

ULT Freezer Solutions



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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.



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

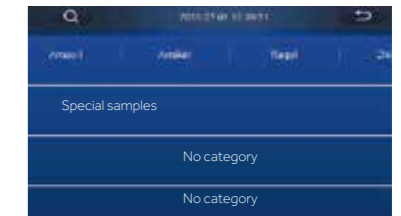


Large Intelligent LCD Screen Visual Management

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.

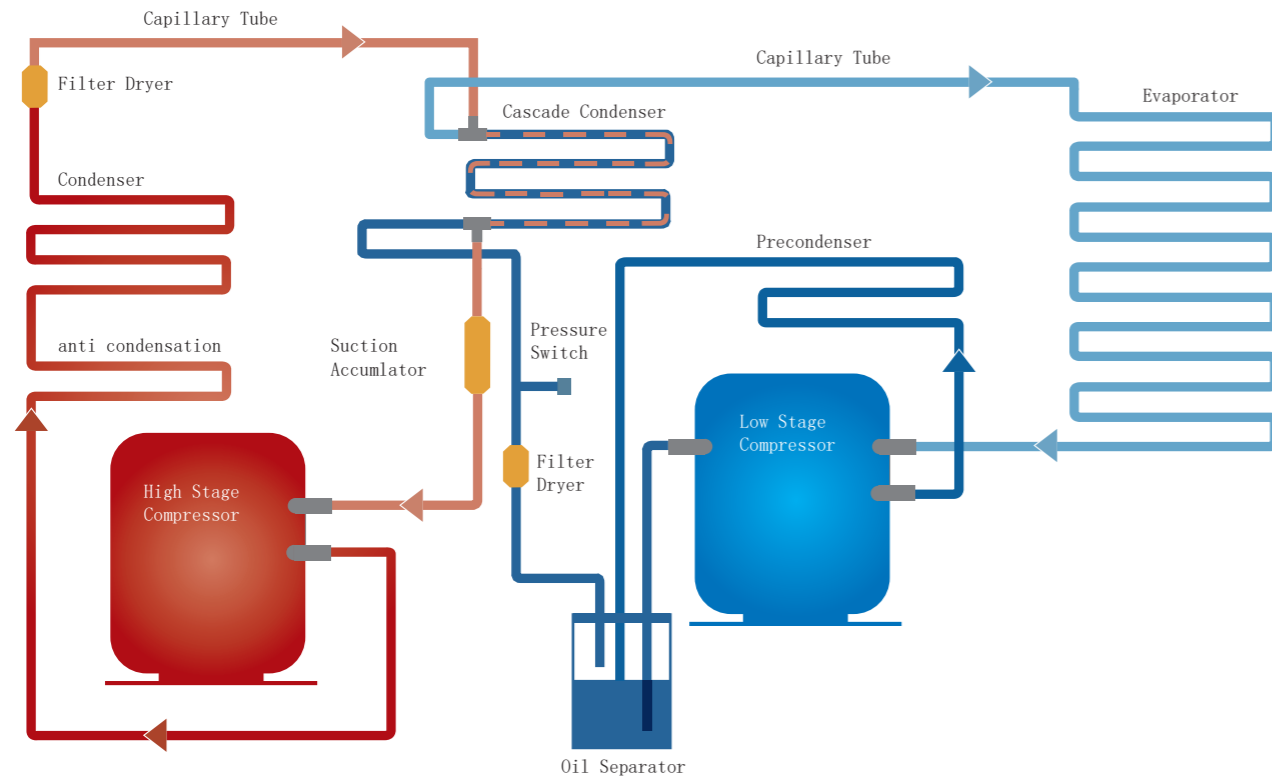
Equipped with Multiple Interfaces










- 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.



	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 >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 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.

**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)	650		700	1000		650			1000			900		1000		750		1000	1000		1200										
	Electrical Current (A)	7.5		12	7.5		5			10			8		8		7.5		12	9		11										
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 (approx)	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*893*1846						812*980*1980						945*900*1980						860*900*1980				903*980*1960				1035*900*1980			
		in	32.7*35.2*72.7						31.2*38.6*78.0						37.2*35.4*78.0						33.9*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						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						36.4*38.8*84.6				37.4*41.5*83.7				42.5*38.0*84.6				
Container load (20'/40'/40'H)	12/24/24						12/24/24						12/24/24						12/24/24				12/24/24				12/24/24					
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	N/A						N/A						N/A				N/A				N/A										
	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/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											
Others	Certification	CE		UL		CE			CE			CE		UL		CE,ENERGYSTAR		UL,ENERGYSTAR		UL		CE										

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