

55
years of
excellence

 **thermolab**
scientific equipments
A Thermolab Group Company

Incubators

Walk in BOD Incubator



BOD Incubator

BOD & Bacteriological Incubators

Incubators are used for the growth of microorganisms in many fields, including pharmaceuticals, agricultural, environmental, food & industrial microbiology; public health; basic research; & education.

Two types of incubators are commonly used:

1. BOD incubators.
2. Bacteriological incubators.

The main difference between these two types of incubators is temperature.

Biochemical Oxygen Demand (BOD, also called Biological Oxygen Demand) is the amount of dissolved oxygen needed – demanded – by aerobic biological organisms to breakdown organic materials present in a given sample at certain temperature over a specific time period.

BOD incubators are normally rated in the range of 20°C to 60°C.

In **Bacteriological incubators**, the set temperatures are normally in the range of 10°C above ambient to 60°C.

BOD Incubator



Standard Features

- Interior Stainless Steel and Exterior PPGI/Stainless Steel finish.
- Adequate illumination inside the chamber.
- Inside observation glass door
- Racks & trays made of Stainless Steel with adjustable tray height.
- 100% redundant refrigeration systems with automatic changeover.
- CFC free refrigeration systems.
- PLC based control system with colour HMI
- Works on 230/415 volts 50/60 Hz or as per requirement.

Technical Data

- Temperature range: 20°C to 60°C.
- Temperature Control Accuracy/Uniformity : $\pm 0.2^{\circ}\text{C}$ / $\pm 2.0^{\circ}\text{C}$
- Capacities : 90 L, 200 L, 325 L, 400 L, 600L, 800L, 1000L
- Complete with IQ, OQ, PQ documents, Operation and Maintenance manuals.

Walk In BOD Incubator



Standard Features

- Prefabricated modular structure with PUF/Rockwool insulated panels & reinforced Door panel.
- Interior Stainless Steel and Exterior PPGL/Stainless Steel finish.
- Adequate illumination inside the chamber.
- Glass view panel with specially designed leak proof door.
- Racks & trays made of Stainless Steel with adjustable tray heights.
- CFC free refrigeration systems.
- PLC based control system with 7" colour HMI for
- Walk-in BOD incubators
- Works on 230/415 volts 50/60 Hz or as per requirement.

Additional features

- Safety system to cut off the power supply in case of overshoot and undershoot of Temperature conditions giving audio visual alarms.
- Additional safety thermostat to cut off the power supply in case of temperature overshoots.
- Emergency push button inside the chamber to de-energise magnetic lock.
- Panic switch inside the chamber with audible alarm outside.
- Manual unlocking mechanism for door from inside the walk-in chamber.



Technical Data

- Temperature range: 20°C to 60°C.
- Temperature Control Accuracy/Uniformity : $\pm 0.2^\circ\text{C}$ / $\pm 2.0^\circ\text{C}$
- Capacities: 2000 L & 3000 L (Double Door)
- 4500L , 8000L , 12,500L, 18,500L , 28,000L, 36,000L, 50,000L, etc.

Note: Other Walk-In sizes are available on request.

- Complete with IQ, OQ, PQ documents, Operation and Maintenance manuals.

Bacteriological Incubator



Standard Features

- Interior Stainless Steel and Exterior PPGI/Stainless Steel finish.
- Adequate illumination inside the chamber.
- Inside observation glass door
- Racks & trays made of Stainless Steel with adjustable tray height.
- CFC free refrigeration systems.
- Works on 230/415 volts 50/60 Hz or as per requirement.

Technical Data

- Temperature range: 10°C above ambient to 60°C
- Temperature Control Accuracy/Uniformity : $\pm 0.2^{\circ}\text{C}$ / $\pm 2.0^{\circ}\text{C}$
- Capacities : 90 L, 200 L, 325 L, 400 L
- Complete with IQ, OQ, PQ documents, Operation & Maintenance manuals.



Complete after sales service provided such as installation, calibration, validation, repairs, modification & annual maintenance contracts.



This NABL accredited laboratory is equipped to carry out on site calibration & validation of various parameters like temperature, relative humidity, pressure, vacuum, dimension etc.

Thermolab Scientific Equipments Pvt Ltd.

Corporate Office:

Plot No.19/20/40/41, Vasai Municipal Industrial Area, Umela Road, Vasai (West),
Dist. Palghar - 401 207, Maharashtra, INDIA.

(M) : +91 88888 08300 (T) : +91 - 250 - 2322164, 2321627, 2310912, 2321656, 2310325 (E) : solutions@thermolabgroup.com

www.thermolabscientific.com | www.thermolabgroup.com



Unit II



Unit I



"As part of our continuous improvement program, design specifications and photographs given in this brochure are subject to change without notice and without attracting obligations for pre modification to equipment previously sold"