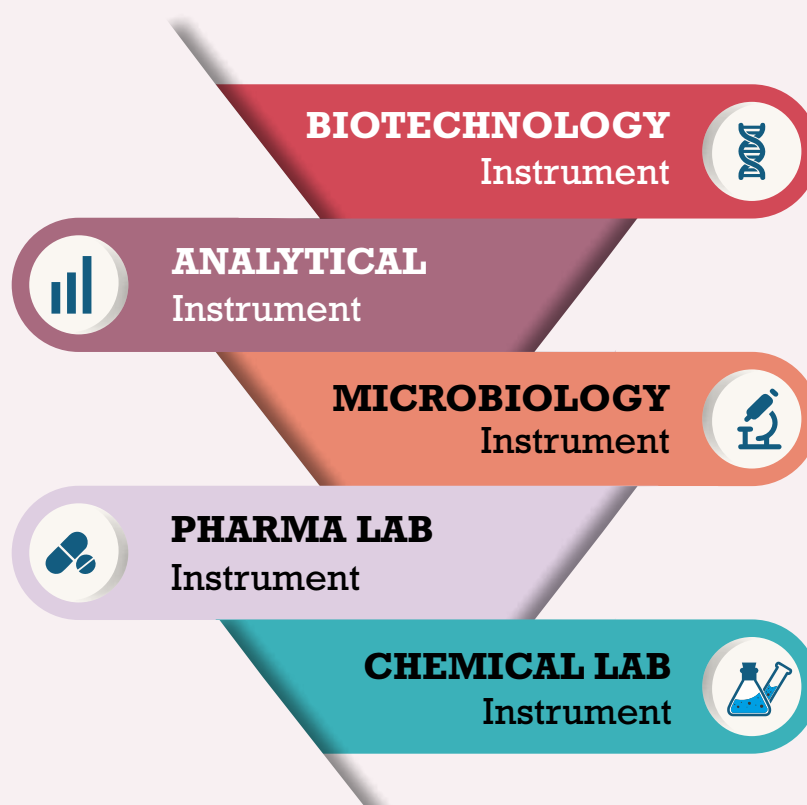




Quality beyond excellence



Lab Instruments Catalogue



TM

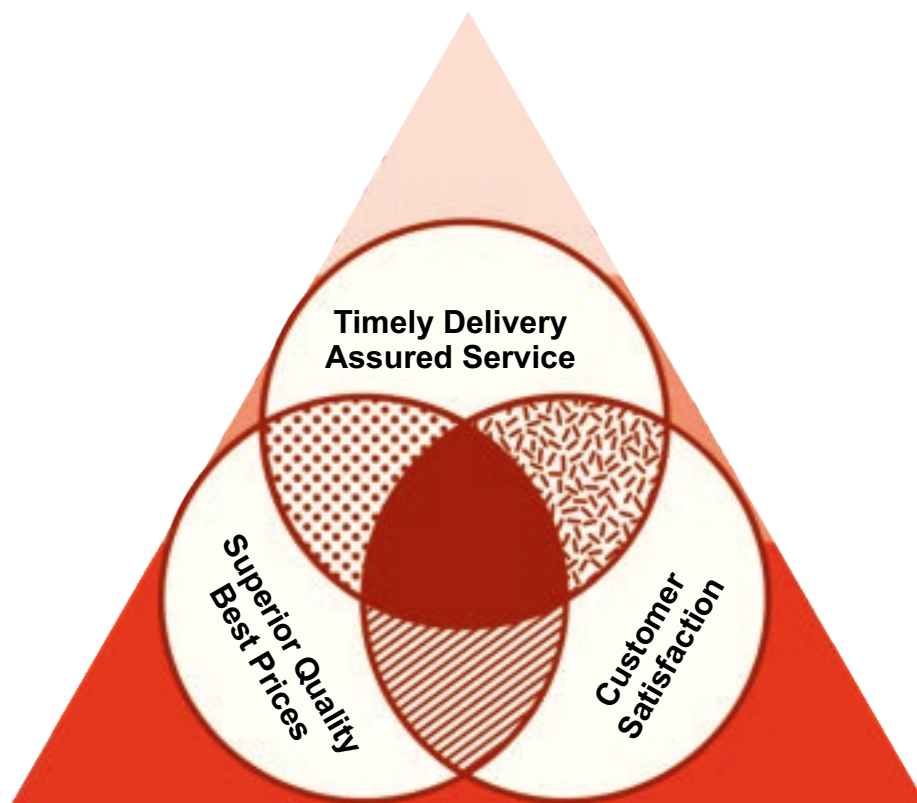
Quality beyond excellence

About Us -

Established in 1986, our priority is to deliver superior quality Lab instruments at the best prices. Our Instruments are used in Research and Analytical, Biotechnology & Microbiology, Food and Clinical, Education & Water, Pharma Industries, Hospital & Pathlabs.

Quality Policy -

Quality and continuous improvement is part of our culture. We have been providing better quality to our customers through regular and intensive research & development process.



UNIQUE FEATURES

- Ergonomic Design
- Easy to use

DESCRIPTION

- Autoclave Portable is Single Walled.
- Made of Stainless Steel 304 Q Heavy Gauge.
- The Gasket is made of Superior quality Silicon rubber which is easily Replaceable.
- Electrically operated supplied with pressure gauge, safety valve cum steam release valve.

TECHNICAL DATA

- Working pressure upto 15 PSI
- Power Supply : 230 Volts A.C. 50 Hz Single Phase

OPTIONAL ACCESSORIES

- Stainless Steel Basket
- Digital Temperature Controller & timer

Chamber	Size
Stainless Steel	12" x 12"
Stainless Steel	12" x 20"



MODEL: LSC-05

AUTOCLAVE VERTICAL

UNIQUE FEATURES

- Easy to use
- Negligible Maintenance

DESCRIPTION

- Double walled construction fully made of Stainless Steel 304 Q.
- Electrically operated Supplied with Two Safety Valves, Pressure gauge, Steam Release Valve, Drain Valve at bottom.
- Fitted with Jointless Silicon Rubber Gasket.
- Foot lifting arrangement to open lid.
- I.S.I approved heating elements.

TECHNICAL DATA

- Working pressure upto 15 PSI
- Power Supply : 230 Volts A.C. 50 Hz Single Phase

OPTIONAL ACCESSORIES

- Digital Temperature controller cum indicator with timer.
- Low water level cut off
- Pressure cut off Switch
- Basket Stainless Steel

Chamber Size	Capacity in Liters (Approx)	Rating K.W.
10" X 18"	25	2
12" X 20"	35	2
14" X 22"	50	3
18" X 24"	95	4
18" X 30"	120	4.5
22" X 30"	178	5
22" X 36"	215	6



MODEL: LSC-10

* Specifications subject to change without notice

UNIQUE FEATURES

- Ergonomic Design
- Easy to use
- Superior Functionality

DESCRIPTION

- Double walled construction fully made of Stainless Steel 304 Q.
- Electrically operated Supplied with Two Safety Valves, Pressure gauge, Steam Release Valve, Drain Valve at bottom.
- Fitted with Jointless Silicon Rubber Gasket.
- Foot lifting arrangement to open lid.
- I.S.I approved heating elements.

TECHNICAL DATA

Working Pressure	: Upto 15 PSI
Working Temperature	: 121°C to 125°C
Temp. Controller cum timer	: P.I.D Temperature Controller Microprocessor (LED Display) for Temperature & Timer complete unit with automatic air purging Digital Temperature Control & Indicator 0.1°C resolution, with electronic digital timer range 0 to 99 minutes. Autoclaving time cycle automatically starts when set pressure is achieved, Automatic steam release once autoclaving cycle complete.
Solenoid Valve system	: This valve works for automatic purging and automatic steam release when cycle time is complete.
Safety Protection for heater	: Low water cut off assembly connected to heater which automatically cuts off power to the heater if the water level is not sufficient.
Power Supply	: 230 Volts A.C 50 Hz Single phase.



MODEL: LSC-11

Chamber Size	Capacity in Liters (Approx)	Rating K.W.
10" X 18"	25	2
12" X 20"	35	2
14" X 22"	50	3
18" X 24"	95	4
18" X 30"	120	4.5
22" X 30"	178	5
22" X 36"	215	6

OPTIONAL ACCESSORIES

- Basket Stainless Steel.
- Single Channel Data Logger with Scanner to store 3,00,000 Reading with Pendrive attachment to collect data.

* Specifications subject to change without notice

HOT PLATE Round / Rectangular

LABLINE™

UNIQUE FEATURE

- Sturdy Design

CONSTRUCTION

- Top plate made of cast iron Round OR Rectangular to a smooth leveled surface and body made of Galvanized sheets powder coated.

DESCRIPTION

- Heating element made from high grade I.S.I. Nichrome wire.
- Maximum Surface Temperature : 350°C
- Temperature Controlled by Regulator OR Thermostat.
- Power Supply - 230 Volts A.C. 50 Hz Single phase.

Size	Rating K.W.
8"	1.2
9"	1.5
12"	2.0

Size	Rating K.W.
10" X 12"	1.2
10" X 16"	1.5
12" X 18"	2.0
18" X 24"	3.0



HOT PLATE ROUND

MODEL: LSC-20

HOT PLATE Round / Rectangular Stainless Steel

CONSTRUCTION

- Completely made of Stainless Steel.

DESCRIPTION

- Heating element made from high grade I.S.I. Nichrome wire.
- Maximum Surface Temperature : 250°C
- Temperature Controlled by Regulator OR Thermostat.
- Power Supply - 230 Volts A.C. 50 Hz Single phase.

Size	Rating K.W.
8"	1.2
9"	1.5
12"	2.0

Size	Rating K.W.
10" X 12"	1.2
10" X 16"	1.5
12" X 18"	2.0
18" X 24"	3.0



HOT PLATE RECTANGULAR

MODEL: LSC-20

* Specifications subject to change without notice

UNIQUE FEATURES

- Ergonomic Design
- Easy to replace the nets

SPECIFICATIONS

- Body of the Heating Mantle is made of spun joint - less Aluminium.
- Heating element knitted fiber glass netting properly insulated.
- Long lasting element made by nichrome wire.
- Maximum surface Temp. 350°C. Temp.
- The Temperature is Controlled by energy regulator.
- The Net is covered with Non breaking nichrome connection having porcelain beads.
- Easy to replace the nets.

Size	Watts	Size	Watts
100 ml	60	3 Ltr.	450
250 ml	150	5 Ltr.	600
500 ml	200	10 Ltr.	2 x 500
1 Ltr.	300	20 Ltr.	3 x 600
2 Ltr.	450		



MODEL: LSC-25

ULTRASONIC CLEANING BATH Sonicator

SPECIFICATIONS

- Fully made of Stainless Steel
- Operating frequency 30 KHz $\pm$ 3 KHz
- Micro controller based Digital timer range 0 to 15 minutes.
- Heater - Thermostatically Controlled.

Tank Capacity in Liters	Tank Working Chamber L x B x H	Power in Watts
1.5	240 X 135 X 65 mm	60
3.5	300 X 150 X 100 mm	120
6.5	300 X 150 X 150 mm	200
9	300 X 200 X 150 mm	250



MODEL: LSC-64

* Specifications subject to change without notice

UNIQUE FEATURES

- Ergonomic Design
- Negligible Maintenance
- Easy to use
- High Temperature Accuracy

CONSTRUCTION

- Double walled construction, Inner chamber made of Mild Steel / Stainless Steel 304 Q & exterior made of G.I. Sheets powder coated.
- Gap between the walls is filled with special grade glass wool for proper insulation to avoid heat loss and thereby saving energy.
- Inner door made of Acrylic to see through the chamber & external metal door is fully insulated with S. S. lock, hinges.
- Air Ventilation is provided on the top of unit to remove hot gases / fumes.
- Supplied with galvanized wire mesh shelves.

TECHNICAL DATA

Temp. Range	: 5°C above ambient to 60°C
Temp. Accuracy	: With Thermostat : $\pm 2^{\circ}\text{C}$ or Digital : $\pm 0.5^{\circ}\text{C}$
Temp. Control	: Temperature Controlled by Thermostat OR
Digital Temp.	: Micro-processor based Auto Tune P.I.D Digital Temperature Controller with PT 100 sensor & Resolution 0.1°C . Dual display one for process value (PV) & the other for Set Value of Temperature (SV)
Power Supply	: 230 Volts A.C 50 Hz Single phase

HEATING ELEMENT

- Heating is by specially designed heaters made of special grade Nichrome wire (ISI Approved) which is fitted at the bottom of the oven.

OPTIONAL ACCESSORIES

- Digital Temperature Controller - Micro-processor based Auto Tune P.I.D Digital Temperature Controller with PT 100 sensor & Resolution 0.1°C . Dual display one for process value (PV) & the another for Set Value of Temperature (SV)
- Motorised Air circulation Blower for Universal Temperature.
- S.S Trays.
- Digital Temperature controller Cum Indicator with Timer.
- Safety Thermostat.



MODEL: LSC-30 A

Inner Chamber Size W x D x H	Rating Watts	No. of Shelves
12" X 12" X 12"	250	1
14" X 14" X 14"	300	2
18" X 18" X 18"	400	2
18" X 18" X 24"	750	3
24" X 24" X 24"	1000	3
24" X 24" X 36"	1500	4

* Specifications subject to change without notice

UNIQUE FEATURES

- Ergonomic Design
- Negligible Maintenance
- Better Temperature Uniformity
- Easy to use
- High Temperature Accuracy

CONSTRUCTION

- Triple walled construction inner chamber made of Mild Steel / Stainless Steel 304 Q & exterior made of G.I Sheets powder coated.
- Gap between the walls is filled with special grade glass wool for proper insulation to avoid heat loss and thereby saving energy.
- Inner door made of acrylic to see through the chamber & external metal door is fully insulated with S.S lock, hinges.
- Air Ventilations are placed at left & right side for hot gases / fumes.
- Supplied with galvanized wire mesh shelves.

HEATING ELEMENT

- Heating element of Memmert model are placed at the right & left side of the inner chamber and is made of special grade chrome plated Nichrome wire (ISI Approved) for uniform temperature.

TECHNICAL DATA

Temp. Range	: 5°C above ambient to 60°C
Accuracy	: With Thermostat : $\pm 2^\circ\text{C}$ / Digital : $\pm 0.5^\circ\text{C}$ (or better)
Temp. Control	: Temperature Controlled by Thermostat OR
Digital Temp. Controller	: Micro-processor based Auto Tune P.I.D Digital Temperature Controller with PT 100 sensor & Resolution 0.1°C . Dual display one for process value (PV) & the other for Set Value of Temperature (SV)
Power Supply	: 230 Volts A.C 50 Hz Single phase

MODEL: LSC-30 B



Inner Chamber Size W x D x H	Rating Watts	No. of Shelves
12" X 12" X 12"	250	1
14" X 14" X 14"	300	2
18" X 18" X 18"	400	2
18" X 18" X 24"	750	3
24" X 24" X 24"	1000	3
24" X 24" X 36"	1500	4

OPTIONAL ACCESSORIES

- Digital Temperature Controller - Micro-processor based Auto Tune P.I.D Digital Temperature Controller with PT 100 sensor & Resolution 0.1°C . Dual display one for process value (PV) & the another for Set Value of Temperature (SV)
- Motorised Air circulation Blower for Universal Temperature.
- S.S Trays.
- Digital Temperature controller Cum Indicator with Timer.
- Safety Thermostat.

* Specifications subject to change without notice

UNIQUE FEATURES

- Ergonomic Design
- Superior Functionality
- High Temperature Accuracy
- Better Temperature Uniformity

CONSTRUCTION

- Triple walled construction, Completely made of Stainless Steel Inner made of 316 Q & Outer made of 304 Q.
- Gap between the walls is filled with special grade glass wool for proper insulation to avoid heat loss and thereby saving energy.
- The door is fully insulated with S.S locks hinges.
- Air Ventilations are placed at left & right side for hot gases / fumes.
- Inner door made of acrylic to see through the chamber.
- Supplied with Stainless Steel wire mesh shelves.
- Forced Air Circulating System with Fan for Temperature Uniformity.
- Safety Thermostat.

HEATING ELEMENT

- Heating element of GMP model are placed at the right & left side of the inner chamber and is made of special grade chrome plated Nichrome wire (ISI Approved) for uniform temperature.

TECHNICAL DATA

Temp. Range	:	5°C above ambient to 60°C
Accuracy	:	± 0.5°C
Digital Temp. Controller	:	Micro-processor based Auto Tune P.I.D Digital Temperature Controller with PT 100 sensor & Resolution 0.1°C . Dual display one for process value (PV) & the another for Set Value of Tempreture (SV)
Power Supply	:	230 Volts A.C 50 Hz Single Phase

**MODEL: LSC-30 GMP**

Inner Chamber Size W x D x H	Rating Watts	No. of Shelves
12" X 12" X 12"	250	1
14" X 14" X 14"	300	2
18" X 18" X 18"	400	2
18" X 18" X 24"	750	3
24" X 24" X 24"	1000	3
24" X 24" X 36"	1500	4

OPTIONAL ACCESSORIES

- Digital Temperature controller Cum Indicator with Timer.
- Safety Thermostat.

* Specifications subject to change without notice

UNIQUE FEATURES

- Ergonomic Design
- Easy to use

CONSTRUCTION

- Double walled construction inner chamber made of Mild Steel / Stainless Steel 304 Q & exterior made of G.I Sheets powder coated.
- Gap between the walls is filled with special grade glass wool for proper insulation to avoid heat loss and thereby saving energy.
- The door is fully insulated with S.S lock, hinges.
- Air Ventilations is provided on the top of unit to remove hot gases / fumes.
- Supplied with galvanized wire mesh shelves.

HEATING ELEMENT

- Heating is by specially designed heaters made of special grade chrome plated Nichrome wire (ISI Approved) which is fitted at the bottom of the oven.

TECHNICAL DATA

Temp. Range : 50°C to 250°C
Accuracy : $\pm 2^{\circ}\text{C}$
Temp. Control : Temperature Controlled by Thermostat



MODEL: LSC-35A

Inner Chamber Size W x D x H	Rating Watts	No. of Shelves
12" X 12" X 12"	1250	1
14" X 14" X 14"	1450	2
18" X 18" X 18"	1750	2
18" X 18" X 24"	2000	3
24" X 24" X 24"	2500	3
24" X 24" X 36"	3500	4

OPTIONAL ACCESSORIES

- Digital Temperature Controller - Micro-processor based Auto Tune P.I.D Digital Temperature Controller with PT 100 sensor & Resolution 0.1°C . Dual display one for process value (PV) & the another for Set Value of Temperature (SV)
- Motorised Air circulation Blower for Universal Temperature.
- S.S Trays.
- Digital Temperature controller Cum Indicator with Timer.
- Safety Thermostat.

* Specifications subject to change without notice

UNIQUE FEATURES

- Ergonomic Design
- Easy to use
- High Temperature Accuracy
- Better Uniformity

CONSTRUCTION

- Double walled construction inner chamber made of Mild Steel / Stainless Steel 304 Q & exterior made of G.I Sheets powder coated.
- The gap between the walls is filled with special grade glass wool for proper insulation to avoid heat loss and thereby saving energy.
- The door is fully insulated with S.S lock, hinges.
- Air Ventilations is provided on the top of unit to remove hot gases / fumes.
- Supplied with galvanized wire mesh shelves.

HEATING ELEMENT

- Heating is by specially designed heaters made of special grade chrome plated Nichrome wire (ISI Approved) which is fitted at the bottom of the oven.

TECHNICAL DATA

Temp. Range	:	50°C to 250°C
Accuracy	:	± 1°C
Digital Temp. Controller	:	Micro-processor based Auto Tune P.I.D Digital Temperature Controller with PT 100 sensor & Resolution 0.1°C . Dual display one for process value (PV) & the another for Set Value of Temperature (SV)

Inner Chamber Size W x D x H	Rating Watts	No. of Shelves
12" X 12" X 12"	1250	1
14" X 14" X 14"	1450	2
18" X 18" X 18"	1750	2
18" X 18" X 24"	2000	3
24" X 24" X 24"	2500	3
24" X 24" X 36"	3500	4

OPTIONAL ACCESSORIES

- Motorised Air circulation Blower for Universal Temperature.
- S.S Trays.
- Digital Temperature controller Cum Indicator with Timer.
- Safety Thermostat.



MODEL: LSC-35A

* Specifications subject to change without notice

UNIQUE FEATURES

- Ergonomic Design
- Easy to use
- High Temperature Accuracy
- Better Uniformity

CONSTRUCTION

- Triple walled construction, inner chamber made of Mild Steel / Stainless Steel 304 Q & exterior made of G.I Sheets powder coated.
- Gap between the walls is filled with special grade glass wool for proper insulation to avoid heat loss and thereby saving energy.
- The door is fully insulated with S.S lock, hinges.
- Air Ventilations are placed at left & right side for hot gases / fumes.
- Supplied with galvanized wire mesh shelves.

HEATING ELEMENT

- Heating element of Memmert model are placed at the right & left side of the inner chamber and is made of special grade chrome plated Nichrome wire (ISI Approved) for uniform temperature.

TECHNICAL DATA

Temp. Range	:	50°C to 250°C
Accuracy	:	For Thermostat : $\pm 2^\circ\text{C}$ or Digital : $\pm 1^\circ\text{C}$ (or better)
Temp. Control	:	Temperature Controlled by Thermostat OR
Digital Temp. Controller	:	Micro-processor based Auto Tune P.I.D Digital Temperature Controller with PT 100 sensor & Resolution 0.1°C . Dual display one for process value (PV) & the another for Set Value of Temperature (SV)

Inner Chamber Size W x D x H	Rating Watts	No. of Shelves
12" X 12" X 12"	1250	1
14" X 14" X 14"	1450	2
18" X 18" X 18"	1750	2
18" X 18" X 24"	2000	3
24" X 24" X 24"	2500	3
24" X 24" X 36"	3500	4

OPTIONAL ACCESSORIES

- Digital Temperature Controller - Micro-processor based Auto Tune P.I.D Digital Temperature Controller with PT 100 sensor & Resolution 0.1°C . Dual display one for process value (PV) & the another for Set Value of Temperature (SV)
- Motorised Air circulation Blower for Universal Temperature.
- S.S Trays.
- Digital Temperature controller Cum Indicator with Timer.
- Safety Thermostat.



MODEL: LSC-35B

* Specifications subject to change without notice

UNIQUE FEATURES

- Ergonomic Design
- Superior Functionality
- High Temperature Accuracy
- Better Temperature Uniformity

CONSTRUCTION

- Triple walled construction, Completely made of Stainless Steel Inner made of 316 Q & Outer made of 304 Q.
- Gap between the walls is filled with special grade glass wool for proper insulation to avoid heat loss and thereby saving energy.
- The door is fully insulated with S.S lock, hinges.
- Air Ventilations are placed at left & right side for hot gases / fumes.
- Supplied with Stainless Steel wire mesh shelves.
- Forced Air Circulating System with Fan for Temperature Uniformity.
- Safety Thermostat.

HEATING ELEMENT

- Heating element of GMP model are placed at the right & left side of the inner chamber and is made of special grade chrome plated Nichrome wire (ISI Approved) for uniform temperature.



MODEL: LSC-35 GMP

TECHNICAL DATA

Temp. Range	: 50°C to 250°C
Accuracy	: $\pm 1^\circ\text{C}$
Digital Temp. Controller	: Micro-processor based Auto Tune P.I.D Digital Temperature Controller with PT 100 sensor & Resolution 0.1°C . Dual display one for process value (PV) & the another for Set Value of Temperature (SV)

Inner Chamber Size W x D x H	Rating Watts	No. of Shelves
12" X 12" X 12"	1250	1
14" X 14" X 14"	1450	2
18" X 18" X 18"	1750	2
18" X 18" X 24"	2000	3
24" X 24" X 24"	2500	3
24" X 24" X 36"	3500	4

OPTIONAL ACCESSORIES

- Digital Temperature controller Cum Indicator with Timer.
- Safety Thermostat.

* Specifications subject to change without notice

UNIQUE FEATURES

- Ergonomic Design
- Superior Functionality
- High Temperature Accuracy
- Better Temperature Uniformity

CONSTRUCTION

- Double walled construction, Inner Chamber is made of thick gauge Stainless Steel 304 Q and Exterior chamber made of mild steel sheet pre greased, pretreated for rust proofing and powder coated.
- Gap between the chambers is filled with special grade glass wool for proper insulation to avoid heat loss and thereby saving energy.
- Uniform drying under Vacuum.
- Supplied with Stainless steel tray, vacuum gauge, vacuum cock, toughened glass window in centre of the door to see through the chamber.



MODEL: LSC-37

HEATING ELEMENT

- Heating element is made from best quality Nichrome wire wound around the chamber & covered with blankets.

TECHNICAL DATA

Temp. Range	:	50°C to 200°C
Accuracy	:	± 2°C
Digital Temp. Controller	:	Micro-processor based Auto Tune P.I.D Digital Temperature Controller with PT 100 sensor & Resolution 0.1°C . Dual display one for process value (PV) & the another for Set Value of Temperature (SV)
Power Supply	:	230 Volts A.C 50 Hz Single Phase

Inner Chamber Size	Watts
9" Dia. x 12" Depth	700
12" Dia. x 15" Depth	950
15" Dia. x 18" Depth	1100

*Also available in Rectangular Shape.

* Specifications subject to change without notice

UNIQUE FEATURES

- Ergonomic Design
- Superior Functionality
- Negligible Maintenance
- High Temperature Accuracy
- Better Temperature Uniformity

APPLICATIONS

- Biological Oxygen Demand Determination
- General Incubation
- Serum studies
- Enzyme Assays test
- Microbiology Lab

CONSTRUCTION

- Double walled construction,
Inner chamber made of Stainless Steel 304 grade &
Outer chamber made of Mild Steel powder coated.
OR
Inner chamber made of Stainless Steel 304 OR 316 grade &
Outer chamber made of Stainless Steel 304 grade - G.M.P.
model
- The chamber is insulated by filling CFC Free Polyurethane foam (PUF) or high temperature glass wool in the space between outer body and chamber to prevent temperature loss.
- Double door - Outer metal body & Inner Acrylic Door.
- Inner door - made of imported transparent Acrylic which is useful to view inner sample without opening the door and loss of temperature.
- Outer door with magnetic gasket & proper handle, lock & key.
- Supplied with Adjustable Stainless Steel wire mesh shelves.
- Forced Air Circulating System with Fan for Temperature Uniformity.
- High Quality Compressor.
- Illumination provided for inner chamber.
- Control panel with indicating Lamp for Compressor, Heater and on / off switch for mains.
- Inner chamber with smooth corners for easy cleaning.
- Castor wheels for easy movability.



MODEL: LSC-45



* Specifications subject to change without notice

MODEL: LSC-45

HEATING ELEMENT

- Heating is by specially designed air heaters.
- Hermetically sealed compressor unit for CFC free cooling system as per the capacity.

TECHNICAL DATA

Temp. Range	:	5°C to 60°C
Temp. Accuracy	:	±0.5°C
Temp. Uniformity	:	±1°C
Digital Temp. Controller	:	Micro-processor based Auto Tune P.I.D Digital Temperature Controller with PT 100 sensor & Resolution 0.1°C. Dual display one for process value (PV) & the another for Set Value of Temperature (SV)
Power Supply	:	230 Volts A.C 50 Hz Single Phase

Model	Capacity	Inner Chamber Size W x D x H	No. of Shelves
LSC-45(a)	3 cu.ft. (90 Ltr)	43 x 43 x 50 cm	2
LSC-45(b)	6 cu.ft. (170 Ltr)	51 x 51 x 70 cm	2
LSC-45(c)	10 cu.ft. (285 Ltr)	55 x 55 x 100 cm	3
LSC-45(d)	12 cu.ft. (340 Ltr)	60 x 60 x 100 cm	3
LSC-45(e)	16 cu.ft. (440 Ltr)	65 x 65 x 114 cm	4

OPTIONAL ACCESSORIES

- **Micro PLC Based Control & Recording System** for Reach - In BOD Testing Chamber with in built recording, PC interface with 21 CFR Software, Dot Matrix Printer Interface.
- Data Logger for PC or Printer Attachment with software.
- 4, 8, 12 Channel Data Scanner.
- Door access security system.
- Safety Digital Temperature Controller.
- Timer
- Recommended Stabilize.

* Specifications subject to change without notice

UNIQUE FEATURES

- Ergonomic Design
- Light weight
- Easy to use
- Low Energy Consumption
- High Temperature Accuracy
- Most Useful for Ashing, Fusion, ligniting and Heat treating of small parts in Chemical, Industrial Fields, Colleges.

CONSTRUCTION

- Muffle Furnace Horizontal rectangular Outer body made of thick gauge Mild Steel with powder coating. Ceramic fibre wool insulation to prevent heat loss.
- Uniform heat distribution through all four sides with Kanthal A1 element.
- A special solid state silver fuse for protection of element in case of over-heating.

TECHNICAL DATA

Temp. Range : Maximum Temperature 1150°C & Working Temperature 1100°C

Digital Temp. : Micro-processor with dual display to view set temperature and
Controller current temperature with K type sensor and 1°C Resolution

Power Supply : 230 Volts A.C 50 Hz Single Phase

:

Inner Chamber Size D x W x H	Rating K.W.
22 X 10 X 10 cm	1.5
25 X 13 X 13 cm	2.0
30 X 15 X 15 cm	3.5
45 X 23 X 23 cm	6.0



MODEL: LSC-50



MODEL: LSC-50 **GMP**

MUFFEL FURNACE Stainless Steel

* Specifications subject to change without notice

MODEL: LSC-70

UNIQUE FEATURES

- Ergonomic Design
- Easy to use
- Negligible Maintenance
- Better Uniformity

CONSTRUCTION

- Double walled Construction, Inner made of Stainless Steel 304 Q mirror finished & Exterior made of Stainless Steel Matt finish / Mild Steel powder coated.
- Gap between the walls is filled with special grade glass wool for proper insulation to avoid heat loss and thereby saving energy.
- Diameter of holes 3" with Concentric Rings & I.S.I Mark Heating Element.

TECHNICAL DATA

Temp. Range : 5°C above ambient to 99°C

Accuracy : $\pm 1^\circ\text{C}$

Temp. Control : Temperature Controlled by Thermostat
OR

Digital Temp. : Micro-processor based Auto Tune P.I.D
Controller Digital Temperature Controller with PT 100
sensor & Resolution 0.1°C .
Dual display one for process value (PV) &
the other for Set Value of Temperature (SV)

Power Supply : 230 Volts A.C 50 Hz Single Phase



Inner Chamber Size	K.W	Holes
35 X 25 X 10 CM	1	6
40 X 30 X 10 CM	1.5	12



* Specifications subject to change without notice

CONSTRUCTION

- Double walled Construction, Inner made of Stainless Steel 304 Q mirror finished & Exterior made of Stainless Steel Matt finish / Mild Steel powder coated.
- Gap between the walls is filled with special grade glass wool for proper insulation to avoid heat loss and thereby saving energy.
- I.S.I Mark Heating Coil without Pyramid Lid.

TECHNICAL DATA

Temp. Range : 5°C above ambient to 60°C

Accuracy : ± 2°C

Temp. Control : Temperature Controlled by Thermostat
OR

Digital Temp. : Micro-processor based Auto Tune P.I.D Digital Temperature
Controller Controller with PT 100 sensor & Resolution 0.1°C .
Dual display one for process value (PV) &
the other for Set Value of Temperature (SV)

Inner Chamber Size (L x B x H)	Racks
11" x 7" x 6"	2
14" x 10" x 6"	4

* Optinal : Pyramid Lid.



MODEL: LSC-75

WATER BATH ROUND

CONSTRUCTION

- Double walled Construction, Inner made of Stainless Steel 304 Q mirror finished & Exterior made of Stainless Steel Matt finish / Mild Steel powder coated.
- Gap between the walls is filled with special grade glass wool for proper insulation to avoid heat loss and thereby saving energy.
- Heating is by immersion heaters.

TECHNICAL DATA

Temp. Range : 5°C above ambient to 99°C

Accuracy : ± 2°C

Temp. Control : Temperature Controlled by Thermostat
OR

Digital Temp. : Micro-processor based Auto Tune P.I.D Digital Temperature
Controller Controller with PT 100 sensor & Resolution 0.1°C .
Dual display one for process value (PV) &
the other for Set Value of Temperature (SV)

Capacity	Size	Rating K. W.
2 litre	8" x 8"	1.0
5 litre	10" x 10"	1.5
10 litre	12" x 12"	2.0
20 litre	16" x 16"	2.0



MODEL: LSC-80

* Specifications subject to change without notice

DESCRIPTION

- Double walled construction, inner made of Stainless Steel and exterior made of G.I Sheets powder coated.
- Gap between the two walls is filled with glass wool insulation.
- A motor with stirrer for better temperature uniformity.
- Toughened glass window on both sides.
- Temperature Range : 5°C above ambient to 99°C.
- Accuracy : $\pm 0.5^\circ\text{C}$ with digital temperature controller.
- Power Supply : 230 Volts A.C 50 Hz Single Phase.



MODEL: LSC-84A

OPTIONAL ACCESSORIES

- Viscosity Holder

Inner Chamber Size	
12" x 9" x 12"	For 4 Viscosity Holder
12" x 12" x 12"	For 6 Viscosity Holder

CONSTANT TEMPERATURE WATER BATH DIGITAL

DESCRIPTION

- Double walled construction, inner made of Stainless Steel and exterior made of G.I Sheets powder coated / Stainless Steel.
- Gap between the two walls is filled with glass wool insulation.
- Heating is by immersion type heaters.
- Digital Temp. Controller : Micro-processor based Auto Tune P.I.D Digital Controller Temperature with PT 100 sensor & Resolution 0.1°C .
Dual display one for process value (PV) & the another for Set Value of Temperature (SV)
- A circulation pump with motor is mounted on a base and fitted on the side of the bath for uniformity of temperature.
- Temperature Range : 5°C above ambient to 99°C.
- Accuracy : $\pm 0.5^\circ\text{C}$.
- Power Supply : 230 Volts A.C 50 Hz Single Phase.



MODEL: LSC-84B

Inner Chamber Size (L x B x H)
12" X 10" X 8"
18" X 12" X 10"
18" X 14" X 12"

* Specifications subject to change without notice

WATER STILL

UNIQUE FEATURES

- Ergonomic Design
- Easy to use

DESCRIPTION

- Complete unit made of Stainless Steel, Designed to provide Pyrogen free distilled water.
- Condensor can be opened easily for periodic cleaning.
- Easy Wall mounting.
- Heating elements are I.S.I Marked & are easily replaceable.
- The lid perfectly rests and get sealed inside the collar on head of tank which avoids loss of steam & jumping of lid.
- Constant water level arrangement.
- Power Supply : 230 Volts A.C 50 Hz Single Phase.

Capacity per Hour	Rating K. W.
2 Litre	1.5
4 Litre	3.0
6 Litre	4.0
8 Litre	6.0
10 Litre	8.0



MODEL: LSC-65

MEMBRANE FILTER HOLDER

Vacuum Filter Holder / Sterility Test Filter Holder

APPLICATION

- Sterility Testing of antibiotics and pharmaceuticals.
- Microbiological Analysis of retained particles.
- Yeast and mold detection.
- Waste water and particulate contamination analysis.
- Vacuum Filtration of solvents and aqueous solutions.

Specification	
Construction	Stainless Steel Q 316 L
Filter Size	Diemeter - 47mm
Filtration Area	13.5 cm ²
Funnel Capacity	300 ml
Pressure	Vacuum only



MODEL: LSC-85

Sterility Test Unit / Manifold

Specification
1 test
3 test
6 test



MODEL: LSC-86

* Specifications subject to change without notice

UNIQUE FEATURES

- Sturdy Design
- Easy to use

DESCRIPTION

- U.V. Cabinet with long wave (365 nm), short wave (254 nm) & day light.
- U.V. Cabinet with long wave (365 nm), short wave (254 nm), day light and filter
- An enclosed viewing space which eliminates external light interference.
- Control switches mounted on top of the unit.
- It is supplied with 3 tubes to work on 230 volts A.C. Only.

APPLICATION

- Used for Viewing paper thin layer chromatograms, & observing fluorescent effect.



MODEL: LSC-130

VACUUM PUMP OIL SEALED

Rotary High Vacuum Pumps

DESCRIPTION

- Oil Sealed
- Air Cooled
- V - Belt Driven & mounted on base plate with belt guard.
- Fitted with Superior Quality Electric Motor 220 Volts A.C. Single Phase
- The instrument comes without vacuum gauge and engine oil.

APPLICATION

- Filtration in Laboratories
- For Rotary Evaporator instrument

OPTIONAL ACCESSORIES

- Vacuum gauge with regulator & non return valve
- Vacuum gauge with regulator, non return valve & moisture trap
- Vacuum pump oil (Engine Oil No. 40)



MODEL: LSC-90

Model No.	Type	Electric Motor H.P.	Free Air Displacement Ltrs. / Min.
LSC - 32 - S	Single Stage	1/4	32
LSC - 32 - D	Double Stage	1/4	32
LSC - 50 - S	Single Stage	1/4	50
LSC - 50 - D	Double Stage	1/4	50
LSC - 75 - S	Single Stage	1/2	75
LSC - 75 - D	Double Stage	1/2	75

* Specifications subject to change without notice

Model : LSC - 94

SALIENT FEATURES

- No Lubrication required
- Noiseless Performance
- Absolutely Portable
- Totally oil-free construction
- Negligible Maintenance
- All parts made from special graded Aluminium die cast material for light weight and good strength
- Diaphragms are made of special 2 - Ply Nylon reinforced neophrene rubber
- Valves made of Stainless Steel 316 Q
- Built in micro-suction filter
- Extra large bearings for trouble free and smooth running
- Standard Voltage Conditions - 230 Volts A.C 50 Hz Single Phase



MODEL: LVP-45



MODEL: LVP-75 WITH VACUUM GAUGE



MODEL: LVP-100 PISTON

Model	Max. Flow Lts. / Min.	Max. Vaccum (Inches HG)	Max. Pressure (P. Sig.)	Motor H.P.
LVP - 15	15	22"	25	1/20
LVP - 25	15	27"	35	1/16
LVP - 45	45	22"	35	1/8
LVP - 75	45	27"	55	1/4
LVP - 100 PISTON	60	29.5"	100	3/4

OPTIONAL ACCESSORIES

- Vacuum pump gauge.

* Specifications subject to change without notice

REFRACTOMETER HAND HELD

LABLINE™

APPLICATION

- Sugar Solutions, Confectionary products, Jelly, Salt, Urine, Coolants.

Range	
0 - 10 % Brix	28 - 62 % BriX
0 - 18 % Brix	58 - 92 % BriX
0 - 32 % Brix	0 - 100 % Salinity Meter
0 - 50 % Brix	



MODEL: LSC-95

REFRACTOMETER ABBE TYPE

DESCRIPTION

- Provides quick, convenient & accurate means of determination of refractive indices.
- Measurable range from 1.300 to 1.700
- Accuracy 0.001 by direct reading and 0.0001 by estimation.
- Only a drop or two of the sample is sufficient for analysis.
- Sugar percentage range 0 - 95 % with an accuracy of 1 % on scale and 0.1 % by estimation.

APPLICATION

Sugar solutions, Confectionary products, Pharmaceuticals and Essential Oils.



MODEL: LSC-100

REFRACTOMETER OIL & SUGAR Butyroo

DESCRIPTION

This instrument is used for measuring - Percentage of Sugar, Fats in Oil & B.R. value in milk. It has two scales : One is Oil Scale (Butyroo Scale) having range of 0 to 100 with an accuracy 0.1 direct reading on micrometer. The other is Sugar Scale having a range of 50-80% with an accuracy of 1% reading directly on scale.



MODEL: LSC-107

* Specifications subject to change without notice

Polarimeter for 220 mm/ 400 mm POL Tube with Sodium Lamp assembly

DESCRIPTION

- Instrument is used for Educational Research and Quality Control Labs in Industries, suitable for testing sugar solution and other optically active liquids.
- Designed to accommodate upto 220 mm / 400 mm tube having both angular and sugar scale with rotating half shadow effect / Triple shadow effect.



MODEL: LSC-115

MOISTURE BALANCE INFRARED

APPLICATION

- Testing Soils and Agriculture Soils, Biomass Products, Coal, Pharmaceuticals Raw materials, Agro Industries, Wheat Atta, Suji, Maize Flour, Animal Feed, Bagasse, Dry Fruits, etc.

DESCRIPTION

- A High performance compact, dependable Moisture Balance Infra Red for measurement of moisture content of materials.
- The 250 W infrared lamp gives great generation of heat which is controlled by auto - transformer. The balance is calibrated in terms of moisture percentage 0 - 100 % and is read directly on mechanical scale.



MODEL: LSC-125

Specification	
Measuring Range	0 - 100 %
Readability	0.2 %
Accuracy	± 0.5 %
Power Supply	230 Volts, 50Hz
Capacity	5 / 10 / 25 grams
Thermometer	1
Aluminium Disposable Pans	12 Nos.

* Specifications subject to change without notice



MODEL: LSC-320

UNIQUE FEATURES

- Ergonomic Design
- Flexible & Space Saving Stability Chamber
- Superior Functionality
- Negligible Maintenance
- High Temperature Accuracy
- Better Temperature Uniformity
- Long - Term stability tests



TECHNICAL DATA

- For conditions as per ICH guidelines (International Conference of Harmonization) 25°C - 60% RH/40°C - 75% RH/ 30°C - 65% RH/ 25°C - 40% RH/ 40°C - 25% RH/ 30°C - 35% RH.
- Temperature Range : 10.0°C to 60.0°C
- Accuracy/ Uniformity : $\pm 0.1^{\circ}\text{C}$ / $\pm 1^{\circ}\text{C}$
- Humidity Range : 25% to 95% RH
- Accuracy/ Uniformity : $\pm 2\%$ RH / $\pm 3\%$ RH
- Temperature / Humidity display : Digital LED 3.5 digit.
- Control : Microprocessor based PID control Auto tune.
- Resolution : 0.1°C / 1% RH
- Temperature sensor : PT - 100
- RH sensor : Direct capacitance type
- Heating : 'U' shaped tubular heater in stainless steel.
- Cooling : CFC free Copeland make compressor utilizing R 134A eco friendly refrigerant, with condenser, motor and relay or as per the requirement of customer for higher accuracy.
- Steam injection : Boiler with reservoir made of thick stainless steel, with heater, water inlet control, low water level safeguard
- Air circulation: cooling type fan with impellar / blower and flange type motor.
- Construction : Double wall, outer cabinet mild steel powder coated and inner chamber stainless steel 304 grade, Double door - outer metal body and inner acrylic door.
- Chamber illumination : Fluorescent light with door switch.
- Castor wheels for easy move ability with minimum weights bearing of 50kg.
- Trays : Stainless steel wire mesh heavy duty.
- Electrical : 230V / 15A / 50 Hz
- Calibration certificate by ERTL - Mumbai with traceability ERTL.

* Specifications subject to change without notice

MODEL: LSC-320

SAFETY FEATURES

- High Temperature safety cut off
- Low water level boiler cut off
- Electrical overload cutoff relay for compressor
- Time delay for compressor switch ON
- Electrical circuit breaker

PRE INSTALLATION MANDATORY REQUIREMENT

(Guarantee void in case of non compliance)

- a) Distilled water or DM water continuous supply with tap for boiler input of % "BSP at 3 feet height.
- b) Room temperature around machine preferably at 25°C with air conditioning or a well ventilated room with exhaust fan. However, surrounding temperature should not exceed 30°C.
- c) Stabilized input voltage of 230V A.C Amps. Use of servo controlled stabilizer is recommended.
- d) Water Drain line with 1/2" nozzle to be provided at floor level.

Model	Size W x D x H	Liters	Cu. Ft.	No. of Shelves
LSC - 320 (a)	43 X 43 X 50 cm	90 Lit.	3 Cu. Ft.	2
LSC - 320 (b)	50 X 50 X 70 cm	180 Lit.	6 Cu. Ft.	2
LSC - 320 (c)	55 X 55 X 100 cm	300 Lit.	10 Cu. Ft.	3
LSC - 320 (d)	60 X 60 X 100 cm	360 Lit.	12 Cu. Ft.	3

OPTIONAL ACCESSORIES

- **Micro PLC Based Control & Recording system** for Reach in stability testing chamber with in - built Recording, PC Interface with 21 CFR Software, DOT - Matrix Printer Interface.
- R.H. Imported Sensor for 100 % RH Readings.
- Standby Refrigeration Systems as per capacity.
- PLC for auto change over for standby refrigeration.
- CFR 21 part 11 compliance software for PLC with Rs. 485 or Ethernet Communication.
- Data Logger for Rs. 485 communication system with PC Connectivity.
- 4, 8 and 12 channel Data Scanner complete with sensor RH and PT-100 Sensor.
- SMS Mobile alert system.
- Door Access Security system.
- Safety Digital Temperature Controller
- Timer
- Recommended Stabilizer.

* Specifications subject to change without notice

MODEL: LSC-330

UNIQUE FEATURES

- Ergonomic Design
- User Friendly
- Superior Functionality
- Negligible Maintenance

DESCRIPTION

- Designed so as to meet the requirements of US Federal Standard 209 B (BS 5295) providing particle free air to meet (class 100 conditions). The cabinets are used in Tissue Culture and Microbiological application.
- Constructed with M.S Powder coated.
Or
- Constructed with Stainless Steel GMP Model.
- Unit designed to provide a Laminar Flow Work space comprising as standard feature HEPA filter Efficiency > 99.97% at 0.3 microns (Factory DOP tested). Pre - filter 95% efficient @ 5 microns, suitable motor blowing assembly.
- Working Table Top of Stainless Steel; Stain Finish, Side Acrylic Panels; Fluorescent Tube Light; U.V Light, Pressure Differential Manometer, Gas Cock duly fitted and complete with front door.
- Unit mounted on Castor wheels for easy movability.



Laminar Horizontal

Model	Working Table Surface Made of S.S
	L 2' X W 2' X H 2'
Horizontal	L 3' X W 2' X H 2'
	L 4' X W 2' X H 2'
	L 2' X W 2' X H 2'
Vertical	L 3' X W 2' X H 2'
	L 4' X W 2' X H 2'

OPTIONAL ACCESSORIES

- Sliding Door for Vertical Laminar Air Flow.
- Digital Manometer insted of acrylic one.
- Microprocessor Based LCD Display with - UV Hours Burn Meter. Pressure Manometer, Blower Fan, Motor assembly, Main on/off UV and Day Light on/off and many more features.



Laminar Vertical

* Specifications subject to change without notice

UNIQUE FEATURES

- Ergonomic Design
- Negligible Maintenance

APPLICATIONS

- Application includes isolation and identification of plant / human pathogens, work in virology, tissue culture, sterility testing and recombinant DNA research.
- This Biohazard Cabinet offers operator protection from low to moderate risk biological agents (or Chemical carcinogens), while providing a sterile work environment for the procedure.
- The cabinet is kept under negative pressure with partial quantity of recirculated air exhausted through a HEPA filter.

The Additional main features are as under :-

- Specially suited for wet processing, water fab, chemical work, critical biological work involving virus and pathogens & for microbiology, biochemistry etc.

CONSTRUCTION

- Biosafety complete construction made of mild steel powder coated with perforated stainless steel table top.
or
Biosafety complete construction made of stainless steel Quality 304 / 316 with perforated table top.
- Integral powerful exhaust system, Built in positive Air Curtain effect to prevent inside air from going out and room from entering in, providing total process and operator safety.
- Exhaust ducting to carry the air outside.
- Front sliding door, U.V. light, Manometer, Gas cock etc. as Standard accessories.

SAFETY FEATURES

- AIR FLOW : 70% of the air is recirculated back in to work area and 30% of the air is HEPA filtered and exhausted out to the environment via a dedicated duct without mixing with the recirculated air.

TECHNICAL SPECIFICATION:

HEPA Filter	: Media Glass fibre paper -Imported (Mini Pleat HEPA filter)
Particle retention	: 0.3 micron
Efficiency	: 99.97%
Pressure Drop	: 23mm WG
Pre Filter	: Media Non woven -Synthetic Polyester (Washable)
Particle retention	: 10-15 microns
Efficiency	: 90%
Pressure drop	: 6 mm WG
Blower Assembly	: Single phase motor, 1440 RPM, directly coupled with a pair of Aluminium, Centrifugal impeller capacity 1000 CFM, Pressure 30mm WG
Exhaust Assembly	: Single phase Motor, 1440 RPM directly coupled with Aluminum impeller, Capacity-300 CFM, Ducting vy PVC pipe with rain guard-DIA 150mm
Ultra Violet Light	: Imported make i.e. SANYO Japan, Philips Holland
Fluorescent Light	: 2 or 4 feet with diffuser any standard make i.e. Philips, Surya etc.
Standard	: Pressure Manometer, Additional Power Point, Gas Inlet Nozzle,
Accessories includes	Caster Wheel, Wire cord as per customer requirements.

OPTIONAL ACCESSORIES:

External Exhaust from the Laboratory



MODEL: LSC-360

Model	Internal Diamention W x D x H
LSC - 360 (a)	900 X 600 X 678 mm
LSC - 360 (b)	1200 x 600 x 678 mm
LSC - 360 (c)	1500 x 600 x 678 mm
LSC - 360 (d)	1800 x 600 x 678 mm



* Specifications subject to change without notice

MODEL: LSC-365

Safety in the Laboratory is a primary concern. The fume hoods meet the challenge high degree of efficiency. A wide variety of models and comprehensive option packages have been designed to enable you to tailor your fume hood to a specification

FUME HOOD MADE OF COMPLETE MILD STEEL:

Are manufactured from best quality C.R.C.A. Sheets (Cold Rolled Case Annealed Low carbon steel sheets) of 18/20G which are duly epoxy polyester powder coated. Powder coating of this quality provides better protection from acid fumes in the lab.

FUME HOOD MADE OF COMPLETE WOOD:

- Are manufactured from well seasoned teakwood and 12mm thick marine plywood panels. Outer surface are lined with laminates
- Both Fumes Chamber: Are available with variety of lining and work surface like PP, PPGL, FRP, SS, (316), PVC, HDPE, suspended on safe device. It is provided with counter balance load for easy up and down movement * Are aerodynamically designed which provides most efficient airflow to the suction
- Are double wall construction which provides easy maintenance, access to service like Water gas, electricity etc. Are provided with support base having provision for air vent connection to evacuate lapped chemical vapor inside. Are provided with switch for easy starting of the centrifugal fan. High quality HDPE/FRP/PPGL/PP/PVC pipes & accessories are used for FC during
- We are using centrifugal PP/FRP Blower for Exhaust system of FC, 3 Phase Motor (Capacity according to need) is coupled with blower

Model	Internal Size (L x W x H)	Overall Length
LSC - 365 (a)	1520 x 750 x 1150 mm	6 feet
LSC - 365 (b)	1220 x 750 x 1150 mm	5 feet
LSC - 365 (c)	920 x 750 x 1150 mm	4 feet



MODEL: LSC-365

* Complete S. S. Models are also Available

* Specifications subject to change without notice

UNIQUE FEATURES

- Compact Design
- Economy Model
- Easy to operate
- Negligible Maintenance

DESCRIPTION

- The body is made of M.S epoxy powder coated.
- Temperature range - ambient to 99°C
- Accuracy - $\pm 0.2^{\circ}\text{C}$
- Digital Temp. Controller : Micro-processor based Auto Tune P.I.D Digital Controller Temperature with PT 100 sensor & Resolution 0.1°C .
Dual display one for process value (PV) & the another for Set Value of Temperature (SV)
- Aluminium Blocks - Supplied with 3 nos. interchangeable Aluminium blocks of 75 x 50 x 50 mm for accommodating 0.5 ml, 1.5 ml centrifuge tube, 12 mm, 16 mm or 19 mm Test tube (As per requirement).



MODEL: LSC-DB-451

ORBITAL SHAKER BENCH TOP

For growing culture of micro organism and tissue cells.

DESCRIPTION

- The body is made of Heavy M.S powder coated with Stainless Steel tray for flask.
- The shaking speed 20 to 200 RPM Orbital strokes per minute and the orbit diameter of 25 mm.
- Supplied with S.S Clamp for conical flask.
- Available with Electronic Speed Controller,
OR
- With Electronic Speed Controller & Digital RPM Meter.



MODEL: LSC - OS - 410 - A

Number of Flask
Flask 8 x 250ml
Flack 16 x 250ml
Flack 8 x 500ml
Flack 16 x 500ml
Flack 4 x 1000ml
Flack 8 x 1000ml

* Specifications subject to change without notice

DESCRIPTION

- For growing culture of micro organism and tissue cells.
- The drive mechanism is powered by - a permanent magnet geared DC Motor with 25 mm diameter motion OR AC Frequency drive geared motor for continuous working.
- Transparent acrylic cover allows unobstructed view of the chamber contents from front two sides and from top.
- The body made of Heavy M.S and painted with epoxy powder paint.
- The inner walls of the incubator will be pasted with laminated sheet to avoid heat loss.
- Supplied with Lotus Clamps for conical flask.

TECHNICAL SPECIFICATION

- Temperature Range : ambient plus 5°C to 60°C ; Controlled to $\pm 0.2^\circ\text{C}$ by PID type Temperature Controller with dual display Keypad setting and PT- 100 sensor.
- Fitted with a re-circulation fan in the chamber for uniformity of temperature.

Platform Size	Chamber Size	Maximum No. of Flasks		
		250 ml	500ml	1000 ml
(mm)	(mm)			
325 x 325	400 x 400 x 300	8	8	4
425 x 425	500 x 500 x 300	16	16	8

OPTIONAL ACCESSORIES

- Digital Speed Indicator.



MODEL: LSC-OS-421

COD DIGESTER DIGITAL

DESCRIPTION

- Suitable for COD method for monitoring wastewater influent and effluent, industrial process water, and more. Aluminium Heating block with holes is used to hold C.O.D tubes. (With tubes, condensers and stands)

TECHNICAL SPECIFICATIONS

- Temperature Range : Above ambient to 180°C
- Timer : 99 Hr : 59 min. to switch off the heater after the test.
- Hole size : 40mm dia. x 80 mm depth.
- Sample Volume : 20 ml. each

C.O.D. Digester
15 Samples
9 Samples
6 Samples



MODEL: LSC-COD-460

* Specifications subject to change without notice

Digital Microscope Cameras

Complete range of Digital Microphotography solutions cameras for converting any microscope to a digital microscope. Choose from a wide range of up to 20 Megapixels of high resolution cameras.

Camera Types: CMOS Cameras, CCD Cameras

Suitable Applications: Life Sciences, Genetics Pathology, Material Science, Metallography, Mineralogy and Geology, Quality Control, Forensics, Macroscopy.

Software: Each Camera delivered with advance Image capturing and analysis software MicroView.

C-mount Adapters for Zeiss, Nikon, Leica and Olympus Microscopes.

Model	Megapixel
DC 2	2MP
DC 3	3MP
DC 5	5 MP
DC 10	10 MP
DC 14	14MP
DC 15	HDMI



* Specifications subject to change without notice

Features of Pipette

- Fixed & Variable volume
- Easy Volume setting
- Two Step Plunger Operation
- Click stop system for volume setting
- High Accuracy
- Easy to calibrate
- Ergonomy light weight and soft plunger
- Autoclavable lower assembly.

Micro Pipette Variable Volume

Model	Volume
MPV - 1	0.5 µl - 10 µl
MPV - 2	5 µl - 50 µl
MPV - 3	10 µl - 100 µl
MPV - 4	20 µl - 200 µl
MPV - 5	100 µl - 1000 µl
MPV - 6	1 ml - 5 ml

Micro Pipette Fixed Volume

Model	Volume
MPF - 1	5 µl
MPF - 2	10 µl
MPF - 3	20 µl
MPF - 4	25 µl
MPF - 5	50 µl
MPF - 6	100 µl
MPF - 7	200 µl
MPF - 8	250 µl
MPF - 9	500 µl
MPF - 10	1000 µl
MPF - 11	2 ml
MPF - 12	5 ml



* Specifications subject to change without notice

DIGITAL TABLET DISINTEGRATION TEST APPARATUS

LABLINE™

TABLET DISINTEGRATION TEST APPARATUS is a Microprocessor based instrument designed for accurate determination of disintegration time of tablets, capsules, as per IP/BP/USP standard. These tests are carried out by quality control and R & D departments in pharmaceutical industry. Two hotplates are provided to maintain the temp. of the liquid media (1000ml beaker). Two batches of six tablets each can be tested simultaneously. Solid state Heat Regulator is provided to control the heat of the Hotplate. A constant speed 30 RPM motor drive single bar up & down smoothly to lift two baskets. The stroke is adjusted as per the specifications. A simple & unique arrangement of loading & unloading the basket makes it user friendly.

Digital pre-set Timer 99.59hr. is provided to set the integration time & to switch off the motor. In power failure, the non-volatile memory of the microprocessor remember the last mode of operation, and complete the test after the power supply is resumed.

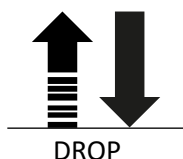
SPECIFICATIONS :

No. of Basket	: Double Basket (2 x 6 Test)
Stroke	: 50mm. approx. 30 strokes/min.
Timer	: Microprocessor based preset timer 00.01 to 99.59 Hr. with alarm
Display	: Digital 12 min. Red LED for time
Heat Control	: Continuously variable Electronic heat control
Dimension	: 350 W x 270 D x 400mm H
Weight	: 11 Kg. approx.



Model : 40TDA01

BULK DENSITY APPARATUS



APPLICATION :

To study the packing down of powder beds of different pharmaceutical & chemical powders.

FEATURES :

Acrylic Measuring Cylinder Holder with Rubber cushioning.
Maintenance free AC Motor 30 RPM.
Direct Stroke setting eliminates the tedious calculation of Timer Mode.
Microprocessor based counter with non contact sensor for trouble free operation.
In power, failure, the non-volatile memory of the microprocessor remembers the last mode of operation.

SPECIFICATIONS :

Capacity	: 50ml / 100 ml / 250ml Measuring Cylinders x 2 Nos.
Rate	: 30 drops / min Fix
Drop Height	: 50 mm
Setting of Drops	: Adjustable between 1to 9999 drops.
Display	: 4 digit, 7 segment Red LED 12 mm H.
Dimension	: 350 mm W x 265 mm D x 280 mm H
NOTE	: Adaptors to accommodate 50 ml & 100 ml cylinders in 250 ml Model & 50ml cylinder in 100ml Model



Model : 40BDA02

* Specifications subject to change without notice

ANTIBIOTIC ZONE READER (DIGITAL)

LABLINE™

The Antibiotic Zone Reader determines the strength of antibiotic materials by measuring diameter of 0 to 80.0 mm of inhibited zone in petri dish.

Agar in petri dish is inoculated with bacteria. Then sensitivity disc is dispensed on to dish. After incubation, bacterial growth covers disc except circular inhibited zone. Zone diameter is the function of antibiotic strength. Light from the base passes up through transparent & semi-transparent portion of agar.

FEATURES:

- Accurate reading of the zone in mm on digital display.
- Resolution is 0.1 mm
- Electronic "ZERO" adjustment eliminates tedious zero setting on the scale.
- No parallax so no human error in reading.
- Fine focus adjustment for clear image on viewing glass.
- No effect of ambient light on image
- Halogen lamp for sharp & bright optical imaging and also it has long life.
- User Friendly design for easy operation the instrument.

SPECIFICATIONS:

Rang	: 0 to 80.0 mm	Least Count	: 0.1 mm
Display	: 3 Digit 7 Segment Red LED		
Power Supply	: 230 Volts, 50 Hz AC		
Dimension	: 370 W x 380 D x 220 mm H		
Weight	: 8 kg. approx.		



Model : 10AZR02

KARL FISCHER TITRATION APPARATUS

DIGITAL AUTO DISPENSING (BURETTE LESS)

Easy to handle the apparatus as less glass parts are used. Specially designed continuous duty positive displacement peristaltic pump is used to dispense reagent and methanol into reaction vessel. Reversing facility available to transfer the reagent from the tubing back to reservoir. Digital readout to avoid human reading errors.

Karl Fischer Titrator finds use in chemical, pharmaceutical, food, cosmetics, oil and many other industries in QC and R & D Laboratories.

SPECIFICATIONS:

Titration Method	: Volumetric
Reagent Dispense	: Peristaltic pump with silicone tubing.
Display	: Digital Display
Resolution	: 0.01 count
Accuracy	: +/- 10 PPM (0.01%) for 25 gms of sample
Electrode	: Twin Platinum
Vessel	: Specially designed moisture tight reaction vessel.
Stirrer	: Motorized teflon coated magnetic stirrer
End Point	: Audio & Visual Alarm
Time Delay	: 10 to 60 seconds adjustable
Dimension	: 300 W x 300 D x 300 mm H
Weight	: 6 Kgs. approx.



Model : 10KFT04

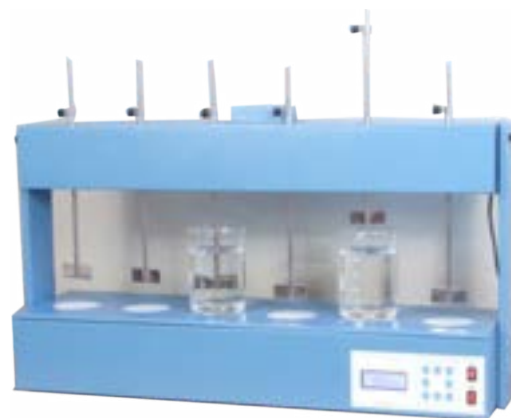
* Specifications subject to change without notice

JAR TEST APPARATUS

DIGITAL FLOCCULATOR (JAR TEST APPARATUS) has been specially designed for use in water treatment plants to correctly estimate the dosing of alum and such other coagulants for treatment of water & sewage. It provides identical test condition for all samples. sulphate concentration & for measuring suspended matter and colloids general.

SPECIFICATIONS:

- Motor : Continuous duty brush less electronic stepper motor
- Control : Microprocessor based Speed controller with LCD
Display for RPM & Time
- Speed : Variable from 5 to 150 RPM
- Timer : Timer 99 Hr 59 Min to switch off the motor
- Illumination : LED Lights mounted below translucent acrylic sheet to illuminate bottom
- Paddles : Paddles made of S. S
- Lifting : Individual Lifting of the S. S Stirrer
- Mechanism : Belt driven bearing smooth mechanism
- Note : Beakers 1000 ml is at extra cost



Model	Description
30FLS01	FOUR STIRRER Model with Timer 99 Hr : 59 Min.
30FLS02	SIX STIRRER Model with Timer 99 Hr : 59 Min.
30FLS03	TWO STIRRER Model with Timer 99 Hr : 59 Min.

MELTING POINT APPARATUS DIGITAL (OIL BATH)

DIGITAL PROGRAMMABLE RATE OIL BATH (VISUAL DETECTION)

APPLICATION :

Programmable Oil Bath Melting Point Apparatus is designed to determine the MELTING point, BOILING point or FLOW point of a substance visually.

FEATURES :

- Silicon oil Bath with Magnetic Stirrer
- Special 'H' Type glass vessel and precise rate controller for temperature uniformity
- Pre Temp, Setting with alarm to reduce the active time requirement of the chemist

SPECIFICATIONS :

- DISPLAY : DIGITAL RED LED DISPLAY TEMP.
- RANGE : UP TO 300°C
- RESOLUTION : 0.1°C
- RATE OF HEATING : 0.5, 1, 2 & 5°C SELECTABLE AFTER REACHING PRESET TEMP.
- STIRRER : MAGNETIC WITH TEFLON COATED BIT
- VIEWING : THROUGH MAGNIFYING LENS, BACKGROUND ILLUMINATED
- BATH : 100 ML OIL BATH WITH LEVEL MARKING
- SENSOR : RTD (PT-100) TEMP. SENSOR
- HOLD : FACILITY TO HOLD READING BY PUSH BUTTON
- SAMPLE : CAPILLARIES 3 NOS. FOR MELTING POINT
MINI TEST TUBE 1 NO. FOR BOILING POINT
- ACCESSORIES : 100 NOS. CLOSE END CAPILLARIES & 1 NO. MINI TEST TUBE



Model : 10MPA01

* Specifications subject to change without notice

TABLET DISSOLUTION RATE TEST APPARATUS

LABLINE™

APPLICATION :

Designed to carry out simultaneously Six Tests / Eight Tests of Dissolution rate of tablets and capsules as per USP Standard. These tests are carried out by quality control and R & D departments in pharmaceutical industry.

FEATURES :

- As per usp Standards
- Microprocessor based digital temperature Controller
- Digital RPM Display
- Digital Timer Presentable from 1 Min to 99 Hrs. 59 Min. OR 99 Min. 59 Sec with alarm
- Provided with Round Bottom Glass Jar, Paddle and Basket



SPECIFICATIONS :

Temperature Range: ambient to 45° C

Speed : Variable from 25 to 160 RPM with accuracy of +/- 1 RPM

Other Options : SINGLE Test Model - Manual Lifting Arrangement

Model	Description
40DRT02	SIX Test Model - Auto Lifting Arrangement
40DRT03	EIGHT Test Model - Auto Lifting Arrangement

TABLET FRIABILITY TEST APPARATUS (DIGITAL)

The Friability Test Apparatus is Microprocessor based instrument designed to monitor the resistance of tablets to stresses and to decide their suitability for the further process.

These tests are carried out by quality control and R & D departments in pharmaceutical industry. A fix 25 RPM motor drives the unique universal acrylic drum (same drum can be used at the left or right side of the instrument). Digital microprocessor based counter is provided to pre-set the revolution & to automatically stop the motor with alarm. This feature eliminates the tedious calculation of timer mode. In power failure, the non-volatile memory of the microprocessor remembers the last mode of operation, and completes the test after the power supply is resumed.

SPECIFICATIONS :

Rotation Speed : 25 RPM approx.

Revolution : Digital, setting adjustable between 1 to 9999

Display : Digital 12 mm Red LED

Switches : Tactile switches for counter

Drum : Labline universal acrylic drum of 300 mm diameter as per USP Standard

Dimension : 300 W x 300 D x 380 mm H

Weight : 9 Kg. approx.



Model	Description
40FTA01	SINGLE DRUM Model
40FTA02	DOUBLE DRUM Model

* Specifications subject to change without notice

TEST SIEVE

TEST SIEVE S.S. FRAME DIA 8" WITH S.S. WIRE MESH FOR RESEARCH AND PHARMA INDUSTRIES

BSS NO.
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MODEL: LSC-700



Quality beyond excellence

We proudly ...



Since 1986