Vertical Autoclave - Class N Steam Sterilizer - 35-100 L Chamber - 116-134°C

Model **MSSTV-A35ISWISS, MSSTV-A50ISWISS, MSSTV-A75ISWISS, MSSTV-A100ISWISS** | Brand **Master Science**





The Master Science Vertical Autoclave is a Class N steam sterilizer for laboratory media, glassware, instruments and waste. A hand-wheel quick-opening lid, self-expanding door seal and microcomputer control make daily cycles simple, while digital display and touch buttons let users set any sterilization temperature and time.

KEY HIGHLIGHTS

- Better sterilization
- Safe operation
- Hands-free cycles
- Fast loading
- Right size for your lab

AT A GLANCE

0.25 MPa / 139 °C DESIGN PRESSURE / TEMPERATURE	**four chamber sizes are available.** DIFFERENT VOLUME NEEDS
0.22 MPa / 134 °C WORKING PRESSURE / TEMPERATURE	**Ø300 × 450 mm; Ø350 × 515 mm; Ø400 × 585 mm; Ø450 × 615 mm** CHAMBER SIZE

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Overview

Four chamber sizes from 35 L to 100 L are available. A three-stage pressure pulsing program removes air more completely for higher steam saturation and better sterilization results.

Key Benefits

Better sterilization
triple pulsing removes trapped air for fully saturated steam.

Safe operation
the Master Science Vertical Autoclave has door interlock, over-pressure release and low-water protection.

Hands-free cycles
cold air discharge, exhaust and stop are automatic.

Fast loading
the hand-wheel quick-opening lid saves time.

Right size for your lab
choose from 35, 50, 75 or 100 L.

More sterilization equipment is listed in the Master Science laboratory instrument range.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSSTV-A35ISWISS, MSSTV-A50ISWISS, MSSTV-A75ISWISS, MSSTV-A100ISWISS
SKU	MSSTV-A35ISWISS, MSSTV-A50ISWISS, MSSTV-A75ISWISS, MSSTV-A100ISWISS
Models and Volume	MSSTV-A35ISWISS 35 L; MSSTV-A50ISWISS 50 L; MSSTV-A75ISWISS 75 L; MSSTV-A100ISWISS 100 L
Design Pressure / Temperature	0.25 MPa / 139 °C
Working Pressure / Temperature	0.22 MPa / 134 °C
Sterilization Temperature	116 to 134 °C
Sterilization Time	4 to 120 min
Control	Microcomputer, digital display, touch keys
Safety	Door interlock; over-temperature, over-pressure release, low-water and dry-heating protection
Air Removal	Automatic cold air discharge; triple temperature pulsing
After Cycle	Automatic steam exhaust, buzzer and auto stop
Load Carriers	Stainless steel bucket (basket optional)

POWER

Heating Power	2.5 kW (35 L); 3.5 kW (50 L); 4.5 kW (75 and 100 L)
Power Supply	AC 220/110 V, 50/60 Hz

DIMENSIONS & WEIGHT

Chamber Size	Ø300 × 450 mm; Ø350 × 515 mm; Ø400 × 585 mm; Ø450 × 615 mm
Outer Dimensions	476 × 473 × 990 mm to 620 × 610 × 1275 mm
Net / Gross Weight	62/74 kg to 106/134 kg

COMMON LABORATORY PROBLEMS AND HOW THIS AUTOCLAVE HELPS

Common Laboratory Problems and How This Autoclave Helps	How the Master Science Vertical Autoclave addresses typical sterilization issues:
Air pockets reducing sterility	triple pulsing improves steam penetration.
Boiling dry	low-water protection stops heating.
Unsafe lid opening	the interlock prevents opening under pressure.
Staff waiting for cycle end	auto exhaust and buzzer signal completion.
Different volume needs	four chamber sizes are available.

Applications

The Master Science Vertical Autoclave is used for
Culture media and microbiology supplies Laboratory glassware and instruments Biohazard waste decontamination Hospital and clinic sterilization rooms Pharmaceutical and food labs

Construction

- Stainless steel chamber
- Hand-wheel quick-opening structure
- Self-expanding seal

Control

- Microcomputer with digital display
- Adjustable temperature and time
- Standard test port

Safety

- Interlocked lid
- Over-temperature and over-pressure protection
- Low-water and anti-dry-burn protection

Standard Accessories Included

- Stainless steel sterilization bucket

Optional Accessories

- Stainless steel baskets