

## AUTOMATIC HORIZONTAL RECTANGULAR AUTOCLAVE



Rectangular door Autoclave is ideal for Hospitals, Research Laboratory & Pharma & Food Industry. They are designed for safe & efficient sterilization of various items such as Ampules & Vials, Rubber goods, Empty flasks, instruments & , Fabrics wrapped or unwrapped etc. all types of bulk sterilization which are commonly needed in Medical College, Agricultural, Research Institute, Pharma & food Industry, CSSD & TSSU of multiple hospital.

### TECHNICAL SPECIFICATION:

- **Chamber Type:** Rectangular
- **Vacuum pump:** Watering type
- **Door option:** Hinge door / Horizontal Hinge/ Double / Single door
- **Water pump:** Automatic water Feeding , when needed in the inbuilt boiler
- **Working Temperature & Pressure:** 121C -134C & 1.2-2.2kg/cm2
- **Electrical Heater:** 415v/3ph / 50Hz
- **Power Supply:** 3 phase, 415V, AC 50Hz supply

### SAFETY FEATURES:

- Door inter locking facility.
- Low/High water level protection system.
- Automatic Pressure cut off facility.
- Power failure alar facility. Temperature over suit facility.
- When the chamber is under pressure door is not open.
- For double door type autoclave only one door can be open at same time.
- All other necessary safety features etc.

### OPERATING CYCLE:

121°C Sterilization Cycle 134°C Sterilization Cycle Wrapped & Unwrapped  
Instruments Cycle Porous & Nonporous load 134°C VLT Test Cycle  
Bowi-Dick Test Cycle



### OPERATING TEMPERATURE AND PRESSURE:

Sterilizing Temp. : 121°C. to 134°C.  
Sterilizing Pressure: 1.2 to 2.2 kg/Cm2, (15 psi to 30 psi)

### CONSTRUCTION:

The chamber is constructed of heavy-duty SS 316 and jacket constructed of SS 304 & Outer SS 304 1.2 mm to withstand. One Inner trolley is provided in the chamber with tray and two carriage trolley for easy loading & unloading for the material.

All piping & connected part are made of SS 304.

**BOILER:** The autoclave Boiler constructed with a heavy gauge SS 316 electrically operated. the thickness of a as per design. Sheet suitably located under the sterilizer. High-grade flanged type heating elements are fitted from the 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 a Low Water Level cut-off device. This device protects the heater in the steam generator from burning out. Dry. The steam pressure in the boiler is indicated on gauge.

### DOOR:

The Sterilizer is supplied with single door or double doors made of SS 316 The doors are having manual hinge type Arrangement. The doors will have unique arrangement to open them manually in case of power failure. The door Gasket Will be of Silicon food grade. Door thickness is 16 to 20mm SS316. The door movement through pneumatic cylinder.

### VACUUM SYSTEM :

This system is used for effective air removal from the Autoclave chamber. It consists of an efficient water-ring-type Vacuum pump as per machine design.

### ELECTRICAL CONTROL PANEL:

The electrical control unit is based on advance HMI With PLC controller technology. This unit control Different sterilization cycles With the help of in-built different program combinations. The control unit is provided With a manual operation facility and gives the status of live operation details.

To provide all electrical goods consumable items are branded & standard quality.

### ACCESSORIES: MATERIAL HANDLING:

Autoclave can be supplied with stainless steel removable shelves/trays or with a loading carriage & trolleys.

### CARRIAGE & TROLLEY:

The loading carriage is made of stainless steel 304. And it has adjustable shelves which can be positioned according to height of the Machine. It is designed to slide easily from chamber to trolley. The trolley is made of SS-304 and its base have four heavy duty castors

### VACUUM LEAK TEST FACILITY:

Leak test facility for check of high level vacuum automatic programmable cycle.

### DOCUMENTATION:

User manual in English, Warranty certificate and Hydraulic test certificate, IQ, OQ, DQ, PQ, Gauge calibration certificate, material test certificate

### OPTIONAL SPARE ACCESSORIES

- Pressure gauge/Compound gauge
- Water level glass Tube
- Temperature Gauge
- Non return valve
- Moisture trap
- Joint less Gasket: - Silicon food grade
- Heating elements (Flange Type) Rating 6.0kw, 9.0kw, 12.0kw.