



High Pressure Rectangular and Cylindrical Horizontal Steam Sterilizer Machine

Pro series Horizontal Front Loading Fully Automatic Triple-walled, cylinder-shaped sterilizing machines with touch screen and PLC controls for high-pressure, unattended sterilizing that come with documentation and certification.

Labtronix Inc is leading of [horizontal Rectangular autoclaves](#). Sterilization is a process of killing microorganisms with the help of a steam sterilizer at 121°C to 134°C & a steam pressure of 15 to 30 PSI as require. These **horizontal autoclaves** are front loading in design, we designed in cylindrical or rectangular shapes small and big size with both is size. These high pressure Horizontal autoclaves play important role in sterilization procedures required in hospitals, pharmaceutical companies, biotech industries, pharmaceutical industries, hospitals, research centers and food and beverage industries, biopharma and microbiology laboratories etc.



The Labtronix Inc horizontal steam sterilizer, certified by NABL, is specifically made for NABH hospitals that have 21 CFR microprocessor-based controllers. We cordially encourage

our clients to come watch how a high-speed, high-pressure autoclave is made in our production facility once. Labtronix Inc built all of their horizontal sterilizers with triple walls to allow for quick temperature recovery following a cycle.

USES:

LABTRO Sterilizers are suitable for Hospitals, clinics, Laboratory etc. They are designed for safe & efficient sterilization of various items such as wrapped or unwrapped goods, instruments & utensils etc.

One of the leading producers of horizontal autoclaves in India is Labtronix Inc. The company provides highly affordable custom-engineered equipment with a selection of practical accessories. The parts and components of a [horizontal autoclave](#) are joined and installed on a platform to form a full floor-mounted device. The sterilizing chamber, boiler, pipes and fittings, sensors, and control panel are all included.

Horizontal Steam Sterilizer Construction:

Our Steam Sterilizer gives accurate temperature and pressure inside the sterilization chamber needed for the sterilization process of surgical instruments, laboratory instruments & glassware. Boilers and chambers for high-pressure steam sterilizers, lid and jacket - all made of 304 heavy thick 304 / 316 grade stainless steel sheets. We offer the best price in India and the global market along with an extremely satisfactory performance with our HPHV autoclave. The sterilizer has triple walled (inner chamber & Jacket) type design, which allows preheating of chamber by jacket steam. The chamber is constructed of heavy-duty stainless steel 304/316.

Horizontal Autoclave Controlling device:

A three-way valve or a multiport valve constructed of stainless steel is utilized to efficiently manage the sterilization cycle. There is a 5 to 30 psi pressure variation within the chamber. The machine comes equipped with an automatic pressure control switch, steam trap, water level indicator, vacuum breaker, and vacuum breaker for entirely safe operation. The entire horizontal autoclave unit is supported by a sturdy tubular stand. This autoclave requires a three-phase, 440-volt power source to operate; single-phase operation can also be constructed upon request.

Temperature Controller – Horizontal Autoclave's Controller is microprocessor-based PID controller consisting of a temperature, timer with a buzzer alarm. The controller has a double LED display for set and process values with a time of 9999 minutes and HMI PLC with touch screen.

Pressure Controller – Provide a made-in DENMARK pressure controller for the advance safety of the user and autoclave. The pressure controller cuts off the electrical supply of heaters when it reaches to set value.

Features

- For important applications needing guaranteed and dependable complete eradication of all living microorganisms, horizontal triple walled autoclaves are best suited.
- All ideal tools for Laboratories, hospitals, nursing home, Dental R&D labs, etc.
- The inner chamber, steam jacket, outer chamber, and boiler are made of heavy gauge stainless steel 304 /316 grades with leak-proof argon arc welding.
- Lid is made of thick machined stainless steel
- The space between the outer chamber and steam jacket is filled with glass wool to minimize thermal losses.
- Hydraulically tested to withstand 2.5 times the working pressure.
- Standard features Steam boiler is fitted with water level indicator, pressure gauge, low water cut-off device, and automatic pressure control device.
- Fitted with safety valve as a safety device.
- Drain valve is fitted at the side bottom for easy draining and cleaning.
- The unit is provided with a positive self-locking safety door which cannot be opened while the chamber is under pressure and disengages automatically when the chamber is exhausted.
- This affords complete safety to the working personnel against the explosive opening.
- Two separate valves are provided for evacuating steam from inner chamber and jackets as and when desired.
- Sterilization Cycle is controlled by SINGLE POINT Multiport Valve.
- The chamber discharge line is fitted with a moisture trap to absorb the condensate automatically thus preventing moistening of the loaded material to be sterilized.
- An automatic vacuum breaker is fitted to all "**LABTRONIXED INC**" units as a standard accessory, in order to break vacuum in case of steam condensation.
- The flanged immersion-type heating element made from very high-grade material provides the fast formation of pressure in the system and is protected through an electric low water level cut-off device.
- All "**LABTRONIXED INC**" Sterilizers are provided with triple safety features, through a "PIEZOSTAT" (Automatic Pressure Control System) and a spring-loaded safety valve fitted to the boiler/steam generator. The chamber is fitted with spring-loaded safety valve and a dead weight release valve.
- To work on 440Volts, 3phase, 50Hz AC supply.

PLC / HMI (Automatic Operation of the Program)

The horizontal autoclave is made in a way that eliminates the need for human intervention.

There is no need for manual water replenishment because the water motor is integrated within

the machine. There's no need to choose the program every day because, once the parameters are selected, it will pick off where it left off. Without requiring human labor, machinery may finish the entire cycle from injecting water to drying the samples. The doors are prepared to open when the cycle is finished, and an alert will buzz to discharge the steam from the chamber.

- 7" Multi-color touch screen panel
- Touch Screen Panel
- Better User Experience
- Data Logging of Temperature and Time
- Real-Time Temperature and Pressure Graph
- Preset Programs
- USB Port
- Animation
- Real-Time Printing
- 5" Multi-color screen with touch pad (for HSG)
- Keypad control panel on second door of two door autoclaves with Bacsoft controller
- Stores the last 200 cycles in built-in memory (Bacsoft)
- Multiple access levels and user passwords to control access/ operation of the autoclave
- Diagnostic In/Out test (enables technician to check each system component separately)
- Sterilization Temperature range 105°C to 138°C

Multi-Port Valve - The multi-port valve controls steam purging, steam transfer from the jacket to the chamber, vacuum exhaust, the slow and fast exhaust.

Vacuum Breaker - The jacket and vacuum breakers protect the operator and the machine from shrinkage by creating a vacuum inside the chamber with condensed steam. Two vacuum breakers, one for the jacket and one for the sterilizing chamber, are installed on top. According to the BSP standard, SS 304/SS 316 is used for all pipe couplings.

Emergency On/Off - it releases all steam pressure from the chamber by opening all solenoid valves and manual valves in case of an emergency. It is one of the safety features of a Sterilizer.

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