TORONTECH

INDUSTRIAL HORIZONTAL AUTOCLAVE

Industrial Horizontal Autoclave - ToronClave™ HI Series

Autoclave performance matters when you need reliable steam sterilization for large daily loads in laboratories, hospitals, and institutional facilities. ToronClave™ HI Series is a Industrial Horizontal Autoclave Machine platform designed for pressure-saturated steam sterilization.

This series is built for users who need more chamber capacity, flexible steam-source options, and a robust horizontal structure for higher-throughput sterilization work. The ToronClave™ HI has a range extending from 0.25 m^3 up to 5.0 m^3, with optional own or external steam supply depending on model configuration.

ToronClave™ HI Series is a floor-standing horizontal steam sterilizer designed for moist-heat sterilization of larger batches and bulkier loads. It uses saturated steam under pressure to sterilize reusable items quickly and reliably, while the horizontal chamber layout helps support larger-capacity processing than compact vertical units.

The ToronClave™ HI series uses microcomputer-based automatic control, a color touch screen, multi-channel steam intake, and a four-sided V-shaped cavity base for drainage.

APPLICATIONS

Industrial Horizontal Autoclave - ToronClave™ HI Series Applications

- Medical and Clinical Instruments: this Autoclave Machine is suitable for sterilizing reusable medical instruments and healthcare items. This instrument is specifically used for medical equipment and dressings among the intended sterilization loads.
- Laboratory Glassware: ToronClave™ HI Series can be used for sterilizing glassware in research, laboratory, and educational environments. Its large horizontal chamber makes it suitable for repeated or high-volume sterilization

cycles.

- Culture Media: this makes the series suitable for microbiology, biology, and general laboratory preparation workflows.
- High-Volume Institutional Sterilization: because the ToronClave™ HI series extends from 0.25 m^3 to 5.0 m^3, it fits larger institutional and industrial sterilization workflows where compact autoclaves do not provide enough throughput.

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FEATURES

Industrial Horizontal Autoclave - ToronClave™ HI Series Key Features

Stainless steel inner chamber, jacket, and inner-door pipeline construction.

Advanced welding and testing process for the main body

Electropolished chamber and piping surfaces

- Industrial Horizontal Autoclave Machine design for high-capacity sterilization workflows.
- Microcomputer automatic control system.
- Color touch screen with dynamic display of pressure, time, temperature, and sterilization stage parameters.
- Multiple sterilization procedures for solid, liquid, metal, fabric, and B-D test workflows.
- Vacuum detection with a listed leakage rate below 0.13 kPa/min.
- Multi-channel steam intake for more uniform temperature distribution and lower steam consumption.
- Four-sided V-shaped cavity base for strong drainage performance.
- Steam generators and water pumps support automatic water intake and replenishment on models with their own steam source.
- Pressure controller and safety valve support overpressure protection for the steam generator.
- Available in single-door or double-door versions according to user requirements.
- Available with own or external steam source depending on model.

TECHNICAL SPECIFICATIONS

Industrial Horizontal Autoclave - ToronClave™ HI Series Technical Specification

Parameter	Value
Inner Cavity Design Pressure	-0.1 to 0.3 MPa
Inner Cavity Working Pressure	-0.1 / 0.25 MPa
Jacket Design Pressure	0.3 MPa
Jacket Working Pressure	0.25 MPa
Inner Cavity Water Pressure Test	0.39 MPa

Parameter	Value
Jacket Water Pressure Test	0.52 MPa
Temperature Uniformity	±1°C
Design Temperature	144°C
Sterilization Temperature	105°C–139°C
Leakage Rate	≤1.3 kPa / 10 min
Limiting Vacuum	-94.3 kPa
Temperature Difference	15°C

Model	Sterilization Size (mm)	Volume (m^3)	Voltage	Power (kW)	Weight (kg)	Housing Dimensions (mm)	Steam Source
ToronClave™ HI 750	1000 × 500 × 500	0.25	380V / 50Hz	1.2	750	1260 × 1200 × 1740	Own / External
ToronClave™ HI 800	1000 × 600 × 600	0.36			800	1260 × 1270 × 1740	
ToronClave™ HI 1200	1180 × 610 × 910	0.6		2.4	1200	1440 × 1280 × 1940	
ToronClave™ HI 1400	1490 × 610 × 910	0.8			1400	1740 × 1280 × 1940	External
ToronClave™ HI 1600	1800 × 610 × 910	1.2			1600	2060 × 1280 × 1940	
ToronClave™ HI 1700	1500 × 690 × 1180	1.2		3.2	1700	1780 × 1460 × 2040	
ToronClave™ HI 1850	1900 × 690 × 1180	1.5			1850	2180 × 1460 × 2040	
ToronClave™ HI 2400	2600 × 690 × 1180	2.0		4.2	2400	2880 × 1460 × 2060	
ToronClave™ HI 2700	2100 × 1000 × 1200	2.5			2700	2400 × 2000 × 2100	
ToronClave™ HI 2700B	4200 × 1000 × 1200	5.0		7.7	2700	4500 × 2000 × 2100	

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