



BACTERIOLOGICAL INCUBATORS

Labtop Bacteriological Incubators are non-refrigerated versions of Cooling incubators (BOD) and they are specially designed to conduct life cycle testing, Shelf life studies, general incubation. Temperature range adjustable from 5.0°C above ambient to 60.0°C with Micro controller based temperature controller. Chambers are exclusively used for seed testing, Biological studies etc..

CABINET CONSTRUCTION

The cabinet of Labtop Chambers are insulated with high density CFC free Poly Urethane Foam. Interior of the chambers are mirror finish stainless Steel (304 SS, 0.8 mm thick). The exterior is white powder coated (1.0 mm thick) mild steel and the door has magnetic gasket with a keyed door lock. Specially designed solid stainless steel wire mesh trays ensure even temperature distribution and storage inside. GMP models are in total stainless steel (Inside S. S 304 with mirror finish and outside. S.S 304 dull finish and inner S.S316 is also available on request at extra cost)

SAFETY FEATURES :

- Miniature circuit breaker to protect electronic components in case of abnormal power supply
- Audio visual alarm when temperature deviates from set temperature
- Provision for remote alarm at security gate
- Safety cut off when temperature crosses 60.0 °C.
- Provision for mobile alert via GSM technology

TEMPERATURE CONTROL SYSTEM



- Micro-control based Temperature controller
- 4 digit, 7 segment LED display
- Audio visual alarm when the temperature deviates from the set temperature.
- Password protected keypad lock
- Visual alarm for faulty Sensor
- Display of set value and process value
- High quality PT-100 Sensor for better accuracy
- Programmable temperature Hi-low alarm setting

PROGRAMMABLE LOGIC CONTROLLER (PLC) SYSTEM

A **programmable logic controller (PLC)** is a digital computer used for automation of controlling electromechanical processes, such as **control** of Temperature, Speed, Door open/Close, Time and other event management with less maintenance hence no moving parts.



- 4.3" HMI with color Display and touch screen
- Configurable access for 72 users
- Privilege based grouping
- Multi level Password protected **H**uman **M**achine Interface (HMI)
- Data storage to record set values, process values, date & time with variable time intervals
- Display of set value and process value
- High speed Ethernet connectivity
- 1- 999 Minutes timer
- Incorrect password attempt and user lock
- Online data can be printed with date and time stamp
- Non operational screen auto logout
- Configurable maintenance reminder pop up alarm
- Individual Alfa numeric user ID and password
- User operation will be recorded and saved in memory
- Online and offline Log reports on HMI
- Safety cut off for over shoot and under shoot
- Programmable alarms with event management
- Precise control of temperature by using PID control action
- Data storage capacity up to 200000 readings
- Self diagnostic system with error messages

ALERT MANAGEMENT

- SMS alert message can be send to 5 users with notifications
- Email alert can be sent to 15 users with notifications
- Call alert can be send to 5 users with voice messages with notifications

SALIENT FEATURES :

- Unidirectional air flow system ensures even temperature distribution and quick recovery after door openings.
- Foamed in place CFC free PUF insulation ensures temperature stability and reduced power consumption.
- Safety cut off in case of temperature over shoot
- Specially designed solid stainless steel wire mesh trays ensure even temperature distribution.
- Chamber illumination with LED fluorescent light
- U shaped Stainless Steel tubular heater
- 50 mm Validation port for external validation
- Caster wheels for ease of mobility
- Various accessories are available as option
- Transparent Acrylic inner door
- High quality PT-100 Sensor for better accuracy

TECHNICAL SPECIFICATIONS

| Cat. No. | LBI-100 | LBI-200 | LBI-300 | LBI-400 | LBI-600 | LBI-800 | LBI-1000 | LBI -1500 | LBI-2000 |
|--|-----------------------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|
| | LBI-100G | LBI-200G | LBI-300G | LBI-400G | LBI-600G | LBI-800G | LBI-1000G | LBI-1500G | LBI-2000G |
| | LBI-100P | LBI-200P | LBI-300P | LBI-400P | LBI-600P | LBI -800P | LBI-1000P | LBI-1500P | LBI-2000P |
| | LBI-100GP | LBI-200GP | LBI-300GP | LBI-400GP | LBI-600GP | LBI-800GP | LBI-1000GP | LBI-1500GP | LBI-2000GP |
| Volume | 100 Liters | 200 Liters | 300 Liters | 400 Liters | 600 Liters | 800 Liters | 1000 Liters | 1500 Liters | 2000 Liters |
| Temperature range | 5 °C above ambient to 60 °C | | | | | | | | |
| Accuracy | ± 0.5°C | | | | | | | | |
| Uniformity | ± 1.0°C | | | | | | | | |
| Control system | Micro control / PLC | | | | | | | | |
| No. Doors | Single | Single | Single | Single | Single | Double | Double | Double | Double |
| No. Of tray | 2 | 3 | 4 | 4 | 4 | 8 | 8 | 10 | 10 |
| Power | 500 W | 500 W | 500W | 500 W | 750 W | 1000 W | 1500 W | 1500 W | 1500 W |
| Voltage | 230 VAC , 50/60Hz | | | | | | | | |
| Dimensions (W x D x H) in mm and weight | | | | | | | | | |
| Internal Dim | 435x400x600 | 505x400x1005 | 565x450x1205 | 635x530x1205 | 745x670x1205 | 1120x600x1205 | 1150x670x1300 | 1300x890x1300 | 1500x1030x1300 |
| External Dia | 580x845x1275 | 650x880x1680 | 710x935x1885 | 780x1010x1880 | 890x1150x1960 | 1370x1075x1920 | 1400x1145x1920 | 1550x1365x1920 | 1750x1505x1920 |
| Packing size | 707x972x1478 | 777x1007x1883 | 837x1062x2088 | 907x1137x2083 | 1017x1277x2163 | 1497x1202x2123 | 1527x1272x2123 | 1677x1492x2123 | 1877x1632x2123 |
| Net Weight | 120 | 145 | 200 | 255 | 280 | 310 | 335 | 360 | 380 |
| Gross Weight | 175 | 225 | 275 | 325 | 350 | 400 | 425 | 450 | 480 |

Note: P Models are with Programmable logic control (PLC)
G Models are made out of Stainless steel 304 (GMP)

LABTOP DATALINK SOFTWARE

Title 21 CFR Part 11 is the part of Title 21 of the code of Federal Regulations that establishes the United States Food and Drug Administration (FDA) regulations on electronic records and electronic signatures (ERES). Part 11, as it is commonly called, defines the criteria under which electronic records and electronic signatures are considered trustworthy, reliable, and equivalent to paper records.

- 21CFR-PART 11 compliance.
- Web based software
- Multiple chamber data acquisition on single software.
- Reports in Tabular and Graphical form
- Mean Kinetic Temperature Report.
- Automatic Back up Provision.
- Privilege based Group creation
- Privilege based user creation
- Trend analysis report
- Equipment audit trial report
- User ID with Alfa numeric password protection
- Multi user environment (LAN)
- Multiple level password with automatic expiry
- Electronic signature
- Separate reports for alarm and events
- Remote integrations with Control systems.
- Software audit trial report
- Email, SMS and call alert in case of system failure
- Online and offline trends



OPTIONAL ACCESSORIES

PLC system

Programmable Logic Control with Safety controller, auto changeover of Standby systems & other event managements with 4.3" Color HMI with touch screen, Ethernet connectivity and security lock for prevention of unauthorized tampering

Data Scanner

Eight/Sixteen Channel programmable temperature Data Scanner for record, store and print the data online and off line with variable print time intervals, suitable for 80 col. Dot matrix printer.

PC interface communication

Micro controller based PID controller to record, store and print the set values, process values, Date & time with variable print time intervals with RS-485 communication

Software

"LABTOP DATALINX" CFR 21 Part 11 compliance web based communication software for data management. Complete with RS-485 multi dropping to monitor chambers to one software.

Timer

Micro controller based programmable cyclic timer of 999 Hrs for controlling of various conditions

Light bank

Chamber Illumination with LED Light bank for photosynthesis studies

Ultra violet lamp

Chamber illumination with UV-C lamp to sterilize the interior

Mobile alert

Mobile alert via GSM Technology in case of system failure

Door access

Biometric magnetic door access for secured door opening and closing with PC interface communication

Power Backup

Uninterrupted online power supply for PLC in case of power failure

Trays

Additional rack and tray suitable for above equipment as per your requirement

DOCUMENTATION

GMP complaint models LABTOP offers IQ, OQ, PQ and DQ validation calibration and test certificates. with documentation, reports,

CALIBRATION

The equipment is calibrated with the help of master calibrator, which is certified for its accuracy by Electronics Regional Testing Laboratory (ERTL West) Government of India recognized testing laboratory with reference to National Physical Laboratories (NPL).

SERVICE AND SUPPORT

The training undertaken by our Channel partners and engineers is of the highest standard in the industry, ensuring that our customers are supported by the highest level of technical expertise and as such can be assured that their equipment will perform to the standards required at all times.

Our wide network of Engineers/Technicians enables us to respond to any technical query, ensuring that our customers receive the maximum benefit from their equipment.

NB: Specifications are subject to change without prior notice.



Labtop Instruments Pvt. Ltd.

Labtop House, Plot No. 59, Waliv Phata, Sativali Road, Vasai (E),
Dist - Palghar - 401208, Maharashtra, India.
Tel.: +918446053761 to 70 (10 lines)
Email: info@labtopinstruments.com
Web: www.labtopinstruments.com