



# 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 or RS485 data port for downloading the data.
- The inner temperature can be adjusted at the range of -40°C-86°C, with 1°C increment at ambient 32°C, and 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 inner temperature clearly, and with easy view;
- The inner temperature can be adjustable at the range of -40°C~-86°C.
- Security Lock and password for protection to prevent arbitrary adjustment of operating parameters.

## Construction

- Outer body High Quality anti-microbial CRCA powder quoted galvanized 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, 72h backup for alarm, security lock & display
- Power-switch to avoid accidental switch-off of unit.

## Refrigeration System

- Two independent hydrocarbon (HC) refrigeration compressor systems.
- Two high-efficiency refrigerant systems work independently, if one system fails, the other can still maintain the temperature at -75°C
- Inverter technology
- CFC-Free overall polyurethane foaming insulation;
- Vent port as decompressor valve.

## Ergonomic Design

- Safety door lock, preventing unauthorized access.
- Wide voltage design from 192V to 242V;
- Ground clearance 100 mm (10cm).
- Solid Outer door with triple silicon gasket for enhance the performance of the machine.
- Battery backup for the display, security lock, alarm and data recording facility.
- 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 available.

## Humanized Design

- Unique handle design: the door can be opened by both hands, individual press lock on the handle and 2 padlocks;
- Integrated sample management software for seamless identification, archival, and tracking.
- Unit has Test hole nos. 1/25mm diameter for CO<sub>2</sub>/LN<sub>2</sub> back-up.
- Press-out type dust removal cover with locks, simple and convenient for maintenance.



# -86°C Ultra Low Temperature Deep Freezer



Basic	Model No	OLSC-119-80-20
	Cabinet Type	Upright Vertical
Technical Parameter	Compartment	4
	Shelves	4
	Cooling Type	Direct Cooling
	Ground Clearance (mm)	100
	Temperature Performance	-86°C
	Refrigerant	Eco friendly, CFC & HCFC free.
	System type	Two independent hydrocarbon (HC) refrigeration compressor systems
	Power failure backup	72h (Alarm, security lock & Display)
	Insulation	PUFF/VIP
	Power Consumption(kWh/day)	10 kwh
	Power (W)	1600
	Noise Level(db)	42
Temperature	Ambient Temperature (C)	10°C~32°C
	Temperature Range (C)	-40°C~ -86°C
Controller	Compressor	ISI marked
	Temperature Uniformity	+3°C
	Temperature Accuracy	0.1°C
	Temperature Controller	Fully programmable microprocessor controlled with 7 inches HMI based LCD touch screen display and eye level control panel.
Electronic parameter	Sensor Type	PT-100
	Voltage / Frequency	220V/50Hz/60Hz
	Electricity (A)	7
Size	Capacity (L)	707
	Net/Gross Weight(Kg)	359/350
	Packing Size (W*D*H)mm	1155x1144x2100
	Outer Size (W*D*H)mm	1070x1070x1990
	Inner Size (W*D*H)mm	740x720x1310
Alarm & System	RFID Access	Optional
	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
	Sample Management	Y
	Ambient Temperature	Y
	Thermostat failure	Y
Connectivity	Door Ajar	Y
	Test Hole/Diameter	1/25mm
	Foot	Y
	Chart recorder	Optional
	Data logger	Optional
	Co2 backup system	Optional
	LN2 backup system	Optional
	Gloves/Ice-Scraper	Optional
	USB Port	Y
Utility & certificates	Remote Alarm Contact	RS232/485
	RS232/485 Port (4-20ma Output) Dry Contacts	Y
	Voltage Stabilizer	Y
	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-119-80-20	A	OLSC-56-CQ-707	Side Type	5x5	20	2 inch	500	50000
	B	OLSC-56-CT-707	Drawer Type	5x5	20		500	50000

# -86°C ULT Freezer-Frequency Conversion Dual System

System A

System B

-86°C Frequency Conversion Dual-System ULT Freezers. The unit is equipped with two independent refrigeration systems, this ultra-low temperature freezer ensures uninterrupted protection. If one compressor is not functioning, the other compressor will maintain the temperature at **-80°C to ensure the samples safety(AT25°C)**

## OCEAN LIFE SCIENCE CORPORATION

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