

## CLINICAL LAB INSTRUMENTS



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## Clinical Lab Instruments

### Hot Air Oven (2000-LSI-OV-01)

• Hot air ovens are electrical devices used in sterilization. Generally, they can be operated from 50 to 300 °C (122 to 572 °F) . There is a thermostat controlling the temperature. These are digitally controlled to maintain the temperature. Their double walled insulation keeps the heat in and conserves energy, the inner layer being a poor conductor and outer layer being metallic. There is also an air filled space in between to aid insulation. An air circulating fan helps in uniform distribution of the heat. These are fitted with the adjustable wire mesh plated trays or aluminum trays and may have an on/off rocker switch, as well as indicators and controls for temperature and holding time. The capacities of these ovens vary.

- Temperature range: Ambient+10°C-260°C
- Better Mineral / Glass wool / Blanket Insulation
- Silent Hot Air Blower, unique Design of Air Circulation provide throughout uniform air movement & improved Temperature distribution
- Unique design of Ventilation keep the surface of the instrument from being burnt even when the instrument i.e. Oven Temperature is maintained at above 200°C
- Polish 304 grade S. Steel interior, corrosion resistant for long life operation/Having adjustable shelves to make more space for different height /Kanthal A-1 super quality coil shaped heaters duly embedded / wound on the sides and bottom for better accuracy
- Equipped with LCD PID temperature Controller Cum indicator with timer function/Temperature overshoot alarm, Timer function, Fan On/Off through controller
- Model also available with data logger and thermal printer device
- Available in 28, 45,65,95,125,224,252,336 & 480 Ltrs. capacities



**Hot Air Oven**

CAT NOS	Size in (mm)Aluminum Chamber	Size in (inches)	Shelves	Liters
LSI-OV-01 A	300x300x300 mms	(12"x12"x12")	2	28
LSI-OV-01 B	350x350x350 mms	(14"x14"x14")	2	45
LSI-OV-01 C	400x400x400 mms	(16"x16"x16")	2	65
LSI-OV-01 D	450x450x450 mms	(18"x18"x18")	2	95
LSI-OV-01 E	600x450x450 mms	(24"x18"x18")	2	125
LSI-OV-01 F	600x600x600 mms	(24"x24"x24")	2	224
LSI-OV-01 G	900x600x450 mms	(36"x24"x18")	2	252
LSI-OV-01 H	900x600x600 mms	(36"x24"x24")	2	336
LSI-OV-01 I	900x900x900 mms	(36"x36"x36")	3	480

CAT NOS	Size in (mm)stainless steel chamber	Size in (inches)	Shelves	Liters
LSI-OV-01 J	300x300x300 mms	(12"x12"x12")	2	28
LSI-OV-01 K	350x350x350 mms	(14"x14"x14")	2	45
LSI-OV-01 L	400x400x400 mms	(16"x16"x16")	2	65
LSI-OV-01 M	450x450x450 mms	(18"x18"x18")	2	95
LSI-OV-01 N	600x450x450 mms	(24"x18"x18")	2	125
LSI-OV-01 O	600x600x600 mms	(24"x24"x24")	2	224
LSI-OV-01 P	900x600x450 mms	(36"x24"x18")	2	252
LSI-OV-01 Q	900x600x600 mms	(36"x24"x24")	2	336
LSI-OV-01 R	900x900x900 mms	(36"x36"x36")	3	480

#### Additional charges for :-

- Air circulating fan , timer 0-24 hours
- Micro processor pid digital temp.indicator cum controller
- Pid temp. controller with lcd display



## Clinical Lab Instruments

### Drying Oven(Industrial) (2000-LSI-OV-02)



**Drying Oven(Industrial)**

These ovens are heated chambers used for a variety of industrial applications, including drying, curing, or baking components, parts or final products. Industrial ovens can be used for large or small volume applications, in batches or continuously with a conveyor line, and a variety of temperature ranges, sizes and configurations. Such ovens are used in many different applications, including chemical processing, food production, and even in the electronics industry, where circuit boards are run through a conveyor oven to attach surface mount components. Drying ovens are designed to remove moisture. Typical applications are pre-treating and painting. Such ovens are also sometimes known as kilns, though they do not reach the same high temperatures as are used in ceramic kilns.

- Temperature range: Ambient+10°C-300°C.
- Better Mineral / Glass wool / Blanket Insulation.
- Silent Hot Air Blower, unique Design of Air Circulation provide throughout uniform air movement & improved Temperature distribution.
- Unique design of Ventilation keep the surface of the instrument from being burnt even when the instrument i.e. Temperature is maintained at above 200°C.
- Polish S. Steel interior, corrosion resistant for long life operation.
- Having adjustable shelves to make more space for different height.
- Kanthal A-1 super quality coil shaped heaters duly embedded / wound on the sides and bottom for better accuracy.
- Equipped with LCD PID temperature Controller Cum indicator with timer function.
- Temperature overshoot alarm, Timer function, Fan On/Off through controller.
- Model also available with data logger and thermal printer device.

#### **CAT NOS**

LSI-OV-02 A  
LSI-OV-02 B  
LSI-OV-02 C  
LSI-OV-02 D

#### **Size in (mm)**

900x600x600 mms  
1200x900x900 mms  
1500x900x900 mms  
1800x1200x900 mms

#### **Size in (inches)**

(36"x24"x24")  
(48"x36"x36")  
(60"x36"x36")  
(72"x48"x36")

#### **Additional charges for :-**

- Timer 0-24 hours



## Clinical Lab Instruments

### Tray Dryer (2000-LSI-OV-03)

Drying is a mass transfer process consisting of the removal of water or another solvent by evaporation from a solid, semi-solid or liquid. This process is often used as a final production step before selling or packaging products. To be considered "dried", the final product must be solid, in the form of a continuous sheet (e.g., paper), long pieces (e.g., wood), particles (e.g., cereal grains or corn flakes) or powder (e.g., sand, salt, washing powder, milk powder). A source of heat and an agent to remove the vapor produced by the process are often involved. In bio-products like food, grains, and pharmaceuticals like vaccines, the solvent to be removed is almost invariably water.

- Temperature range: Ambient+10°C-200°C
- Better Mineral / Glass wool / Blanket Insulation
- Silent Hot Air Blower, unique Design of Air Circulation provide throughout uniform air movement & improved Temperature distribution
- Triple wall construction for unique hot air drying
- Stainless Steel/Mild steel interior, corrosion resistant for long life operation
- Kanthail A-1 super quality "U" shaped heaters duly fitted on both the sides and bottom of the chamber.
- Equipped with LCD PID temperature Controller Cum indicator with timer function
- Temperature overshoot alarm, Timer function, Fan On/Off through controller
- Available in 6,12,24,48,96 tray capacities of tray size 16"x32"x1.25"
- Model also available with data logger and thermal printer device
- Workable on single/three phase AC current
- Customized models available on request



**Tray Dryer**

CAT NOS	Size in (mm) All SS	Trays
LSI-OV-03 A	430x840x650 mms	8
LSI-OV-03 B	430x840x910 mms	12
LSI-OV-03 C	910x840x910 mms	24
LSI-OV-03 D	960x1270x1450 mms	48
LSI-OV-03 E	960x1700x1700 mms	96

CAT NOS	Size in (mm) Inner SS	Trays
LSI-OV-03 F	430x840x650 mms	8
LSI-OV-03 G	430x840x910 mms	12
LSI-OV-03 H	910x840x910 mms	24
LSI-OV-03 I	960x1270x1450 mms	48
LSI-OV-03 J	960x1700x1700 mms	96

CAT NOS	Size in (mm) Inner MS	Trays
LSI-OV-03 K	430x840x650 mms	8
LSI-OV-03 L	430x840x910 mms	12
LSI-OV-03 M	910x840x910 mms	24
LSI-OV-03 N	960x1270x1450 mms	48
LSI-OV-03 O	960x1700x1700 mms	96

#### Additional charges for :-

- Timer 0-24 hours
- Micro processor pid digital temp.indicator cum controller
- Pid temp. controller with lcd display
- Tray 16"x32"x1.25"



## Clinical Lab Instruments



**Vacuum Oven**

### Vacuum Oven (2000-LSI-OV-04)

A vacuum oven is a type of oven that can heat materials, typically metals, to very high temperatures and carry out processes such as brazing, sintering and heat treatment with high consistency and low contamination.

In a vacuum oven the product in the oven is surrounded by a vacuum. The absence of air or other gases prevents heat transfer with the product through convection and removes a source of contamination.

- Temperature range: Ambient+10°C-100°C
- Double walled construction.
- Inner round chamber made out of stainless steel sheet.
- Exterior made out of mild steel duty finished in powder coated paint.
- Gap between the two filled with mineral wool for temp. insulation.
- The body capable of withstanding vacuum of 760 mm hg.
- Supplied with/without Vacuum pump fitted inside.
- Available in 20,40 & 60 Liters capacities
- Model also available with data logger and thermal printer device
- Customized models available on request
- Complete with Digital temp. controller, indicator lamp, on-off switch, cord plug etc.
- Workable on 220 V AC 50 Hz single phase.

#### CAT NOS

LSI-OV-04 A  
LSI-OV-04 B  
LSI-OV-04 C

#### Size in (mm)

250x300  
300x300  
300x500

#### Liters

12 ltr.  
24 ltr.  
40 ltr.

#### Additional charges for :-

- Timer 0-24 hours
- Micro processor pid digital temp.indicator cum controller
- Pid temp. controller with lcd display
- Tray 16"X32"X1.25"
- Vacuum Pump





## Clinical Lab Instruments

### Bacteriological Incubator (2000-LSI-INC-01)

In biology, an incubator is a device used to grow and maintain microbiological cultures or cell cultures. The incubator maintains optimal temperature, humidity and other conditions such as the carbon dioxide (CO<sub>2</sub>) and oxygen content of the atmosphere inside. Incubators are essential for a lot of experimental work in cell biology, microbiology and molecular biology and are used to culture both bacterial as well as eukaryotic cells.

- Temperature range: Ambient+10°C-110°C
- Better Mineral / Glass wool / Blanket Insulation
- Silent Hot Air Blower, unique Design of Air Circulation provide throughout uniform air movement & improved Temperature distribution
- Door fitted with double glass window for inside view
- Polish 304 grade S. Steel interior, corrosion resistant for long life operation
- Having adjustable shelves to make more space for different height
- Kanthal A-1 super quality coil shaped heaters duly embedded / wound on the sides and bottom for better accuracy
- Equipped with LCD PID temperature Controller Cum indicator with timer function
- Temperature overshoot alarm, Timer function, Fan On/Off through controller
- Model also available with data logger and thermal printer device
- Available in 28, 45, 65, 95, 125, 224, 252, 336 & 480 Ltrs. capacities



**Bacteriological Incubator**

CAT NOS	Size in (mm).Aluminum Chamber	Size in (inches)	Sheives	Liters
LSI-INC-01 A	300x300x300 mms	(12"x12"x12")	2	28
LSI-INC-01 B	350x350x350 mms	(14"x14"x14")	2	45
LSI-INC-01 C	400x400x400 mms	(16"x16"x16")	2	65
LSI-INC-01 D	450x450x450 mms	(18"x18"x18")	2	95
LSI-INC-01 E	600x450x450 mms	(24"x18"x18")	2	125
LSI-INC-01 F	600x600x600 mms	(24"x24"x24")	2	224
LSI-INC-01 G	900x600x450 mms	(36"x24"x18")	2	252
LSI-INC-01 H	900x600x600 mms	(36"x24"x24")	2	336
LSI-INC-01 I	900x900x900 mms	(36"x36"x36")	3	480

CAT NOS	Size in (mm).Stainless Steel chamber	Size in (inches)	Sheives	Liters
LSI-INC-01 J	300x300x300 mms	(12"x12"x12")	2	28
LSI-INC-01 K	350x350x350 mms	(14"x14"x14")	2	45
LSI-INC-01 L	400x400x400 mms	(16"x16"x16")	2	65
LSI-INC-01 M	450x450x450 mms	(18"x18"x18")	2	95
LSI-INC-01 N	600x450x450 mms	(24"x18"x18")	2	125
LSI-INC-01 O	600x600x600 mms	(24"x24"x24")	2	224
LSI-INC-01 P	900x600x450 mms	(36"x24"x18")	2	252
LSI-INC-01 Q	900x600x600 mms	(36"x24"x24")	2	336
LSI-INC-01 R	900x900x900 mms	(36"x36"x36")	3	480

#### Additional charges for :-

- Air circulating fan
- timer 0-24 hours
- Micro processor pid digital temp.indicator cum controller
- Pid temp. controller with lcd display



## Clinical Lab Instruments



**B.O.D. Incubator**

### B.O.D. Incubator (2000-LSI-INC-03)

• A BOD incubator is an incubator designed to maintain 20°C necessary to perform a test called Biochemical Oxygen Demand (BOD). It involves incubating samples saturated with oxygen at 20°C for (usually) five days. Such an incubator has a compressor to depress the temperature below ambient and a heater to bring it back up to 20°C. These work against each other and produce very precise temperature control, often as close as  $\pm 0.1^\circ\text{C}$ . The term "incubator" is a general term which includes BOD incubators and other incubators designed to maintain other temperatures. The term used unqualified usually refers to an incubator designed to maintain temperatures of 5°C or more above ambient to as high as 100°C. Incubators designed to maintain temperatures below ambient to as low as about 10°C are generally called low-temperature incubators.

- Temperature range: 0°C-110°C
- Better Glass wool / Puff Insulation keeps the temperature of the chamber immune from outer environment
- Silent & unique Design of Air Circulation provide throughout uniform air movement & improved Temperature distribution
- Inner illumination through florescent light on opening of door
- Double door : outer of MS powder coating & Inner acrylic door from clear viewing without disturbing the chamber temp.
- Polish 304 grade S. Steel interior, corrosion resistant for long life operation
- Having adjustable shelves to make more space for different height
- Kanthail A-1 super quality round shaped heaters for heating & hermetically sealed compressor for cooling
- Equipped with digital PID temperature Controller Cum indicator
- Digital display of volts & ampere
- Available in sizes: 112, 171, 280, 336 & 420 Ltrs.

#### CAT NOS

LSI-INC-03 A  
LSI-INC-03 B  
LSI-INC-03 C  
LSI-INC-03 D  
LSI-INC-03 E

#### Size in (mm) Aluminium Chamber

455x410x610  
505x415x830  
565x565x865  
650x580x900  
700x650x900

#### Capacity

112 ltrs.  
171 ltrs.  
280 ltrs.  
336 ltrs.  
420 ltrs.

#### Capacity

4 cu.ft.  
6.1 cu.ft.  
10 cu.ft.  
12 cu.ft.  
15 cu.ft.

#### CAT NOS

LSI-INC-03 F  
LSI-INC-03 G  
LSI-INC-03 H  
LSI-INC-03 I  
LSI-INC-03 J

#### Size in (mm) S.S. Chamber

455x410x610  
505x415x830  
565x565x865  
650x580x900  
700x650x900

#### Capacity

112 ltrs.  
171 ltrs.  
280 ltrs.  
336 ltrs.  
420 ltrs.

#### Capacity

4 cu.ft.  
6.1 cu.ft.  
10 cu.ft.  
12 cu.ft.  
15 cu.ft.

#### Additional charges for :-

- Timer 0-24 hours
- Micro processor pid digital temp.indicator cum controller
- Pid temp. controller with lcd display
- Automatic voltage stabilizer (recommended)



## Clinical Lab Instruments

### Orbital Shaking Incubator (2000-LSI-INC-04)

A BOD incubator is an incubator designed to maintain 20°C necessary to perform a test called Biochemical Oxygen Demand (BOD). It involves incubating samples saturated with oxygen at 20°C for (usually) five days. Such an incubator has a compressor to depress the temperature below ambient and a heater to bring it back up to 20°C. These work against each other and produce very precise temperature control, often as close as  $\pm 0.1^\circ\text{C}$ . In an Orbital shaker incubator the unit is added with a typical shaker that has a table board that oscillates horizontally, powered by an electric motor. The liquids to be stirred are held in beakers, jars, or Erlenmeyer that are placed over the table; or, sometimes, in test tubes or vials that are nested into holes in the plate. Orbital shakers also exist, that shake the vessel in a circular fashion.

- Temperature range:  $5^\circ\text{C}$ - $110^\circ\text{C}$
- Better Glass wool / Puff Insulation keeps the temperature of the chamber immune from outer environment
- Silent & unique Design of Air Circulation provide throughout uniform air movement & improved Temperature distribution
- Inner illumination through florescent light on opening of door
- Double door : outer of MS powder coating & Inner acrylic door from clear viewing without disturbing the chamber temp.
- Polish 304 grade S. Steel interior, corrosion resistant for long life operation
- Fitted with shaker with a capacity to hold 16 flasks of 250 ml or 500 ml
- Kanthail A-1 super quality round shaped heaters for heating & hermetically sealed compressor for cooling
- Equipped with digital PID temperature Controller Cum indicator
- Digital display of volts & ampere & RPM



**Orbital Shaking Incubator**

#### **CAT NOS**

LSI-INC-04 A  
LSI-INC-04 B

#### **Capacity**

16 flasks of 500 ml  
16 flasks of 500 ml

#### **Temperature range**

5\* above ambient to  $60^\circ\text{C}$   
 $5^\circ\text{C}$  to  $60^\circ\text{C}$

#### **Additional charges for :-**

- Digital Display Of RPM
- Timer 0-24 hours, Micro processor pid digital temp.indicator cum controller
- Pid temp. controller with lcd display
- Automatic voltage stabilizer (recommeded)





## Clinical Lab Instruments

### Serological Waterbath (2000-LSI-BT-01)

Serological Water Bath offered by us find wide application in day to day bacteriological and varied laboratory applications that require incubation and general tests/procedures including Wassermann, Kilmer tests to be carried out in researches and testing laboratories. These come with calibrated finish with protocol documentation and deliver versatile usage, thus providing for longer service life of this instrument. For delivering consistent performance, these feature double walled construction with inner chambers made up S.S. sheet and outer surface of M.S. duly enamel painted finish. The gaps as present between walls come filled with special grenade glass wool so as to avoid thermal losses. Other than this, the inner chamber fitted with immersion type heating element comes covered with perforated removable diffuser tray for superior performance.

**Available in 12,14,18,25 & 32 Ltrs. capacities**

CAT NOS	Size in (mm)S.S Tank	Capacity	Capacity
LSI-BT-01 A	300X175X175	One Rack	12 LTR.
LSI-BT-01 B	300X250X175	Two Rack	14 LTR.
LSI-BT-01 C	375X300X175	Four Rack	18 LTR.
LSI-BT-01 D	455X300X175	Six Rack	25 LTR.
LSI-BT-01 E	605X300X175	Eight Rack	32 LTR.

**Additional charges for :-**

- Timer 0-24 hours
- Micro processor pid digital temp.indicator cum controller
- Pid temp. controller with lcd display
- Stirrer Arrangement

### Rectangular Water Bath (2000-LSI-BT-02)

The electrically operated Rectangular Water Bath are made of thick stainless steel and feature constant water levels maintained inside them. For optimum performance, these also come complete with concentric rings having 75 mm dia, wire plugs and with suitable drainage facility. The bath machine also comprises thermostatic controller that allows better control of temperature levels with removable glass tray and stainless steel platform for drying of sections. Some of the applications these are used in include for sterilizing purposes. These water baths also come fitted with heating element for uniform heating throughout the system and finds usage in areas like medical institutions, research laboratories, agricultural institutions, bio-chemical industries as well as in many other industries.

**Sizes:**

1. 6 holes of 75mm dia
2. 12 holes of 75 mm dia

CAT NOS	Size in(mm)s.s chamber	Capacity	Capacity
LSI-BT-02 A	300x250x100 mm	8 ltr.	6 holes of 75 mm dia
LSI-BT-02 B	355x405x100 mm	15 ltr.	12 holes of 75 mm dia

**Additional charges for :-**

- Timer 0-24 hours
- Micro processor pid digital temp.indicator cum controller
- Pid temp. controller with lcd display
- Stirrer Arrangement



**Rectangular Water Bath**



## Clinical Lab Instruments

### Water Bath With Magnetic Stirrer (2000-LSI-BT-10)

• Use baths and stirrers separately or together. Bath components incorporate durable 304 SS inner construction with heating element. Heavy gauge powder coated mild steel sheet bath exterior. Over-current protection fuse and empty-boiling preventative safety devices. Stirrers feature a powerful rare-earth magnet with smooth speed control to a maximum speed of 1200 rpm. Easy-to-clean design. Combine baths and magnetic stirrers for excellent temperature uniformity and stirring action. Typical applications include protein digestion and polymer research.

- Bath and stirrer can be used individually or together
- Used as water bath, stirrer beat or heat evaporator according to different applications.
- Working temperature: Ambient+5-95°C
- Temperature stability  $\pm 0.5^{\circ}\text{C}$  at 37°C
- PID based temperature controller
- Stirring range: Maximum 1200 RPM
- Bath Volume: upto 5 liters
- Fitted with low water level cut off device

#### Additional charges for :-

- Digital Display of RPM



**Water Bath With Magnetic Stirrer**

### Curing Tank (2000-LSI-BT-11)



**Curing Tank**

The strength of concrete is generally estimated after 28 days by crushing field test cubes or cylinders made from the representative concrete used for the structure. The utility of ascertaining strength after 28 days is often questioned since by this time considerable concrete would have been placed and work may have progressed. It is then rather too late for remedial measures. It is therefore of tremendous advantage to predict 28 days strength within a few hours of casting the concrete so that, we have a good idea about the strength of the concrete.

Accelerated Curing Tank having capacity to accommodate 6/12/18 Concrete Cubes of 150mm size with a facility for accelerated curing by Boiling water method up to temperature range : 100  $\pm$  2 deg.C . Also it will have capacity for curing by warm water method at temperature 55  $\pm$  2 deg.C

Tank will consist of a rectangular double walled metal cabinet, inside lined with stainless steel, outer powder coated. Easily replaceable high Wattage heaters are mounted inside the chamber. A slow speed stirrer is provided to circulate water inside the chamber to maintain the uniform temperature of water. A strong stainless steel perforated platform is provided for keeping the cubes and also have a lid with lifting handle to cover the chamber.

The temperature is indicated and controlled by a DIGITAL auto tuning PID Temp. Controller with timer to control the duration of heating and then to shut down the system without manual attendance. The front panel will have power supply indicating lamp, control action indication lamp and one main switch. Suitable for operation on 220 V, 50 Hz single phase, AC supply or 440 V 50 Hz, three phase AC supply, for bigger size of curing tank.

#### Optional Accessories:

- Spare Heaters.
- Low water Level cut off device to safeguard heaters against low water level burn out.
- In built refrigeration system for curing at 27 deg C



## Clinical Lab Instruments



**Constant Temp. Water Bath**

### Constant Temp. Water Bath (2000-LSI-BT-03)

High Precision Water Bath find application in carrying out day to day bacteriological and laboratory applications that need incubation and general tests as well as procedures in variety of testing as well as research laboratories. Further, these are also used in areas of enzyme reaction studies, fermentation analysis and tissue culture application. Featuring presence of double walled chamber, these come with high speed stirrer with motor of 1/20HP that is fitted to unit for achieving continuous stirring as well as maintaining a uniform temperature throughout. Further, the presence of speed regulator on front panel also allows controlling speed of stirrers heating mechanism comprising set of heaters with sensitivity of  $\pm 0.1^{\circ}\text{C}$   $\pm 1$  digit from ambient to  $100^{\circ}\text{C}$  and work on 220 / 230 volts A.C. Supply.

#### CAT NOS

LSI-BT-03 A  
LSI-BT-03 B  
LSI-BT-03 C

#### Size in (mm)

425x250x225  
450x375x375  
600x450x450

#### Size in (inches)

17x10x9  
18x15x15  
24x18x18

#### Additional charges for :-

- Timer 0-24 hours
- Micro processor pid digital temp.indicator cum controller
- Pid temp. controller with lcd display

### Universal Water Bath (2000-LSI-BT-07)

- These baths are a combination of serological as well as rectangular baths.
- Double wall construction
- Inner tank made of stainless steel
- Fitted with thermostat to control the temperature
- Temperature range from ambient  $\pm 5-90^{\circ}\text{C}$
- These baths are suitable for washing Marshall specimen.
- Lid is made up of stainless steel with a hole for glass thermometer to penetrate.



**Universal Water Bath**

#### CAT NOS

LSI-BT-07 A  
LSI-BT-07 B

#### Size in (mm)

300x225x175  
400x300x175

#### Size in (inches)

12x9x7  
18x12x7

#### Capacity

14 ltr.  
25 ltr.

#### Additional charges for :-

- Stirring Arrangements
- Timer 0-24 hours
- Micro processor pid digital temp.indicator cum controller
- Pid temp. controller with lcd display



## Clinical Lab Instruments

### Muffle Furnace (2000-LSI-FR-01)

Our range of muffle furnace are best suitable for the laboratories and in various experiments. Muffle furnace is light weight with ceramic fiber wool insulation (instead of brick insulation). Some of the features of muffle furnace are as follows:

- The outer casing is made of double walled thick PCRC sheet, reattached with thick perforated sheet on the bottom portion, painted with attractive stove enamel/powder coated.
- Its heating elements are made of KANTHAIL wire and backed by high temperature ceramic wool insulation, which avoid loss of energy. Temperature control unit consists of digital temp. controller, fitted in front of furnace with two pilot lamps.
- The apparatus is complete with digital temp. controller, silver thermal fuse, main lead with power plug and to work on 220/ 230 volts AC,
- The maximum temp, in laboratory model is 1100°C and in industrial model it is 1250°C.
- Rectangular shape wounded muffle baked at high temperature is fitted inside the chamber.



**Muffle Furnace**

CAT NOS	Size in (mm)	Size in (inches)
LSI-FR-01 A	225x100x100	9x4x4
LSI-FR-01 B	250x125x125	10x5x5
LSI-FR-01 C	300x125x125	12x5x5
LSI-FR-01D	300x150x150	12x6x6
LSI-FR-01 E	300x200x200	12x8x8
LSI-FR-01 F	350x175x125	14x7x5
LSI-FR-01 G	475x175x125	19x7x5
LSI-FR-01 H	450x225x225	18x9x9

**Additional charges for :-**

- Micro processor pid digital temp.indicator cum controller
- Pid temp. controller with lcd display

### Muffle Furnace (2000-LSI-FR-02)

CAT NOS	Size in (mm)	Size in (inches)
LSI-FR-02 A	225x100x100	9x4x4
LSI-FR-02 B	250x125x125	10x5x5
LSI-FR-02 C	300x150x150	12x6x6
LSI-FR-02D	300x200x200	12x8x8
LSI-FR-02 E	450x225x225	18x9x9

**Additional charges for :-**

- Micro processor pid digital temp.indicator cum controller
- Pid temp. controller with lcd display



## Clinical Lab Instruments



### Magnetic Stirrers (2000-LSI-STR-01)

Compact stirring device utilizing a rotating magnetic field applied from below the container. The stirring is accomplished by a Teflon rotor placed in the liquid to be stirred. Complete with pilot lamp, plug, cord, continuously variable speed regulator.

The body is made of mild steel duly finished in powder coating and mounted with a stainless steel top, which serves as a hot plate. In model with heating system, temperature is controlled by an energy regulator. An electronic speed controller is also provided. Complete with Teflon coated magnet.

A) Magnetic stirrer without heating system.

B) Magnetic stirrer with hot plate & energy regulator.

**Capacity :**

(I) 2ltr. (ii) 5ltr. (iii) 10ltr.

LSI-STR-01 A	Magnetic stirrer with hot plate 2 ltr.
LSI-STR-01 B	Magnetic stirrer without hot plate 2 ltr.
LSI-STR-01 C	Magnetic stirrer with hot plate 5 ltr.
LSI-STR-01 D	Magnetic stirrer without hot plate 5 ltr.
LSI-STR-01 E	Magnetic stirrer with digital RPM indicator
LSI-STR-01 F	Magnetic stirrer with digital RPM & Temp. control

### JAR TEST APPARATUS LSI-STR-02

LSI-STR-02 A	FOR SIX JAR APPARATUS
LSI-STR-02 B	WITH DIGITAL DISPLAY OF RPM

### Jar Test Apparatus (2000-LSI-STR-03)

Flocculator 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 and sewage. It provides identical test conditions for all samples. Illuminates base consists of fluorescent tubes mounted below translucent plastic plate to provide diffused cold light through the samples. Flocculator consists of AC driven variable speed motors having speed from 20 to 180 RPM with built in speed controllers. Stainless steel stirring shafts are provided with adjustable spacers to adjust the depth of stirring paddles. The unit is supplied without beakers to work on 220volts. AC.



Jar Test Apparatus

### JAR TEST APPARATUS LSI-STR-03

LSI-STR-03 A	FOR SIX JAR APPARATUS
LSI-STR-03 B	WITH DIGITAL DISPLAY OF RPM





## Clinical Lab Instruments

### Heating Mantle (2000-LSI-HM-01)

Heating mantle or Isomantle is a term for certain pieces of laboratory equipment used to apply heat to containers, as an alternative to other forms of heated bath. In contrast to other heating devices, such as hotplates or Bunsen burners, glassware containers may be placed in direct contact with the heating mantle without substantially increasing the risk of the glassware shattering, because the heating element of a heating mantle is insulated from the container so as to prevent excessive temperature gradients.

Key Features:

- Used for uniform heating/boiling of glass flasks
- Auto cut off as the desired temperature is reached
- Heat resistant aluminum body and powder coated paint
- Suitable for heating flasks
- Provision of fuse and buffers for safe and smooth operation
- Available in capacities of 50-50000ml



**Heating Mantle**

LSI-HM-01 A	Heating Mantle 50 ml
LSI-HM-01 B	Heating Mantle 100 ml
LSI-HM-01 C	Heating Mantle 250 ml
LSI-HM-01 D	Heating Mantle 500 ml
LSI-HM-01 E	Heating Mantle 1000 ml
LSI-HM-01 F	Heating Mantle 2000 ml
LSI-HM-01 G	Heating Mantle 3000 ml
LSI-HM-01 H	Heating Mantle 5000 ml
LSI-HM-01 I	Heating Mantle 10000 ml
LSI-HM-01 J	Heating Mantle 20000 ml
LSI-HM-01 K	Heating Mantle 50000 ml



## Clinical Lab Instruments



**VDRL Shaker**

### VDRL Shaker (2000-LSI-SKM-01)

VDRL shaker is an essential equipment for a Venereal Disease Research Laboratory, where it is used for the mixing of syphilis testing card, emulsion reaction, and complement fixation reaction while can also be used to blends of clinical diagnostic tests requiring gentle agitation. Bionics Scientific, designs and manufactures VDRL Shakers that are compact, durable and offer fixed as well as variable speed controls and can accommodate wide range of VDRL Slides, Small Flasks, Bottles & Beakers.

**Features:-**

- Compact design, durable construction
- Smooth mixing
- Platform with holder clamp and springs
- Heavy duty motor
- Highly balanced drive mechanism
- Non-slip rotating base
- Ideal for serological & syphilis tests
- Uniform speed

**Specifications:**

- Shaking speed 50 to 300 rpm
- Amplitude 10 mm
- Timer can be set up to 99 hrs
- Micro controller based programme
- Brushless Motor
- Interchangeable Platform
- LED display

LSI-SKM-01 A VDRL SHAKER

LSI-SKM-01 B VDRL SHAKER WITH DIGITAL RPM & TIMER



## Clinical Lab Instruments

### Shaking Machine (Wrist Action) (2000-LSI-SKM-02)

We are engaged in offering wide range of Wrist Action Shakers. Our experienced designers have used their vast knowledge and advance technology to make it a worthy product at market leading price. Clients can avail these from at industry leading.

Description:

Resembles hand mixing and is an appropriate solution for dissolution, extractions & homogenization Easily Detachable arms Timer option for accurate mixing time

Digital RPM controller available for exact results

Allow all types of flasks and tubes with diameters of between

Technical Data:

- Speed Range: 0 – 950 RPM
- Operational Mode: Continuous Operation
- Timer Option: Upto 60 minutes
- Dimensions: 27 x 77 x 23 cm
- Weight: 11 kg.
- Platform Support: For Erlenmeyer Flasks
- Permissible Ambient Temperature: 5 – 40 °
- Permissible Relative Moisture: 80.00%
- Motor Type: PMDC Motor
- Maximum Load: 5 kg.
- Supply: 220 V, 50 Hz
- Power: 34W

LSI-SKM-02 A Wrist Action Shaker for 4 flasks

LSI-SKM-02 B Wrist Action Shaker for 8 flasks

LSI-SKM-02 C Wrist Action Shaker with digital RPM & Timer



**Shaking Machine (Wrist Action)**



**Vortex Shaker**

### Vortex Shaker (2000-LSI-SKM-03)

We are engaged in offering a wide range of Vortex Shaker. The offered range of vortex shaker is manufactured by our professionals using superior-grade raw material and components. Our vortex shakers are quality checked on well-defined parameters to ensure long lasting performance.

Description:

Variable speed mixer to eliminate hand mixing. Suitable for short-time operation (touch function), activated by pressing shaker attachment or continuous operation. Compact Design. Stable at high speeds thanks to a sturdy MS base for vibration damping. Interchangeable adaptors

Technical Data:

- Type of Movement: Orbital
- Speed Range: 0 – 2500 RPM
- Operation Mode: Continuous Operation
- Touch Function: Yes
- Dimensions: 140 x 140 x 190 mm
- Weight: 2.8 kgs.
- Permissible Ambient Temperature: 5 – 40 °
- Permissible Relative Moisture: 80%
- Motor Rating: 50 Watt
- Speed Display: None
- Voltage: 220 – 240 V
- Frequency:

LSI-SKM-03 A Vortex Shaker

LSI-SKM-03 B Vortex Shaker with adapter for multiple tubes



## Clinical Lab Instruments

### Reciprocating Shaking Machine (2000-LSI-SKM-04)

Reciprocating Shaking Machine (Kahn Rack Type) is offered by us in the global market. The Reciprocating Shaking Machine that we provide is specifically designed for shaking KAHN racks, bottles, flasks of different size by adjusting compartments. The clients can avail the Reciprocating Shaking Machine from us at affordable price.

Specifications Of Our Reciprocating Shaking Machine

Fitted with heavy duty motor to work on 220V, AC 50 Hz single phase

The rate of motion is adjustable mechanically by belt tension. Speed is fixed in same models to approximately 275

Optional Accessories Automatic 0-60 minute timer

CAT NOS            Size of carrier

LSI-SKM-04 A     20"x13"x4"

LSI-SKM-04 B     31"x17"x4"

LSI-SKM-04 C     36"x18"x4"

**Additional charges for :-**

- Digital display of RPM, 0-60 minute timer



**Reciprocating Shaking Machine**

### Rotary Shaker (Platform Type)(2000-LSI-SKM-05)

Owing to our years of experience and in-depth knowledge of this domain, we are offering Rotary Shaker. This is fabricated using optimum quality raw material and advanced technology in compliance with the set industry guidelines. This shaker has combined rotary & tilting agitation.

Description :

Ideal for mixing and development of cultures, chemicals, solvents, assays etc.

Base assembly fabricated from heavy Mild Steel Sections. Compact counter balanced drive mechanism ensures high stability and reliability. Universal Platform to accommodate interchangeable clamps of assorted sizes for different capacity of flasks.

Available in digital control of RPM and timer.

Technical Data:

- |  |  |
|--|--|
| • Type of Movement: Rotational         | • Speed Range: 0 – 350 RPM                   |
| • Operation Mode: Continuous Operation | • Timer Option: Yes                          |
| • Dimensions: 74 x 74 x 20 mm          | • Weight: 15 kgs.                            |
| • Platform Size: 18" x 18" ; 24" x 24" | • Permissible Ambient Temperature: 5 – 40 °C |
| • Permissible Relative Moisture: 80%   | • Motor Type: PMDC Motor                     |
| • Maximum Load: 12 kg.                 | • Voltage: 220 – 240 V                       |
| • Speed Display: None                  | • Supply: 220 V, 50 Hz                       |



**Rotary Shaker (Platform Type)**

**CAT NOS**

LSI-SKM-05 A

LSI-SKM-05 B

LSI-SKM-05 C

LSI-SKM-05 D

LSI-SKM-05 E

LSI-SKM-05 F

LSI-SKM-05 G

**Platform size(cm)**

45x45 cm

45x45 cm

55x55 cm

65x65 cm

90x90 cm

100x100 cm

100x100 cm

**Holding capacity**

25 flasks of 100 ml

15 flask of 250 ml

25 flask of 250 ml

36 flask of 250 ml

49 flask of 250 ml

81 flask of 250 ml

81 flask of 500 ml

**Additional charges for :-**

- Digital display of RPM, 0-60 minute timer



## Clinical Lab Instruments

### Mortuary Chamber (2000-LSI-EE-04)

Mortuary chambers are equipments that are used for storing cadaverous under cool conditions to prevent decomposition. These equipments are made of corrosion free metal components, with insulation ensuring maximum thermal efficiency and durability.

These are extremely useful in hospitals, railways and hospitals. The external surface of these equipments is chemically treated, antitrust coated and duly furnished with power coated paint. Mortuary chambers are double walled cooled units. The outer body of these equipments is constructed out of thick mild steel that are painted with long lasting power coated paint. The inner chamber of these equipments is made of heavy gauge stainless steel of SS- 304 grade. The 100 mm gap is filled with high grade polyurethane insulation that ensures maximum thermal efficiency.

#### Salient Features

- Durable/Energy efficient
- Sturdy construction/PUF insulation'
- Special loading trolley/Digital temp indication'
- Designed for long storage of cadaverous
- Environmental friendly

#### Features

- Incorporated with trays to carry dead bodies with handles at both ends
- CFC free refrigeration unit is kept outside the chamber and fixed at the rear top
- Easy to maintain
- Compact'



**Mortuary Chamber**

#### CAT NOS

LSI-EE-04 A  
LSI-EE-04 B  
LSI-EE-04 C  
LSI-EE-04 D  
LSI-EE-04 E

#### Capacity(Outer Inner SS)

Single body  
Two bodies  
Three bodies  
Four bodies  
Six bodies

#### Temperature

2°C to 5°C  
2°C to 5°C  
2°C to 5°C  
2°C to 5°C  
2°C to 5°C

#### CAT NOS

LSI-EE-04 F  
LSI-EE-04 G  
LSI-EE-04 H  
LSI-EE-04 I  
LSI-EE-04 J

#### Capacity(Outer MS-Inner SS)

Single body  
Two bodies  
Three bodies  
Four bodies  
Six bodies

#### Temperature

2°C to 5°C  
2°C to 5°C  
2°C to 5°C  
2°C to 5°C  
2°C to 5°C





## Clinical Lab Instruments



**Laminar Airflow Cabinet**

### Laminar Airflow Cabinet (2000-LSI-CAC-01)

Laminar Flow principle involves double filtration of air through coarse pre-filters (upto 5 microns) and Hepafilter (down) to 0.3 microns) for filtration of biological and particulate contaminants. A constant airflow is drawn from atmosphere and passed through pre and hepa filters on the work surface. Tabletop covered with stainless steel sheet. Side panels are fixed and are made out of transparent acrylic sheet. The front door is folding type and made of thick acrylic sheet. Stand is built in type. Blower unit has AU or equivalent motor and is dynamically balanced with minimum sound & vibration level. Fluorescent lighting is also provided. A suitable UV tube is provided for sterilization. The chamber has been installed with One way gas tap for gas line. The manometer fixed outside the cabinet reflects the condition of the filters fitted inside and whether it is the right time to change the filters.

Specifications:

- Motor: ¼ hp motor with centrifugal blower assembly
- Filtration: through Hepa and pre filter
- Fitted with ultra violet tube
- Fluorescent light illumination
- Manometer
- Gas cock assembly
- Thick acrylic front and side panels
- Outer body made of thick mild steel duly powder coated
- Platform made of stainless steel

#### HORIZONTAL LAMINAR AIRFLOW CABINET

CAT NOS	Chamber Size (Inch)SS	CAT NOS	Chamber Size (Inch)MS	CAT NOS	Chamber Size(Inch)WOODEN
LSI-CAC-01 A	2"x2"x2"	LSI-CAC-01 E	2"x2"x2"	LSI-CAC-01 I	2"x2"x2"
LSI-CAC-01 B	3"x2"x2"	LSI-CAC-01 F	3"x2"x2"	LSI-CAC-01 J	3"x2"x2"
LSI-CAC-01 C	4"x2"x2"	LSI-CAC-01 G	4"x2"x2"	LSI-CAC-01 K	4"x2"x2"
LSI-CAC-01 D	6"x2"x2"	LSI-CAC-01 H	6"x2"x2"	LSI-CAC-01 L	6"x2"x2"

#### VERTICAL LAMINAR AIRFLOW CABINET

CAT NOS	Chamber Size (Inch)SS	CAT NOS	Chamber Size (Inch)MS	CAT NOS	Chamber Size(Inch)WOODEN
LSI-CAC-01M	2"x2"x2"	LSI-CAC-01 Q	2"x2"x2"	LSI-CAC-01 U	2"x2"x2"
LSI-CAC-01 N	3"x2"x2"	LSI-CAC-01 R	3"x2"x2"	LSI-CAC-01 V	3"x2"x2"
LSI-CAC-01 O	4"x2"x2"	LSI-CAC-01 S	4"x2"x2"	LSI-CAC-01 W	4"x2"x2"
LSI-CAC-01 P	6"x2"x2"	LSI-CAC-01 T	6"x2"x2"	LSI-CAC-01 X	6"x2"x2"



## Clinical Lab Instruments

### Bio Safety Cabinet (2000-LSI-CAC-03)

A biosafety cabinet (BSC) also called a biological safety cabinet or microbiological safety cabinet is an enclosed, ventilated laboratory workspace for safely working with materials contaminated with (or potentially contaminated with) pathogens requiring a defined biosafety level.

Key features:

- Nominal inflow velocity of 105 fpm (0.5 m/sec);
- Nominal down flow velocity of 55 fpm (0.3 m/sec);
- Approximately 70% air recirculation;
- Smart-Start System
- Night-Smart System that idles the blower when the sash is fully closed;
- Digital display of inflow air velocity
- Fluorescent light or UV light control
- Control on right-hand side post for manual activation of blower, light;
- 304 grade stainless steel seamless interior
- Epoxy-coated mild steel exterior
- 99.99% efficient HEPA filters
- Fully-closing, clear 1/4" Acrylic sash with two sash handles,
- Sash counterbalanced, anti-racking mechanism and 10 degree slope
- 21.7" (54 cm) maximum sash opening height and 27.0" (69 cm) viewing height;
- Glare-free fluorescent lighting
- 10' (3 m) power cord with plug



**Bio Safety Cabinet**

CAT NOS	Chamber Size (Inch)SS	CAT NOS	Chamber Size (Inch)MS	CAT NOS	Chamber Size(Inch)WOODEN
LSI-CAC-03 A	2"x2"x2"	LSI-CAC-03 E	2"x2"x2"	LSI-CAC-03 I	2"x2"x2"
LSI-CAC-03 B	3"x2"x2"	LSI-CAC-03 F	3"x2"x2"	LSI-CAC-03 J	3"x2"x2"
LSI-CAC-03 C	4"x2"x2"	LSI-CAC-03 G	4"x2"x2"	LSI-CAC-03 K	4"x2"x2"
LSI-CAC-03 D	6"x2"x2"	LSI-CAC-03 H	6"x2"x2"	LSI-CAC-03 L	6"x2"x2"

### Fume Hood (2000-LSI-CAC-04)

Used mostly Activated Carbon filters. The fume hood is designed in order to throw out toxic or harmful Fumes. Fume hood are used to protect the persons and eliminate the toxic gases thro' ducting by exhaust blower.

Product features & specifications:

- Easy-of-Use: Sliding sash movement offers easy and thorough cleaning to every users
- The high-grade transparent glass door offers excellent visibility of the chemical handling.
- The most suitable UV light provides you with optimum decontamination in the work zone surface.
- Cutting-edge baffle system.
- Highly effective backup safety device for the contaminant and exhaust of toxic, offensive or flammable materials.
- Size: L=1200 MM, D=900 MM, H=2250 MM with bottom storage cabinet
- Below air capacity of 300 CFM
- Centrifugal blower PP+FRP lined blower with FRP vinyl ester impeller and motor 1440 RPM, 1.5 HP.



**Fume Hood**

CAT NOS	Chamber Size (Inch)SS	CAT NOS	Chamber Size (Inch)MS	CAT NOS	Chamber Size(Inch)WOODEN
LSI-CAC-04 A	3"x2"x2"	LSI-CAC-04 D	3"x2"x2"	LSI-CAC-01 G	3"x2"x2"
LSI-CAC-04 B	4"x2"x2"	LSI-CAC-04 E	4"x2"x2"	LSI-CAC-01 H	4"x2"x2"
LSI-CAC-04 C	5"x2.5"x2.5"	LSI-CAC-05 F	5"x2.5"x2.5"	LSI-CAC-01 I	5"x2.5"x2.5"



## Clinical Lab Instruments

### UV Sterilizer Cabinet (LSI-CAC-06)

Ultraviolet germicidal irradiation (UVGI) is a disinfection method that uses ultraviolet (UV) light at sufficiently short wavelength to kill microorganisms. It is used in a variety of applications, such as food, air and water purification. UVGI utilizes short-wavelength ultraviolet radiation (UV-C) that is harmful to microorganisms. It is effective in destroying the nucleic acids in these organisms so that their DNA is disrupted by the UV radiation, leaving them unable to perform vital cellular functions.

Specifications:-

- S.S. Chamber with 12 die pressed SS trays
- Imported UV Tube mounted on S.S. reflector
- Emits UV light (Germicidal in properties)
- Effective tool for avoiding contamination of instruments once sterilized or autoclaved.
- Can maintain & preserve instruments for days without any fear of contamination.
- Door switch interlock prevents emission of UV light as soon the chamber is opened to avoid any harmful effect on operator.
- Electronic circuits for instant start without flickering of tube.



**UV Sterilizer Cabinet**



## Clinical Lab Instruments



**Deep Freezers**

### Deep Freezers (2000-LSI-FZ-03)

Our Deep Freezer Cabinets are in conformity with all requirements of industry for economic way to create Temperature below freezing point to suit various standards application in the field of, science & research for storage & testing in biology, anatomy, chemistry & in many other fields, for industry & science.

Specifications : Testes & Applications:

Behavior tests for material & equipments i.e., electric motors , gears, electrical & electronic parts, cables, plastic material, rubber, oil & grease etc. Shock tests for metals & other materials for the cold- shrinking of building elements, e.g. Shafts, Bolts, Gearwheels, Bearings etc. for the hardening of materials in order to achieve better toughness or hardness. (Ultra Deep Freezer).

- Temperature range: As low as -20 Degrees
- Digital display Electronic Temperature controller / P.I.D Controller.
- Temp. Sensor: PT 100 Sensor mounted inside the chamber suspended in air.
- Inner Chamber: Made of stainless steel 304 quality duly polished. The working chamber is completely free for use
- Outer Chamber: The outer housing is made of galvanized steel sheet powder coated or complete Stainless Steel.
- Cooling Coil: Cooling element is embedded from outer side of the working chamber.
- Condenser Coil: The Heat Exchanger coil is air-cooled condenser, arranged on right / bottom in Equipment.
- Refrigerant: CFC free refrigerant.
- Insulation: Polyurethane foam "PUF".
- Door: Double Door system with Inner Glass door to avoid temperature loss.
- Power Source: Electrical supply 220 volts single phase AC.
- Caster: Two fixed & two swiveling.
- (Optional) Alarm device: For protection of materials, which are sensitive to temperature changes.

#### CAT NOS

LSI-FZ-03 A  
LSI-FZ-03 B  
LSI-FZ-03 C  
LSI-FZ-03 D

#### Chamber size(mm) Vertical

375x500x605 mm  
505x410x830 mm  
570x550x875 mm  
650x580x900 mm

#### Capacity

4 cu.ft.  
6 cu.ft.  
10 cu.ft.  
12 cu.ft.

#### CAT NOS

LSI-FZ-03 E  
LSI-FZ-03 F  
LSI-FZ-03 G  
LSI-FZ-03 H

#### Chamber size(mm) Horizontal

375x500x605 mm  
505x410x830 mm  
570x550x875 mm  
650x580x900 mm

#### Capacity

4 cu.ft.  
6 cu.ft.  
10 cu.ft.  
12 cu.ft.



## Clinical Lab Instruments

### Low Temperature Freezer(2000-LSI-FZ-04)

Our Low Temperature Freezers are in conformity with all requirements of industry for economic way to create Temperature below freezing point to suit various standards application in the field of, science & research for storage & testing in biology, anatomy, chemistry & in many other fields, for industry & science.

Specifications : Tests & Applications:

- Behavior tests for material & equipments i.e., electric motors , gears, electrical & electronic parts, cables, plastic material, rubber, oil & grease etc. Shock tests for metals & other materials for the cold-shrinking of building elements, e.g. Shafts, Bolts, Gearwheels, Bearings etc. for the hardening of materials in order to achieve better toughness or hardness. (Ultra Deep Freezer)
- Temperature range: As low as -40 Degrees
- Digital display Electronic Temperature controller / P.I.D Controller.
- Temp. Sensor: PT 100 Sensor mounted inside the chamber suspended in air.
- Inner Chamber: Made of stainless steel 304 quality duly polished. The working chamber is completely free for use
- Outer Chamber: The outer housing is made of galvanized steel sheet powder coated or complete Stainless Steel.
- Cooling Coil: Cooling element is embedded from outer side of the working chamber.
- Condenser Coil: The Heat Exchanger coil is air-cooled condenser, arranged on right / bottom in Equipment.
- Refrigerant: CFC free refrigerant.
- Insulation: Polyurethane foam "PUF".
- Door: Double Door system with Inner Glass door to avoid temperature loss.
- Power Source: Electrical supply 220 volts single phase AC.
- Caster: Two fixed & two swiveling.
- (Optional) Alarm device: For protection of materials, which are sensitive to temperature changes.



**Low temperature Freezer**

#### CAT NOS

LSI-FZ-04 A  
LSI-FZ-04 B  
LSI-FZ-04 C  
LSI-FZ-04 D

#### Chamber size(mm)Vertical

375x500x605 mm  
505x410x830 mm  
570x550x875 mm  
650x580x900 mm

#### Capacity

4 cu.ft.  
6 cu.ft.  
10 cu.ft.  
12 cu.ft.

#### CAT NOS

LSI-FZ-04 E  
LSI-FZ-04 F  
LSI-FZ-04 G  
LSI-FZ-04 H

#### Chamber size(mm)Horizontal

375x500x605 mm  
505x410x830 mm  
570x550x875 mm  
650x580x900 mm

#### Capacity

4 cu.ft.  
6 cu.ft.  
10 cu.ft.  
12 cu.ft.





## Clinical Lab Instruments



**Ultra Low Temp. Freezer**

### Ultra Low Temp. Freezer (2000-LSI-FZ-05)

Ultra-Low temperature Freezer offers a economical solution to wide variety of research and storage applications such as low temperature scientific experiments, preservation of red blood cells, white blood cells, skin, bone, bacteria, semen, biomedical, product, ocean product, electronic devices and low temperature testing of special materials. It is suitable for blood banks, hospitals, sanitation and Anti-epidemic stations, electronic industries, university laboratories, military industries, pelagic fishery companies.

- Available in Upright models.
- Outer body is made of mild steel duly painted.
- Inside chamber is made of Stainless Steel. The advanced refrigeration system of two compressors. (Cascading Technique used)
- Extra thick insulation effectively reduces loss of cold air.
- Fitted with Microprocessor Based Digital Temperature Indicator-cum-Controller.
- Inside temperature ranging from -10°C ~ -86°C can be set freely.
- LCD temperature display.
- Adjustable shelves (for upright models) are convenient to place articles.
- Casters wheel mounted for easy mobility.
- Cooling coils are placed between foamed-in-place PUF insulation and inner side of stainless steel chamber eliminating any chances of FROST FORMATION on the evaporator which leads to choking of COMPRESSOR/CONDENSING UNIT.
- Useful for low temperature quick freezing and storing of Vaccines, Biological and medical specimens, Blood Components and general laboratory freezing applications.
- Evenly spread evaporator accounts for higher temperature uniformities throughout the cooling chamber
- ECO FRIENDLY COMPRESSOR with CFC-FREE refrigerant.
- Power supply : 220V/Hz, Single Phase

#### CAT NOS

LSI-FZ-05 A  
 LSI-FZ-05 B  
 LSI-FZ-05 C  
 LSI-FZ-05 D

#### Chamber size(mm)Vertical

375x500x605 mm  
 505x410x830 mm  
 570x550x875 mm  
 650x580x900 mm

#### Capacity

4 cu.ft.  
 6 cu.ft.  
 10 cu.ft.  
 12 cu.ft.

#### CAT NOS

LSI-FZ-05 E  
 LSI-FZ-05 F  
 LSI-FZ-05 G  
 LSI-FZ-05 H

#### Chamber size(mm)Horizontal

375x500x605 mm  
 505x410x830 mm  
 570x550x875 mm  
 650x580x900 mm

#### Capacity

4 cu.ft.  
 6 cu.ft.  
 10 cu.ft.  
 12 cu.ft.



**Deals in**

**Biological Models | Demonstrational Acrylic Models | Working Models | Soda Glassware  
| Borosilicate Glassware | Laboratory Plasticware | Porcelainware | Physics Lab  
Instruments | Chemistry & Biology Lab Instruments | Math Lab Instruments | Electronic  
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Lab Instruments | Oil & Petroleum Lab Instruments | Analysis & Diagnostic Lab  
Instruments | Microscopes**

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