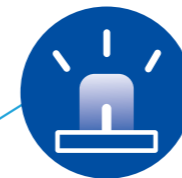
Specifications

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 exceeds 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 reliability

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



Safety

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



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

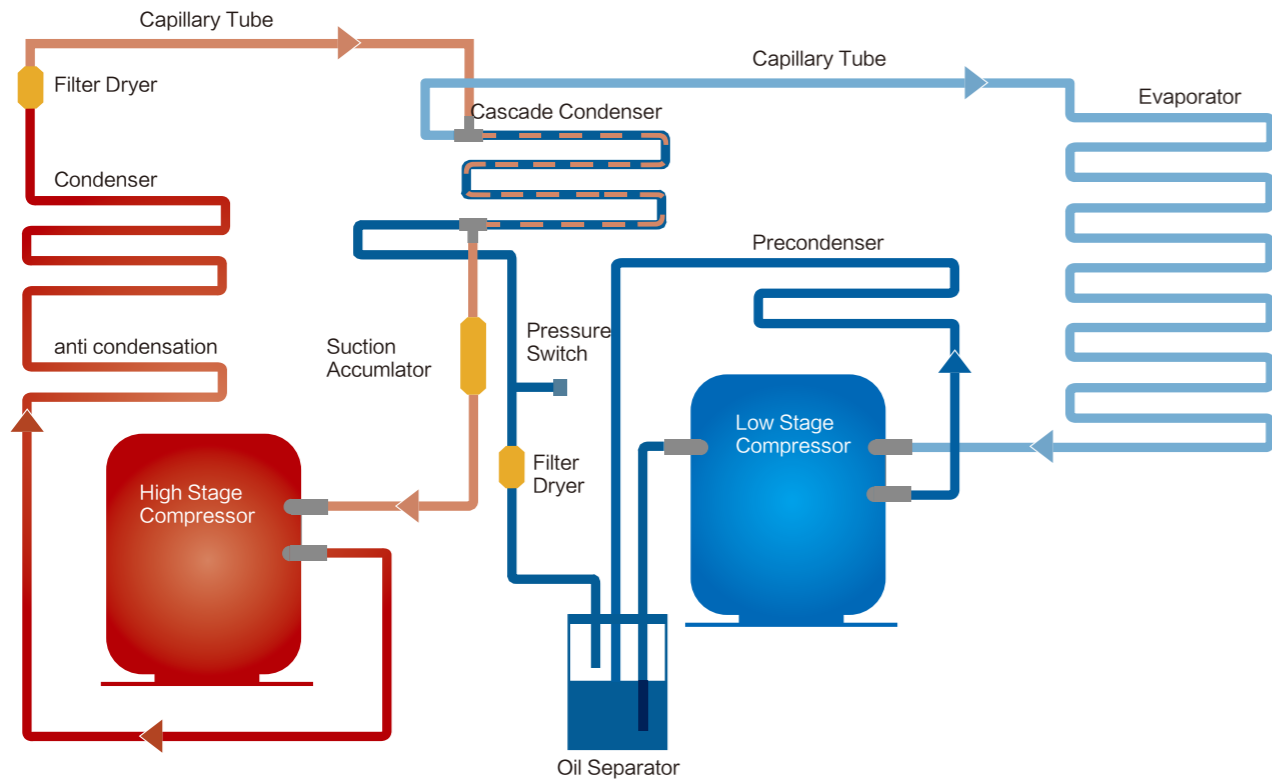
- Unique door seal design for the minimum loss of cold temperature during a door opening
- High performance VIP insulation panels to minimize cabinet heat gain and to improve temperature stability
- Patented cabinet insulation system designed for optimal performance of cold storage temperature and minimal 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

Heat Exchange Circulation System



	Filter dryer • Filtration and drying device for water and debris
	Capillary tube for high stage • Expansion device for high stage liquid refrigerant
	Capillary tube for low stage • Expansion device for low stage refrigerant
	High stage condenser • Extra-large air cooled condenser dissipates product heat content efficiently.
	Low stage evaporator • Heat exchanger for expanded low stage refrigerant
 	Ultra low noise compressor • Compressor provides reliable performance with ultra low noise • Specially designed low stage evaporator yields excellent temperature uniformity and recovery after loading and door opening. • Both high and low stage compressors are industrial grade hermetically sealed compressor designed for low temperature application. Sound level is extremely low.
	Cascade condenser • Heat exchanger between the high and low temperature stage in the system
	Temprite oil separator • Temprite oil separator can effectively separate oil and water so as to improve the refrigeration performance

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 centres, 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 delivering a power consumption figure of just 5.5kW/24hrs.



Personal ULT Storage

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.



Low noise

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

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 more than 15 years of operating data for compliance.



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

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

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.



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 error alarm, power failure alarm, low battery power alarm, door ajar alarm and high ambient temperature alert.
- Sound and light alarm mode, attachable to remote alarm interface.
- Battery backup alarm function operates continuously for more than 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.



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																	
	Climate Class	N						N						N						N																	
	Cooling Type	Direct cooling						Direct cooling						Direct cooling						Direct cooling																	
	Defrost Mode	Manual						Manual						Manual						Manual																	
	Refrigerant	HC						HC						HC						HC																	
	Sound level (dB(A))	50						50						49						50																	
Performance	Cooling Performance (°C)	-86						-86						-86						-86																	
	Temperature Range (°C)	-40~-86						-40~-86						-40~-86						-40~-86																	
Control	Controller	Microprocessor						Microprocessor						Microprocessor						Microprocessor																	
	Display	LED						LED						LED						LED																	
Electrical Data	Power Supply (V/Hz)	220~240/50		115/60		208~230/60		220~240/50			220~240/50			220~240/50		208~230/60		220~240/50		120/60	208~230/60		220~240/50														
	Power (W)	900		700		1000		900			1000			900		1000		900		750	1000		1200														
	Electrical Current (A)	7.5		12		7.5		7.5			10			8		8		8		12	9		11														
	Power Consumption (kWh/24h)	9		7.5		8.2		9.5			13			11.5		11.5		10		8.5	8.5		14														
	Capacity (L/Cu.Ft)	338/11.9						388/13.7						486/17.1						490/17.3						578/20.4						626/22.1					
Construction	Net/Gross Weight (approx)	kg	238/278		255/286		290/310		290/310		295/335		300/330		301/323																						
		lbs	524.7/612.9		562.2/630.5		639.3/683.4		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		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		23.3*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*893*1846		830*980*1980		953*900*1980		953*900*1980		873*900*1980		903*980*1960		1035*900*1980																						
		in	32.7*35.2*72.7		32.7*38.6*78.0		37.5*35.4*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	875*970*2010		893*1078*2135		995*995*2150		995*995*2150		925*985*2150		950*1055*2125		1080*965*2150																							
	in	34.4*38.2*79.1		35.2*42.4*84.1		39.2*39.2*84.6		39.2*39.2*84.6		36.4*38.8*84.6		37.4*41.5*83.7		42.5*38.0*84.6																							
Loading Quantities	Container load (20'/40'/40'H)	12/26/26						12/26/26						10/22/22						12/24/24						12/24/24						12/24/24					
	High/Low Temperature	Y						Y						Y						Y						Y											
Alarms	Hot Condenser	Y						Y						Y						Y						Y											
	Power Failure	Y						Y						Y						Y						Y											
	Sensor Error	Y						Y						Y						Y						Y											
	Low Battery	Y						Y						Y						Y						Y											
	High Ambient Temperature	Y						Y						Y						Y						Y											
	Door Ajar	Y						Y						Y						Y						Y											
	Caster	Y						Y						Y						Y						Y											
	Foot	Y						Y						Y						Y						Y											
Accessories	Porthole	Y/2						Y/2						Y/2						Y/2						Y/2											
	Shelves/Inner doors	3/2						3/2						3/4						3/4						3/4											
	USB Interface	Y						Y						Y						Y						Y											
	Remote Alarm (Dry contacts)	Y						Y						Y						Y						Y											
	5V Power Supply Port	Y						Y						Y						Y						Y											
	Temperature 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											
Certifications	CE	Y		/		Y		Y		/		Y		/		Y		/		/		Y		/													
	UL	/		Y		/		/		/		Y		/		Y		Y		Y		/		/													
	ENERGYSTAR	/		/		/		/		/		/		/		Y		Y		/		/		/													

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



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			
	Climate Class	N						N				N		N		N			
	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	
	Power (W)	1000		1000		1000		1000		1100		680		680		550		1000	
	Electrical Current (A)	10		18		10		10		10		3		6.5		4		7.5	
	Power Consumption(kWh/24h)	10.5		10.5		10.5		12		12		5.5		5.5		5		12.5	
Construction	Capacity (L/Cu.Ft)	728/25.7						828/29.2				100/3.5		100/3.5		420/14.8			
	Net/Gross Weight (approx)	kg	345/385			380/410			380/410		108/132		138/160		310/357				
		lbs	760.6/848.8			837.7/903.9			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			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			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			1145*980*1980			1145*980*1980		770*660*810		769*825*1120		2130*870*1020				
in		41.3*38.6*78.0			45.1*38.6*78.0			45.1*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	1090*1050*2150			1190*1045*2150			1190*1045*2150		830*710*970		845*855*1250		2195*895*1130					
	in	42.9*41.3*84.6			46.9*41.1*84.6			46.9*41.1*84.6		32*28*38.5		33.3*33.7*49.2		90.6*38.2*45.8					
Loading Quantities	Container load (20'/40'/40'H)	10/22/22			9/20/20			9/20/20		44/88/88		44/88/88		14/26/26		12/26/26			
Alarms	High/Low Temperature	Y						Y				Y		Y		Y			
	Hot Condenser	Y						Y				Y		Y		Y			
	Power Failure	Y						Y				Y		Y		Y			
	High/Low Voltage	/						/				/		/		/			
	Sensor Error	Y						Y				Y		Y		Y			
	Low Battery	Y						Y				Y		Y		Y			
	High Ambient Temperature	Y						Y				Y		Y		Y			
	Door Ajar	Y						Y				Y		Y		Y			
Accessories	Caster	Y						Y				Y		Y		Y			
	Foot	Y						Y				Y		Y		Y			
	Porthole	Y/2						Y/2				Y/1		Y/1		Y/1			
	Shelves/Inner doors	3/4						3/4				1/2		-/1		-/3			
	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 Recorder	Optional						Optional				/		Optional		Optional			
	Rs232/485 Interface	Optional						Optional				-/Y		Optional		Optional			
	CO ₂ Backup System	Optional						Optional				Optional		Optional		Optional			
LN ₂ Backup System	Optional						Optional				Optional		Optional		Optional				
Certifications	CE	Y		/		Y		/		Y		/		Y		Y		/	
	UL	/		Y		/		Y		/		Y		/		/		Y	
	ENERGY STAR	Y		/		Y		/		/		/		/		/		/	

Mini ULT Freezer



DW-80WZ15

Application ▶

It is suitable for biobanks, vaccination production and transportation users.

Product Advantages



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 220V 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.

Ergonomic Design



Lightweight

The whole unit weighs 25kg, 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	Power Supply	Temp Range (°C)	Exterior Dimensions (W*D*H mm)	Interior Dimensions (W*D*H mm)	Effective Capacity (L)	Net/Gross Weight (Kg)
DW-80WZ15	220V/50Hz DC 24V	-80--40	690*320*485	260*180*330	15	25/30

CO₂ 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 CO₂ test button to ensure the backup system is working
- Low CO₂ alarm system alerts the user when liquid CO₂ 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

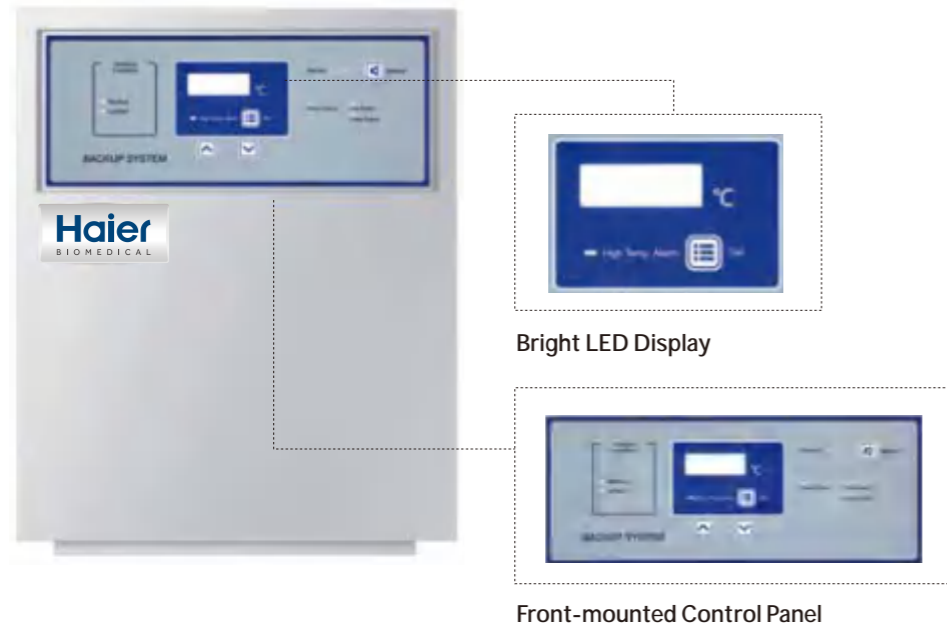
Specifications

	Model	HBX-IC
Technical Data	Cabinet Type	Horizontal
	Climate Class	N
	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
	Power (W)	20
	Electrical Current (A)	115/60 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)
	Alarms	
Low Battery Alarm		Y
Sensor Error Alarm		Y
Main Power Off Alarm		Y
Charge Indicator		Y
Accessories	CO ₂ Injection Test Button	Y
	Foot	4
Certifications	CE	Y
	UL	Y



Product appearance and specifications are subject to change without notice

LN₂ backup cooling system is an independent refrigeration system for a ULT freezer. When there is a loss of power or the temperature of the freezer rises to the high alarm set point, the LN₂ backup system can be automatically activated to inject LN₂ into the chamber to maintain the freezer temperature. The backup system operates on a rechargeable battery when there is a loss of main power.



Features

- Interlocked design to turn off the LN₂ 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



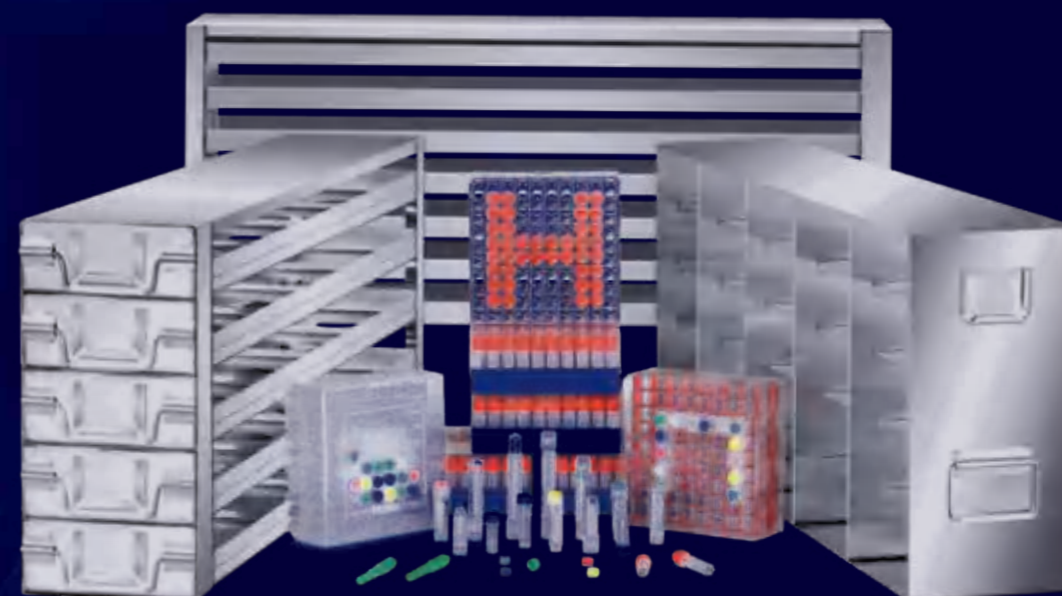
Specifications

	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
	Power (W)	115/60
Dimensions	Electrical Current (A)	20
		0.05
	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)	417*357*698	
	16.4*14.1*27.5	
Alarms	Low Battery Alarm	Y
	Sensor Error Alarm	Y
	Main Power Off Alarm	Y
	Charge Indicator	Y
Certifications	CE	Y
	UL	Y

Product appearance and specifications are subject to change without notice



**Consumables
for ULT Freezer**





Single Tube (Flat Cover)



PCR single tube is made from polypropylene(PP). The thin wall and smooth surface of the tube ensure the effectiveness and uniformity of heat transfer between samples, which is suitable for the mainstream PCR instrument and real-time PCR instrument in the market. The sealing property of the pipe cover is excellent, and the opening cover is smooth, and the reaction volume loss is less than 0.2% when using the heat cover.

Product features

- Pure polypropylene, it has thin and uniform wall for optimal heat transfer
- The pipe cover and the pipe body are connected together with a strong sealing property to prevent leakage and it is also easy to open
- Free from DNase, RNase, pyrogens, PCR inhibitors



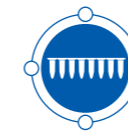
PCR 96-Well Plate



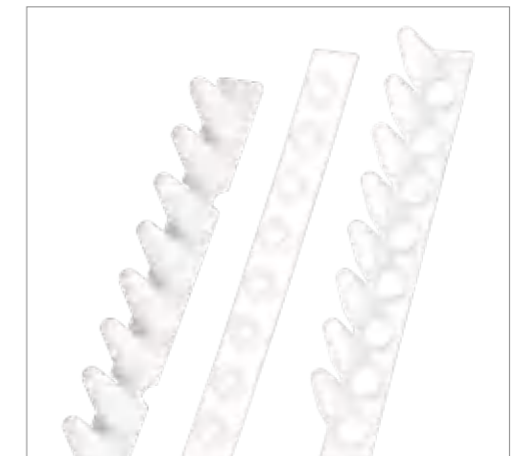
Product features

It is suitable for standard 96-well model, and is produced in strict accordance with the highest quality standard. The experimental results show excellent uniformity. The tube wall is thin and uniform, with tube cap or sealing plate film.

- Polypropylene(PP)
- Suitable for 0.1ml, 0.2ml thermal cycle modules
- Free from DNase, RNase and endotoxins



8-Strip Tubes and Caps

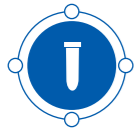


Product features

- Pure polypropylene, it has a thin and uniform wall for optimal heat transfer
- The 8-strip pipe cover and the pipe body are connected together with a strong sealing property to prevent leakage and it is also easy to open
- It is suitable for the PCR instrument with the corresponding model specification
- Suitable for 0.1ml/0.2ml 8-strip tubes or 96-well plate
- Superior sealing property
- Flat caps work for QPCR experiments better

Classification	Model	Specification	Loading Quantity (Per Case)	Package
PCR Tube	PCR-021T	0.2ml PCR single tube, transparent, flat cover	10000	1000 Pcs/bag, 10 bags/case
	PCR-A-028T	Conventional type A-0.2ml PCR 8-strip tube+optical flat cover, transparent	1250	125 Strips/bag, 10 bags/case
	PCR-A-028W	Conventional type A-0.2ml PCR 8-strip tube+optical flat cover, white	1250	125 Strips/bag, 10 bags/case
	PCR-A-018T	Conventional type A-0.1ml PCR 8-strip tube+optical flat cover, transparent	1250	125 Strips/bag, 10 bags/case
	PCR-A-018W	Conventional type A-0.1ml PCR 8-strip tube+optical flat cover, white	1250	125 Strips/bag, 10 bags/case
	PCR-B-028T	Strength type B-0.2ml PCR 8-strip tube+optical flat cover, transparent	1250	125 Strips/bag, 10 bags/case
	PCR-B-018T	Strength type B-0.1ml PCR 8-strip tube+optical flat cover, transparent	1250	125 Strips/bag, 10 bags/case
	PCR-B-018W	Strength type B-0.1ml PCR 8-strip tube+optical flat cover, white	1250	125 Strips/bag, 10 bags/case
PCR Plate	PCR-96B-02HT	0.2ml 96-well PCR plate-Half skirt edge, transparent	50	10Pcs/bag, 5bags/case
	PCR-96B-02NT	0.2ml 96-well PCR plate-No skirt edge, transparent	50	10Pcs/bag, 5bags/case
	PCR-96B-02NW	0.2ml 96-well PCR plate-No skirt edge, white	50	10Pcs/bag, 5bags/case
	PCR-96B-01NT	0.1ml 96-well PCR plate-No skirt edge, transparent	50	10Pcs/bag, 5bags/case
	PCR-96B-01NW	0.1ml 96-well PCR plate-No skirt edge, white	50	10Pcs/bag, 5bags/case
	PCR-96B-02HTB	0.2ml 96-well PCR plate-Half skirt edge, transparent, black writing	50	10Pcs/bag, 5bags/case
	PCR-96B-02NTB	0.2ml 96-well PCR plate-No skirt edge, transparent, black writing	50	10Pcs/bag, 5bags/case
	PCR-96B-01HT(Roche)	0.1ml 96-well PCR plate-Half skirt edge, transparent (Suitable for Roche PCR instrument)	50	10Pcs/bag, 5bags/case
	PCR-96B-01HW(Roche)	0.1ml 96-well PCR plate-Half skirt edge, white (Suitable for Roche PCR instrument)	50	10Pcs/bag, 5bags/case
	PCR-96B-01HT(ABI)	ABI 0.1ml 96-well PCR plate-Half skirt edge, transparent	50	10Pcs/bag, 5bags/case
	PCR-96B-02HT(ABI)	ABI 0.2ml 96-well PCR plate-Half skirt edge, transparent	50	10Pcs/bag, 5bags/case
	PCR-MEM	PCR sealing plate film, pressure-sensitive, transparent, box-packed	100	100 Pcs/box

CENTRIFUGE TUBE



15ml/50ml Centrifuge Tube

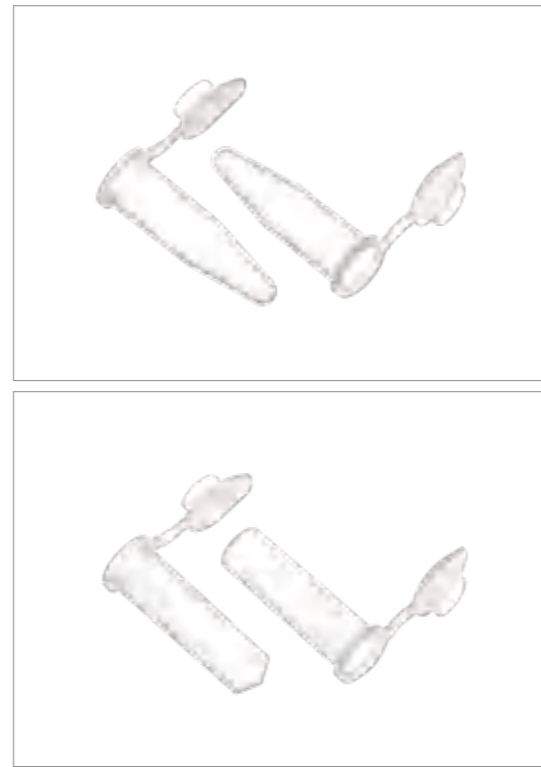


Product features

- Black clear scale line and white writing area
- Recommended maximum centrifugal force: 12000×g
Electron beam sterilization
- Free from DNase, RNase and pyrogens
- Temperature range: -80°C-120°C
- Easy grip cap for single-handed operation, reliable sealing
- Frame-packed and bag-packed



Microcentrifuge Tube



Product features

- PP material complies with USP-6, free from heavy metals
- Endotoxin content is less than 0.1 EU
- Temperature range: -80°C-120°C
- RCF: 30000×g
- The cover is easy to puncture and comfortable to handle
- Free from DNase, RNase and pyrogens



500ml Centrifuge Bottle



Product features

- Suitable for high capacity centrifugation
- Sterile and free from pyrogens



250ml Centrifuge Bottle



- Polypropylene (PP) material, sealed pipe cover
- 250ml and 500ml centrifuge bottles

Classification	No.	Model	Specification	Loading Quantity (Per Case)	Package
Centrifuge Tube	1	CEN-06T	0.6ml Microcentrifuge tube, colorless	10000	1000Pcs/box,10boxes/case
	2	CEN-15T	1.5ml Microcentrifuge tube, colorless	5000	500Pcs/box,10boxes/case
	3	CEN-2T	2ml Microcentrifuge tube, colorless	5000	500Pcs/box,10boxes/case
	4	CEN-15CB0	15ml Conical centrifuge tube, sterile, bag-packed	500	25Pcs/bag, 20bags/case
	5	CEN-15CS0	15ml Conical centrifuge tube, sterile, racked	500	50Pcs/rack, 10Racks/case
	6	CEN-50CB0	50ml Conical centrifuge tube, sterile, bag-packed	500	25Pcs/bag, 20bags/case
	7	CEN-50CS0	50ml Conical centrifuge tube, sterile, racked	500	25Pcs/rack, 20Racks/case
Centrifuge Bottle	8	EN-500B	500ml Centrifuge bottle	40	8Pcs/bag,40Pcs/case
	9	CEN-250B	250ml Centrifuge bottle	102	4Pcs/bag,100Pcs/case

CELL CULTURE



Cell Culture Dish



Product features

- Cell culture dishes are ideal for all types of culturing. Flat transparent surface for distortion-free observation under microscope. Numeric indicators at the bottom for easy identification of cell locations
- Free from pyrogens and endotoxins
- Made from high clarity medical polystyrene
- Flat transparent surface for distortion-free observation under microscope
- Electron beam sterilization
- Vacuum Gas Plasma treated for uniform and consistent cell attachment
- Stackable for easy storage and handling



Cell Culture Bottle

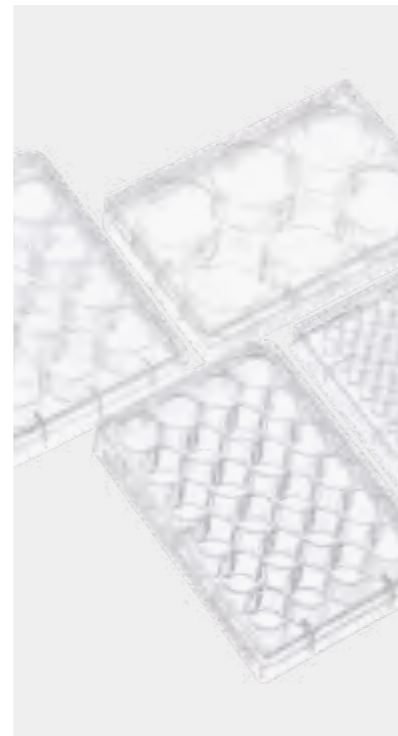


Product features

- Packing in sterile self-sealing bag
- Stackable design, safe & stable, easy for storage
- Clear lot numbers for batch traceability
- Unique patent design, no dead angle in bottle
- High definition, 100% polystyrene
- Electron beam sterilization
- Free from pyrogens and endotoxins
- Permeable cover (filter cover), 0.22µm hydrophobic membrane to facilitate air exchange and prevent microbial pollution



Cell Culture Plate



Product features

- Electron beam sterilization
- Vacuum plasma treatment
- DuPont Tyvek hot melt independent packaging, moistureproof, waterproof
- Free from pyrogens and endotoxins
- Made from high clarity, 100% polystyrene
- Clear lot numbers for batch traceability
- Products are available in bags or with brackets



Erlenmeyer Flasks with Flat Cap

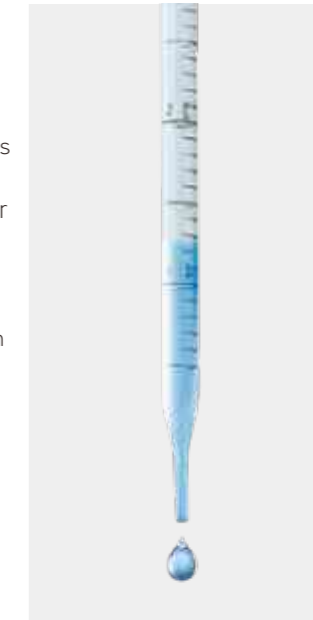


Product features

PETG/PE flat-bottomed erlenmeyer flask saves preparation time and avoids the risk of contamination, making it an ideal choice for cell suspension culture, medium configuration, mixing and storage. The high clarity PETG/PE is firm and hard to crack, which reduces any personnel safety risks and is an ideal choice for shaker culture applications.



Pipettes



Product features

- Serum pipettes are suitable for tissue culture and cell culture and other biological research.
- They are made of high clarity polystyrene and they are individually packaged in paper-plastic bags.
- Different sizes of pipettes are distinguished by different colors.
- No pyrogen, no cytotoxicity, no hemolysis
- Polyolefine filter element to prevent pollution
- Free from DNase and RNase

Classification	Model	Specification	Loading Quantity (Per Case)	Package
TCT Cell Culture Plate	CELL-B6-P	6-well cell culture plate, plasma treatment	50	1Pcs/bag, 50bags/case
	CELL-B12-P	12-well cell culture plate, plasma treatment	50	1Pcs/bag, 50bags/case
	CELL-B24-P	24-well cell culture plate, plasma treatment	50	1Pcs/bag, 50bags/case
	CELL-B48-P	48-well cell culture plate, plasma treatment	50	1Pcs/bag, 50bags/case
	CELL-B96-P	96-well cell culture plate, plasma treatment	65	1Pcs/bag, 65bags/case
Cell Culture Bottle	CELL-T25-P	T25 cell culture bottle, 25cm ² , vented caps, plasma treatment	300	12Pcs/bag, 25bags/case
	CELL-T75-P	T75 cell culture bottle, 75cm ² , vented caps, plasma treatment	90	5Pcs/bag, 18bags/case
	CELL-T175-P	T175 cell culture bottle, 175cm ² , vented caps, plasma treatment	50	5Pcs/bag, 10bags/case
Cell Culture Dish	CELL-D100-P	100mm cell culture dish, plasma treatment	300	10Pcs/bag, 30bags/case
	CELL-D60-P	60mm cell culture dish, plasma treatment	500	10Pcs/bag, 50bags/case
	CELL-D35-P	35mm cell culture dish, plasma treatment	500	10Pcs/bag, 50bags/case
Erlenmeyer Flasks with Flat Cap	CELL-SB125-PC	125ml Triangular cell shaking flask, vented caps (PC)	50	1Pcs/bag, 50bags/case
	CELL-SB250-PC	250ml Triangular cell shaking flask, vented caps (PC)	50	1Pcs/bag, 50bags/case
	CELL-SB500-PC	500ml Triangular cell shaking flask, vented caps (PC)	25	1Pcs/bag, 25bags/case
	CELL-SB1000-PETG	1000ml Triangular cell shaking flask, vented caps (PETG)	25	1Pcs/bag, 25bags/case
Pipettes	PIP1	Pipette 1ml, one-step forming	1000	50Pcs/bag, 20bags/case
	PIP2	Pipette 2ml, one-step forming	1000	50Pcs/bag, 20bags/case
	PIP5	Pipette 5ml, one-step forming	200	50Pcs/bag, 4bags/case
	PIP10	Pipette 10ml, one-step forming	200	50Pcs/bag, 4bags/case
	PIP25	Pipette 25ml, two-step forming	200	50Pcs/bag, 4bags/case
	PIP50	Pipette 50ml, two-step forming	100	25Pcs/bag, 4bags/case

FREEZER RACK

59/60



Standard Frozen Rack

Product features

- Made of high quality 304 stainless steel
- The rack is stable when used at high temperatures, ultra low temperature and corrosive environments



Anti-freezing handle design

- The handle design does not freeze easily compared with traditional grip
- Precision grinding process, no burr, no risk of cutting



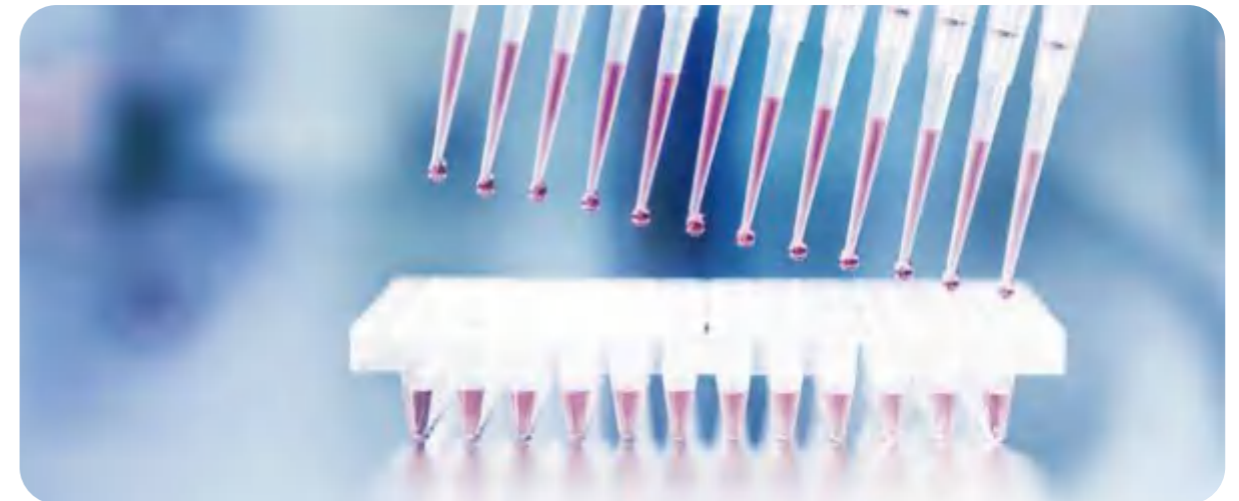
Welding process

- The advanced pulse capacitor energy storage resistance welding machine is used for welding, it is firm, smooth and appealing.



Test

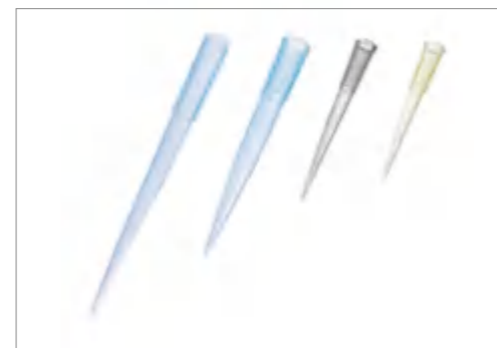
- Load bearing test of 5×5 drawer type frozen rack
- Load bearing capacity 16720 g, load bearing redundancy 25%
- 25 counterweights
- No deformation after continuous test for 30 days



PIPETTE TIPS




Pipette Tips

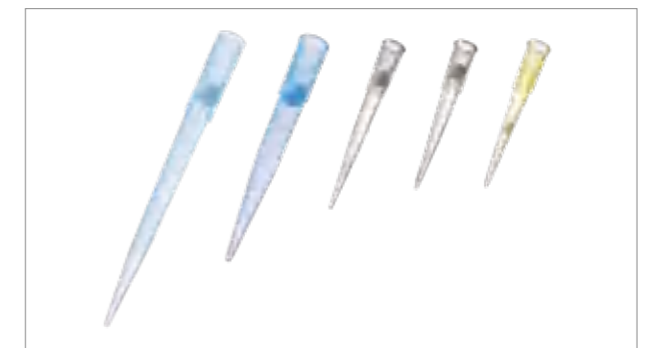


Product features

- Medical polypropylene (PP)
- Matching most brands of single-channel and multi-channel pipettes
- 100,000 grade dust-free workshop. The product is free from pyrogen, endotoxin, DNase and RNase
- The inner wall is smooth and the liquid residue is minimized to ensure accurate suction
- Temperature range: -80 °C -121 °C, no deformation after high temperature and high pressure
- Clear scale, high clarity, visual confirmation of pipette suction



Filter Pipette Tips



Product features

- Super hydrophobicity, the hydrophobic filter element forms a strong barrier to the aerosol, eliminating the risk of cross contamination between the sample and the pipette
- Ultra-fine grinding molding technology, demoulding without agent guarantees better product quality
- Ultra-fine point ensures smooth sample absorption
- Innovative design to ensure good flexibility, sealing and compatibility

PIPETTE TIPS



Racked Tips



Box-Packed Tips



Product features

- Box-packed and racked design
- Various packaging methods to meet the needs of different scenarios

Classification	No.	Model	Specification	Loading Quantity (Per Case)	Package
Universal Pipette Tips	1	B10T	10µL tip, bag-packed, basic type, colorless	20000	1000Pcs/bag,20Bags/case
	2	B01TL	0.1-10µL extended tip, bag-packed, basic type, colorless	10000	1000Pcs/box,10Boxes/case
	3	B05TL	0.5-10µL extended tip, bag-packed, basic type, colorless	20000	1000Pcs/bag,20Bags/case
	4	B200Y	200µL tip, bag-packed, basic type, yellow	20000	1000Pcs/bag,20Bags/case
	5	B250T	250µL tip, bag-packed, basic type, colorless	20000	1000Pcs/bag,20Bags/case
	6	B350T	350µL tip, bag-packed, basic type, colorless	20000	1000Pcs/bag, 20Bags/case
	7	B1000B	1000µL tip, bag-packed, basic type, blue	5000	1000Pcs/bag,5Bags/case
	8	B1250B	1250µL tip, bag-packed, basic type, blue	5000	1000Pcs/bag,5Bags/case
	9	X10T0	10µL tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	10	X01TL0	0.1-10µL extended tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	11	X05TL0	0.5-10µL extended tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	12	X200Y0	200µL tip, box-packed, sterile, yellow	4800	96Pcs/box,50Boxes/case
	13	X250T0	250µL tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	14	X350T0	350µL tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	15	X1000B0-100	1000µL tip, box-packed, sterile, blue	5000	100Pcs/box,50Boxes/case
	16	X1000B0-96	1000µL tip, box-packed, sterile, blue	4800	96Pcs/box,50Boxes/case
	17	X1250B0	1250µL tip, box-packed, sterile, blue	4800	96Pcs/box,50Boxes/case

Classification	No.	Model	Specification	Loading Quantity (Per Case)	Package
Filter Pipette Tips	18	FB10T	10µL filter tip bag-packed, colorless	20000	1000Pcs/bag,20Bags/case
	19	FB01TL	0.1-10µL extended filter tip, bag-packed, colorless	10000	1000Pcs/box,10Boxes/case
	20	FB05TL	0.5-10µL extended filter tip, bag-packed, colorless	20000	1000Pcs/bag,20Bags/case
	21	FB20Y	20µL filter tip, bag-packed, yellow	20000	1000Pcs/bag,20Bags/case
	22	FB50Y	50µL filter tip, bag-packed, yellow	20000	1000Pcs/bag,20Bags/case
	23	FB100Y	100µ filter tip, bag-packed, yellow	20000	1000Pcs/bag,20Bags/case
	24	FB200Y-150	200µL(1-150ul) filter tip, bag-packed, yellow	20000	1000Pcs/bag,20Bags/case
	25	FB200T-200	200µL(1-200ul) filter tip, bag-packed, colorless	20000	1000Pcs/bag,20Bags/case
	26	FB300T	300µL(1-300ul) filter tip, bag-packed, colorless	20000	1000Pcs/bag,20Bags/case
	27	FB1000B	1000µL filter tip bag-packed, blue	5000	1000Pcs/bag,5Bags/case
	28	FB1250B	1250µL filter tip bag-packed, blue	5000	1000Pcs/bag,5Bags/case
	29	FX10T0	10µL filter tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	30	FX01TL0	0.1-10µL extended filter tip box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	31	FX05TL0	0.5-10µL extended filter tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	32	FX20Y0	20µL filter tip, box-packed, sterile, yellow	4800	96Pcs/box,50Boxes/case
	33	FX50Y0	50µL filter tip, box-packed, sterile, yellow	4800	96Pcs/box,50Boxes/case
	34	FX100Y0	100µL filter tip, box-packed, sterile, yellow	4800	96Pcs/box,50Boxes/case
	35	FX200Y0-150	200µL(1-150ul) filter tip, box-packed, sterile, yellow	4800	96Pcs/box,50Boxes/case
	36	FX200T0-200	200µL(1-200ul) filter tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	37	FX300T0	300µL(1-300ul) filter tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	38	FX500B0	500µL filter tip, box-packed, sterile, blue	4800	96Pcs/box,50Boxes/case
	39	FX1000B0-100	1000µL filter tip, box-packed, sterile, blue	5000	100Pcs/box,50Boxes/case
	40	FX1000B0-96	1000µL filter tip, box-packed, sterile, blue	4800	96Pcs/box,50Boxes/case
	41	FX1250B0	1250µL filter tip, box-packed, sterile, blue	4800	96Pcs/box,50Boxes/case
	42	AB10T	10µL low retention tip, bag-packed, colorless	20000	1000Pcs/bag,20Bags/case
	43	AB01TL	0.1-10µL extended low retention tip, bag-packed, colorless	10000	1000Pcs/box,10Boxes/case
	44	AB05TL	0.5-10µL extended low retention tip, bag-packed, colorless	20000	1000Pcs/bag,20Bags/case
	45	AB200T	200µL low retention tip, bag-packed, colorless	20000	1000Pcs/bag,20Bags/case
	46	AB250T	250µL low retention tip, bag-packed, colorless	20000	1000Pcs/bag,20Bags/case
	47	AB350T	350µL low retention tip, bag-packed, colorless	20000	1000Pcs/bag,20Bags/case
	48	AB1000T	1000µL low retention tip, bag-packed, colorless	5000	1000Pcs/bag,5Bags/case
	49	AB1250T	1250µL low retention tip, bag-packed, colorless	5000	1000Pcs/bag,5Bags/case
	50	AX10T0	10µL low retention tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	51	AX01TL0	0.1-10µL extended low retention tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	52	AX05TL0	0.5-10µL extended low retention tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	53	AX200T0	200µL low retention tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	54	AX250T0	250µL low retention tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	55	AX350T0	350µL low retention tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	56	AX1000T0	1000µL low retention tip, box-packed, sterile, colorless	5000	100Pcs/box,50Boxes/case
	57	AX1250T0	1250µL low retention tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
	58	AFX10T0	10µL low retention filter tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case
59	AFX01TL0	0.1-10µL extended low retention filter tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case	
60	AFX05TL0	0.5-10µL extended low retention filter tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case	
61	AFX200T0-150	200µL(1-150ul) extended low retention filter tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case	
62	AFX200T0-200	200µL(1-200ul) extended low retention filter tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case	
63	AFX300T0	300µL(1-300ul) extended low retention filter tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case	
64	AFX1000T0-100	1000µL extended low retention filter tip, box-packed, sterile, colorless	5000	100Pcs/box,50Boxes/case	
65	AFX1000T0	1000µL extended low retention filter tip, box-packed, sterile, colorless	4800	100Pcs/box,50Boxes/case	
66	AFX1250T0	1250µL extended low retention filter tip, box-packed, sterile, colorless	4800	96Pcs/box,50Boxes/case	
67	D10Y0	10ul racked tip, sterile	4800	960Pcs/rack,10Racks/case	
68	D200Y0	200ul racked tip, sterile	4800	960Pcs/rack,10Racks/case	
69	D1250Y0	1250ul racked tip, sterile	4800	480Pcs/rack,10Racks/case	

Racked Tip



Product	Model	Rack description	ULT Freezer models
Freezer racks	DCJ-55-B(SUS201)	2 inch SUS 201 drawer rack 5*5(2 inch box *25)	DW-86L728J/728JA/728S/728ST/728SAT/729/729BP/729BPT/DW-86L388J/418S/418ST/419
	DCJ-55-B(SUS304)	2 inch SUS 304 drawer rack 5*5(2 inch box *25)	DW-86L578J/578JA/578S/578ST/579/579BP/579BPTD W-86L828J/828JA/828S/828ST/829/829BP/829BPT/828WDW-86L959BP/959BPT/959W
	DCJ-54-B(SUS201)	2 inch SUS 201 drawer rack 5*4(2 inch box *20)	DW-86L338J/338JA DW-86L486E
	DCJ-54-B(SUS304)	2 inch SUS 304 drawer rack 5*4(2 inch box *20)	DW-86L628E DW-86L490J/490JA
	DCJ-53-B(SUS201)	2 inch SUS 201 drawer rack 5*3(2 inch box *15)	DW-86L100J
	DCJ-53-B(SUS304)	2 inch SUS 304 drawer rack 5*3(2 inch box *15)	DW-86L51J
	DCJ-44-B(SUS201)	2 inch SUS 201 drawer rack 4*4(2 inch box *16)	DW-86L338J/338JA DW-86L490J/490JA
	DCJ-44-B(SUS304)	2 inch SUS 304 drawer rack 4*4(2 inch box *16)	
	DCJ-55-A(SUS304)	2 inch SUS 304 rack 5*5(2 inch box *25)	DW-86L728J/728JA/728S/728ST/728SAT/729/729BP/729BPT/ DW-86L388J/418S/418ST/419
	DCJ-54-A(SUS304)	2 inch SUS 304 rack 5*4(2 inch box *20)	DW-86L578J/578JA/578S/578ST/579/579BP/579BPT DW-86L828J/828JA/828S/828ST/829/829BP/829BPT/828W DW-86L959BP/959BPT/959W
	DCJ-54-A(SUS304)	2 inch SUS 304 rack 5*4(2 inch box *20)	DW-86L338J/338JA DW-86L486E DW-86L628E DW-86L490J/490JA
	DCJ-53-A(2014)	2 inch stainless steel rack 5*3(2 inch box *15)	DW-86L100J
	DCJ-44-A(SUS304)	2 inch SUS 304 rack 4*4(2 inch box *16)	DW-86L338J/338JA DW-86L490J/490JA
	DCJ-08-A(2014)	2 inch stainless steel rack 8*1(2 inch box *8)	DW-86W100J
	DCJ-10-A(2014)	2 inch stainless steel rack 10*1(2 inch box *10)	DW-86W420J/DW-150W200/DW-150W209

ULT freezer model	Rack model	Rack and box discription	Freezer Rack Quantity	Freezer Box Quantity	Cryo Tube Quantity (2ml)
DW-86L338J/ DW-86L338JA	DCJ-54-A(SUS304)	2 inch stainless steel side-access freezer rack 5*4 (2 inch freezer box*20 units)	6	120	12000
	DCJ-54-B(SUS201/304) (Middle, 2 layers)	2 inch stainless steel sliding-drawer freezer rack 5*4 (2 inch freezer box*20 units)	6	120	12000
	DCJ-44-A(SUS304) (Top and bottom layers)	2 inch stainless steel side-access freezer rack 4*4 (2 inch freezer box*16 units)	6	96	9600
	DCJ-44-B(SUS201/304) (Top and bottom layers)	2 inch stainless steel sliding-drawer freezer rack 4*4 (2 inch freezer box*16 units)	6	96	9600
DW-86L388J/418S/ 418ST/419	DCJ-55-A(SUS304)	2 inch stainless steel side-access freezer rack 5*5 (2 inch freezer box*25 units)	12	300	30000
	DCJ-55-B(SUS201/304)	2 inch stainless steel sliding-drawer freezer rack 5*5 (2 inch freezer box*25 units)	12	300	30000
DW-86L486E	DCJ-54-A (SUS304)	2 inch stainless steel side-access freezer rack 5*4 (2 inch freezer box*20 units)	16	320	32000
	DCJ-54-B(SUS201/304)	2 inch stainless steel sliding-drawer freezer rack 5*4 (2 inch freezer box*20 units)	16	320	32000
DW-86L490J/490JA	DCJ-54-A(SUS304) (Top 2 layers)	2 inch stainless steel side-access freezer rack 5*4 (2 inch freezer box*20 units)	8	160	16000
	DCJ-54-B(SUS201/304) (Top 2 layers)	2 inch stainless steel sliding-drawer freezer rack 5*4 (2 inch freezer box*20 units)	8	160	16000
	DCJ-44-A(SUS304) (Bottom 2 layers)	2 inch stainless steel side-access freezer rack 4*4 (2 inch freezer box*16 units)	8	128	12800
	DCJ-44-B(SUS201/304) (Bottom 2 layers)	2 inch stainless steel sliding-drawer freezer rack 4*4 (2 inch freezer box*16 units)	8	128	12800
DW-86L628E	DCJ-54-A(SUS304)	2 inch stainless steel side-access freezer rack 5*4 (2 inch freezer box*20 units)	20	400	40000
	DCJ-54-B(SUS201/304)	2 inch stainless steel sliding-drawer freezer rack 5*4 (2 inch freezer box*20 units)	20	400	40000
DW-86L578J/578JA /578S/578ST/579/ 579BP/579BPT	DCJ-55-A (SUS304)	2 inch stainless steel side-access freezer rack 5*5 (2 inch freezer box*25 units)	16	400	40000
	DCJ-55-B(SUS201/304)	2 inch stainless steel sliding-drawer freezer rack 5*5 (2 inch freezer box*25 units)	16	400	40000
DW-86L728J/728JA/ 728S/728ST/728SAT/ 729/729BP/729BPT	DCJ-55-A (SUS304)	2 inch stainless steel side-access freezer rack 5*5 (2 inch freezer box*25 units)	20	500	50000
	DCJ-55-B(SUS201/304)	2 inch stainless steel sliding-drawer freezer rack 5*5 (2 inch freezer box*25 units)	20	500	50000
DW-86L828J/828JA /828S/828ST/829/829BP/829BPT/828W	DCJ-55-A (SUS304)	2 inch stainless steel side-access freezer rack 5*5 (2 inch freezer box*25 units)	24	600	60000
	DCJ-55-B(SUS201/304)	2 inch stainless steel sliding-drawer freezer rack 5*5 (2 inch freezer box*25 units)	24	600	60000
DW-86L959BP/ 959BPT/959W	DCJ-55-A (SUS304)	2 inch stainless steel side-access freezer rack 5*5 (2 inch freezer box*25 units)	28	700	70000
	DCJ-55-B(SUS201/304)	2 inch stainless steel sliding-drawer freezer rack 5*5 (2 inch freezer box*25 units)	28	700	70000
DW-86L100J	DCJ-53-A (2014)	2 inch stainless steel side-access freezer rack 5*3 (2 inch freezer box*15 units)	4	60	6000
	DCJ-53-B(SUS201/304)	2 inch stainless steel sliding-drawer freezer rack 5*3 (2 inch freezer box*15 units)	4	60	6000
DW-86W420J/420JA	DCJ-10-A (2014)	2 inch chest-type freezer rack (2 inch freezer box*10 units)	27	270	27000
DW-86W100J	DCJ-08-A(2014)	2 inch chest-type freezer rack (2 inch freezer box*8 units)	9	72	7200
DW-150W200	DCJ-10-A (2014)	2 inch chest-type freezer rack (2 inch freezer box*10 units)	12	120	12000
DW-150W209	DCJ-10-A(2014)	2 inch chest-type freezer rack (2 inch freezer box*10 units)	12	120	12000
DW-86L51J	DCJ-53-B(SUS201/304)	2 inch stainless steel sliding-drawer freezer rack 5*3 (2 inch freezer box*15 units)	2	30	3000