Class B Autoclave - Benchtop Vacuum Steam Sterilizer - 18L 23L 45L - 134°C Built-in Printer

Model **MSSTB-B18ZSWISS, MSSTB-B23ZSWISS, MSSTB-B45ZSWISS** | Brand **Master Science**





The Master Science Class B Benchtop Autoclave is a compact vacuum steam sterilizer for wrapped instruments, porous loads and hollow items that a simple gravity autoclave cannot reliably reach. Three pre-vacuum pulses remove air from the chamber before sterilization, and a built-in steam generator supplies saturated steam quickly.

KEY HIGHLIGHTS

- Reliable air removal
- Fast steam supply
- Verified performance
- Dry loads

AT A GLANCE

139°C	134°C
DESIGN TEMPERATURE	RATED WORKING TEMPERATURE

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Contact us for pricing, configuration options and delivery details.

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Overview

It is available with 18 L, 23 L and 45 L chambers. A microcomputer controls each phase, the LED touch panel shows the cycle status, and a built-in printer records the result, so the Master Science Class B Benchtop Autoclave suits clinics, dental practices and laboratories that need documented sterilization.

> For high-volume media and waste sterilization, see the Class N vertical autoclave 40L to 80L.

> Gravity autoclaves can leave air pockets in packs and hollow instruments. The Master Science Class B Benchtop Autoclave is designed to overcome:

Key Benefits

Reliable air removal
Three pre-vacuum pulses pull air out of wrapped packs and lumens before steam enters.

Fast steam supply
The built-in steam generator delivers saturated steam quickly for shorter cycles.

Verified performance
BD, Helix and vacuum test programmes let you check the sterilizer routinely.

Dry loads
An adjustable drying phase of up to 240 minutes leaves instruments ready for storage.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSSTB-B18ZSWISS, MSSTB-B23ZSWISS, MSSTB-B45ZSWISS
SKU	MSSTB-B18ZSWISS, MSSTB-B23ZSWISS, MSSTB-B45ZSWISS
Brand	Master Science
Models	MSSTB-B18ZSWISS (18 L), MSSTB-B23ZSWISS (23 L), MSSTB-B45ZSWISS (45 L)
SKU	MSSTB-B18ZSWISS, MSSTB-B23ZSWISS, MSSTB-B45ZSWISS
Design Pressure	0.25 MPa
Design Temperature	139°C
Rated Working Pressure	0.22 MPa
Rated Working Temperature	134°C
Sterilization Temperature	116 to 134°C
Sterilization Time	4 to 120 min
Drying Time	0 to 240 min

DIMENSIONS & WEIGHT	
Chamber Size	18 L: Ø250 × 360 mm; 23 L: Ø250 × 450 mm; 45 L: Ø320 × 615 mm
Outer Dimensions	18 L / 23 L: 505 × 710 × 450 mm; 45 L: 660 × 850 × 570 mm

POWER	
Power	18 L / 23 L: 2.2 kW; 45 L: 3.5 kW
Voltage	AC 220/110 V, 50/60 Hz

PROBLEMS THE MASTER SCIENCE CLASS B BENCHTOP AUTOCLAVE SOLVES	
Trapped air in wrapped loads	Pre-vacuum pulses remove air so steam reaches every surface.
Wet packs after the cycle	The programmable drying phase removes moisture before unloading.
No proof of sterilization	The built-in printer and test cycles provide records for each run.
Low water or overheating risks	Low water, over-temperature and over-pressure protection stop the unit safely.

The Master Science Class B Benchtop Autoclave is used in

- **Dental clinics and hospital outpatient units**
- **Sterilization of wrapped and hollow surgical instruments**
- **Laboratory sterilization of porous and textile loads**
- **Beauty, tattoo and podiatry clinics**

Veterinary practices

Chamber and Door

- Stainless steel inner chamber with sealed lid
- Automatic door switch
- Safety door lock and interlock

Control and Monitoring

- Microcomputer control
- LED display with touch operation
- Built-in printer
- Standard test interface
- Buzzer and automatic stop at the end of the cycle

Sterilization Process

- Three pre-vacuum pulses
- Automatic cold air discharge
- Automatic steam exhaust after sterilization
- Built-in steam generator

Test Programmes

- Bowie-Dick (BD) test
- Helix test
- Vacuum leak test

Protection

- Over-temperature protection
- Over-pressure protection
- Low water level protection
- Anti-dry-burning protection

Standard Accessories Included

- Autoclave main unit with built-in printer

Optional Accessories

- Printer paper for the built-in printer