

# BOD INCUBATOR



## Description :-

BOD Incubator also known as Laboratory Incubator/ Bacteriological Incubator has in its acronym the following meaning; Biochemical Oxygen Demand and as its name suggests, this equipment is used to control the oxygen consumed by microorganisms while acting on the deterioration of matter. The BOD Incubator is developed for laboratories that need incubation temperature control, water quality control in relation to oxygen, pollution levels, and improvement of biology studies on insects, among others. The BOD Incubator is originally designed to incubate long-term tests of BOD (Biochemical Oxygen Demand). Due to its reliability and flexibility, it is used today in the most diverse applications: plant growth, germination, create and maintain microbiological or cell cultures, BOD, storage of reagents, and so on

## Standard Features :-

- Automatic digital temperature controller cum indicator
- Microprocessor based PID based temperature Controller
- Equipment coming fitted with hermetically sealed compressor support with provision of relay guard
- CFC free refrigeration unit
- Providing fast and accurate results
- Equipment provided with wheel support for easy mobility
- Forced-air circulation delivers excellent temperature stability



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## Standard Features :-

- Easy-to-clean, corrosion-resistant construction
- Main door offered in double walled as well as puff insulated finish
- Doors made available with lock & key provision for secure handling
- High grade PUF insulation support provided for stable temperature
- Suitable temperature uniformity provided in inside chambers through use of forced air-convection
- Audiovisual alarm alerts
- Fully Adjustable shelves

## Construction :-

Outer body of Refrigerated B.O.D. (Biochemical Oxygen Demand) are constructed out of thick PCRC, pre-coated corrosion resistant GI sheet duly pre-treated with primers and rust proofing and painted with long lasting stove enamel or elegantly powder coated. The inner chamber is made of heavy gauge stainless steel sheet of 304 grade. All BOD Incubator chamber models are trolley mounted with heavy duty caster wheels for easy mobility of equipment. Indoor glass door is optional which allows visibility of samples to be tested.



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## TEMPERATURE CONTROL :-

An energy efficient cooling unit is installed in our environment test chambers to enable studies at lower room temperatures. We use high end CFC free compressors of Kirloskar/Tecumseh / Bitzer/ Danfoss make, conforming to latest international standards and guidelines.

## Air Circulation :-

Triple walled back of unit is fitted with two air circulation fans for maintaining temperature uniformly throughout the chamber

## TECHNICAL SPECIFICATIONS :-

Temperature Range	5°C to 60°C
Temperature Accuracy	± 0.5°C
Temperature Uniformity	± 1°C
Temperature sensor	PT-100
Temperature Controller	Digital PID controller with SV & PV
Insulation	PUF Insulation
Inner Chamber Construction	SS 304



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## Temperature Range

5°C to 60°C

Outer Body

GI powder Coated

Door

Insulated Door

Shelves

Removable Perforated SS trays

Interior illumination

White LED Light

Heating Element

U shape Air heaters with circulation Fan

Cooling System

HCFC/CFC Free Compressor

Safety

Temperature High / Low alarm

Power supply

220 Volts +/- 10% at 50 Hz frequency

## Ordering Information :-

Model	Dimensions (w x D x H)	Volume	Shelves
HBS/BOD - 95	450 x 450 x 400 mm	95 Liter	2
HBS/BOD - 120	450 x 450 x 600 mm	120 Liter	2
HBS/BOD - 216	600 x 600 x 600 mm	216 Liter	4
HBS/BOD - 320	600 x 600 x 900 mm	320 Liter	5
HBS/BOD - 450	600 x 600 x 1250 mm	450 Liter	6
HBS/BOD - 600	600 x 800 x 1250 mm	600 Liter	8



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