

ADVANCED SMART VERTICAL AUTOCLAVE



Advanced Smart Vertical Autoclave - ToronClave™ VAS

Autoclave performance matters when you need dependable steam sterilization, stronger automation, and a compact floor-standing format for laboratory and clinical work. ToronClave™ VAS is a performance-type Advanced Smart Vertical Autoclave Machine series designed for sterilizing instruments, dressings, glassware, and culture media with saturated steam under pressure. The ToronClave™ VAS 65 performance flip-top model presents this product class is a laboratory vertical steam pressure sterilizer with a 65 L chamber, 220 V power supply, and a maximum sterilization temperature of 135°C.

The ToronClave™ VAS series has two models under that, ToronClave™ VAS 65 and ToronClave™ VAS 90, with chamber volumes of 65 L and 90 L. It is also supported by the BRIGHT II operating system, a 7-inch HD touch screen with adjustable angle, positive pressure pulse, six-level cold-air discharge, six-stage pressure relief, reservation by date, sample temperature probe support, and multiple protection functions. Those features position the series for users who need more process control than standard vertical sterilizers.

ToronClave™ VAS is a floor-standing vertical steam sterilizer series developed for moist-heat sterilization of common medical and laboratory loads. It uses saturated steam under pressure to sterilize reusable items quickly while giving operators broader program control, real-time parameter display, and built-in data logging.

The ToronClave™ VAS series adds a modern touchscreen control platform and stronger process documentation functions. The system can record alarms, historical data, operation logs, and USB drive export backups, making it a strong fit for users who want more traceability and operational control in daily sterilization work.

APPLICATIONS

Advanced Smart Vertical Autoclave - ToronClave™ VAS Applications

- Medical and Clinical Instruments: this Autoclave Machine is suitable for sterilizing reusable medical equipment and related clinical items. The product class is appropriate for medical equipment, dressings, glassware, and liquor culture media.
- Laboratory Glassware: ToronClave™ VAS can be used for sterilizing laboratory glassware in research, testing, and educational settings. Its larger chamber sizes and multi-basket configuration make it practical for facilities handling repeated sterilization cycles.
- Culture Media: this model is also positioned for culture media sterilization, which makes the series suitable for microbiology, biology, and general laboratory preparation workflows.
- Research and Institutional Work: because the series offers 65 L and 90 L chamber capacities with real-time display, reservation functions, and data logging, it fits research facilities, institutional sterilization rooms, and laboratories that need repeatable cycle management and better documentation.



FEATURES

Advanced Smart Vertical Autoclave - ToronClave™ VAS Key Features

- BRIGHT II operating system
- 7-inch HD touch screen with adjustable angle
- Real-time display of operating parameters
- Pearl-type door opening structure with dual protection of self-locking and interlocking
- Alarm records, historical data, operation logs, and USB flash drive export backup
- 26 standard sterilization procedures plus 4 melting and insulation procedures
- Boiling-point setting function
- One-key exhaust and drainage
- Reservation function
- Positive pressure pulse
- Six-level cold-air discharge procedure
- Six-stage pressure relief after sterilization for quicker cooling
- Water-level detection and anti-dry burning protection
- Fault detection function
- Over-temperature protection
- Water cut-off protection
- Overpressure self-relief protection
- Anti-hot protection
- Short-circuit protection
- Leakage protection
- Independent electronic overvoltage protection

- Standard sample temperature probe
- One 485 data port, one USB port, and one G1/2A verification port as standard
- Optional biosafety filter, verification lead, and embedded printer



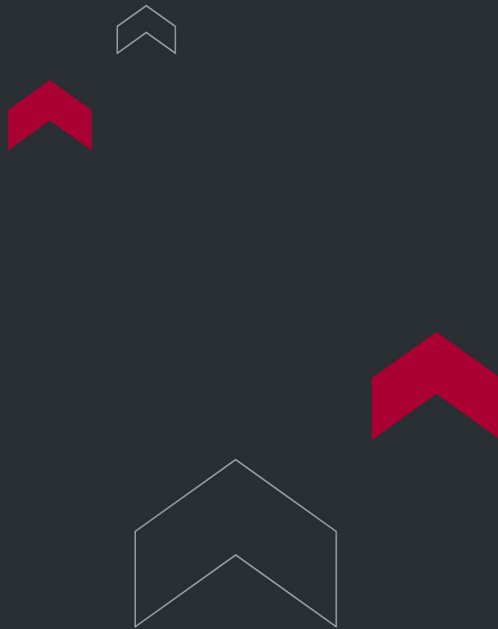


TECHNICAL SPECIFICATIONS

Advanced Smart Vertical Autoclave - ToronClave™ VAS Technical Specification

Parameter	ToronClave™ VAS 65	ToronClave™ VAS 90
Volume	65 l	90 l

Parameter	ToronClave™ VAS 65	ToronClave™ VAS 90
Drum Diameter	400 mm	
Voltage	220 ±10%, 50 ±2% (110V is also available)	
Environment Temperature	5-40°C	
Environment Humidity	20-80% RH	
Power	3.2 kW	3.6 kW
Sterilization Temperature	105-135°C	
Temperature Fluctuation	< ±1°C	
Temperature Uniformity	≤ ±1°C	
Melting Temperature	60-100°C	
Heat Preservation Temperature	40-60°C	
Sterilization Timer Range	0-240 min	
Melting Timer Range	0-600 min	
Heat Preservation Timer Range	0-100 h	
Reservation Range	Appointment by date	
Design Pressure	0.39 MPa	
Working Pressure	0.24 MPa	
Housing Dimensions (W × D × H)	605 × 513 × 915 mm	605 × 513 × 1040 mm
Cavity Size	Ø380 × 555 mm	Ø380 × 755 mm
Basket Dimensions	Ø350 × 225 mm	Ø350 × 200 mm
Number of Baskets	2	3



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