

## VERTICAL HIGH PRESSURE AUTOCLAVE



### APPLICATIONS

#### 1. Microbiology & Biotechnology Lab:

- Sterilization of culture media, glassware, instruments, and biological waste.

#### 2. Pharmaceutical Industry:

- Sterilizing pharmaceutical preparations, equipment, and packaging materials under high pressure and temperature.

#### 3. Hospitals & Medical Centers:

Sterilizing surgical instruments, dressings, and laboratory disposables.

### KEY FEATURES

#### Triple Walled Construction:

- Inner chamber, outer chamber, and steam jacket made of high-grade stainless steel (SS 304/316) for superior durability and efficient heat retention.
- Steam jacket ensures uniform temperature distribution and minimizes heat loss.

#### High Pressure Operation:

- Designed to operate under high pressure (15–20 psi or higher) ensuring rapid sterilization of media, instruments, and glassware.

#### Lid with Radial Locking System:

- Equipped with safety lid locking device to prevent accidental opening under pressure.
- Heavy-duty silicon gasket ensures leak-proof sealing.

#### Efficient Heating System:

- Fitted with high-quality immersion heaters or steam generator for quick heating.
- Low water cut-off system for protection of heating elements.

#### Temperature Range:

- Operates typically from 121°C to 125°C with uniform temperature distribution. In some models temperature will be 134°C

#### Safety Features:

- Includes pressure release valve, over-temperature protection, and automatic power cut off for enhanced operator safety

#### Control Panel:

- Mounted with indicators for power, heating, and sterilization cycles.
- Microprocessor or PID controller based system for automation.

#### Validation Port & Accessories:

- Provision for validation port for calibration and monitoring.
- Supplied with stainless steel perforated basket or trays.

## TECHNICAL MATRIX

MODEL NO.	223-VPA	223-VPB	223-VPC	223-VPD	223-VPE	223-VPF	223-VPG
Inner Dimensions (Dia x Height) in mm	300x550	350x550	400x600	450x600	450X750	450x750	550X750
Inches Conversion	12" X 22"	14" X 22"	16" X 24"	18" X 24"	16"X30"	18"X30"	22" X 30"
Capacity	40 Litres	50 Litres	78 Litres	98 Litres	120 Litres	150 Litres	180 Litres
Working Load	4.0 KW	4.0 KW	5.0 KW	6.0 KW	6.0 KW	6.0 KW	9.0 KW
Gasket	Made of silicon rubber						
Sterilizing pressure	1.2 kgf / cm (15psi)at 121°C						
Pressure Gauge	0-2.1 kgf / cm <sup>2</sup> (30 psi)						
Operating pressure	From 15 to 20psi (Adjustable)						
Steam Jacket	Stainless Steel (SS-304) argon welded						
Top Lid	Made of Stainless Steel						
Lid Tightening	Radial Locking system worked by handle ( Wing nut is Also Available)						
Lid Opening	Paddle lifting device						
Water Level Indicator	Fitted on the outer chamber						
Boiler-Hydraulically Tested	Up to +40 psi						
Controller	Microprocessor Based PID Indicator cum controller with Digital Timer						
Accuracy	+/- 1°C						
Safety Device	Spring Loaded Type						
Water Draining System	Hand Operated Valve						
Heating	BY ISI Marked Immersion Heaters						
Steam & Vacuum Release	By Valve						
Power	220 Volts AC supply for higher rating model it will be 440 Volts 3 Phase Supply						

## OPTIONAL ADD ONS

- Automatic pressure cut off device/ Low Water Cut Off Device / Solenoid Valve For Purging
- Validation port / Dressing drums / sterilization Indicator Tape
- HMI based PLC touch screen Feature with 21 CFR based
- RS 232port / USB port , Printer Attachment
- All type of customization is available