

BOD Incubator

Model No: ATI-120



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BOD incubator is the most versatile and reliable low temperature incubator which is designed to maintain at 60°C (customizable), required for Biological Oxygen Demand/Biochemical Oxygen Demand (BOD) determination. BOD incubators provide controlled temperature conditions for accelerated tests and exposures. The biological oxygen demand (BOD) is an empirical test in which standardized laboratory procedures are used to determine the relative oxygen requirements of microbes in wastewaters, effluents, and polluted waters and in other words, it is a chemical process that determines how fast biological organisms use up oxygen in a body of water or it measures the oxygen required for the biochemical degradation of organic material and the oxygen used to oxidize inorganic materials, such as sulfides and ferrous iron. The seeding and dilution procedures provide an estimate of the BOD at pH 6.5 to 7.5.

Salient Features:

- Energy Efficient
- robust construction
- Low maintenance
- Reliable
- CFC free cooling
- Customizable
- Thermal Efficient Insulation

Construction :-

- Inner chamber is made up of high grade stainless steel SS-304 (SS-316 is optional)
- Outer chamber is made up of epoxy coated mild steel (SS-304 is optional)
- Tray is also supplied to make the shelves inside the chamber.
- Glass Wool Insulation: reduces heat losses in cabinet for better sensitivity and economical operations with minimal impact on the environment.
- Forced air circulation in the chamber by a blower ensures uniform temperature and humidity inside the chamber.
- Door: is provided with magnetic door closer and its outer body is made of powder coated MS and inner is made of SS-304.

Heating: is done with ISI marked strip type heaters placed around the inner chamber. The warm air is evenly distributed throughout the chamber through efficient motor fans ensuring very good temperature sensitivity

Cooling: We use energy efficient ISI marked high end CFC free compressors conforming to latest international standards and guidelines.

Humidity Range : Optional feature

Humidification: (Optional) Humidity is achieved by generating of steam by immersion type water heater in water reservoir & its subsequent condensation in the circulating air.

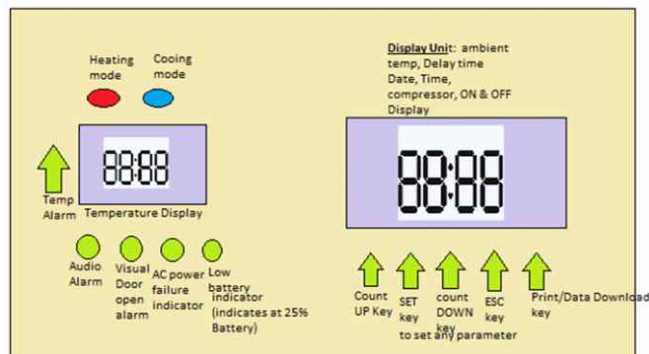
Temperature Control: The temperature inside our chambers is controlled through programmable micro-processor based temperature controller cum indicator.

Temperature Range: 2 to 60 deg C

Temperature Sensitivity: Temperature inside our environmental chambers is controlled with a sensitivity of + 0.5° c or better.

Air Circulation: circulated by ISI mark silicon winded motors which are connected to balanced blowers.

Microcontroller Based Control Panel



Technical Specifications

Construction	Inner	SS-304
	Outer	Powder coated MS
	Door	Inner SS-304 and outer MS
Temperature	Range	2 to 70 deg C
	Deviation	+ 0.5 degree C
	Readability	+ 0.5 degree C
Shelves	Number	2
	Dimension	According to inner size of cabinet
	Maximum load	20 kg
Humidity range		Optional
Controller		PID controller
Display		LED or LCD
Serial Data Port		RS 232
Power consumption		230 V, 50 Hz
Castors		Lockable
Dimensions (Inner chamber)		
Optional	Timer	1-999 hours
Accessories	Inspection window	In door
	LCD display	2 * 24 character display
	Adjustable alarm limits	Visual and acoustic

Size Inside Chamber

(WXDXH)	Capacity	Volume
455x410x610mm	4.0 Cu.ft	113 Ltrs
505x515x830mm	6.0 cu.ft	215 Ltrs
570x550x875mm	10 cu.ft	275Ltrs
650x580x900mm	12 cu.ft	340 Ltrs
700x650x900mm	15 cu.ft	410 Ltrs

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