

## BOD Incubator



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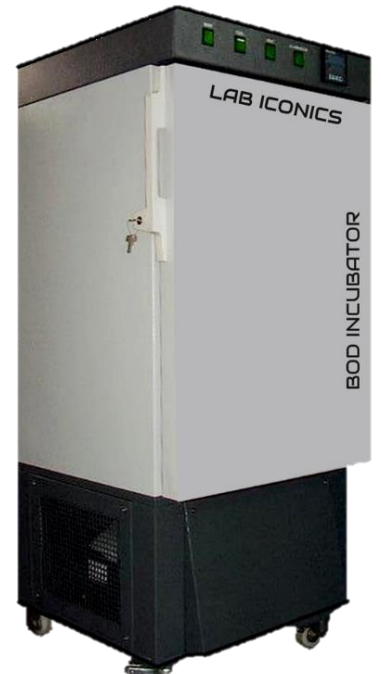
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## BOD Incubator

To meet requirements of maintaining temperature for test tissue culture growth, storage of bacterial cultures and incubation where high degree of constant temperature accuracy is required, we design, manufacture and supply **BOD Incubators** from small to large capacities with temperature range from **5°C to 60°C**. These Incubators offer excellent temperature control and comes with number of optional features that assist you in making your research comfortable and reliable.

A range of sizes are available from **50 litres to 1000 litres** with either single or double outer doors. All models are constructed with powder coated mild steel (stainless steel optional) and stainless-steel interiors and each have high and low temperature audible alarms.



### Features:

- *Microprocessor based, PID Digital Temperature Indicator and Controller.*
- *Temperature Range: +5°C up to 60°C (above 70°C on request)*
- *Accuracy:  $\pm 0.5^{\circ}\text{C}$  ( $\pm 0.2^{\circ}\text{C}$  on request)*
- *Resolution:  $\pm 0.1^{\circ}\text{C}$*
- *Capacity from 50 to 1000 Litres*
- *Forced air circulation for uniform temperature.*
- *CFC-free refrigeration system.*
- *Inner chamber made of Stainless Steel 304*
- *Inner Sub Doors Made of Acrylic*
- *Outer surface made of Mild Steel with 7 Cycle powder process coats; SS Optional Safety Features: Low & high temperature cut-off settable thermostats.*
- *High grade Polyurethane foam Insulation (PUF) insulation*
- *Stainless steel adjustable trays*
- *Heavy duty castor wheels for easy movement.*
- *Micro PLC controller and 21 CFR Part 11 Compliance software - optional*

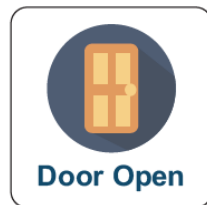
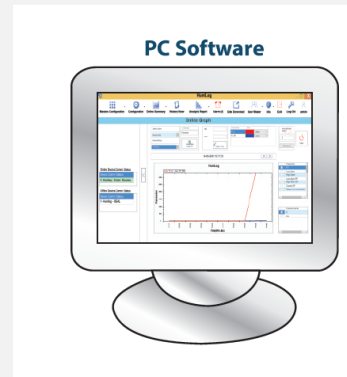
## Technical Specification:

Models	LIT-BOD-110	LIT-BOD-170	LIT-BOD-210	LIT-BOD-268	LIT-BOD-330	LIT-BOD-400
Capacity in Litres	110	170	160	268	330	400
Inner Chamber Size W x H x D in (mm)	455 X 610 X 410	505 X 830 X 415	515 X 800 X 515	565 X 865 X 550	650 X 900 X 580	700 X 900 X 650
No. of Shelves	2	3	3	3	3	4
Temperature Range	5°C to 60°C					
Temperature Accuracy	±0.5°C					
Temperature Resolution	0.1°C					
Controller	Microprocessor based, PID Digital Temperature Indicator with LED Display cum Controller					
Sensor	PT 100					
Construction	Exterior: Powder Coated Mild Steel / SS (Optional); Interior: Stainless Steel					
Door	Standard hinged Single / Double doors with double gasket					
Insulation	PUF insulation					
Trays	Perforated trays made of stainless steel					
Refrigeration	CFC Free compressor					
Air Circulation	Forced air circulation					
Power	Single Phase 230 V AC, 50 Hz					

## Optional Accessories

- Stainless Steel exterior
- Inbuilt Thermal Printer
- Chart Recorder
- Voltage stabilizer
- Digital Timer
- Datalogger with inbuilt storage.
- Micro PLC Controller and 21 CFR PART 11 Compliance Software


## Micro PLC Controller and 21 CFR Part 11 Software



## Features

- 7" TFT, 65536 Color Touch Screen Display
- 5 Temperature Channels for Control & Mapping
- Universal Input: Thermocouples, RTD Pt100, mA, V
- On-Off & Self Tune PID Temperature Control
- Settable 'Heat - Only', 'Cool - Only' & 'Heat + Cool' Control
- SSR or DC LINEAR (V / mA) Control Outputs
- Programmable Timer Delay for Compressor Switching
- In-built Programmable Timer
- Comprehensive Alarm System (Process Deviations, Door Open, Mains Fail)
- Standby Control Gadgets Interface (Optional Digital Outputs)
- Date / Time Stamped Process & Event Data Recording
- Password Protected Door Opening & Status Monitoring
- (Digital Input for Door Switch & Digital Output for Door Lock Solenoid)
- Mains-Fail Detection & Automatic Change Over to Battery / Inverter
- Serial Port for PC Interface with 21 CFR Compliant Software
- Optional GSM Interface Module for SMS Alert

## PC Interface with 21 CFR Compliant Software

<b>Supported Operating Systems (OS)</b>	<ul style="list-style-type: none"> <li>• <b>Windows Vista, Windows 7, Windows 10</b></li> <li>• <b>32 bit / 64 bit Windows 8 32 bit / 64 bit Pentium Dual Core</b></li> </ul>
<b>Minimum PC Configuration Requirements</b>	<ul style="list-style-type: none"> <li>• 2.8 GHz Clock Speed 2 GB RAM</li> <li>• 40 GB Hard Disk</li> </ul>
<b>PC Software Features (21 CFR Part 11 Compliant)</b>  	<ul style="list-style-type: none"> <li>• Supports Multiple Equipment on Single Installation</li> <li>• Auto Start-up on PC Power-up</li> <li>• Online Display of Process Values &amp; Stored Records in Graphical &amp; Tabular Forms with Alarm Indications</li> <li>• SMS and/or Email Alerts on Alarm Conditions</li> <li>• Mean Kinetic Temperature (MKT) Computation</li> <li>• Automatic Periodic Downloading of Records Stored in controller</li> <li>• Access Control According to Authority Level</li> <li>• User Actions with Signing &amp; Authorization</li> <li>• Automatic Password Expiry</li> <li>• Manual &amp; Auto Back-up Facility with Archiving</li> <li>• Data Log Reports with User Configurable Title, Footer &amp; Header</li> <li>• Data Log Report, Alarm Log Report, History Graph &amp; Audit Trail</li> <li>• Report in PDF &amp; EXCEL formats</li> <li>• Audit Trail History of Critical Events &amp; User Actions</li> </ul>
<b>Data Recording</b>	
<b>Storage Device</b>	<ul style="list-style-type: none"> <li>• In-built Flash Memory</li> </ul>
<b>Record Capacity</b>	<ul style="list-style-type: none"> <li>• 5,000 Records</li> </ul>
<b>Recording Interval</b>	<ul style="list-style-type: none"> <li>• User Programmable (1 to 250 Minutes)</li> </ul>
<b>Recording Data (Date/Time Stamped)</b>	<ul style="list-style-type: none"> <li>• Process Values <ul style="list-style-type: none"> <li>• Measured Control &amp; Mapping Temperatures</li> </ul> </li> <li>• Events <ul style="list-style-type: none"> <li>• Power-up</li> <li>• Process Value Alarm Toggle</li> <li>• Change in Control SP</li> <li>• Change in Date/Time Settings</li> <li>• Change in Recording Interval</li> <li>• Equipment Door Open/Close</li> <li>• Mains Power Fail/Resumption</li> </ul> </li> </ul>



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