



## VERTICAL AUTOCLAVE [VERTICAL PRESSURE STEAM STERILIZER]



PHARMA ENGINEERS Vertical Autoclave units are available with chamber volume 22 liters to 175 liters that accommodate two and three drums accordingly. These Systems are designed for meeting effective sterilization requirements in bacteriological and research laboratories, hospitals and clinics and food and beverages units. The Vertical Chamber design maximizes space utilization, while microprocessor control system enables comfortable working all the time you operate the machine.

Vertical autoclave also called vertical steam sterilizers; our vertical type autoclaves deliver flexible solutions of steam sterilization in hospitals, clinics and other areas of application, where reliable steam sterilization is a mandatory process. Vertically designed chamber provides guaranty of safe and efficient sterilization even in confined spaces. In order to suit specific application, there units are fabricated as fully GMP stainless steel double and Triple walled construction; in addition, we also manufacture vertical autoclaves with other configurations, which include stainless steel inner and exterior made of Mild Steel (MS).

### Product features:

- Indicator light indicates working state.
- Over Temperature and over Pressure auto-protection.
- Double scale Indication Pressure Gauge.
- Provided with immersion type heater.
- Water level Indicator and safe protection of water lacking.
- Automatically shut off with beep reminding after sterilization.
- Fully Stainless Steel 316/316L or 304 structure.
- Radial and wing nut type door Locking.
- Equipped with Silicon rubber Gasket.
- Double, triple wall & GMP construction.
- Easy to Operate, safe and reliable.
- With two stainless steel sterilizing Baskets.

## VERTICAL AUTOCLAVE

### Product Technical Specification:

MODEL	PE-22VA	PE-40VA	PE-50VA	PE-95VA	PE-175VA
Internal Tank Capacity	22 Liter	40 Liter	50 Liter	95 Liter	175 Liter
Load	2.00 KW	3.00 KW	3.00 KW	4.00 KW	6.00 KW
Chamber Dimension	10" x 18"	12" x 22"	14" x 22"	18" x 24"	22" x 36"
No. of Drum Sizes	-	02	02	02	03
Working Pressure	1.2 kgf/cm sq.g (15 psi – 17 psi)				
Sterilizing Temperature	121 degree				
Heat Average	≤±1°C				
Sterilization Time	25 to 30 Minutes				
Digital Timer	0 to 99 min				
Construction	Double / Triple wall & SS GMP construction				
Outer Chamber	Mild Steel , SS 304				
Inner Chamber	SS 316 or SS 304				
Insulation	Rockwool 50mm				
Waste Container	SS 316 or SS 304				
Door / Lid	Foot Lifted with safety and interlock Device				
Door locking Type	Radial Locking, Safety valve, low water detector and pressure interlock				
Power Supply	AC 220 Volts, 50 Hz				
Optional accessories	<ul style="list-style-type: none"> <li>- PID controller</li> <li>- Low/ High water cut-off device</li> <li>- Digital Alarm</li> <li>- Temperature chart recorder</li> <li>- Dot Matrix Printer</li> <li>- RS 232 / USB PC Connection Port</li> <li>- NABL Certification</li> <li>- Stainless Steel wire mesh carrier</li> <li>- PLC control System</li> <li>- IQ/OQ Documentation</li> </ul>				

Product By:

**PHARMA ENGINEERS**  
 I1/403, ASHRAY 9, NEAR KHODIYAR TEMPLE  
 GST COMPOUND, NEW RANIP,  
 AHMEDABD – 382480  
 Email: [ctnpanchal@yahoo.co.in](mailto:ctnpanchal@yahoo.co.in)

### *Other Products and Services.*

Product Name	Description
Multi Effect Distillation Plant	80 Ltr/hr to 1500Ltr/hr Fully Automatic
Pure Steam Generator	100 Kg/hr to 1500 Kg/hr Fully Automatic
Glove Integrity Tester	With PLC and Print Backup
Scada Application	Siemens PLC setup with IPC.
SS Tanks	SS316L Tanks with jacket
Steam Sterilizer	Sliding double door vertical or horizontal. With Scada or without Scada. PLC upgradation work, Chamber Assembly Replacement etc.
	All Type of customize fabrication.

#### 1. MEDP:-



## 2. PSG:-



## 3. Glove Integrity Tester:-



**4. Bung Sterilizer Chamber Assembly:-**



**5. Bung Sterilizer Drum Assembly.**



6. Manufacturing Drum:-



Sterilizer





**7. Vertical Autoclave:-**



## Machining Groove for better Gasket Life.

