

STEAM STERILIZER HORIZONTAL (RECTANGULAR)

Our Rectangular horizontal autoclaves are widely used in various bulk laboratories for their day to day studies on scale sterilization procedures where they give dryness of the sterilized medium a paramount importance and for that our sterilized media is prone to various micro-bacterial and viral infections. Having a specialization in customers' requirements we have an expert team of making both standard and customized models.

CONSTRUCTION

Robust and rugged all weld construction which is leak proof unlike riveted construction. Inner chamber is made of thick plate of Mild Steel of non magnetic stainless steel of 304/316 quality and jacket is made out of rolled steel. Sterilizers will have single door made out of rolled steel lined with S.S. sheet on both sides. All the sterilizers are hydraulically tested to withstand 2.5 times the working pressure. The steam jacket is lined on the outer side with asbestos sheet or glass wool which prevent heat losses due to radiation and is covered by strong rolled steel sheet .

BOILER

Made of thick stainless steel plate suitably located under the sterilizer. High grade flanged type heating elements are fitted from front side for easy replacement/repair. Fitted with water gauge glass for water level, safety valve, water inlet and drain valves. It is also provided with Low Water Level cut off device. This device protects the heater in the generator from burning out dry. The steam pressure in the boiler is indicated on a individual pressure gauge.

SAFETY LOCK FOR DOOR

Every horizontal rectangular sterilizer is fitted with SELF LOCKING SAFETY DOOR which cannot be opened when the chamber is under pressure and Redial locking. The clutch mechanism automatically disengages the threads of the **Pressure locking** system for precluding any eventuality of accident when the chamber is under pressure. A heat resistant Neoprene Rubber gasket ensure steam tight fitting.

PRESSURE CONTROL

Electrically operated "PIEZOSTAT" (Pressure Control Device) is incorporated in all electrically operated sterilizers. It economises power consumption and limits the use of release valve which would frequently blow steam into the room. It cuts off the power supply to heaters when the set pressure is achieved and re-energises heaters when pressure falls down.

STERILIZATION

Complete sterilizing cycle is controlled from one point with the help of "Multi port valve" fitted at front top. Two speeds of exhaust are available for evacuating.



THE CHAMBER

Two separate valves provided for evacuating air and steam from inner chamber and jacket as and when desired. A steam trap is fitted in the chamber discharge line to eliminate the condensate automatically.

SWITCH BOX

Houses the Pressure control switch, digital temperature indicator, Main switch, Pilot lamps, relays etc. and mounted on the stand of the sterilizer for easy operation.

OTHER FEATURES

- **TRIPLE SAFETY** : The sterilizer is provided with triple safety.
 - (a) By a pressure control switch which automatically limits the pressure to the required set valve.
 - (b) Two spring loaded safety valves one each at chamber and boiler level.
 - (c) A dead weight safety valve at chamber level.
- A **PLUG SCREEN** prevents the discharge line from choking. The plug is easily removable for routing cleaning.
- A powerful **Ejector** (for drying sterilized linen) circulates air through the chamber. The circulating air passes through a corrosion resistant metal wool filter.
- A **Dial thermometer** is provided to show the chamber temperature.
- **Programming** with PID 4 program keys, LCD/LED display, One Start/Stop key, Pt100 Wire Sensor Automatic Soak, Purge, Exhaust setting auto low water cut off high alarm set can be fitted.
- **AUTOMATIC VACUUM BREAKER** is provided to break vacuum case of vacuum formation due to steam condensation.

Operating Temperature and pressure :-

- Sterilizing Temp. : 121°C./134°C
- Sterilizing Pressure : 1.2 to 2.2 kg/Cm², (15 psi to 30 psi)

SPECIFICATION

Model	Inner dimension (inch)	Capacity (Litres)	Heater load	Sterilization temp & pressure	Operating pressure
APS -SSHR - 200	18" x 18" x 36"	200	12 kW	1.2 -2.2Kg/cm at 121 - 134°C	From 10 psi to 22 psi
APS - SSHR - 250	18" x 24" x 36"	250	12 kW		
APS- SSHR - 350	24" x 24" x 36"	350	15 kW		
APS- SSHR - 450	24" x 24" x 48"	450	18 kW		
APS- SSHR - 550	24" x 24" x 60"	550	22 kW		
APS- SSHR - 650	24" x 24" x 72"	650	30 kW		
APS- SSHR - 800	30" x 30" x 60"	800	36 kW		

Note: Customized Solution Available On Request

Optional:

- **PLC control system-** PLC control system ensures a complete automatic operations along with high efficiency and great reliability. The computerized logic control system ensures a 100% automatic operation throughout the sterilization cycle. The main parameters of the process such as temperature, pressure, time are controlled and displayed on LCD panel during entire cycle process. Keyboard / touch screen setup is provided to user to choose the desired program, initiate and terminate the cycle. Our PLC control system is extremely easy to use, user friendly and fully programmable. At extra cost.../-
- Programming with PID 4 program keys, LCD/LED display, One Start/Stop key, Pt100 Wire Sensor Automatic Soak, Purge, Exhaust setting auto low water cut off high alarm set can be fitted. At extra cost.../-
- Vacuum Pump water immersion typeextra/-
- S.S. Loading carriage (1 no.) & S.S. Transfer trolley (2 Nos).....10% extra
- For **Double Door** option20% extra