# Class N Vertical Autoclave - Digital Steam Sterilizer - 40L 60L 80L - 0.217MPa 134°C

Model **MSSTV-M40LSWISS, MSSTV-M60LSWISS, MSSTV-M80LSWISS, MSSTV-M40LASWISS, MSSTV-M60LASWISS, MSSTV-M80LASWISS** | Brand **Master Science**





Built for routine sterilization in microbiology rooms, clinics and quality control labs, the Master Science Digital Vertical Autoclave loads from the top and handles bulky batches of media bottles, glassware and waste bags. Chamber options are 40 L, 60 L and 80 L, and every size comes in a semi-automatic or a fully automatic version.

### KEY HIGHLIGHTS

- Programme at a touch
- Faster unloading
- Melting and preheating
- Scheduled start

### AT A GLANCE

| | |
|---|---|
| **50 to 134°C**<br>TEMPERATURE RANGE | **1 to 9999 min**<br>TIMER RANGE |
| **40 L, 60 L, 80 L**<br>CHAMBER VOLUME | **Air cooling reduces the delay before the lid can be opened.**<br>WAITING FOR THE CHAMBER TO COOL |

**Request a Quotation**
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

Scan to view online

## Overview

Its control panel uses an LCD window and a microcomputer that manages the whole programme, from heating to exhaust, and gives an alarm at the end. The pressure vessel is 304 food-grade stainless steel, which makes the Master Science Digital Vertical Autoclave easy to clean and resistant to corrosion.

Busy labs need a sterilizer that runs safely without constant attention. The Master Science Digital Vertical Autoclave helps by solving:

## Key Benefits

**Programme at a touch**
One-button selection sets the right cycle for each kind of load.

**Faster unloading**
Built-in air cooling lowers chamber temperature quickly after sterilization.

**Melting and preheating**
Agar and other solid media can be melted with chosen time and temperature.

**Scheduled start**
A reservation timer lets the cycle begin automatically at a set time.

Need a smaller chamber? Compare the Class N vertical autoclave 30L to 75L.

## Technical Specifications

### GENERAL

| | |
|---|---|
| Brand | Master Science |
| Model Number | MSSTV-M40LSWISS, MSSTV-M60LSWISS, MSSTV-M80LSWISS, MSSTV-M40LASWISS, MSSTV-M60LASWISS, MSSTV-M80LASWISS |
| SKU | MSSTV-M40LSWISS, MSSTV-M60LSWISS, MSSTV-M80LSWISS, MSSTV-M40LASWISS, MSSTV-M60LASWISS, MSSTV-M80LASWISS |
| Brand | Master Science |
| Models | MSSTV-M40LSWISS / MSSTV-M40LASWISS (40 L), MSSTV-M60LSWISS / MSSTV-M60LASWISS (60 L), MSSTV-M80LSWISS / MSSTV-M80LASWISS (80 L) |
| SKU | MSSTV-M40LSWISS, MSSTV-M60LSWISS, MSSTV-M80LSWISS, MSSTV-M40LASWISS, MSSTV-M60LASWISS, MSSTV-M80LASWISS |
| Chamber Volume | 40 L, 60 L, 80 L |
| Control Type | Semi-automatic or fully automatic |
| Chamber Material | 304 stainless steel, 2.0 mm wall (reference) |
| Temperature Range | **50 to 134°C** |
| Timer Range | **1 to 9999 min** |
| Rated Working Pressure | 0.217 MPa |
| Power Supply | 220 V, 3.5 kW |

### DIMENSIONS & WEIGHT

| | |
|---|---|
| Basket Size (D × H) | 40 L: 335 × 190 mm; 60 L: 335 × 360 mm; 80 L: 335 × 190 mm + 335 × 360 mm |
| Overall Dimensions | 40 L / 60 L: 570 × 690 × 1020 mm; 80 L: 570 × 690 × 1170 mm |

### PROBLEMS THE MASTER SCIENCE DIGITAL VERTICAL AUTOCLAVE SOLVES

| | |
|---|---|
| Time spent monitoring cycles | The microcomputer controls each stage and sounds an alarm at completion. |
| Waiting for the chamber to cool | Air cooling reduces the delay before the lid can be opened. |
| Unsafe lid opening | The interlock keeps the lid closed whenever there is pressure inside. |
| Heater damage from low water | Dry-run protection and fault detection stop the unit before damage occurs. |

## Applications

Typical uses of the Master Science Digital Vertical Autoclave: Sterilization of culture media, buffers and reagents Glassware and lab tool sterilization Decontamination of biohazard waste Clinical and hospital laboratories Pharmaceutical, food and university labs

## Body and Lid

- 304 stainless steel pressure chamber
- Impact-resistant thermoplastic and stainless steel housing
- Multi-link lever lid with synchronous telescopic action

## Microcomputer Control

- LCD window with live process display
- Automatic cycle with end-of-cycle alarm
- Preheat and melt programme
- Reservation timer
- Self-diagnosis of faults
- Printer can be added for temperature and time records

## Fully Automatic Version

- Cold air removed automatically
- Steam exhausted internally
- Steam released automatically when the cycle ends

## Protection

- Lid locks while chamber is pressurised
- Mechanical relief valve plus electronic over-pressure protection
- Anti-dry heater protection
- Electrical leakage protection

## Standard Accessories Included

- Autoclave main unit
- Stainless steel basket(s)

## Optional Accessories

- Printer for cycle records