

Spire Automation & Innovation, India.

*Inspiring Generations...*

## **HORIZONTAL AUTOCLAVE (CYLINDRICAL)**

Our 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.



### ***SALIENT FEATURES***

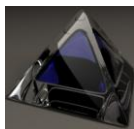
- Cylindrical design double walled horizontal autoclave mounted on a sturdy, heavy M.S. duly painted tubular stand
- Inner & outer chamber made of SS 304
- Ergonomic & Sturdy Design
- Steam is generated in a separate boiler which is placed below the main body.
- Industrial grade energy efficient heaters reduce power bills drastically
- Low Maintenance & long life
- Pressure is adjustable from 10-20psi.
- Fitted with pressure gauge, spring loaded safety valve and steam release valve.
- Automatic Vacuum Breaker is provided to break the vacuum in case of formation of vacuum due to steam condensation.
- Automatic Pressure Control Switch
- Automatic Low Water Level Cut-off Device fitted for general safety of the element.
- Dial type thermometer to indicate temperature & separate digital temperature indicator to display temperature
- Lid is made of S.S. plate provided with Pressure locking system which prevents opening of the door while Steam is inside the chamber.
- Small sized autoclave works on 230V 1 phase power supply and big size works efficiently on 440 V , 3 phase power supply
- Gasket made of joint less Silicon Rubber / Synthetic Neoprene
- Fitted with Plug screen to prevent line choking due to sediment discharge
- Supplied with one or two tray (as ordered and depending on size)
- Autoclave is fitted with easily replaceable heaters and water level indicator
- Chamber is made of 14 SWG
- Hydraulically tested at 40psi.

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## SPECIFICATION

Model	Inner dimension (inch)	Capacity (Litres)	Heater load	Sterilization temp & pressure	Operating pressure
SAII - HAC - 110	10" x 18"	22	1.5 kW	1.2 Kg/cm <sup>2</sup> (15-18psi) at 121°C	From 10 psi to 20 psi
SAII - HAC - 120	12" x 24"	50	3 kW		
SAII - HAC - 130	16" x 24"	75	4 kW		
SAII - HAC - 140	18" x 24"	98	4.5 kW		
SAII - HAC - 150	16" x 44"	138	5 kW		
SAII - HAC - 160	18" x 48"	200	6 kW		
SAII - HAC - 170	20" x 48"	235	7 kW		
SAII - HAC - 180	24" x 48"	348	8 kW		
SAII - HAC - 190	30" x 36"	410	10 kW		
SAII - HAC - 200	24" x 60"	450	12 kW		
SAII - HAC - 210	30" x 48"	555	14 kW		

### Optional:

- Semi Automatic Triple Walled Horizontal Autoclave consisting of steam outer jacket. Steam jacket allows dry sterilization. Manual Multiport valve is provided for Steam injection inside the chamber, dry sterilization & steam exhaust. When steam pressure inside jacket reaches 17 to 18 psi it automatically cuts off electric supply to heater. User has to manually turn on and off multiport valve for sterilization purpose.
- Fully Automatic Triple Walled Horizontal Autoclave consisting of steam outer jacket. Steam jacket allows dry sterilization. Automatic controller operates the electronic Solenoid valve which in turn operates multiport valve for Steam injection inside the chamber, dry sterilization & steam exhaust. Controller and solenoid valve performs purging automatically. When steam pressure inside jacket reaches 17 to 18 psi it automatically cuts off electric supply to heater.
- Digital timer can be fitted.
- Digital pressure gauge with electronic transducer
- Digital temperature indicator can be supplied in lieu of dial thermometer.
- Programmable 64 bit PLC controller with touch screen color display HMI. Models fitted with these controllers require no human intervention till a full sterilization cycle is complete.
- Upgradable up to 134°C and 30 psi sterilizing pressure

**Note: Customized Solution Available On Request**

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