

LABTOP[®]
Quality Lab Equipment



LABTOP SHAKERS AND SHAKING INCUBATORS

TRUST KEEPS US IN UPTIME MODE



QUALITY LAB EQUIPMENT

Over a decade of existence. Thousands of delivered products. Satisfied customers from over 48 countries, including the UK, US and African nations. And trust that can never be quantified!

Our clients have always seen us in uptime mode, the only thing that has remained unchanged since our inception. It is this mode that helps us ensure we reduce downtime to the bare minimum when it comes to time-critical laboratory instruments and scientific equipment.

For over a decade it has been our constant endeavour to research, improve and upgrade all components that go into the making of each of our products. By adhering to international standards, being consistent with prescribed quality norms and sustained investment in state-of-the-art manufacturing technologies Labtop has always aimed to minimize downtime to the least.

We will uphold this trust reposed on us and strive to deliver the best.

LABTOP DELIVERS

Established in the year 1996 as Skylab Instruments & Engineering Pvt. Ltd, its brand Labtop gradually scaled up to become one of the formidable names in high quality laboratory instruments and scientific equipment. Positively influenced by the reach and reputation of the brand, Skylab gradually transitioned to be called Labtop Instruments Pvt. Ltd.

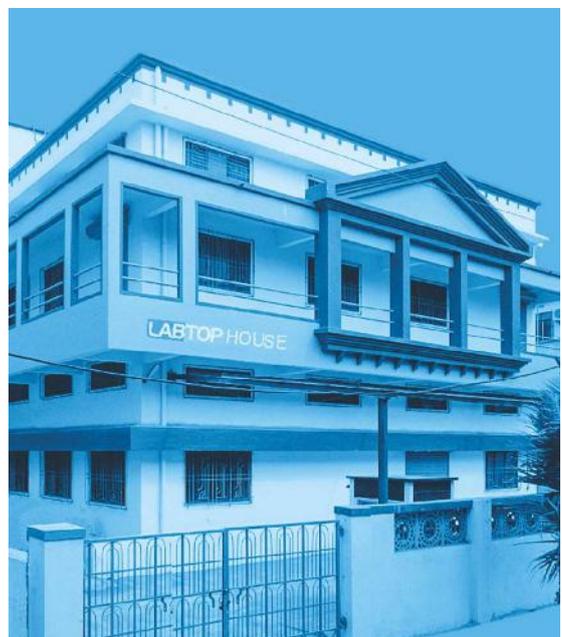
Positioned to be recognized as one of India's leading manufacturers, exporters and marketers of high quality laboratory instruments and scientific equipment, Labtop delivers. A result of years of technological research and innovation, Labtop products are reputed among leading blood banks, hospitals, research centres, pharmaceutical companies and educational institutions.

VISION

Labtop has to reach labs and blood banks in each and every corner of the world, by delivering standard quality and advanced technology instruments with prompt customer satisfaction.

MISSION

- INNOVATION
- QUALITY
- PROMPT SERVICE
- ON TIME DELIVERY



QUALITY POLICY

Our quality policy encompasses the complete process – from briefing and manufacturing to marketing and servicing, and is in line with the framework of applicable regulations and globally/ nationally prescribed industry norms. The quality policy constitutes a customer-centric approach, is aimed at delivering value and achieving complete customer satisfaction. Updates and upgrades on the Quality Management System are extremely critical in evaluating Labtop's commitment to quality.

LABTOP SHAKERS AND SHAKING INCUBATORS

LABTOP Programmable logic controlled (PLC) Orbital shakers and shaking incubators are designed for a wide range of applications including solubility studies and cell cultures that require accurate and reproducible results. The shaking system delivers exceptional speed control, accuracy, and durability while continuously monitoring shaking speed and set point, even under changing loads. The variable speed micro control provides consistent, uniform mixing action.

CABINET CONSTRUCTION

The cabinet of Labtop Shaking incubators are insulated (3" Thick) with high density CFC free Poly Urethane Foam. Interior of chamber is dull 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 a glass front which enables the user to see the samples without opening the chamber. Customised models are also available on request.

REFRIGERATION SYSTEM

The cooling is effected by CFC free refrigeration system with a condensing unit located inside the chamber. Labtop condensing units are characterised by high-efficiency heat transfer and low power consumption.



- CFC free refrigeration with time delay to safe guard the compressor
- Inner grooved copper tubes and slit aluminium fins for superior heat transfer
- Filter drier for moisture and dirt protection
- Safety and control devices for better system protection
- Thermally protected and permanently lubricated fan motors
- Overload protector for safe guard the compressor

SAFETY FEATURES

- Main circuit breaker to protect electronic components in case of abnormal power supply
- Smooth acceleration and deceleration
- Overload cut off relay for compressor
- 180 seconds Time delay for compressor switch on

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, Relative Humidity, Standby systems and event management with less maintenance hence no moving parts.



- 4.3" HMI colour Display with touch screen
- 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
- Auto changeover of standby systems and other event managements
- High speed Ethernet connectivity
- Precise control of temperature and relative Humidity by using in PID control (auto tuning type)
- Safety controller to cut off the heater in case of over shoot of set temperature
- 1- 999 Hrs timer for shaking mechanism

PID CONTROL SYSTEM



- Micro-control based Temperature controller
- 4 digit, 7 segment LED display
- 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

LABTOP DATALINX 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 (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.
- Multiple chamber data acquisition on single software.
- Reports in Tabular and Graphical form
- Mean Kinetic Temperature Report.
- Back up Provision.
- Multi user environment (LAN)
- Multiple level password with automatic expiry
- Electronic signature
- Audit trial report
- Mobile alert via SMS in case of any deviations
- Online and offline trends

ORBITAL SHAKING INCUBATORS

LABTOP offers the largest selection of shaking incubators in the industry to meet a diverse range of culture and Industrial requirements. Wide speed range, with options for incubation, refrigeration, photosynthetic lighting, UV germicidal lighting and in-flask gassing.



SALIENT FEATURES

- Programmable Logic controller (PLC)
- 4.3" HMI with Colour Display and touch screen
- Universal Platform to accommodate for conical flasks, round bottom flask, volumetric flask and test tube rack
- Auto- restart at set rpm when power resume
- Forward and backward rotation programs
- Maintenance free Brushless Induction motor
- Variable frequency drive (VFD)
- Permanently lubricated bearing for noise less operation
- Quadruple eccentric drive with counter balanced mechanism for smooth and uniform mixing
- Unique air flow system ensures even distribution of Temperature
- Stationary tray for keeping Petri dishes and conical flasks
- Adjustable leveling jack
- Caster wheel for ease of mobility

TECHNICAL SPECIFICATIONS

| Cat. No. | LSI-150P | LSI-150RP | LSI-300DP | LSI-300DRP | LSI-600DP | LSI- 600DRP |
|-------------------------|-------------------------|------------|--------------|-------------|---------------|--------------|
| | LSI-150GP | LSI-150GRP | LSI-300GDP | LSI-300GDRP | LSI-600GDP | LSI- 600GDRP |
| Temperature (°C) | RT+5 to 60 | 5 to 60 | RT+5 to 60 | 5 to 60 | RT+5 to 60 | 5 to 60 |
| Accuracy (°C) | ± 0.5 | | | | | |
| Accuracy (rpm) | ± 5 | | | | | |
| Shaking motion | Orbital | | | | | |
| Amplitude (mm) | Ø 50 | | | | | |
| Timer (hrs) | 1 - 999 | | | | | |
| Input Voltage VAC/50Hz | 230 VAC / 50Hz | | | | | |
| MOC of Shaking platform | Aluminium powder coated | | | | | |
| Platform size(mm) | 465 x 465 | | | | 940 x 465 | |
| No. of Platform | 1 | | | 2 | | |
| Shaking speed (rpm) | 30 - 350 | | 30 - 250 | | 30 -250 | |
| Outer Dimensions (mm) | 700x970x1220 | | 700x970x1480 | | 1250x970x1620 | |

ENVIRONMENT SHAKING INCUBATOR



LABTOP environment shaker incubators are designed for maintenance-free shaking under a constant temperature and relative humidity. Three different models that can meet the needs of most biological research laboratories for shaking under a precisely controlled rpm and environment.

SALIENT FEATURES

- Programmable Logic Controller (PLC)
- 4.3" HMI with colour Display & touch screen
- Universal Platform to accommodate various type of flask and test tube rack
- Electronic capacitance type Humidity sensor
- Direct display of Temperature and Humidity
- Display of set value and process value.
- Unique air flow system ensures even distribution of Temperature and Humidity
- Precise control of temperature and humidity by using built in PID controller (auto tuning type)
- Auto- restart at set RPM when power resume
- Forward and backward rotation programs
- Maintenance free Brushless Induction motor
- Variable frequency drive (VFD)
- Permanently lubricated bearing for noise less operation
- Triple eccentric counter balanced drive mechanism for uniform agitation
- Castor wheel for ease of mobility
- Adjustable leveling jack

| TECHNICAL SPECIFICATIONS | | | |
|--------------------------|-------------------------|-------------|--------------|
| Cat. Nos. | LSI-150EP | LSI-300DEP | LSI-600DEP |
| | LSI-150GEP | LSI-300GDEP | LSI-600GDEP |
| Speed (rpm) | 30 – 350 | 30 - 250 | |
| Accuracy (rpm) | ± 5 | | |
| Temperature (°C) | 10 to 60 | | |
| Accuracy (°C) | ± 0.5 | | |
| Humidity (%) | 40 to 95 % | | |
| Accuracy (%) | ± 2 % | | |
| Shaking style | Orbital | | |
| Amplitude (mm) | Ø 50 | | |
| Timer (hrs) | 1-999 | | |
| No. of Platform | 1 | 2 | 2 |
| MOC of Shaking platform | Aluminium powder coated | | |
| Platform size (mm) | 465 x 465 | | 940 x 465 |
| Inner Size (mm) | 530x570x460 | 560x570x740 | 850x520x760 |
| External size (mm) | 680x830x1200 | 71x81x1550 | 950x740x1400 |

SINGLE TIER ORBITAL SHAKER

Labtop Orbital Shakers consist of heavy duty mild steel fabricated housing comprising of a brushless induction motor and variable frequency drive, these shakers has a universal platform with a provision of flask holders for various flask capacities. These **orbital shakers are available in 7 different models based on number of flask holding capacity and speed.**



SALIENT FEATURES

- Universal Platform to accommodate for conical flasks , round bottom flask, volumetric flask and test tube rack
- Adjustable leveling Jack
- 5 programs memory
- Forward and backward rotation programs
- Auto- restart at set rpm when power resume
- 365 days continuous operation
- Maintenance free Brushless Induction Motor
- Permanently lubricated bearing for noise less operation
- Eccentric counter balanced drive mechanism for uniform mixing

TECHNICAL SPECIFICATIONS

| CAT. No. | LOS-60 | LOS-90 | LOS-120 | LOS-150 |
|-------------------------|---|-------------|--------------|-------------------|
| Control | Programmable Logic Control (PLC) | | | |
| Display | 4.3" HMI with Colour Display & touch screen | | | |
| Shaking motion | Orbital | | | |
| Amplitude (mm) | Ø 50 | | | |
| MOC of Shaking platform | Aluminium powder coated | | | |
| Timer (hrs) | 1-999 | | | |
| Speed (rpm) | 30 – 350 | | 30 – 300 | 30-250 |
| Accuracy (rpm) | ± 5 | | | |
| Platform size (mm) | 620 x 620 | 900 x 620 | 1240 x 620 | 1540 x 900 |
| Outer dimension (mm) | 630x670x310 | 920x670x310 | 1240x760x380 | 1540 x 1040 x 380 |
| Platform | Universal | | | |
| Weight (kg) | 75 | 80 | 90 | 200 |
| Input Voltage | 230 VAC / 50 Hz | | | |
| Construction | Mild Steel powder coated | | | |

DOUBLE AND TRIPLE TIER ORBITAL SHAKERS

Labtop Programmable Logic Controlled (PLC) Heavy duty shakers are designed for mixing a large number of flasks and are widely used in microbiological, cell culture and life science laboratories.

Ideal for screening studies, this industrial shaker uniformly shakes hundreds of samples at a time. Designed for vibration free operation, even when fully loaded and running at the maximum speed.

SALIENT FEATURES



- Universal Platform to accommodate for conical flasks, round bottom flask, volumetric flask and test tube rack
- Adjustable leveling Jack
- 5 programs memory
- Forward and backward rotation programs
- Auto- restart at set RPM when power resume
- Continuous operation
- Maintenance free Brushless Induction Motor
- Variable frequency drive (VFD)
- Permanently lubricated bearing for noise less operation
- Eccentric counter balanced drive mechanism for uniform mixing

| TECHNICAL SPECIFICATIONS | | | | |
|--------------------------|---|-------------------|----------|--------------------|
| CAT. No. | LOS - 90D | LOS-120D | LOS-120T | LOS-150T |
| Number of Platform | 2 | 2 | 3 | 3 |
| Control | Programmable Logic Control (PLC) | | | |
| Display | 4.3" HMI with Colour Display & touch screen | | | |
| Amplitude (mm) | Ø 50 | | | |
| Timer (hrs) | 1-999 | | | |
| Speed (rpm) | 30 – 250 | | 30 – 200 | |
| Accuracy (rpm) | ± 5 rpm | | | |
| MOC of Shaking platform | Aluminium powder coated | | | |
| Tray size (mm) | 900 x 620 | 1280 x 620 | | 1640 x 1040 |
| Outer Dimensions mm) | 920 x 670 x 700 | 1390 x 760 x 1180 | | 1640 x 1040 x 1180 |
| Platform | Universal | | | |
| Weight (kg) | 110 | 150 | 200 | 350 |
| Input Voltage | 230 VAC / 50 Hz | | | |
| Construction | Mild Steel powder coated | | | |

OPTIONAL ACCESSORIES

Universal Platform

Universal plat form with adjustable bars for different size of flask and bottles

Illumination bank

Light bank for photosynthesis studies

Ultra violet lamp

UV-C lamp to sterilize the interior

Gas purging

Gas purging facility for inserting Co2 or any other gas

Data scanner

8 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.

8 Channel programmable Data Scanner (4 temperature and 4 humidity) for record, store and print the data online and off line with variable print time intervals, suitable for 80 col. Dot matrix printer.

Software

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

PLATFORM CONFIGURATION

| Cat. No. | Platform Size (mm) | No. of Platform | 50 ml | 100 ml | 250 ml | 500 ml | 1000ml | 2000 ml | 5000 ml |
|-----------|---------------------|-----------------|-------|--------|--------|--------|--------|---------|---------|
| LOS-60 | 620x620 | 1 | 64 | 64 | 36 | 25 | 16 | 9 | 5 |
| LOS-90 | 900x620 | 1 | 117 | 117 | 54 | 40 | 24 | 15 | 6 |
| LOS-120 | 1240x620 | 1 | 128 | 128 | 72 | 50 | 32 | 18 | 9 |
| LOS-150 | 1590X1120 | 1 | 330 | 234 | 150 | 108 | 70 | 48 | 24 |
| LOS-90D | 900x620 | 2 | 234 | 234 | 108 | 80 | 48 | 30 | 12 |
| LOS-120D | 1240x620 | 2 | 256 | 256 | 144 | 100 | 64 | 36 | 18 |
| LOS-150D | 1590X1120 | 2 | 660 | 468 | 300 | 216 | 140 | 96 | 48 |
| LOS-120T | 1240x620 | 3 | 384 | 384 | 216 | 150 | 96 | 54 | 27 |
| LOS-150T | 1590X1120 | 3 | 990 | 702 | 450 | 324 | 210 | 144 | 72 |
| LRS-60 | 900x620 | 1 | 64 | 64 | 36 | 25 | 16 | 9 | 5 |
| LRS-90 | 900x620 | 1 | 117 | 117 | 54 | 40 | 24 | 15 | 6 |
| LSR-120 | 1240x620 | 1 | 128 | 128 | 72 | 50 | 32 | 18 | 9 |
| LSI-150 | 465x465 | 1 | 49 | 36 | 25 | 16 | 9 | 4 | 2 |
| LSI-150R | 465x465 | 1 | 49 | 36 | 25 | 16 | 9 | 4 | 2 |
| LSI- 300D | 465x465 | 2 | 98 | 72 | 50 | 32 | 18 | 8 | 2 |
| LSI-300DR | 465x465 | 2 | 98 | 72 | 50 | 32 | 18 | 8 | 2 |
| LSI-600D | 940x465 | 2 | 196 | 144 | 100 | 64 | 36 | 16 | 4 |
| LSI-600DR | 940x465 | 2 | 196 | 144 | 100 | 64 | 36 | 16 | 4 |
| LSI-150E | 465x465 | 1 | 49 | 36 | 25 | 16 | 9 | 4 | 2 |
| LSI-300DE | 465x465 | 2 | 98 | 72 | 50 | 32 | 18 | 8 | 2 |
| LSI-600DE | 940x465 | 2 | 196 | 144 | 100 | 64 | 36 | 16 | 4 |

Documentation

LABTOP offers IQ, OQ, PQ documentation, reports, calibration and test certificates.

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 traceable 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.



MANUFACTURING & ADMINISTRATION FACILITY

The company's vertical orientation to manufacturing ensures total quality control of its finished products as all aspects of design and manufacturing are performed in the company's modern production facilities. The company's complete manufacturing and administration is under one roof – Labtop House.

Labtop House is a dedicated structure spanning over 40,000 sq. ft. and comprises of two floors, exclusively owned by the company. It is located at the prime industrial hub of Vasai, over an hour's drive from Mumbai – the commercial capital of India. Adhering to industrial norms and legislations laid down by the government for industrial premises, Labtop has dedicated spacious areas for manufacturing, assembling and quality control.

Complementing the facility is Labtop's continued investment in state-of-the-art manufacturing technologies and machine tools which gives the company's products a distinct advantage in the Indian and world markets.

CORE STRENGTHS

Labtop Instruments expertise is in manufacturing high-quality laboratory instruments and scientific equipments. Powered with an efficient team of engineers backed by years of experience in their respective fields, the company ensures each and every product that leaves the manufacturing unit is up to the mark in all respects.

- State of the art manufacturing capabilities
- A pool of talented experts
- Cost-effective and durable products
- Large network to facilitate smooth distribution
- Voluminous stock to satisfactorily meet the market requirements
- Timely delivery schedules and after-sales service.

Labtop's compliance with highly precise customer specifications serves as a constant objective for the company. Its core values encompass the commitment to precision workmanship with unsurpassed customer service.

Customer Satisfaction for Labtop is not just about complying with customized requirements, but more about value generation in every order.



OUR GLOBAL REACH

Algeria, Australia, Austria, Bangladesh, Bhutan, Bolivia, Brazil, Brunei, Canada, China, Egypt, Ethiopia, France, Germany, Holland, Iran, Iraq, Israel, Italy, Japan, Jordan, Kenya, Korea, Kuwait, Libya, Malawi, Malaysia, Mexico, Myanmar, Nepal, New Zealand, Pakistan, Philippines, Saudi Arabia, Singapore, Spain, Sri Lanka, Sweden, Switzerland, Syria, Taiwan, Tanzania, Togo, Turkey, UAE, Uganda, UK, USA, Venezuela, Vietnam



OUR PRESTIGIOUS CUSTOMERS

Advinus Therapeutic Ltd., Agio Pharma, Ajanta Pharma, Alkem Ltd., Associated Capsules Ltd., BARC, Bharat, Serum & Vaccines Ltd., BITS, CFTRI, Cipla Ltd., CSIR, Dupont, Emcure, Eisai Pharma, FDC Ltd., Firmenich, Fresenius Kabi India Ltd., Fermenta Biotech Ltd., Glenmark Ltd., Godrej Agrovet, GVK Bioscience, GSK Ltd., Heinz India Pvt. Ltd., Hetero Labs Ltd., HLL Life Care Ltd., Hindustan Unilever, Hester, Indoco Remedies, Ipca Lab Ltd., Johnson & Johnson Ltd., JSW Steel, Lupin Ltd., NCL, Nirma University, Reliance Life Science, Sandoz Ltd., SD Biosensor, Serum Institute of India Ltd., Sitec Labs., Tata Chemicals Ltd., T.I.F.R., Terumo Ltd., Teva Ltd., Torrent Pharma, Troikaa Pharmaceuticals, Unichem Laboratories, United Phosphorous Ltd., Vimta Labs, Watson Ltd., Zydus Cadila Ltd. and many more.



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