

B.O.D

INCUBATOR

B i o l o g i c a l O x y g e n D e m a n d



Creating Safe Solutions for Life Science Laboratories
Engineered for Simplicity and Efficiency
Certified for Safety and Performance



NSIC **CE**
CERTIFIED CO.

Specially designed for incubation of Biochemical Oxygen demand on water and sewage; can be used as environmental study and optional feature as growth chamber by incorporating lighting and humidification system.

APPLICATION ADVANTAGE



“OCEAN” brings the ultra-high-tech Triple walled Microprocessor controlled, solid-state heating/cooling incubator (BOD Incubator) down to earth.

Specially designed for incubation of Biochemical Oxygen demand on water and sewage; can be used as environmental study and optional feature on demand only as growth chamber by incorporating lighting and humidification system.

Used in various applications for microbiology, cell cultivation of animals, plants & food studies- where experiments requiring low temperature conditions. Used for microorganism or activation, good storage and desalting process of enzyme extracts and for preservation of vaccines, insulin, level extracts, a* 15°C for serological and complement fixation tests for enzymatic digestion process.

Biochemical oxygen demand (BOD) represents the amount of oxygen consumed by bacteria and other microorganisms while they decompose organic matter under aerobic (oxygen is present) conditions at a specified temperature.


(OLSC-103 Series)



Axial Fan 

SS Wire Mesh Shelves Adjustable 

Reliable Temperature Cooling & Heating 

Low energy consumption 

- Low noise level
- Easy to grip handle-door
- Low energy consumption
- Full 304 / 316L stainless steel interior
- 100% pure natural refrigerants

CONSTRUCTION & SPECIFICATION:-

- Useful for biological culture under various temperatures
- Double Walled Robust construction outer chamber is made of Electro Galvanized (GI) Steel duly pretreated.
- Inner chamber made of STAINLESS STEEL SHEET (304/316L Grade).
- Inner chamber is fitted with ribs for adjusting shelves to convenient height (1 inch) .
- Fitted with durable coaxial blower for forced air circulation at triple walled back to maintain temperature excellent temperature stability / uniformity in the chamber.
- Outer front double walled door is insulated and is fitted with heavy hinges and magnetic tape for air tight closing for no temperature loss, provided with lock and key arrangement to prevent unauthorized access.
- A full view inner Glass door enables inspection and monitoring of inner chamber specimens without disturbing the process temperature.
- High grade glass wool CFC free polyurethane foam insulation between outer and inner chamber for minimal thermal losses.
- Cooling is done by finned tube evaporator lie in the air circulation path by ISI marked hermetically sealed Compressor Units with HCFC / CFC free an eco friendly refrigerant.
- Heating by long life SS tubular air heaters are placed in the path of moving air duly insulated from the body.
- Supplied with modular removable shelves for completely flexibility in use.
- Control panel having all controls and circuitry with Temperature controller cum Indicator Microprocessor based with LED display for Set Value (SV) & Process Value (PV) to select any desired temperature provided.
- Audible & Visual Alarm for High & Low Temperature, Power Failure, Sensor Failure and Door Open.
- Caster wheel mounted for easy portability.
- Supplied with cord and plug.
- Operating Voltage: 220-230 Volts AC (50 Hz).

Technical Specifications Cooling Model OLSC-103 SERIES

OLSC-103 SERIES

Cooling Model: 0°C to 65°C (Resolution 0.1°C)

MODEL NO	OLSC-103-1	OLSC-103-4
CAPACITY L	27	121
No. Of Shelves	3 Stainless steel shelves (Removable)	2 Racks
Inner dimension (mm)	300*300*300	450*450*600
Temperature Range	5°C to 65°C , ±0.1°C	
Accuracy	±0.1°C (Of Feed Value)	
Stability / Uniformity	±0.5°C	
Temperature Control	Microprocessor (PID) with PT-100 Sensor	
Display	LED display for Set Value (SV) & Process Value (PV)	
Auto Tuning System	System is compatible with auto tuning system	
Air Circulation	By forced convection system	
Relay	Solid state electronic relay with protective heat sink.	
Insulation Thickness	70 mm minimum for Body & 80 mm for Door	
Operations	Nearly silent operation with ultra-low vibration	
Nominal voltage	220-230 Volts, 50 Hz Single Phase	

Glass Door Model



Solid Door Model



Optional Accessories

- GMP models : With inner chamber & outer body complete made of Stainless Steel
- Lighting system : interior Chamber illumination with the help of 2/4/6 Nos. fluorescent tubes
- Cyclic Timer : 24 hours Cyclic Timer for regulating illumination conditions ON/OFF Mode
- Graphic LCD : LCD display with additional features.
- Touch Screen Display : 3.5" / 5" / 7" inch big color touch screen (PLC Based Control System).
- Printing Facility : By Thermal Printer.
- Dual Temperature Controller : For day and Night Temperature Control cycle.
- Door Open Alarm : Door Open Alarm on timed basis.
- USB Data Logger : Through Pen drive.
- Display Backup : Battery backup in case of power failure for display & Alarms
- Multipoint Data logger : for 8 Point temperature recording with sensor printer interface and software
- Chart recorder : Seven days circular temperature chart recorder
- GSM Module : GSM alert through SIM card



Ocean Life Science Corporation

Leading manufacturer of laboratory equipment's

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PUNE

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We also offer:

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HMI & PLC, SOLUTIONS , CONSULTANCY SERVICES



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ISO 9001:2015, ISO-13485, CE WHO-GMP
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Electrical Safety standard:- IEC60601-1

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An ISO 9001:2008 | ISO 13485 | EN: 12469 Compliance
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