



**CSSD**

# OUR VISION

We Helps the industries in controlling Infectionso that people can stay safe and healthy.

# OUR MISSION

Is to contribute to health care industries by devoting our outstanding talent continuos innovation and advance technology to create superior products and service in infection control field.



## Dry Heat Oven

Home (/home) Products (/product)

### Applications

- Empty glassware (e.g., Vials, Ampoules and bottles).
- Containers and metallic components.
- Thermos stable basic pharmaceutical Categorys and chemical compounds.
- Non-aqueous liquid material (e.g., Oils, glycerine, etc.)
- Metal trays



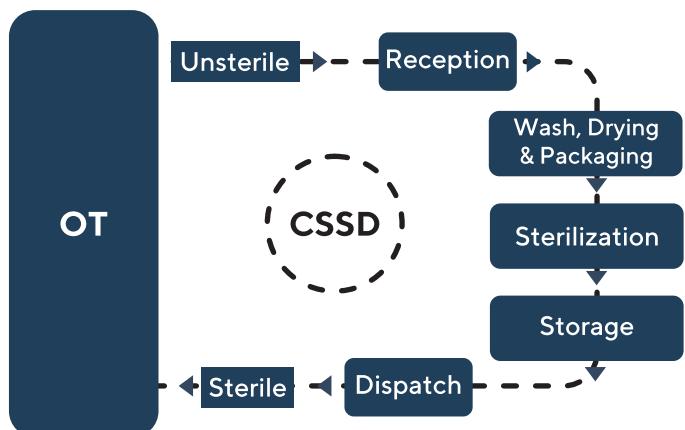
## Washer Disinfector

Home (/home) Products (/product)

Hospital infection control is a serious problem, which no Hospital Administrator can afford to ignore. Proper attention needs to be focused on the system of Cleaning, Disinfection, Packaging, Sterilization and Storage of different surgical appliances and instruments.



## ARCHITECTURAL ASSISTANCE



# Horizontal HPHV Fully Automatic Rectangular Steam Sterilizer

## Benefit of Automatic Autoclave

In an automated Autoclave, the microprocessor controls all the processes involved in sterilization. It is also provided with a vacuum pump.

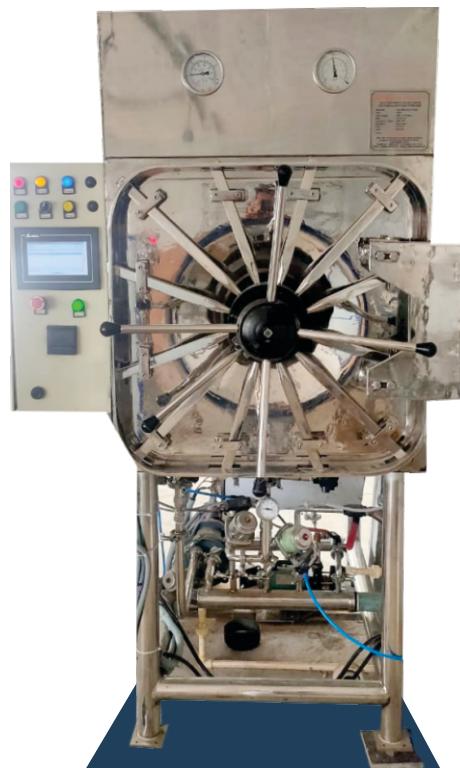
A Water ring vacuum pump is provided with all our Automatic Autoclave for following reasons

- 1.) Pre vacuum
- 2.) Post vacuum

## Advantages of PLC Automation

A Programmable Logic controller, PLC or Programmable Controller is a digital computer used for automation of electro- mechanical processes, such as control of machinery.

- 1.) Pre Programmed cycles
- 2.) Control
- 3.) Temperature
- 4.) Alarm
- 5.) Reports
- 6.) Print
- 7.) HMI
- 8.) Security



**HPHV RECTANGULAR  
AUTOCLAVE ON STAND**

## WORKING CONDITIONS & TEST PRESSURES

	CHAMBER	JACKET
WORKING PRESSURE	2.1 KG / CM <sup>2</sup>	2.2 KG / CM <sup>2</sup>
HYDRO TEST PRESSURE	7 KG / CM <sup>2</sup>	7 KG / CM <sup>2</sup>
DESIGN TEMPERATURE	134 DEG.C	134 DEG.C
VACUUM	N.A	FULL / 100%

Operating Temperature : 121°C/134°C

# Horizontal HPHV Fully Automatic Cylindrical Double Door Steam Sterilizer

## Benefit of Automatic Autoclave

In an automated Autoclave, the microprocessor controls all the processes involved in sterilization. It is also provided with a vacuum pump.

## Vacuum Pump

A Water ring vacuum pump is provided with all our Automatic Autoclave for following reasons

- 1.) Pre vacuum
- 2.) Post vacuum

## Advantages of PLC Automation

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Chamber	SS 316 L (4mm)
Jacket	SS 316 L(4mm)
Door	SS 316 L plates 14 mm
Hinge	SS 316L
Central Locking parts	CI Casting, Wrinkle- black painted
Shooting BoltsOuter Insulation	Tempered, Chrome coated
Operating Pressure	SS 304
Operating Temperature	2.5kg/cm <sup>2</sup>
Stand	121 / 134°C / Bowie - dick Cycle
Operation	SS pipe
Steam Generator	Auto/Manual
Heating	SS 304
Other accessories	2 Industrial immersion heaters of 9Kw each
Automation	Steam trap, pressure switch, float switch, Temp Sensor, Pressure Transmitter, Pressure Gauge, Temp Gauge, Non return valve, Y type solenoid valves, Vacuum Pump etc.
Hardware	PLC Make: Renu HMI Make: Renu / 7" Digital Display
Process Reports With Printer	Reports are generated by the software for each and every cycle in Detailed Report

# Fully Automatic Ethylene Oxide Sterilizer

## Advantages of PLC Automation

A Programmable Logic controller, PLC or Programmable Controller is a digital computer used for automation of electro - mechanical processes, such as control of machinery.

- 1.) Pre Programmed cycles
- 2.) Control
- 3.) Temperature
- 4.) Alarm
- 5.) Print
- 6.) HMI
- 7.) Security



Inner Seal (Chamber)	SS 316L
Chamber Operating Pressure	Negative pressure cycle
Chamber Testing pressure	1.5 Kg/cm <sup>2</sup>
Single Door	SS 304 L
Gasket	Silicon Gasket (10/12 mm solid section)
Outer cover	Factory Finished (Poly- coated) MS
Heating	Heaters on all sides of the Chamber for uniform heating throughout the load.
Temp Sensor	For accurate measuring and controlling of Temp. in the chamber
Operating Temp	Maximum: 65°C (chamber)
RH% Sensor	For measuring and controlling the humidity of the chamber
PressureTransmitter	For measuring and controlling the pressure-vacuum that the load is subjected to during removal and charging of Gas.
All fittings on the machine	SS 304
Safety Valves	SS 304
All Valves for Automation	Teflon construction Pneumatic valves, operated by Comp. Air supply through Solenoid valves.
Humidification	Special Humidifier for the purpose of humidification of the load and heating of the gas.
Vacuum	Special Noise-less Vacuum pump provided for vacuum and aeration of the load.
Automation Hardware	PLC Renu, Omron HMI Renu, Omron
Process Reports with thermal printer	Reports are generated by the software for each and every cycle in three formats, viz. (i) Graph Report (ii) Single page Summary report and (iii) Detailed Report.
Testing	Pressure / Vacuum testing as per specified standards. (1.5 times the working pressure)
Operation	All functions are electro-pneumatically operated. Door closing is manual
Loading Trolley	Fabricated with SS 304

# Horizontal HPHV Fully Automatic Rectangular Steam Sterilizer

## Benefit of Automatic Autoclave

In an automated Autoclave, the microprocessor controls all the processes involved in sterilization. It is also provided with a vacuum pump.

## Advantages of PLC Automation

A Programmable Logic controller, PLC or Programmable Controller is a digital computer used for automation of electro- mechanical processes, such as control of machinery.

- 1. ) Pre Programmed cycles
- 2. ) Control
- 3. ) Temperature
- 4. ) Alarm
- 5. ) Reports
- 6. ) Print
- 7. ) HMI
- 8. ) Security

**CHAMBER** : Fabricated from AISI 316L 6 mm thick with full argon/arc welding.

**JACKET** : The chamber is re - enforced with Stainless Steel jacket.

**DOORS** : AISI 316 Sliding Door

## Password safety

- 6 level password protection for preventing unauthorized access
- software ensures remote monitoring and control, and digital data storage
- In-built Real Time Clock with date and time function required for On-line printing.
- Power-failure logging.
- Alarms are generated and logged for incoming utilities and errors.
- Special Standard sterilization processes such as leak test, flash, bowie dick test
- Manual adjustment of process parameters (user programmable)
- Service menu (calibration, test function etc)
- Standard programming menu
  1. CHAMBER INTEGRITY TEST.
  2. OPEN LIQUID STERILIZATION.
  3. RUBBER COMPONENT STERILIZATION.
  4. Instrument STERILIZATION.
  5. GARMENT STERILIZATION.
  6. BOWIE & DICK TEST.

## ALARMS (Audio/Visual)

High temperature and pressure.

Sterilization timer stop in case of temperature drop.

Sterilization timer reset in case of temperature drop.

Too long time to create vacuum.

Too long time to heat up.

Vacuum pump trip.



RECTANGULAR  
AUTOCLAVE  
SLIDING DOOR

# Fully Automatic Ethylene Oxide Sterilizer

## Advantages of PLC Automation

A Programmable Logic controller, PLC or Programmable Controller is a digital computer used for automation of electro - mechanical processes, such as control of machinery.

1.) Pre Programmed cycles 2.) Control 3.) Temperature

4.) Alarm 6.) Print 7.) HMI 8.) Security

1.) Inner Seal (Chamber)	6.) Temperature Sensor
Inner Seal (Jacket)	7.) Operating Temperature
Hot Water Tank	8.) RH% Sensor
Steam. Generator Tank	9.) Pressure Transmitter
Gas Scrubber Tank	10.) All fittings on the machine
Chamber Operating Pressure	11.) Safety Valves
Chamber Testing pressure	12.) All Valves for Automation
Single Door	13.) Humidification
2.) Hinge	14.) Vacuum
3.) Outer Insulation	15.) Automation Hardware
4.) Gasket	16.) Process Reports
5.) Penal6 Heating	17.) Printer

**Now start cycle by pressing the 'START SWITCH 'step by step cycle run as per following procedure.**

- 1.) Heating Phase
- 2.) Vacuum Phase
- 3.) Vacuum Hold Phase
- 4.) RH% Injection Phase
- 5.) RH% Injection Dwell Time
- 6.) Gas Injection Phase
- 7.) Post Vacuum Hold Phase
- 8.) Aeration Phase

## Display

1. HMI For all machine status & manual operate
2. RH sensor for RH value



INDUSTRIAL  
ETO STERILIZER



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