

# VERTICAL AUTOCLAVE

## ALS-INS049



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## DESCRIPTION

The VERTICAL AUTOCLAVE ALS-INS049 is a top-loading sterilizer commonly used in hospitals, operating theatres (OT), and microbiology laboratories for sterilizing medical instruments and cultures. These autoclaves are specifically designed for healthcare professionals, laboratories, nursing homes, and hospitals. They provide rapid and efficient sterilization, ensuring high levels of hygiene and safety, making them essential for maintaining clinical and medical standards.

## KEY FEATURES

- Stainless Steel Interior:** The interior of the autoclave is made from SS 304 stainless steel, ensuring durability and resistance to corrosion.
- Digital Temperature Indicator & Controller:** The unit is equipped with digital temperature control, allowing precise temperature regulation during sterilization.
- ISI Marked Flange / Immersion Heating Elements:** Reliable heating elements ensure consistent and efficient sterilization.
- Temperature Range Up to 121°C:** Ideal for medical and laboratory sterilization needs, with the option to increase up to 134°C in certain models.
- Silicone Rubber Gasket:** Provides a tight and secure seal, ensuring reliable pressure and temperature control during the sterilization cycle.
- Automatic Pressure Control:** Maintains working pressure between 15-30 psi, ensuring safe and effective sterilization.
- Stainless Steel Basket:** Each unit comes with a stainless-steel basket for the safe handling of sterilized items.
- Pedal for Lid Opening:** The foot-operated pedal makes lid opening easier and more ergonomic for users.
- Water Level Indicator:** Provides a clear view of the water level to ensure safe operation.

## CONSTRUCTION OPTIONS

- Economy Model:** Exterior made of painted MS sheet with a two-walled design.
- Double-Walled Model:** Both inner and exterior chambers made of SS 304, offering enhanced durability and safety.
- Triple-Walled Model:** Three-layered construction with thick SS 304 sheets for superior insulation and temperature stability.

## TECHNICAL SPECIFICATIONS

Construction	Economy Model	Double Walled Model	Triple Walled Model
<b>MOC Exterior</b>	Painted MS sheet	SS 304 (mirror finish)	SS 304 (mirror finish)
<b>No. of walls</b>	Two	Two	Three
<b>Lid</b>	Polished MS	SS 304	SS 304
<b>Interior</b>	SS 304 with silicon gasket		
<b>Working Pressure</b>	15-30 psi		
<b>Working Temp.</b>	121°C to 134°C		
<b>Controller</b>	Auto set to 15 psi & 121°C		
<b>Pressure display</b>	Analogue dial gauge		
<b>Timer</b>	Mechanical timer		
<b>Programmable</b>	Programmable automatic start timer		
<b>Hydraulic tested</b>	Hydraulically Tested up to 30 psi (ASME Guideline)		
<b>Lid lock</b>	Single hand easy lock system for operating and closing.		
<b>Sterilization Cycle Program</b>	Program for heating sterilization, exhaust, warming and completion.		
<b>Volume</b>	50 Liters (350 mm X 550 mm)		
<b>Basket</b>	Stainless steel basket	Stainless steel basket	Not Required
<b>Power supply</b>	220 Volts 50 Hz		
<b>Standard Fittings</b>	Low water indicator; Automatic pressure switch; Pedal lifting device Steam release valve; Water outlet valve; Spring loaded safety valve Power cable with three pin tops		
<b>Optional Accessories</b>	Fully stainless-steel construction (GMP) Up to 134°C temperature range PID temperature controller cum timer with alarm (buzzer) PLC with HMI interface with data logging 21 CFR Part 11 software Thermal Printer Lower water cut-off		