Autoclave Horizontal High Pressure (Cylindrical)

Code: AL-543 GST: 18% Brand: AVAIN LABS







AVAIN LABS® Autoclave Horizontal High Pressure (Cylindrical)

The AVAIN LABS® Horizontal High Pressure Autoclave (Cylindrical) is a robust and efficient steam sterilization system designed for the sterilization of laboratory instruments, glassware, culture media, surgical equipment, pharmaceutical materials, and other heat-resistant products. Built with a triple-walled stainless steel construction, this autoclave ensures superior durability, excellent heat retention, and safe high-pressure operation for demanding sterilization applications.

Engineered for reliable performance, the unit is hydraulically tested up to 40 PSI and equipped with advanced safety and control features including a digital temperature controller, timer, automatic pressure switch, safety valve, steam release valve, and automatic low-water cut-off device. The separate stainless steel boiler ensures efficient steam generation, while the vacuum breaker system enables controlled steam injection and exhaust for effective sterilization cycles.

Mounted on a heavy-duty balanced frame, the autoclave provides stable operation and long service life, making it ideal for hospitals, research laboratories, pharmaceutical industries, biotechnology facilities, educational institutions, and industrial sterilization applications.

Key Features

- Heavy-duty Horizontal Cylindrical High Pressure Autoclave
- Triple-walled construction for enhanced safety and thermal efficiency
- Inner and outer chambers constructed from high-quality stainless steel
- Hydraulically tested up to 40 PSI
- Adjustable operating pressure from 10–20 PSI
- Sterilization temperature up to 121°C
- Sterilization pressure range 17–22 PSI
- Digital temperature controller for precise temperature regulation
- Integrated digital timer for automated sterilization cycles
- Automatic pressure switch for safe operation
- Safety valve and steam release valve for pressure control
- Separate stainless steel boiler for efficient steam generation
- Vacuum breaker valve for controlled steam injection and exhaust
- Automatic low-water cut-off protection system
- Supplied with durable neoprene rubber gasket
- Mounted on a heavy-duty balanced support frame
- Designed for continuous and reliable operation

Applications

- Hospital and medical sterilization
- Pharmaceutical manufacturing facilities
- Microbiology and pathology laboratories
- Biotechnology and life science research
- Research and development laboratories
- Educational institutions and universities
- Food processing and quality control laboratories
- Industrial sterilization applications
- Culture media and glassware sterilization

Technical Specifications

Why Choose AVAIN LABS® Horizontal High Pressure Autoclave?

The AVAIN LABS® Horizontal High Pressure Autoclave combines advanced sterilization performance, superior safety systems, and rugged stainless steel construction to deliver dependable results in critical sterilization environments. Its automated controls, precise temperature management, and high-pressure steam sterilization capabilities make it an ideal choice for laboratories, healthcare facilities, and industrial users seeking efficient and reliable sterilization solutions.

Specifications

Product Type	Horizontal High Pressure Autoclave (Cylindrical)
Construction	Triple-Walled Stainless Steel
Hydraulic Test Pressure	Up to 40 PSI
Operating Pressure	Adjustable 10–20 PSI
Sterilization Pressure	17–22 PSI
Sterilization Temperature	121°C
Boiler	Separate Stainless Steel Boiler
Temperature Control	Digital Temperature Controller
Timer	Digital Timer
Safety Features	Safety Valve, Pressure Switch, Steam Release Valve
Water Protection	Automatic Low Water Cut-Off Device
Gasket Material	Neoprene Rubber
Steam Control	Vacuum Breaker & Steam Injection Valve
Power Supply	440V AC, 3-Phase
Mounting	Heavy Duty Balanced Frame

Available models (8)

Cat. No.	Chamber Size Inner Dia x Depth	Heater	Capacity Litres	HSN
AL-543A	16 inch x 24 inch	6 kw	80	
AL-543B	18 inch x 24 inch	6 kw	100	
AL-543C	16 inch x 36 inch	9 kw	125	
AL-543D	22 inch x 30 inch	12 kw	185	
AL-543E	20 inch x 36 inch	12 kw	200	
AL-543F	20 inch x 48 inch	12 kw	250	
AL-543G	24 inch x 48 inch	14 kw	350	
AL-543H	26 inch x 60 inch	16kw	450	
Optional AH1	HMI (Touch screen controller with Desirable programming and Real Time Data monitoring			

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