

HOT AIR STERILIZER



Hot Air Sterilizer - ToronHAS™ Series

Autoclave performance matters when you need reliable steam sterilization for large daily loads in laboratories, hospitals, and institutional facilities. ToronHAS™ Series is a Hot Air Sterilizer 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 ToronHAS™ has a range extending from 0.25 m³ up to 5.0 m³, with optional own or external steam supply depending on model configuration.

ToronHAS™ 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 ToronHAS™ 750 model has a horizontal pressure steam sterilizer with a 380 V, 50 Hz power supply, 139°C maximum working temperature, and internal chamber dimensions of 1000 × 500 × 500 mm. The ToronHAS™ 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

Hot Air Sterilizer - ToronHAS™ Series Applications

- Medical and Clinical Instruments: This Autoclave Machine is suitable for sterilizing reusable medical instruments and healthcare items. This instrument specifically lists medical equipment and dressings among the intended sterilization loads.

- Laboratory Glassware: ToronHAS™ 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 ToronHAS™ series extends from 0.25 m³ to 5.0 m³, it fits larger institutional and industrial sterilization workflows where compact autoclaves do not provide enough throughput.



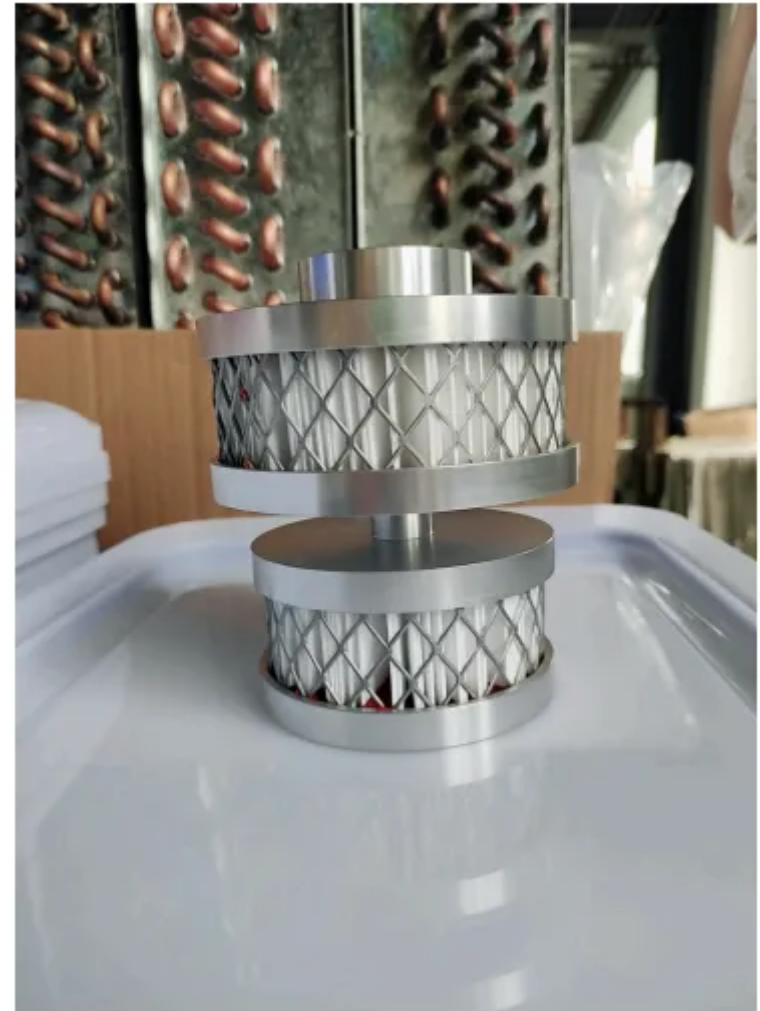
FEATURES

Hot Air Sterilizer - ToronHAS™ Series Key Features



Hot Air Sterilizer Machine design for high-capacity sterilization workflows

Pressure controller and safety valve support overpressure protection for the steam generator

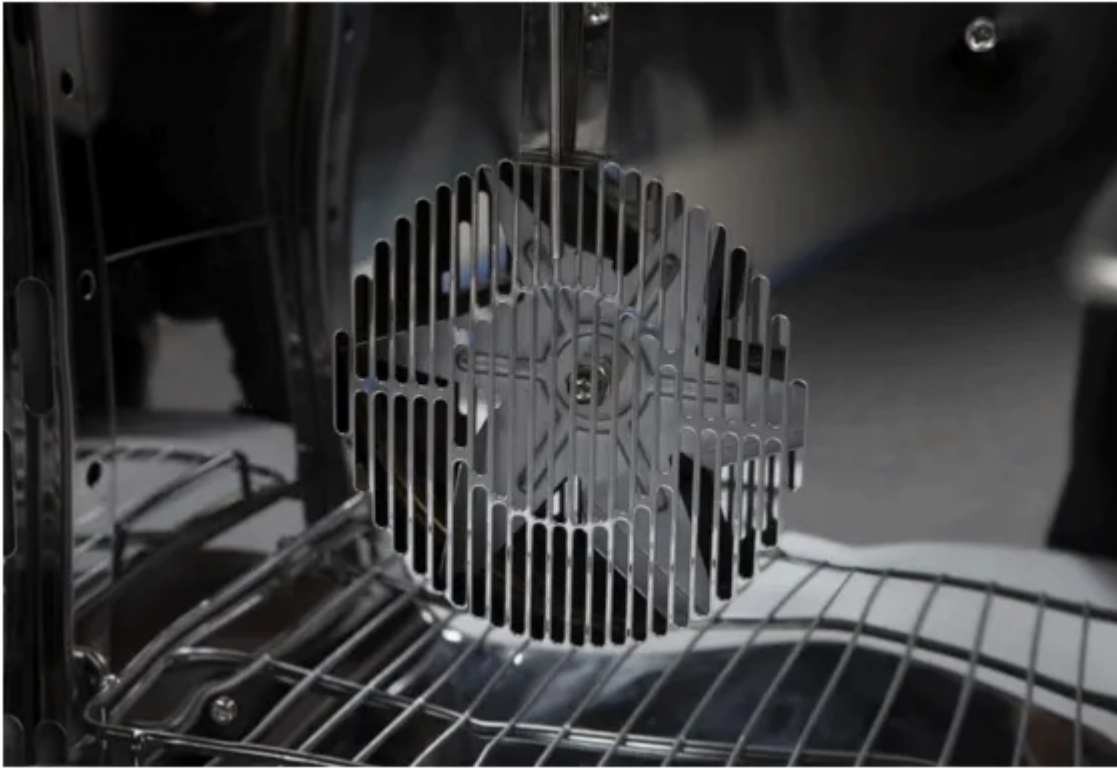




Microcomputer automatic control system and color touch screen with dynamic pressure, time, temperature, and sterilization stage parameters

Electropolished chamber and piping surfaces





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

- Advanced welding and testing process for the main body.
- 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.
- Available in single-door or double-door versions according to user requirements.
- Available with own or external steam source depending on model.

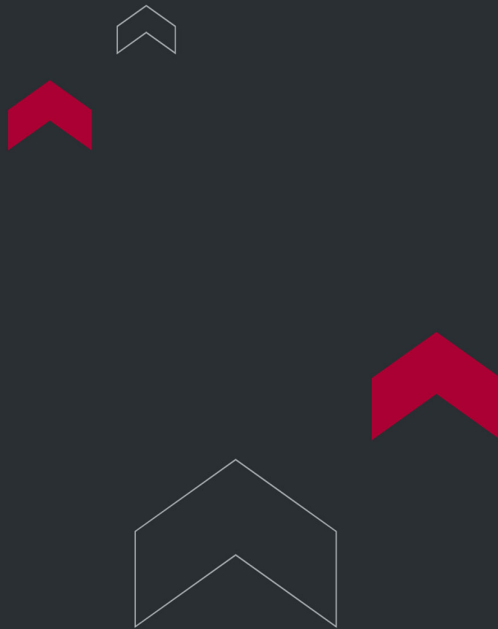
TECHNICAL SPECIFICATIONS

Hot Air Sterilizer - ToronHAS™ 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
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 (m³)	Voltage	Power (kW)	Weight (kg)	Housing Dimensions (mm)	Steam Source
ToronHAS™ 750	1000 × 500 × 500	0.25	380V / 50Hz	1.2	750	1260 × 1200 × 1740	Own / External
ToronHAS™ 800	1000 × 600 × 600	0.36			800	1260 × 1270 × 1740	
ToronHAS™ 1200	1180 × 610 × 910	0.6		2.4	1200	1440 × 1280 × 1940	

Model	Sterilization Size (mm)	Volume (m³)	Voltage	Power (kW)	Weight (kg)	Housing Dimensions (mm)	Steam Source
ToronHAS™ 1400	1490 × 610 × 910	0.8	1400	1740 × 1280 × 1940	External		
ToronHAS™ 1600	1800 × 610 × 910	1.2	1600	2060 × 1280 × 1940			
ToronHAS™ 1700	1500 × 690 × 1180	1.2	3.2	1700		1780 × 1460 × 2040	
ToronHAS™ 1850	1900 × 690 × 1180	1.5		1850		2180 × 1460 × 2040	
ToronHAS™ 2400	2600 × 690 × 1180	2.0	4.2	2400		2880 × 1460 × 2060	
ToronHAS™ 2700	2100 × 1000 × 1200	2.5		2700		2400 × 2000 × 2100	
ToronHAS™ 2700B	4200 × 1000 × 1200	5.0	7.7	2700		4500 × 2000 × 2100	



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