

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)



Key Features

- **Temperature Range:** 5°C to 70°C with $\pm 0.5^\circ\text{C}$ accuracy
- **Lighting:** 15W LED white light (800 lux) for sample visibility
- **Mobility:** 4 lockable castor wheels with brakes
- **Safety:** Open door alarm with adjustable delay
- **Insulation:** 70-80 mm PUF (R-value $5.6 \text{ m}^2\cdot\text{K/W}$)

Axial Fan



SS Wire Mesh Shelves
Adjustable



Reliable Temperature
Cooling & Heating



Low energy consumption



CONSTRUCTION & SPECIFICATION:-

- Useful for biological culture under various temperatures
- Double Walled Robust construction outer chamber is made of mild Steel epoxy powder coated finish.
- Inner chamber made of Stainless Steel Sheet (304 grade).
- Inner chamber is fitted with ribs for adjusting Perforated Stainless Steel Trays/shelves to convenient height (1 inch) .
- Fitted with durable Motorized Air Circulation Fan/blower for forced air circulation at triple walled back to maintain temperature excellent temperature stability / uniformity in the chamber.
- Outer front double walled window 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 Acrylic transparent door (8 mm thick) enables inspection and monitoring of inner chamber specimens without disturbing the process temperature.
- High grade CFC free glass wool (PUF -70-80 mm) 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.
- UV tube inbuilt for chamber sterilization
- Natural relative Humidity system (without control).
- Heating by long life SS tubular air heaters are placed in the path of moving air duly insulated from the body.
- Supplied with removable Perforated Stainless Steel Trays/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.
- Independent safety thermostat and temperature alarm, IQ, OQ & PQ Documentation.
- Caster wheel mounted for easy portability.
- Supplied with 2 meter cord and plug.
- Operating Voltage: 220-230 Volts AC (50 Hz).

Technical Specifications Cooling Model OLSC-103 SERIES

OLSC-103 SERIES

MODEL		OLSC-103-4	OLSC-103-8	OLSC-103-12	OLSC-103-14	OLSC-103-16
Approx Volume (Ltr.)		120	200	300	400	500
Inner dimension (mm)		455 x 455 x 605	450x 655 x 660	650 x 550 x 850	700 x 650 x 900	800 x 650 x 970
No. of Shelves		2	3	3	6	6
Temperature	Range	5 Deg. C. to 60 °C.				
	Accuracy	± 0.5°C				
	Uniformity	± 1°C				
Controller		Micro PID Controller LED Display				
Temperature sensor		PT 100 type RTD				
Air Circulation		Air circulation fan				
Insulation		By High density mineral glass wool 70 mm minimum for Body & 80 mm for Door				
Relay		Solid state electronic relay with protective heat sink.				
Mobility		4 number of heavy duty lockable caster wheels				
Electric Supply		220-230V AC, 50/60Hz				
Inner Material		Stainless Steel 304 (SS304)				
Exterior		Mild Steel, Epoxy Powder Coated (SS304 optional)				
Certifications		CE, ISO, NABL, IQ,OQ,PQ, NSIC, MSME, MII,				

Optional Features For Future Upgradation

- 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
- Digital Event Timer : Automatic operation scheduling
- Humidity System : Natural relative humidity Entomology & specialized biological studies
- Humidity : Humidity Display
- Humidity control : Humidity Controller
- Lightning : Colorful
- Q/OQ/PQ Documentation : GMP & Validation Support

Ocean Life Science Corporation

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