

VERTICAL DOUBLE WALLED AUTOCLAVE



APPLICATIONS

Laboratory Sterilization:

Used for sterilizing glassware, test tubes, flasks, pipettes, and culture media in research and educational laboratories.

Microbiology & Biotechnology:

Sterilizes culture media, growth plates, and biological waste to maintain aseptic conditions.

Pharmaceutical Industry:

Ensures aseptic processing by sterilizing

Food & Beverage Industry:

Used for sterilizing processing equipment and containers to ensure hygiene and quality control.

KEY FEATURES

Double Walled Construction:

Made of high-grade stainless steel (SS 304/316) with inner and outer chambers for efficient heat retention and durability.

Foot Pedal/Lid and Locking Mechanism:

Heavy-duty lid with radial locking system ensures airtight sealing and safe operation.

Safety & Auxiliary Components:

- Pressure gauge, steam release valve, spring-loaded safety valve, manual exhaust/steam release cock.
- Vacuum breaker to prevent vacuum or negative pressure when cooling.
- Water level indicator, drain valve to clean chamber.
- Low-water cut-off device to protect heating elements when water is insufficient.

Automatic Pressure Cut-off:

Built-in auto cut-off system for maintaining consistent temperature and avoiding overheating.

Gasket and Joint Sealing:

High-quality silicone rubber gasket ensures leak-proof performance.

Pressure/Temperature & Sterilization Characteristics

- Working pressure: Operates ~15-22 psi for standard sterilizing at ~121 °C. Some models go higher (up to ~30 psi or more) for higher temperature sterilization e.g., 134 °C
- Working temperature: 121 °C is standard for many loads; some models accept up to 134°C

Control & Instrumentation

- It Includes digital temperature/pressure controllers, timer, automatic purge, digital read-outs, etc.

TECHNICAL MATRIX

MODEL NO.	VA-222A	VA-222 B	VA-222C	VA-222D	VA-222E	VA-222F	VA-222G
Inner Dimensions mm (Dia x Height)	250X450	300X500	350X550	400X600	450X600	500X750	550X750
Inches Conversion	10" X 18"	12" X 20"	14" X 22"	16" X 24"	18"X24"	20"X30"	22" X 30"
Capacity	22 Litres	40 Litres	50 Litres	78 Litres	98 Litres	150 Litres	180 Litres
Working Load	2.0 KW	2.0 KW	3.0 KW	4.0 KW	4.0 KW	6.0 KW	6.0 KW
Gasket	Made of silicon rubber						
Sterilizing pressure	1.2 kgf / cm (15psi)at 121°C						
Pressure Gauge	0-2.1 kgf / cm ² (30 psi)						
Operating pressure	From 15 to 20psi (Adjustable)						
Inner Pressure Tank	Stainless Steel (SS-304) argon welded						
Top Lid	Mild Steel Plate lined with Stainless Steel from inside						
Basket	Made of Stainless Steel						
Lid Tightening	Radial Locking system worked by Handle (wing nut system also)						
Lid Opening	Paddle lifting device						
Water level Indicator	Fitted on the outer chamber						
Boiled-Hydraulically Tested	Upto +40 psi						
Accuracy	+3psi						
Safety Device	Spring Loaded Type						
Water Draining System	Hand Operated Valve						
Supply	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