

Luxlighting Technology Pvt. Ltd with an enduring set of corporate values based on research, innovation, strong leadership, integrity, social responsibility and above all sound delivery model, is presently leading manufacturing scientific and laboratory equipment indigenously and a leading manufacturers and suppliers of “Lux lighting” and “RTC” brand laboratory equipment and instruments various segments of the industry.

## COMPANY PROFILE

Established in 2003, we are one of the leading manufacturers and suppliers of “RTC” and “Lux Lighting” brand laboratory equipment and instruments, to various Universities, College, R & D labs, Institutes etc. Since 2003 we have been manufacturing scientific laboratory equipment indigenously which were being imported till then. It has always been our endeavour to have customer's convenience in mind which constantly compels us to modify and improve upon our products continuously so that they have better acceptance by the end user. Slowly and steadily we gained confidence of our customers to the extent that our product specifications are being adapted for laying down tender specifications for purchase of laboratory equipment by major universities, institutes, college etc.

A full-fledged dedication and consistent effort accompanied by the professionally managed team to establish RTC which with the passage of time made a mark in the scientific journey of his life and to top of all we worked passionately hard. A biomedical medical instrumentation professional from B.IT. Mesra, Ranchi, dreamt big and formed the RTC brand in instrument business to provide best in industries product, we emerged and how? Our strong foothold in scientific industry is due to the provision and efficiency that is achieved painstakingly at our extremely modern manufacturing unit.

## Recognition and Certification of company



## LLT-908 : VERTICAL SQUARE BODY DOUBLE WALLED AUTOCLAVE

- Inner chamber, outer chamber and support ring are fully made of stainless steel.
- Heaters cover stand and carrier/bucket are made of stainless steel.
- Lid made of thick machined stainless steel plate.
- Radial locking lid ensures user safety and safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double safety valve, manual exhaust valve, vacuum breaker as a safety device and water level indicator.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less silicon rubber gasket.
- All internal joints are argon arc welded, ground and polished to give crevice free internals.
- Miniature circuit breaker for mains on/off plus safety of control panel.
- Industrial grade energy efficient heaters reduce power bill drastically.

Model No.	10 x 18	12 x 20	14 x 22	16 x 24	18 x 24
Inner Dimension	250 x 450	300 x 500	350 x 550	400 x 600	450 x 600
Capacity	22 Litres	40 Litres	50 Litres	78 Litres	98 Litres
Heater Load	1.5 KW	2 KW	3 KW	4 KW	4 KW

### TECHNICAL SPECIFICATION

Sterilizing pressure=1.2kgf/cm<sup>2</sup> (15 psi) at 121°C  
 Operating pressure= from 15 psi to 22 psi (adjustable)  
 Power supply=220x230 AC, 50/60 Hz Pressure Vessel= SS 304 Grade Stainless Steel  
 External Wall=SS 304 Grade Stainless Steel  
 Top Lid=SS 304 Grade Stainless Steel  
 Basket= SS 304 Grade Stainless Steel

INCLUDING

1. Water Level Indicator.
2. Stainless Steel Basket.
3. Vacuum Breaker.
4. Automatic pressure control switch.
5. Automatic low water cut off switch.
6. Fully automatic PID purging system.



## LLT-907 HORIZONTAL RECTANGULAR HIGH PRESSURE AUTOCLAVE

- The inner/outer chamber, steam jacket and boiler are made of heavy gauge SS with leak proof argon arc welding.
- The space between the outer chamber and steam jacket is filled with glass wool to minimize thermal losses.
- Hydraulically tested to withstand 2.5 times the working pressure.
- Steam boiler is fitted with water level indicator, pressure gauge, low water cut off device and automatic pressure control devices. Fitted with safety valve as a safety device.
- Drain valve is fitted at the side bottom for easy draining/clearing.
- This affords a complete safety to the working personnel against explosive opening.
- Two separate valves are provided for evacuating steam from inner chamber and jacket as and when desired.
- Sterilization cycle is controlled by single point multiport valve.
- The chamber discharge line is fitted with a moisture trap to absorb the condensate automatically thus preventing moistening of the loaded material to be sterilized.
- An automatic vacuum breaker is fitted to all units as a standard accessory in order to break vacuum in case of steam condensation.
- The flanged immersion type heating element made from a very high grade material provide fast formation of pressure in the system and are protected through a electric low water level cut off device.
- All sterilizers are provided with triple safety features through a "Piezostate" (automatic pressure control system) and a spring loaded safety valve fitted to the boiler/steam generator.
- The chamber is fitted with spring loaded safety valve and a dead weight release valve.
- To work on 220/230 or 440 volts, 3 phase, 50 Hz AC supply.

Model No.	18 x 18 x 36	18 x 24 x 36	24 x 24 x 30	24 x 24 x 48
Inner Dimension	450 x 450 x 900	450 x 600 x 900	600 x 600 x 900	600 x 600 x 1200
Capacity	180 Litres	240 Litres	320 Litres	430 Litres
Heater Load	12 KW	12 KW	18 KW	18 KW

### TECHNICAL SPECIFICATION

Gasket: made of joint less silicon rubber.  
 Exhaust pressure: manual through the exhaust valve  
 Sterilizing pressure: 1.2 to 1.5 kgf/cm<sup>2</sup> (15 to 20 psi) at 121°C  
 Operating pressure: from 15 psi to 20 psi  
 Pressure gauge: 0.2.1 kgf/cm<sup>2</sup> (30 psi)  
 Tubular stand and supporting ring: made of mild steel or stainless steel  
 Pressure Vessel= SS 304 Grade Stainless Steel  
 External Wall=SS 304 Grade Stainless Steel  
 Top Lid=SS 304 Grade Stainless Steel  
 Basket= SS 304 Grade Stainless Steel

- INCLUDING**
1. Automatic pressure cut off switch
  2. Digital temperature indicator cum controller
  3. Vacuum breaker
  4. Water level indicator
  5. Automatic self locking system
  6. Automatic low water cut off switch
  7. Moisture trap



## LLT-906A HORIZONTAL CYLINDRICAL TRIPLE WALLED HIGH PRESSURE AUTOCLAVE WITH OUTER SQUA

- The inner/outer chamber, steam jacket and boiler are made of heavy gauge SS with leak proof argon arc welding.
- The space between the outer chamber and steam jacket is filled with glass wool to minimize thermal losses.
- Hydraulically tested to withstand 2.5 times the working pressure.
- Steam boiler is fitted with water level indicator, pressure gauge, low water cut off device and automatic pressure control devices. Fitted with safety valve as a safety device.
- Drain valve is fitted at the side bottom for easy draining/clearing.
- This affords a complete safety to the working personnel against explosive opening.
- Two separate valves are provided for evacuating steam from inner chamber and jacket as and when desired.
- Sterilization cycle is controlled by single point multiport valve.
- The chamber discharge line is fitted with a moisture trap to absorb the condensate automatically ng moistening of the loaded material to be sterilized.
- An automatic vacuum breaker is fitted to all units as a standard accessory in order to break vacuum in case of steam condensation.
- The flanged immersion type heating element made from a very high grade material provide fast formation of pressure in the system and are protected through a electric low water level cut off device.
- All sterilizers are provided with triple safety features through a "Piezostate" (automatic pressure control system) and a spring loaded safety valve fitted to the boiler/steam generator.
- The chamber is fitted with spring loaded safety valve and a dead weight release valve.
- To work on 220/230 or 440 volts, 3 phase, 50 Hz AC supply.

Model No.	16 x 24	16 x 36	16 x 48	20 x 36	20 x 48
Inner Dimension	400 x 600	400 x 900	400 x 1200	500 x 900	500 x 1200
Capacity	78 Litres	115 Litres	162 Litres	165 Litres	221 Litres
Heater Load	6 KW	6 KW	9 KW	9 KW	9 KW

### TECHNICAL SPECIFICATION

Gasket: made of joint less silicon rubber.  
 Exhaust pressure: manual through the exhaust valve  
 Sterilizing pressure: 1.2 to 1.5 kgf/cm<sup>2</sup> (15 to 20 psi) at 121°C  
 Operating pressure: from 15 psi to 20 psi  
 Pressure gauge: 0.2.1 kgf/cm<sup>2</sup> (30 psi)  
 Tubular stand and supporting ring: made of mild steel or stainless steel  
 Pressure Vessel= SS 304 Grade Stainless Steel  
 External Wall=SS 304 Grade Stainless Steel  
 Top Lid=SS 304 Grade Stainless Steel  
 Basket= SS 304 Grade Stainless Steel

INCLUDING

- Automatic pressure cut off switch
- Digital temperature indicator cum controller
- Vacuum breaker
- Water level indicator
- Automatic self locking system
- Automatic low water cut off switch
- Moi



## LLT-906 HORIZONTAL CYLINDRICAL TRIPLE WALLED HIGH PRESSURE AUTOCLAVE

- The inner/outer chamber, steam jacket and boiler are made of heavy gauge SS with leak proof argon arc welding.
- The space between the outer chamber and steam jacket is filled with glass wool to minimize thermal losses.
- Hydraulically tested to withstand 2.5 times the working pressure.
- Steam boiler is fitted with water level indicator, pressure gauge, low water cut off device and automatic pressure control devices. Fitted with safety valve as a safety device.
- Drain valve is fitted at the side bottom for easy draining/clearing.
- This affords a complete safety to the working personnel against explosive opening.
- Two separate valves are provided for evacuating steam from inner chamber and jacket as and when desired.
- Sterilization cycle is controlled by single point multiport valve.
- The chamber discharge line is fitted with a moisture trap to absorb the condensate automatically thus preventing moistening of the loaded material to be sterilized.
- An automatic vacuum breaker is fitted to all units as a standard accessory in order to break vacuum in case of steam condensation.
- The flanged immersion type heating element made from a very high grade material provide fast formation of pressure in the system and are protected through a electric low water level cut off device.
- All sterilizers are provided with triple safety features through a "Piezostate" (automatic pressure control system) and a spring loaded safety valve fitted to the boiler/steam generator.
- The chamber is fitted with spring loaded safety valve and a dead weight release valve.
- To work on 220/230 or 440 volts, 3 phase, 50 Hz AC supply.

Model No.	16 x 24	16 x 36	16 x 48	20 x 36	20 x 48
Inner Dimension	400 x 600	400 x 900	400 x 1200	500 x 900	500 x 1200
Capacity	78 Litres	115 Litres	162 Litres	165 Litres	221 Litres
Heater Load	6 KW	6 KW	9 KW	9 KW	9 KW

### TECHNICAL SPECIFICATION

Gasket: made of joint less silicon rubber.  
 Exhaust pressure: manual through the exhaust valve  
 Sterilizing pressure: 1.2 to 1.5 kgf/cm<sup>2</sup> (15 to 20 psi) at 121°C  
 Operating pressure: from 15 psi to 20 psi  
 Pressure gauge: 0.2.1 kgf/cm<sup>2</sup> (30 psi)  
 Tubular stand and supporting ring: made of mild steel or stainless steel  
 Pressure Vessel= SS 304 Grade Stainless Steel  
 External Wall=SS 304 Grade Stainless Steel  
 Top Lid=SS 304 Grade Stainless Steel  
 Basket= SS 304 Grade Stainless Steel

- INCLUDING**
1. Automatic pressure cut off switch
  2. Digital temperature indicator cum controller
  3. Vacuum breaker
  4. Water level indicator
  5. Automatic self locking system
  6. Automatic low water cut off switch
  7. Moisture trap
- OPTIONAL**
- A. Fully automatic PID purging system
  - B. Fully automatic system with HMI PLC based autoclave with data logger digital pressure indicator cum controller, digital te



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## LLT-905 VERTICAL DOUBLE WALLED WING NUT AUTOCLAVE

- Inner chamber, outer chamber and support ring are fully made of stainless steel.
- Heaters cover stand and carrier/bucket are made of stainless steel.
- Lid made of thick machined stainless steel plate.
- Brass knobs ensures user safety and safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double safety valve, manual exhaust valve, vacuum breaker as a safety device and water level indicator.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less silicon rubber gasket.
- All internal joints are argon arc welded, ground and polished to give crevice free internals.
- Miniature circuit breaker for mains on/off plus safety of control panel.
- Industrial grade energy efficient heaters reduce power bill drastically.

Model No.	10 x 18	12 x 20	14 x 22	16 x 24	18 x 24
Inner Dimension	250 x 450	300 x 500	350 x 550	400 x 600	450 x 600
Capacity	22 Litres	40 Litres	50 Litres	78 Litres	98 Litres
Heater Load	1.5 KW	2 KW	3 KW	4 KW	4 KW

### TECHNICAL SPECIFICATION

Sterilizing pressure=1.2kgf/cm<sup>2</sup> (15 psi) at 121°C  
 Operating pressure= from 15 psi to 22 psi (adjustable)  
 Power supply=220x230 AC, 50/60 Hz  
 Pressure Vessel= SS 304 Grade Stainless Steel  
 External Wall=SS 304 Grade Stainless Steel  
 Top Lid=SS 304 Grade Stainless Steel  
 Basket= SS 304 Grade Stainless Steel



Fully SS Wing Nut Model

- INCLUDING**
1. Water Level Indicator
  2. Stainless Steel Basket
  3. Vacuum Breaker

- OPTIONAL**
- A. Automatic pressure control switch.
  - B. Automatic low water cut off system.
  - C. Micropro

## LLT-904 VERTICAL TRIPLE WALLED HIGH PRESSURE WING NUT AUTOCLAVE

- Inner chamber, outer chamber and support ring are fully made of stainless steel.
- Heaters cover stand and carrier/bucket are made of stainless steel.
- Lid made of thick machined stainless steel plate.
- Brass knobs ensures user safety and safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double safety valve, manual exhaust valve, vacuum breaker as a safety device and water level indicator.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less silicon rubber gasket.
- All internal joints are argon arc welded, ground and polished to give crevice free internals.
- Miniature circuit breaker for mains on/off plus safety of control panel.
- Industrial grade energy efficient heaters reduce power bill drastically.

Model No.	10 x 18	12 x 20	14 x 22	16 x 24	18 x 24
Inner Dimension	250 x 450	300 x 500	350 x 550	400 x 600	450 x 600
Capacity	22 Litres	40 Litres	50 Litres	78 Litres	98 Litres
Heater Load	1.5 KW	2 KW	3 KW	4 KW	4 KW

### TECHNICAL SPECIFICATION

Sterilizing pressure=1.2kgf/cm<sup>2</sup> (15 psi) at 121°C  
 Operating pressure= from 15 psi to 22 psi (adjustable)  
 Power supply=220x230 AC, 50/60 Hz  
 Pressure Vessel= SS 304 Grade Stainless Steel  
 External Wall=SS 304 Grade Stainless Steel  
 Top Lid=SS 304 Grade Stainless Steel  
 Basket= SS 304 Grade Stainless Steel

- INCLUDING**
1. Water Level Indicator
  2. Stainless Steel Basket
  3. Vacuum Breaker

- OPTIONAL**
- A. Automatic pressure control switch.
  - B. Automatic low water cut off system.
  - C. Microprocessor based digital temperature indicator cum controller with set value and process value/digital timer.
  - D. Microprocessor based digital temperature indicator cum controller with set value and process value/ timer and purgin



Fully SS Wing Nut Model

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## LLT-903 VERTICAL TRIPLE WALLED HIGH PRESSURE RADIAL LOCKING AUTOCLAVE

- Inner chamber, outer chamber and support ring are fully made of stainless steel.
- Heaters cover stand and carrier/bucket are made of stainless steel.
- Lid made of thick machined stainless steel plate.
- Radial locking lid ensures user safety and safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double safety valve, manual exhaust valve, vacuum breaker as a safety device and water level indicator.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less silicon rubber gasket.
- All internal joints are argon arc welded, ground and polished to give crevice free internals.
- Miniature circuit breaker for mains on/off plus safety of control panel.
- Industrial grade energy efficient heaters reduce power bill drastically.



Fully SS Radial Locking (Delux Model)

Model No.	10 x 18	12 x 20	14 x 22	16 x 24	18 x 24
Inner Dimension	250 x 450	300 x 500	350 x 550	400 x 600	450 x 600
Capacity	22 Litres	40 Litres	50 Litres	78 Litres	98 Litres
Heater Load	1.5 KW	2 KW	3 KW	4 KW	4 KW

### TECHNICAL SPECIFICATION

Sterilizing pressure=1.2kgf/cm<sup>2</sup> (15 psi) at 121°C  
 Operating pressure= from 15 psi to 22 psi (adjustable)  
 Power supply=220x230V AC, 50/60 Hz  
 Pressure Vessel= SS 304 Grade Stainless Steel  
 External Wall=SS 304 Grade Stainless Steel  
 Top Lid=SS 304 Grade Stainless Steel  
 Basket= SS 304 Grade Stainless Steel

### INCLUDING

1. Water Level Indicator
2. Stainless Steel Basket
3. Vacuum Breaker

### OPTIONAL

- A. Automatic pressure control switch.
- B. Automatic low water cut off system.
- C. Micropro



SS Lining Radial Locking Model



## LLT-902 VERTICAL DOUBLE WALLED AUTOCLAVE

- Inner chamber, outer chamber & support ring are fully made of stainless steel.
- Heaters cover stand & carrier/bucket are made of stainless steel.
- Lid made of thick machined stainless steel plate.
- Radial locking lid ensures user safety & safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double safety valve, manual exhaust valve, vacuum breaker as a safety device & water level indicator.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less silicon rubber gasket.
- All internal joints are argon arc welded, ground & polished to give crevice free internals.
- Miniature circuit breaker for mains on/off plus safety of control panel.
- Industrial grade energy efficient heaters reduce power bills drastically.



Fully SS Radial Locking

Model No.	10 x 18	12 x 20	14 x 22	16 x 24	18 x 24
Inner Dimension	250 x 450	300 x 500	350 x 550	400 x 600	450 x 600
Capacity	22 Litres	40 Litres	50 Litres	78 Litres	98 Litres
Heater Load	1.5 KW	2 KW	3 KW	4 KW	4 KW

### TECHNICAL SPECIFICATION

Sterilizing Pressure=1.2kgf/cm<sup>2</sup> (15 psi) at 121°C  
 Operating Pressure= from 15 psi to 22 psi (adjustable)  
 Power Supply=220x230V AC, 50/60 Hz  
 Pressure Vessel= SS 304 Grade Stainless Steel  
 External Wall=SS 304 Grade Stainless Steel  
 Top Lid=SS 304 Grade Stainless Steel  
 Basket= SS 304 Grade Stainless Steel

INCLUDING

1. Water Level Indicator
2. Stainless Steel Basket
3. Vacuum Breaker

OPTIONAL

- A. Automatic pressure control switch.
- B. Automatic low water cut off system.
- C. Microprocessor based digital temperature indicator cum controller with set value and process valve/digital timer.
- D. Microp



SS Lining Radial Locking

## LLT-901 PORTABLE AUTOCLAVE

- All body made of Stainless Steel or Aluminum.
- Fitted with pressure gauge.
- The unit has spring loaded safety valve of pressure adjustment and a dead weight safety valve.
- It is hydraulically tested up to 30 PSI & is supplied with Electric fitting, Cord & Plug, supplied complete with Tripod Stand.
- To work on 220/330Volt AC Supply

Model No.	Stainless Steel	Aluminum Body	Capacity
901-A	300 x 300	300 x 300	20 Litres
901-B	300 x 375	300 x 375	25 Litres
901-C	300 x 450		30 Litres
901-D	300 x 500		40 Litres



## TAI-901A FULLY SS TABLE TOP DENTAL AUTOCLAVE

- All body made of stainless steel.
- The inner/outer chamber & boiler are made of heavy gauge S S with leak proof argon ARC welding.
- The space between the outer chamber is filled with wool to minimize thermal losses.
- Hydraulically tested to withstand 2.5 times the working pressure.
- Steam boiler is fitted with water level indicator, pressure gauge, low water cut off device.
- This afford complete safety to the working personnel against explosive opening.
- An automatic vacuum breaker is fitted to all units as a standard accessory in order to break vacuum in case of steam condensation.
- The flanged immersion type heating element made from very high grade material provides fast formation of pressure in the system & are protected through a electric low water cut off device.
- The chamber is fitted with spring loaded safety valve & a dead weight release valve.
- Sterilization temperature : 120°C, 135°C.
- Suitable to work on 230 volts, single phase and 50Hz AC supply.

Model No.	10 x 18	12 x 15	12 x 18
Inner Dimension	250 x 450	300 x 375	300 x 450
Capacity	22 Litres	25 Litres	30 Litres
Heater Load	3 KW	3 KW	3 KW



### TECHNICAL SPECIFICATION

Gasket: made of joint less silicon rubber.  
 Exhaust pressure: manual through the exhaust valve  
 Sterilizing pressure: 1.2 to 1.5 kgf/cm<sup>2</sup> (15 to 20 psi) at 121°C  
 Operating pressure: from 15 psi to 20 psi  
 Pressure gauge: 0.2.1 kgf/cm<sup>2</sup> (30 psi)  
 Tubular stand and supporting ring: made of mild steel or stainless steel

OPTIONAL

- A. Automatic pressure control switch.
- B. Automatic low water cut off system.
- C. Microprocessor based digital temperature indicator cum controller with set value and process vale/digital timer.
- D. Microp

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