

**Technical Specifications**

Cat. No.	LSC-4500/LSC-4500/G*	LSC-8000/LSC-8000/G*	LSC-12500/LSC-12500/G*	LSC-18750/LSC-18750/G*	LSC-22500/LSC-22500/G*
Volume	4500 liters	8000 liters	12500 liters	18750 liters	22500 liters
Inner size (WxDxH)	1.5 x 1.5 x 2.0mtrs	2.0 x 2.0 x 2.0mtrs	2.5 x 2.5 x 2.0mtrs	2.5 x 3.0 x 2.5mtrs	3.0 x 3.0 x 2.5mtrs
Outer size (WxDxH)	1.66 x 1.66 x 2.16mtrs	2.16 x 2.96 x 2.16mtrs	2.75 x 3.50 x 2.16mtrs	2.75 x 3.96 x 2.75mtrs	3.16 x 3.96 x 2.75mtrs
Temperature	20°C to 60°C	20°C to 60°C	20°C to 60°C	20°C to 60°C	20°C to 60°C
Accuracy	± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C
Humidity RH%	40% to 95%	40% to 95%	40% to 95%	40% to 95%	40% to 95%
Accuracy	± 2%	± 2%	± 2%	± 2%	± 2%
Uniformity	± 3%	± 3%	± 3%	± 3%	± 3%

\*GMP models are in total stainless steel (Inside SS 316 with mirror finished and outside. S 304 dull finish.)

**Optional Accessories**

**Stand by Refrigeration system**

Ready to use stand by refrigeration system in case of regular system fails. This includes Compressor, Evaporator, condensers and other accessories.

**Safety controller**

Dedicated safety controller with separate sensor to switch off the power supply in case of overshoot and undershoot of temperature giving audio visual alarm.

**Data scanner**

Data Scanner 4 point temperature and 4 point humidity or 8 point temperature 8 point humidity complete with Sensors and printer interface and data storage facility.

**Databank**

Facility to store, print records on printer with set values, Process values, date and time with variable print time interval. Data storage facility to print the data online and off line, suitable for 80 col. Dot matrix printer. printer interface for LUX & UV meter automatic shut off after specified exposure level.

**Software**

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

**P C Interface and data management**

PC Interface communication allows remote monitoring and data logging to control the chamber. Web based software having reports in tabular as well as graphical form.

**Temperature & Humidity sensor**

Electronic capacitance type Temperature & humidity sensors, which will avoid wick, cup and water.

**PLC system**

for auto changeover of standby systems and other event managements with 3.8" LCD display with touch screen, security lock for prevention of unauthorized tampering.

**Software features**

- 21 CFR Part 11 USFDA compliance software
- Audit trail report
- Electronic signature
- Record of mean kinetic temperature
- Multi level password with aging and history
- Record of graphical and tabular form

**Documentation**

For GMP compliant models LABTOP offers IQ, OQ and PQ with documentation, calibration and test 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 traceable reference to National Physical Laboratories (NPL).

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NB: Specifications are subject to change without prior notice.



Labtop Stability Test Chambers are specially designed to conduct stability and shelf life studies on drug and drugs substances. In addition to this, Labtop Stability Test Chambers are extensively used for seeds testing, biological studies, testing on electronic & mechanical components, cement plants, packing industries, etc. Labtop Stability Chambers conform to international standards such as ICH, WHO Guideline and USFDA requirements



**Stability Test Chambers**

## Stability Test Chambers

### Cabinet Construction and Refrigeration System

The cabinet of Labtop Stability Chambers are insulated with high density CFC free Poly Urethane Foam. Interior of chamber is 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. Stainless steel trays are provided for storage inside. The cooling is effected by hermetically sealed compressor of high quality. GMP models are in total stainless steel (Inside SS 316 with mirror finished and outside. S 304 dull finish.)

### Special Features

- Unique airflow system ensures even distribution of humidity and temperature.
- Formed-in place PUF insulation ensures temperature stability and reduced energy consumption.
- Precise control of temperature and humidity by using CE approved micro controller based PID controller (Imported, auto tuning type)
- Refrigeration system with CFC free compressor and R-134a eco-friendly refrigeration system with time delay.
- Castor wheels for ease of mobility.

### Technical Specifications

Cat. No.	LSC-100 LSC-100/G*	LSC-200 LSC-200/G*	LSC-300 LSC-300/G*	LSC-400 LSC-400/G*	LSC-600 LSC-600/G*	LSC-800 LSC-800/G*	LSC-1000 LSC-1000/G*	LSC-1500 LSC-1500/G*	LSC-2000 LSC-2000/G*
Temperature	20-60°C	20-60°C	20-60°C	20-60°C	20-60°C	20-60°C	20-60°C	20-60°C	20-60°C
Accuracy	± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C
Uniformity	2°C	2°C	2°C	2°C	2°C	2°C	2°C	2°C	2°C
Humidity	40-98%	40-98%	40-98%	40-98%	40-98%	40-98%	40-98%	40-98%	40-98%
Accuracy	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%
Uniformity	3%	3%	3%	3%	3%	3%	3%	3%	3%
Volume	100 liters	200 liters	300 liters	400 liters	600 liters	800 liters	1000 liters	1500 liters	2000 liters
Inside Dia. (WxDxH) cms.	43x40x60	50x40x100	56x45x120	63x53x120	72x65x130	112x60x120	115x67x130	130x89x130	150x103x130
Outer Dia. (WxDxH) cms.	58x72x129	65x72x169	71x77x189	78x85x189	87x97x192	137x92x192	140x99x192	155x121x192	175x135x192
No. of Trays	Two	Three	Four	Four	Four	Eight	Eight	Eight	Eight
Operating Voltage	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC

## Photo Stability Test Chambers

Labtop Photo Stability Test Chambers are designed to provide high intensity lighting system to comply with ICH guidelines for photo stability conditions with white fluorescent exposure of 1.2 million LUX hours and ultra violet energy exposure of 200W hours/sq. meters. LABTOP Photo Stability Chambers conform to international standards such as ICH, WHO Guideline and USFDA requirements. Printer interface for LUX & UV meter, automatic shut off after specified exposure level.

Cat. No.	LPC-100 LPC-100/G*	LPC-200 LPC-200/G*	LPC-300 LPC-300/G*	LPC-400 LPC-400/G*	LPC-600 LPC-600/G*	LPC-800 LPC-800/G*	LPC-1000 LPC-1000/G*	LPC-1500 LPC-1500/G*	LPC-2000 LPC-2000/G*
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Technical specifications for the above catalogue numbers as per Stability Test Chamber.

## Plant Growth Chambers

Labtop Plant Growth Chambers are designed to study the effects of different environmental parameters such as humidity, micro-organisms, plants and tissues, etc. Apart from various customized industrial and research applications, Labtop plant growth chamber has a variety of usage in R & D laboratories and research studies across the globe. These plant growth chambers have a variety of usages in tissue culture applications, enzyme reaction studies, growth observation studies, fermentation analysis and various other general and specialized applications in various laboratories.

### Technical Specifications

Cat. No.	LGC-100 LGC-100/G*	LGC-200 LGC-200/G*	LGC-300 LGC-300/G*	LGC-400 LGC-400/G*	LGC-600 LGC-600/G*	LGC-800 LGC-800/G*	LGC-1000 LGC-1000/G*	LGC-1500 LGC-1500/G*	LGC-2000 LGC-2000/G*
Temperature	10-60°C	10-60°C	10-60°C	10-60°C	10-60°C	10-60°C	10-60°C	10-60°C	10-60°C
Accuracy	± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C	± 0.2°C
Uniformity	2°C	2°C	2°C	2°C	2°C	2°C	2°C	2°C	2°C
Humidity	40-98%	40-98%	40-98%	40-98%	40-98%	40-98%	40-98%	40-98%	40-98%
Accuracy	±2 %	±2 %	±2 %	±2 %	±2 %	±2 %	±2 %	±2 %	±2 %
Uniformity	3%	3%	3%	3%	3%	3%	3%	3%	3%
Volume	100 liters	200 liters	300 liters	400 liters	600 liters	800 liters	1000 liters	1500 liters	2000 liters
Inside Dia. (WxDxH) cms.	43x40x60	50x40x100	56x45x120	63x53x120	72x65x130	112x60x120	115x67x130	130x89x1130	150x103x130
Outer Dia. (WxDxH) cms.	58x72x129	65x72x169	71x77x189	78x85x189	87x97x192	137x92x192	140x99x192	155x121x192	175x135x192
No. of Trays	Two	Three	Four	Four	Four	Eight	Eight	Eight	Eight
Operating Voltage	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC
Illumination (LUX)	0 to 20000	0 to 20000	0 to 20000	0 to 20000	0 to 20000	0 to 20000	0 to 20000	0 to 20000	0 to 20000

### Illumination

Our Plant Growth/ Photo Stability Chambers are provided with illumination system comprising of fluorescent lights, beside two panels of diffused fluorescent light panel located at the either side of the chamber to enable the user to conduct the photo periodic tests and experiments.



## Walk-in Stability Chambers

### Special Features

- Prefabricated modular type construction with high density CFC free PUF insulation
- A safety alarm system is provided in case of any emergency
- Chambers are available in standard size and also custom made to suit your requirement
- Observation of 1ft. x 1.5 ft. to view the samples without disturbing the test condition.
- Stainless Steel racks and trays are optional