Class B Pre-Vacuum Autoclave - Benchtop Steam Sterilizer - 35L 50L - 105-134°C Micro Printer

Model **MSSTB-APV35DVSWISS, MSSTB-APV50DVSWISS** | Brand **Master Science**





The Master Science Class B Pre-Vacuum Autoclave is a horizontal benchtop sterilizer for hospitals, dental and eye clinics, pharmaceutical units and research labs. It handles surgical and dental instruments, glassware, culture media, fabric dressings and other items that tolerate saturated steam, with 35 L and 50 L chamber options.

KEY HIGHLIGHTS

- Steam reaches every surface
- Dry instruments
- Stable temperature
- Traceable cycles

AT A GLANCE

150°C DESIGN TEMPERATURE	**105 to 134°C** TEMPERATURE RANGE
≤ ±1°C TEMPERATURE UNIFORMITY	**0 to 99 min** TIMER RANGE

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

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Overview

A triple pulse pre-vacuum reaches -0.8 bar to pull air out of packs, porous loads and hollow instruments such as dental handpieces, and a post-vacuum stage dries the load to a residual moisture below 0.2%. Full computer control, an LCD status display and a built-in micro printer make the Master Science Class B Pre-Vacuum Autoclave simple to operate and document.

Hollow and wrapped items are hard to sterilize with gravity steam alone. The Master Science Class B Pre-Vacuum Autoclave addresses:

Key Benefits

Steam reaches every surface
Pulsed vacuum removes trapped air from wrapped, porous and hollow loads.

Dry instruments
Post-vacuum drying leaves residual moisture under 0.2%, ready for storage.

Stable temperature
Chamber temperature uniformity of ±1°C supports consistent results.

Traceable cycles
A built-in micro printer records the data of every sterilization run.

For smaller practices, compare our Class B benchtop autoclave 18L to 45L.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSSTB-APV35DVSWISS, MSSTB-APV50DVSWISS
SKU	MSSTB-APV35DVSWISS, MSSTB-APV50DVSWISS
Brand	Master Science
Models	MSSTB-APV35DVSWISS (35 L), MSSTB-APV50DVSWISS (50 L)
SKU	MSSTB-APV35DVSWISS, MSSTB-APV50DVSWISS
Design Pressure	0.3 MPa
Design Temperature	150°C
General	Max. Working Pressure: 0.25 MPa
General	Max. Working Temperature: 138°C
Temperature Range	**105 to 134°C**
Timer Range	**0 to 99 min**
Temperature Uniformity	≤ ±1°C
Vacuum Level	Down to -0.8 bar
Residual Moisture After Drying	< 0.2%
Power Supply	AC 220 V, 50 Hz, 2.7 kW

DIMENSIONS & WEIGHT	
Chamber Size	35 L: Ø300 × 500 mm; 50 L: Ø340 × 550 mm
External Dimensions	35 L: 550 × 850 × 500 mm; 50 L: 600 × 850 × 560 mm

PROBLEMS THE MASTER SCIENCE CLASS B PRE-VACUUM AUTOCLAVE SOLVES	
Air trapped in lumens	Deep pulsed vacuum lets steam fully penetrate hollow instruments.
Damp packs	Post-vacuum drying brings residual moisture below 0.2%.
Accidental door opening	The door locks once a programme starts and cannot be opened until it is safe.
Missing sterilization records	The micro printer documents every cycle.

Applications

The Master Science Class B Pre-Vacuum Autoclave is suited to: Surgical, dental and ophthalmic instrument sterilization Hollow instruments such as dental handpieces Glassware and culture media in laboratories Fabric dressings and porous packs Pharmaceutical and food research units

Vacuum and Drying

- Three-pulse pre-vacuum down to -0.8 bar
- Post-vacuum drying function
- Independent fast steam generator

Control

- Full computer control with modular, simple interface
- LCD display and touch buttons
- Built-in micro printer

Testing

- Bowie-Dick test for steam penetration
- Vacuum test for checking vacuum performance

Safety

- Safety valve
- Manual safety door lock and pressure locking system
- Programme starts only with the door sealed; door stays locked while running
- Fault self-check
- Over-temperature and over-pressure protection

Standard Accessories Included

- Autoclave main unit with built-in micro printer

Optional Accessories

- Printer paper for the micro printer