

Bacteriological Incubator



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Bacteriological Incubator

To meet requirements of maintaining temperature for the growth and maintain microbiological cultures and cell cultures and storage of bacterial cultures and incubation where high degree of constant temperature accuracy is required, we design, manufacture and supply **Bacteriological Incubators** from small to large capacities with temperature range from **Ambient +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: Ambient +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.*
- *Inner chamber made of Stainless Steel 304*
- *Outer surface made of Mild Steel with 7 Cycle powder process coats; SS Optional*
- *Safety Features: Safety standby thermostat to cut off heater supply in case of overshoot of temperature*
- *High grade Polyurethane foam Insulation (PUF) insulation*
- *Inner sub doors made of Acrylic*
- *Stainless steel adjustable trays*
- *Heavy duty castor wheels for easy movement.*
- *Micro PLC controller and 21 CFR Part 11 Compliance software - optional*

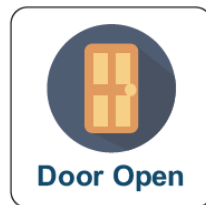
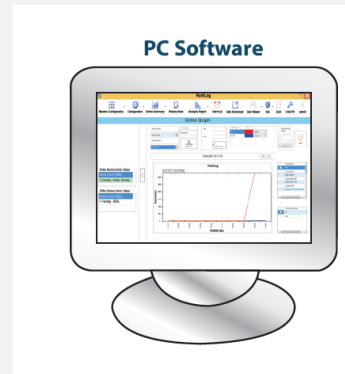
Technical Specification

Sl. No	Models	Capacity (Litres)	Inner Chamber Size (W X H X D) mm	No. of Shelves
1.	LIT-IC-42	42	350 x 350 x 350	1 No
2.	LIT-IC-91	91	450 x 450 x 450	2 Nos
3.	LIT-IC-121	121	450 x 600 x 450	2 Nos
4.	LIT-IC-216	216	600 x 600 x 600	3 Nos
5.	LIT-IC-285	285	600 x 800 x 600	3 Nos
6.	LIT-IC-324	324	600 x 900 x 600	3 Nos
7.	LIT-IC-400	400	600 x 1100 x 600	4 Nos
Temperature Range		Ambient +5°C to 60°C		
Temperature Accuracy		±0.5°C		
Resolution		±0.1°C		
Controller		Microprocessor Controller		
Construction		Double Walled; Exterior: Powder Coated Mild Steel / SS (Optional); Interior: Stainless Steel		
Door		Standard hinged Single / Double Main Door with Magnetic gasket, lock and Key		
Insulation		PUF insulation		
Trays		Perforated trays made of stainless steel		
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

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

Note : The product design and specification are subject to change.

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