



Ocean's Ultra-Low Temperature Freezer



-86°C Ultra Low Temperature Deep Freezer



Temperature Control System

- Controlled by micro-computer, LCD display touched screen; USB & RS485 data port for downloading the data.
- The inner temperature can be adjusted at the range of -50°C - 86°C, the temperature Uniformity is +/-5°C.
- There are a variety of ultra-low temperature storage solutions for individual laboratory users to choose from to meet the growing demand for sample storage.

Temperature Control

- Microprocessor control, 7" color LCD touch screen display inner temperature clearly, and with easy view; on board data storage for least 10 years and USB port for exporting the data.
- The recovery time 15-20 minutes at 1 minutes of 90° door open at full load condition with ambient temperature of 20°C.
- The inner temperature can be adjustable at the range of -50°C~-86°C, with an increment of 0.1°C;
- Freezer provide all the door opening and closing duration data.
- Lock and password for protection to prevent arbitrary adjustment of operating parameters.

Construction

- Outer body High Quality anti-microbial powder coated Mild Steel.
- High-quality stainless steel 304 G 20swg Anti-corrosive and rust-proof.
- V.I.P+PUF insulation panels to ensure the insulation performance;
- Triple points silicon door gasket.

Safety Control

- Audible and visible alarm system for unwanted temperature rise, sudden power failure, system failure and battery low, high and low temperature, hot condenser, door ajar, Remote Alarm, generic service warning and low display battery.
- Three alarming methods: buzzer alarming, digital flashing alarming and Remote alarm.
- Protection function: power-on delay, time between stops, 72h alarm & display
- Power-switch to avoid accidental switch-off of unit.

Refrigeration System

- Optimized cascade refrigeration technology, ISI marked compressor to reach a high refrigeration effect; HFC-free, CFC-free, HCFC-free non-flammable refrigeration system.
- Specially designed Heat Exchanger, high efficient heat transfer, energy conservation;
- CFC-Free overall polyurethane foaming insulation;
- Vents port decompression valve facility to lower air pressure for easy door opening and allowing user to re-open the door.

Ergonomic Design

- Safety door lock, preventing unauthorized access, RFID access.
- Wide voltage design from 192V to 242V 50-60hz;
- Ground clearance 100 mm (10cm).
- Pressure-equalization port design, easy to open the door;
- Heavy type caster and locking with adjustable screw, easy to move and fix;
- Ultra-simple condenser filter design, convenient for maintenance and washing.
- The levelling for adjustments will be available.

Humanized Design

- Unique handle design: the door can be opened by both hands, individual press lock on the handle and 2 padlocks;
- Unit has Test hole nos. 2/25mm diameter for CO2/LN2 back-up.
- Press-out type dust removal cover with locks, simple and convenient for maintenance.



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Basic	Model No	OLSC-119-80-28	
	Cabinet Type	Upright	
Technical Parameter	Compartment	4	
	Shelves	5	
	Cooling Type	Direct Cooling	
	Ground Clearance (mm)	100	
	Temperature Performance	-86°C	
	Refrigerant	HC(R290&R170)	
	System type	Cascade system	
	Insulation	PUFF/VIP	
	Power (W)	890	
Temperature	Noise Level(db)	50	
	Ambient Temperature (C)	10°C~35°C	
	Temperature Range (C)	-50°C~ -86°C	
Controller	Compressor	2	
	Temperature Accuracy	+2°C	
	Temperature Controller	Fully programmable microprocessor controlled with 7 inches LCD touch screen display and eye level control panel on board data storage for 10 years and USB port for exporting the data.	
	Sensor Type	PT 100/1000	
Electronic Parameter	Voltage / Frequency	220V/50Hz/60Hz	
	Electricity (A)	8.64	
	Capacity (L)	828/29.59	
Size	Power consumption	11.5KW	
	Net/Gross Weight(Kg)	397/430	
	Packing Size (W*D*H)mm	1262x1098x2185	
	Outer Size (W*D*H)mm	1179x1135x1994.5	
	Inner Size (W*D*H)mm	894x718x1310mm	
Alarm & System	RFID Access	Y	
	High / Low Temperature	Y	
	High /ambient temperature	Y	
	Power Off	Y	
	Abnormal Voltage	Y	
	Sensor Malfunction	Y	
	Filter Check	Y	
	Low battery	Y	
	Temp. Controller Malfunction	Y	
	Battery Backup Malfunction	Y	
	Co2/LN2 Backup	Optional	
	Cryo racks/Cryo box	Y	
	Ambient Temperature	Y	
	Thermostat failure	Y	
	Door Ajar	Y	
Connectivity	Test Hole/Diameter	2/25mm	
	Foot	Y	
	Chart recorder	Optional	
	Data logger	Y	
	Co2 port	Y	
	LN2 port	Y	
	Cryo Gloves/ICE Scraper	Y	
	USB Port	Y	
	Remote Alarm Contact	RS232/485	
Utility & certificates	RS232/485 Port (4-20ma Output) Dry Contacts	Y	
	Voltage Stabilizer	5KVA	
	Castor	Y	
	Power failure backup (alarm)	72h	
	Certification	ISO 9001, CE Certified, FDA, IEC 60601-1 & IEC 61010-1	

Model	Plan	Freezer Rack Model	Plana	Freezer Rack Quantity Unit		Cryogenic Box Quantity unit		Cryogenic vial Quantity Unit (2ml)
				Spec	Quantity	Spec (Standard)	Quantity	10x10 grid
OLSC-119-80-28	A	OLSC-56-CT-838	Side Type	5x5	24	2 inch	600	60000
	B	OLSC-56-CT-838	Drawer Type	5x5	24		600	60000

Optional Accessories



Upright rack



Sliding rack



Chest rack



Poly Carbonate Box (2")



Co2 / Ln2 Backup System



U-System
(remote alarm, wireless control system)



Frost remover



Cryogenic gloves (Cryo gloves)

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CORPORATE ADDRESS

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