Ocean™
Life Science Corporation

Ultra Low Temperature Deep Freezer

BioFreezing Technology



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01 ULT Freezers -86°C

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Specification

- **Temperature Control System:**
- **Controlled by micro-computer with LCD touch screen display; USB & RS485 data ports for downloading data.**
- **The inner temperature can be adjusted from -50°C to -86°C with a regulation accuracy of 0.1°C.**

- **Security Control System:**
- **Multi malfunction alarms including high/low temperature, sensor failure, condenser dirty, low battery, power failure, overpressure, ambient temperature, and door open alarms ensure safe use.**
- **History alarm information and data can be checked and stored for over 10 years.**
- **Three alarm methods: buzzer, independent light, and remote alarm.**
- **Protection features include compressor power-on delay, overpressure, password, and operation protection under failure mode. Password protection prevents unauthorized parameter changes.**
- **Display screen with running and communication status indicators shows real-time operation.**
- **The power switch has dual fuse over-current protection and a power-on indicator for safety.**

- **Refrigeration System:**
- **Optimized cascade refrigeration with special evaporation and condensation systems for high cooling efficiency.**
- **Two powerful compressors operated at low speed for longer life**
- **Equipped with internationally renowned brand compressor, EBM fan motor, and oil separator for stable performance. Enhanced double-door sealing and patented heating-free pressure-balanced valve for easy door opening and fire prevention.**

- **Humanized Design:**
- **Ergonomic handle operable with both hands, press lock and dual padlock provision.**
- **Heated, spring-assisted pressure equalization port prevents vent icing.**
- **Wide voltage design (198–254V) ensures stable operation.**
- **Door opening recovery time ≤ 20 min**
- **Individual inner doors which can be opened independently to minimize sample exposure**
- **Triple gasket seal for maximum protection against thermal intrusion**
- **Displays temperature curve and historical data with data export function.**
- **Fitted with caster wheels with adjustable lock.**
- **Press-out dust removal cover with locks for easy maintenance and thermometer port for temperature verification.**
- **Noise level less than 52dBA which ensures a quiet and pleasant working environment of laboratory.**

Features

Optimal Energy Efficient Performance
HC refrigerant, frequency conversion technology and optimized structural design combine to lower operating costs compared to previous generation by up to 50%.

Significantly Enhanced Performance
OCEAN ULT series features lower energy consumption, a longer holdover time, faster temperature recovery time and re-entry time, as well as reduced noise.

Green and Environmental Friendly
Naturally occurring Hydrocarbon (HC) refrigerants and insulation materials with ultra-low global warming potential (GWP) levels exert an extremely minimal impact on the environment.

Super-stable Cooling System



Introducing New

UNDERCOUNTER MODEL

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Technical Specifications

Basic	Model No	OLSC-119-80-12	OLSC-119-80-18	OLSC-119-80-20
	Cabinet Type	Upright		
	Shelf	4	4	4
Technical Parameter	Door	4	4	4
	Cooling Type	Direct Cooling		
	Ground Clearance (mm)	100/128		
	Temperature Performance	-86°C		
	Refrigerant	R290 / R170		
	Power Consumption(kWh/day)	7.5 kwh	7.5 kwh	10 kwh
	Power (W)	1300	1450	1600
	Noise Level(db)	52		
Temperature	Ambient Temperature (C)	10°C~45°C		
	Temperature Range (C)	-50°C~ -86°C		
Controller	Compressor	1hp x 2		
	Temperature Uniformity	+3°c		
	Temperature Controller	Microprocessor LCD display touched screen with 0.1 °c/1°c increment		
	Sensor Type	PT100/PT1000		
Electronic parameter	Voltage / Frequency	220V/50Hz		
	Heat Output(W)	322	335	375
	Electricity (A)	7	7	7
	Capacity (L)	437	567	707
Size	Net/Gross Weight(Kg)	300/330	317/350	359/350
	Packing Size (W*D*H)mm	875x1144x2100	1005x1144x2100	1155x1144x2100
	Outer Size (W*D*H)mm	790x1070x1990	920x1070x1990	1070x1070x1990
	Inner Size (W*D*H)mm	460x720x1310	590x720x1310	740x720x1310
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 Backup	Optional		
	Cryo racks/Cryo box	Optional		
	Ambient Temperature	Y		
	Door Ajar	Y		
Connectivity	Test Hole/Diameter	1/25mm		
	Foot	Y		
	USB Port	Y		
	Remote Alarm Contact	Y		
Utility & certificates	RS232/485 Port (4 -20ma Output) Dry Contacts	Y		
	Chart Recorder	Optional		
	Stabilizer 5KVA	Y		
	Castor	Y		
	Backup for display and alarm	72 hrs		
	Certification	ISO 9001, CE Certified, FDA, IEC 60601 -1 & IEC 61010 -1		

Model	Plan	Freezer Rack Model	Plan	Freezer Rack Quantity Unit		Cryogenic Box Quantity unit		Cryogenic vial Quantity Unit (2ml)	
				Spec	Quantity	Spec (Standard)	Quantity	9x9 grid	10x10 grid
OLSC-119-80-12	A	OLSC-56-CQ-437	Side Type	5x4, 4x4	16	2 inch	288	28800	34000
	B	OLSC-55-CT-437	Drawer Type	5x5	12		300	24300	30000
OLSC-119-80-18	A	OLSC-56-CQ-567	Side Type	5x5	16	2 inch	400	32400	40000
	B	OLSC-56-CT-567	Drawer Type	5x5	16		400	32400	40000
OLSC-119-80-20	A	OLSC-56-CQ-707	Side Type	5x5	20	2 inch	500	40500	50000
	B	OLSC-56-CT-707	Drawer Type	5x5	20		500	40500	50000

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ULT Freezers -86°C

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Upright freezers with flexible loading options



Racks with drawers for upright freezers



The data logger can be fixed to deep-freezers magnetically and configured or read via a USB interface



OCEAN deep-freezers are characterized by first-class craftsmanship and high flexibility



Application-oriented space utilization solutions provide increased variability and user-friendliness



Flexible combinations of drawers, inner compartments and special solutions for specific requirements



Accessories



Front sliding rack



Side sliding rack



Chest rack



Co2 / Ln2 Backup System



Ice Scrapper



Cryo Gloves