

VERTICAL AUTOCLAVE (WITH VACUUM DRYING FUNCTION)



Vertical Autoclave (with Vacuum Drying Function)- ToronClave™ V

Autoclave performance matters when you need dependable steam sterilization plus post-cycle drying for larger routine loads. ToronClave™ V is a performance-type vertical Autoclave Machine series designed for sterilizing instruments, dressings, glassware, and culture media with saturated steam under pressure, while adding vacuum drying to help reduce secondary contamination after sterilization. The ToronClave™ V model is a laboratory vertical steam pressure sterilizer with a 60 L chamber, 220 V power supply, 135°C maximum working temperature, Ø360 × 230 mm basket, and 126 kg net weight.

This series is intended for laboratories, clinics, and institutional environments that need programmable control, larger chamber capacity, and integrated drying capability. The ToronClave™ V series has three models under that, ToronClave™ V 60, ToronClave™ V 85, and ToronClave™ V 110, with chamber capacities of 60 L, 85 L, and 110 L.

ToronClave™ V 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 the ToronClave™ V configuration adds a vacuum drying function to improve post-cycle handling and reduce residual moisture.

The ToronClave™ V series is an upgrade from the ToronClave™ VHT platform with similar core features and added functions. It uses a PMMA II microcomputer intelligent operating system, preset and custom programs, and multiple safety protections for routine sterilization work in higher-throughput environments.

APPLICATIONS

Vertical Autoclave (with Vacuum Drying Function)- ToronClave™ V 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 mediums.
- Laboratory Glassware: ToronClave™ V can be used for sterilizing laboratory glassware in research, testing, and educational settings. Its larger vertical chamber sizes make it useful for facilities that process repeated loads and need more volume per cycle.
- Culture Media: this product class is also positioned for culture media sterilization, making the series suitable for microbiology, biology, and general laboratory preparation workflows.
- Research and Institutional Work: because the series offers 60 L, 85 L, and 110 L capacities, it fits scientific, educational, and institutional sterilization tasks where a smaller portable autoclave would not provide enough throughput.



FEATURES

Vertical Autoclave (with Vacuum Drying Function)- ToronClave™ V Key Features



Pressure Gauge detection

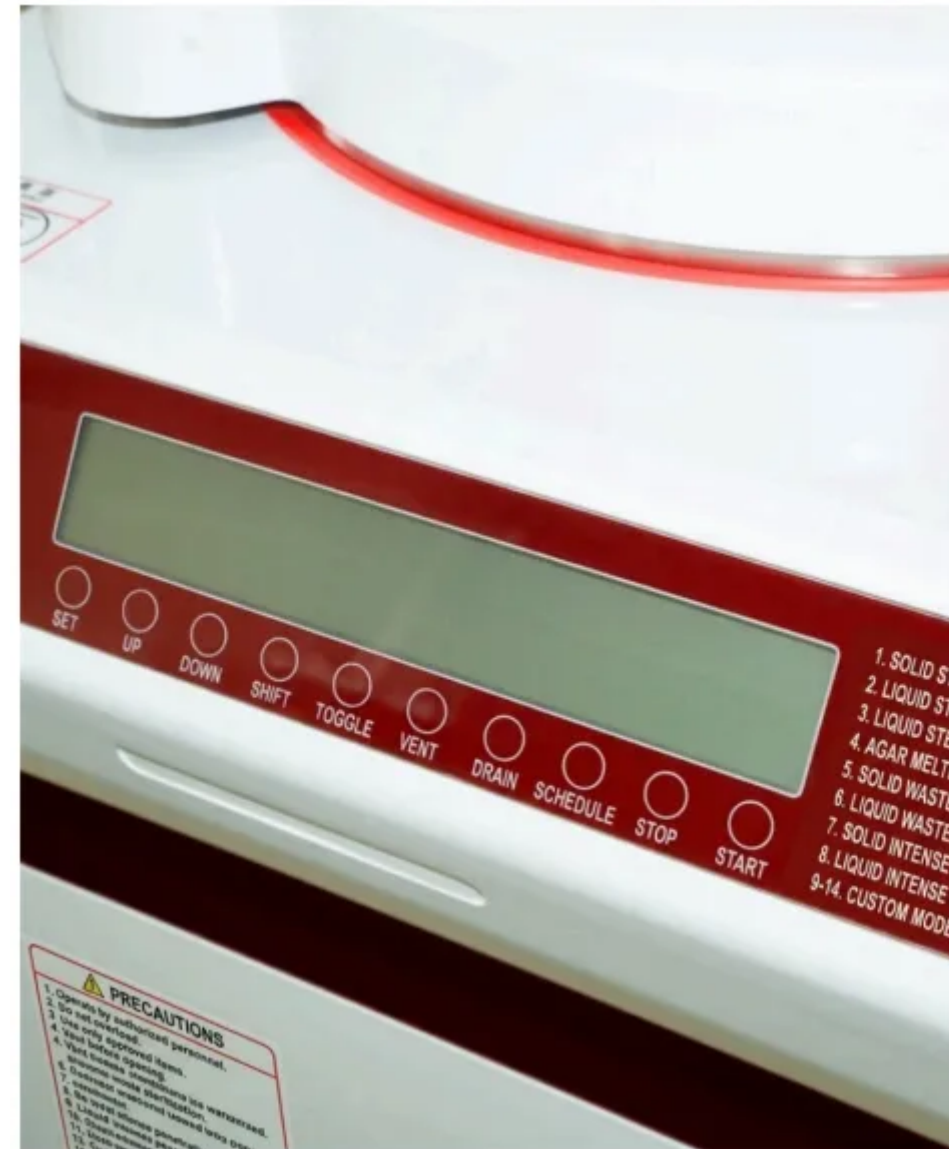
PMMA II microcomputer intelligent operating system





Waterproof socket

Touch-screen style interface for real-time viewing of operating parameters and working status





Two 485 communication ports and G1/2A standard test pipe thread holes

Handwheel quick-open lid structure with dual protection against pressure and self-locking





Rapid cooling system with condenser, air cooling, and secondary water cooling

- PMMA II microcomputer intelligent operating system.
- Vacuum drying function to help reduce secondary contamination after sterilization.
- Optional 0.2 μm biosafety filter with temperature and pressure resistance.
- Optional special printer for date, time, temperature, sterilization process, and curve printing.
- Optional sample temperature probe for F0 value printing.
- Optional verification lead.

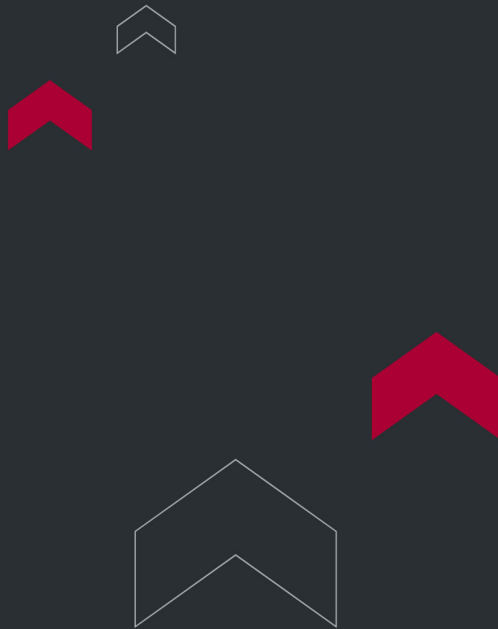
TECHNICAL SPECIFICATIONS

Vertical Autoclave (with Vacuum Drying Function)- ToronClave™ V

Technical Specification

Parameter	ToronClave™ V 60	ToronClave™ V 85	ToronClave™ V 110
Volume	60 L	85 L	110 L
Internal Dimensions	400 × 635 mm	400 × 725 mm	400 × 835 mm
Voltage	220 ±10%, 50 ±2% (110V is also available)		
Environment Temperature	5-40°C		
Environment Humidity	20-80% RH		
Power	4.8 kW	5.2 kW	5.4 kW
Sterilization Temperature	105-135°C		
Temperature Fluctuation	< ±1°C		
Temperature Uniformity	≤ ±1°C		
Melting Temperature	50-100°C		
Drying Temperature	80-130°C		
Heat Preservation Temperature	40-60°C		
Sterilization Timer Range	0-120 min		
Drying Time	10-6000 min		
Melting Timer Range	0-6000 min		
Heat Preservation Timer Range	0-6000 min		
Reservation Range	0-6000 min		

Parameter	ToronClave™ V 60	ToronClave™ V 85	ToronClave™ V 110
Design Pressure	0.38 MPa		
Working Pressure	0.22 MPa		
Pressure Gauge Indicating Range	-0.1 to 0.5 MPa		
Housing Dimensions (W × D × H)	585 × 750 × 1075 mm	585 × 750 × 1165 mm	585 × 750 × 1275 mm
Basket Dimensions	Ø360 × 230 mm	Ø360 × 270 mm	Ø360 × 230 mm
Number of Baskets	2	2	3
Net Weight / Gross Weight	126 / 152 kg	131 / 160 kg	136 / 168 kg
Package Size	730 × 900 × 1240 mm	730 × 900 × 1330 mm	730 × 900 × 1440 mm



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