



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 -40°C-86°C, the temperature Uniformity is +/-3°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 with Real-time monitoring with SMS/email alerts, Cloud-based access with 5-year data logging
- Remote monitoring system, 21 CFR Part 11 compliant.
- The inner temperature can be adjustable at the range of -40°C~-86°C, with an increment of 0.1°C;
- 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;

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.
- Power-switch to avoid accidental switch-off of unit.

Refrigeration System

- Optimized cascade refrigeration technology, dual ISI marked compressor to reach a high refrigeration effect;
- Specially designed Heat Exchanger, high efficient heat transfer, energy conservation;
- Naturally occurring Hydrocarbon (HC) refrigerants and insulation materials with ultra-low global warming potential (GWP) levels.
- CFC-Free overall polyurethane foaming insulation;
- High efficient hydrocarbon refrigerant.
- Vents port decompression valve facility to lower air pressure for easy door opening and allowing user to re-open the door in 60 seconds.

Ergonomic Design

- Safety door lock, preventing unauthorized access;
- Wide voltage design from 192V to 242V;
- Ground clearance 100 mm (10cm).
- 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 for front to back and side to side.
- Washable condenser filter indicator which keeps fins free of dust to maintain peak cooling efficiency

Humanized Design

- Unique handle design: the door can be opened by both hands, individual press lock on the handle and padlocks;
- Wide voltage design can help it work stably under 198-254V;
- 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.



Pull down time -80°C ≤ 6 hours at ambient 25°C

-86°C Ultra Low Temperature Deep Freezer



Model No		OLSC-119-80-35
Basic	Cabinet Type	Upright
	Compartment	4
Technical Parameter	Shelves	4
	Cooling Type	Direct Cooling
	Ground Clearance (mm)	100
	Temperature Performance	-86°C
	Refrigerant	R290 / R170
	Power Consumption(kWh/day)	15 kWh
	Power (W)	1100
	Noise Level(db)	55
Temperature	Ambient Temperature (C)	10°C~32°C
	Temperature Range (C)	-40°C~ -86°C
Controller	Compressor	1hp x 2
	Temperature Uniformity	+3°C
	Temperature Controller	Fully programmable microprocessor controlled with 7 inches LCD touch screen display and eye level control panel.
Electronic parameter	Sensor Type	PT100/PT1000
	Voltage / Frequency	220V/50Hz
	Electricity (A)	8.64
	Capacity (L)	1000
Size	Net/Gross Weight(Kg)	397/430
	Packing Size (W*D*H)mm	1155x1150x2190mm
	Outer Size (W*D*H)mm	1135x1115X1980mm
	Inner Size (W*D*H)mm	880x860x1310mm
	RFID Access	Optional
Alarm & System	High / Low Temperature	Y
	Power Off	Y
	Abnormal Voltage	Y
	Sensor Malfunction	Y
	Filter Check	Y
	Temp. Controller Malfunction	Y
	Battery Backup Malfunction	Y
	Co2/LN2 Backup	Optional
	Cryo racks/Cryo box	Y
	Ambient Temperature	Y
Connectivity	Door Ajar	Y
	21 CFR Part 11 compliant	Y
	SMS/email alerts	Y
	USB Port	Y
Utility & certificates	Remote Alarm Contact	Y
	RS232/485 Port (4-20ma Output) Dry Contacts	Y
	Voltage Stabilizer	Suitable
	Castor	Y
	Power failure backup (alarm)	72h
Certification		ISO 9001, CE Certified, FDA, IEC 60601-1, IEC 61010-1 & UL compliance

Model	Plan	Freezer Rack Model	Plan	Freezer Rack Quantity Unit		Cryogenic Box Quantity unit		Cryogenic vial Quantity Unit (2ml)
				Spec	Quantity	Spec (Standard)	Quantity	10x10 grid
OLSC-119-80-16	A	OLSC-56-CQ-567	Side Type	5x5	16	2 inch	400	40000
	B	OLSC-56-CT-567	Drawer Type	5x5	16		400	40000
OLSC-119-80-18	A	OLSC-56-CQ-707	Side Type	5x5	20	2 inch	500	50000
	B	OLSC-56-CT-707	Drawer Type	5x5	20		500	50000
OLSC-119-80-20	A	OLSC-56-CT-838	Side Type	5x5	24	2 inch	600	60000
	B	OLSC-56-CT-838	Drawer Type	5x5	24		600	60000
OLSC-119-80-35	A	OLSC-56-CT-990	Side Type	5x5	30	2 inch	720	72000
	B	OLSC-56-CT-990	Drawer Type	5x5	30		720	72000

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

Address: A3/27A, Chanakya Place, Part-1,
Opp: C-2 Janak Puri, Pankha Road New
Delhi-110059, INDIA

Overseas Partner

30 N Gould St, Ste R Sheridan, Wyoming 82801
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