



## HORIZONTAL AUTOCLAVE (RECTANGULAR)

### Standard Controls

- **Rectangular Autoclave Multiple Operating Valve** : To carry out all functions of sterilization cycle at one point i.e. steam to jacket, steam to chamber, fast/ slow exhaust and vacuum/ drying.
- **Chamber**: Inner Chamber S.S. 316 L & Door S.S. 316 L outer Chamber S.S. 304
- **Door**: Single door shall be fitted with radical shooting arm, provided with automatic pressure locking device so that the door can not be opened till chamber pressure is fully exhausted.
- **Quick Vacuum Drying Apparatus**: This allows the filtered and sterilized air to break the chamber vacuum & helps in quick-drying. Accidental Vacuum Breaker: A safety device so jacket against accidental vacuum in it and to remove residual air from it.
- **Safety Valve**: A safety device against excess pressure in jacket and steam generator.

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## Standard Controls

- **Plug Screen:** A device to prevent chamber, discharge line from lint / sediment. Chamber Condensate Line: Incorporated with spirax thermostatic steam traps and check valve for perfect condensation from chamber to achieve optimum temperature.
- **Pressure & Compound Gauge:** Indicates jacket and chamber pressure / vacuum resp.
- **Steam Generator (Boiler):** Shall be attached to underneath the jacket. It shall be fitted with -ISI marked water immersion type industrial heating elements A magnetic automatic water level float switch to protect heater from low water level Water inlet & outlet valves
- Water level indicating gauge glass with SS guard and with automatic water closing device in case of breakage of glass tube Automatic pressure stat switch to control the boiler/jacket pressure
- **Electrical Control Box:** Equipped with air break contractor of ' CUT. HAMM' make, toggle switch and two nos. indicating neon lamps.
- Automatic Pressure Control Switch (Pressure control switch - INDOFOSS PIEZOSTAT) -This semi-automatic device controls the pressure inside the chamber mechanically and cuts-off the current from the heating elements, when the desired/ set pressure value level is attained inside the chamber and restarts the mechanism once the pressure inside the chamber falls from the desired level.
- Automatic Water Cut-off Device - This device is a safety device which protects the heaters from running dry. This device ensures that the machine is automatically switched off in case the desired water level falls below the prescribed level.

**Working Pressure: 1.2 kgf/cm g for 15 Minute quick & perfect sterilization.**

**2.1 kgf/cm g for 07 Minute quick & perfect sterilization.**

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# PATEL

**SCIENTIFIC INSTRUMENTS PVT LTD**

**ISO 9001 : 2015 & CE CERTIFIED COMPANY**



**Working Temperature: 121 °C for 15 Minute quick & perfect sterilization. 134 °C for 07 Minute quick & perfect sterilization.**

**Hydro test Pressure: Jacket – 4.4kgf/ cm<sup>2</sup>g Chamber -- 3.3kgf/ cm<sup>2</sup>g Steam Exhaust from**

**Chamber: 1 minute only**

## **Micro Processor PLC System**

Micro Processor PID Controller with Timer & Auto Stop Facility & Digital Pressure Indicator & PC Inter Face or Printer Out Put.

Once the pressure level inside the chamber reaches the desired value, it regulates the sterilization time of the media to be sterilized and when the desired time is passed, it activates the buzzer, which indicates that the sterilization cycle is complete and media can be extracted.

<b>Size in mm (W x H x D)</b>	<b>Capacity</b>
450 X 450 X 900	180 Liters
450 X 450 X 1200	240 Liters
600 X 600 X 900	320 Liters
600 X 600 X 1200	430 Liters

**Optional: Microprocessor Digital PLC System with Colour Touch Screen HMI Extra of Cost**

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