



# 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<sup>3</sup> up to 5.0 m<sup>3</sup>, 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

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### 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<sup>3</sup> to 5.0 m<sup>3</sup>, it fits larger institutional and industrial sterilization workflows where compact autoclaves do not provide enough throughput.



## **FEATURES**

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### **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.

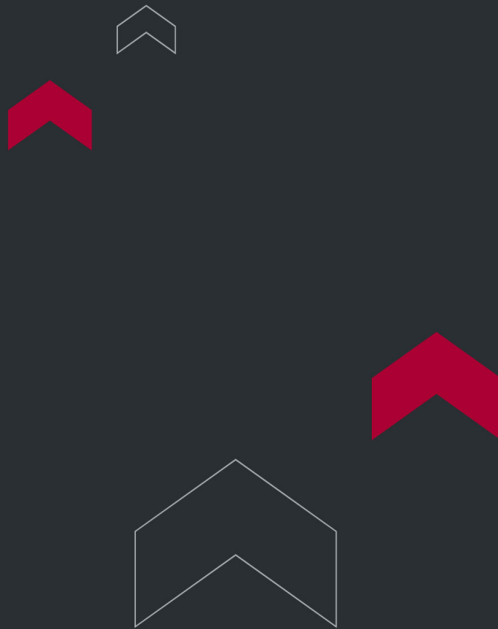
## TECHNICAL SPECIFICATIONS

# 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<br>(mm) | Volume<br>(m³) | Voltage        | Power<br>(kW) | Weight<br>(kg) | Housing Dimensions<br>(mm) | Steam<br>Source |
|----------------------|----------------------------|----------------|----------------|---------------|----------------|----------------------------|-----------------|
| ToronClave™ HI 750   | 1000 × 500 × 500           | 0.25           | 380V /<br>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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