

TekBIO Laboratory Autoclave

Our Laboratory Autoclave are designed and fabricated for steam sterilization process to Kill micro-organism through the application of saturated steam under pressure to suit various I. S. standards application in the growing field of Medical, Agricultural Institution, Bio-Chemical Industrial, Research laboratories and Various Industries.

1. TekBIO Vertical Autoclave



Technical Features:

- Temp Controller: Microprocessor based LCD temp. controller (GMP model optional)
- Pressure Controller: Mechanically operated pressure/steam release valve.
- Pressure Gauge: Analog Dial type Pressure Gauge
- Temperature Sensor: Standard coupling type PT 100 Sensor (GMP model)
- Heat Exchanger: The electrical heat exchanger transfer latent heat to the clean fill water to generated steam under pressure.
- Water Level Control: Low water level cut off electronic circuit protects the electrical heat exchanger from low water level inside the chamber, this cuts off the power supply to the heat exchanger.
- Steam Outlet: Steam generated from the unit is raised and exits through the electrically operated steam Purging solenoid valve from the outlet (GMP model)

2. TekBIO SS Cylindrical Autoclave



- SS Cylindrical Autoclave which is of high premium quality and can be availed by us only. Our cylindrical autoclave is incorporated with water level indicator, vacuum breaker, automatic pressure control switch, and steam trap. We are also well known cylindrical autoclave manufacturers in India.

Construction:

- The unit has an outer chamber, inner Chamber, Boiler, and Jacket – all made of 304-grade Stainless Steel. For controlling sterilization cycle, a three-way valve or a multiport valve - made of S.S. is provided. It is supplied complete with vacuum breaker, water level indicator, steam trap and automatic pressure control switch.

3. TekBIO High Pressure Rectangular Horizontal Autoclave



We are offering a wide range of High Pressure Rectangular Horizontal Autoclave. Which are designed and fabricated for steam sterilization process through the application of saturated steam under pressure to suit various standards of application in growing field of Medical, Agricultural Institution, Bio-Chemical Industrial, Research laboratories and Various Industries. These product are highly demanded and appreciated by our clients.

Details:

- **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
- **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
- **Electrical Control Box:** Equipped with air break contractor of " CUT. HAMM" make, toggle switch and two nos. indicating neon lamps
- **Dial Type Thermometer:** Indicates sterilization temperature
- **Plug Screen:** A device to prevent chamber, discharge line from lint / sediment
- **Chamber Condensate Line:** Incorporated with spiral thermostatic steam trap and check valve for perfect condensation from chamber to achieve optimum temperature
- **Pressure & Compound Gauge:** Indicates jacket and chamber pressure / vacuum rasp
- **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

Optional Accessories :

- Automatic Pressure Control Switch (Pressure control switch - INDFOSS 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.

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