



## KLABS HORIZONTAL RECTANGULAR AUTOCLAVE



### PRODUCT DESCRIPTION

- KLABS Horizontal Rectangular High-Pressure Autoclave is a fully automatic sterilization system designed for hospitals, pharmaceutical industries, microbiology laboratories, research institutes, CSSD departments, biotechnology laboratories, and industrial sterilization applications.
- The autoclave is manufactured with high-quality SS304 stainless steel construction for superior corrosion resistance, durability, hygienic operation, and long service life. The system is designed for efficient sterilization of instruments, glassware, garments, culture media, laboratory equipment, and industrial materials under high-pressure saturated steam conditions.
- The unit is equipped with an advanced PLC-based fully automatic control system that enables automatic sterilization cycle operation with user-friendly programmable settings. The system ensures safe, accurate, and reliable sterilization performance with minimum operator intervention.
- The chamber is designed with a heavy-duty radial locking mechanism and precision-engineered door system for leak-proof operation and enhanced operational safety. The integrated steam jacket and boiler arrangement ensures uniform heat distribution and rapid sterilization performance.
- The autoclave includes automatic temperature and pressure monitoring systems with digital display and intelligent safety interlocks for secure operation.

### FEATURES

- Fully Automatic PLC Control System
- Heavy Duty SS304 Construction
- High Pressure Steam Sterilization
- Single Door / Double Door Models
- Automatic Self-Locking System
- Digital Temperature Controller with Timer
- Vacuum Pump Provision
- Jumbo LCD Display
- Automatic Pressure Cut-Off System
- Automatic Low Water Cut-Off Protection
- User Settable Sterilization Cycles
- HEPA Filter Inlet Provision
- Moisture Trap System
- Multiport Valve Arrangement
- Safety Valve Protection
- High Efficiency Steam Jacket System

### PLC CONTROL SYSTEM FEATURES

- Water level indicator
- Vacuum breaker
- Automatic pressure cut-off switch
- Automatic low water cut-off switch
- Digital temperature indicator cum controller with timer
- Moisture trap
- Automatic self-locking system
- Multiport valve
- User settable sterilization cycle process



**KHRA-1008**

## Technical Specifications

Parameter	Specification
Model	KLABS 1008
Type	Horizontal Rectangular High-Pressure Autoclave
Chamber Size	30" x 30" x 60"
Chamber Size (MM)	750 x 750 x 1500 MM
Capacity	840 Liters
Load	36 KW
Construction	Fully SS
Door Type	Single Door / Double Door
Inner Chamber	SS 304
Outer Chamber	SS 304
Jacket, Ring & Boiler	SS 304
Chamber Thickness	3 mm
Jacket Thickness	6 mm
Lid Thickness	12 mm
Operating Pressure	15–17 PSI
Hydro Test Pressure	40 PSI
Working Temperature	121°C
Gasket Material	Silicon
Display	Jumbo LCD 20 x 4
Vacuum System	Vacuum Pump Supported

### SAFETY FEATURES

- Safety valve against excess pressure
- Automatic pressure control system
- Low water protection
- Heavy-duty radial locking door
- Steam trap & condensate management system
- Electrical safety protection system

### ELECTRICAL CONTROL SYSTEM

- Air brake contactor
- Toggle switch
- Indicator lamps
- Temperature indicator
- Pressure control switch
- Low water indicator system

### OPTIONAL / ADVANCED FEATURES

- PT-100 Sensors for Boiler & Chamber
- Pressure Sensor for Chamber
- User Settable Purging Range
- User Settable Sterilization Time
- User Settable Post Sterilization Drying Time
- HEPA Filter Inlet Provision
- Boiler Control Adjustment

### APPLICATIONS

- Hospitals & CSSD
- Pharmaceutical Industries
- Research Laboratories
- Microbiology Laboratories
- Biotechnology Laboratories
- Medical Colleges
- Food Processing Industries
- Industrial Sterilization Applications
- Glassware Sterilization
- Surgical Instrument Sterilization