

STEAM STERILIZER HORIZONTAL CYLINDRICAL (121-134C)

Our horizontal Steam Sterilizer are widely used in various bulk laboratories/Hospital 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

Piping: Stainless steel 304/316 grade good quality seamless
Fittings: Stainless steel 316 grade with B.S.P thread
Stand: SS round pipe. Insulation: Rock wool slabs 50 mm thick
Gasket: Silicon joint less
Electrical load – 440 Volts, AC, 3 phase, Industrial water immersion type Heating elements, 6/9/12/18KW.

BOILER

Made of thick stainless steel 304/316 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 sterilizer is fitted with SELF LOCKING SAFETY DOOR which cannot be opened when the chamber is under pressure. 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 economizes 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-energies 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 electric solenoid-valves provided for evacuating air and steam from inner chamber and jacket as and when desired. A steam trap (Moisture trap) is fitted in the chamber discharge line to eliminate the condensate automatically.

SWITCH BOX (CONTROL PANEL)

Office:- C-9/124, First Floor, Opp. Fire Station & Metro Pillor No.386, Sector-8, Rohini, Delhi-110085
First Unit- O-32, DSIIDC Bawana industrial area, Sector-3, delhi-110039, Second Unit-Swaroop Nagar
Email id : aps.inst2010@gmail.com Web: www.steamsterilizer.net, www.labequipments.net

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 **Digital** is provided to show the chamber temperature.
- **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 : 1.2-2.2 , (17 psi to 32 psi)

SPECIFICATION

Model	Inner dimension (inch)	Capacity (Litres)	Heater load	Sterilization temp & pressure	Operating pressure
APS – SSHC – 80	16" x 24"	80	6 kW	1.2-2.2 Kg/cm ² (15-18psi) at 121-134°C	From 10 psi to 32 psi
APS – SSHC – 100	18" x 24"	100	6 kW		
APS – SSHC – 125	16" x 36"	125	9 kW		
APS – SSHC – 150	18" x 36"	150	12 kW		
APS – SSHC – 200	18" x 48"	200	12 kW		
APS – SSHC – 250	20" x 48"	250	12 kW		
APS – SSHC – 350	24" x 48"	350	18 kW		

Note: Customized Solution Available On Request

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Optional:

- 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. Rs. =extra/-
- **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. Rs. =Extra Cost/-
- Vacuum Pump water immersion typeextra cost
- S.S. Loading carriage (1 no.) & S.S. Transfer trolley (2 Nos).....20% extra
- For **Double Door** option25% extra