Portable Autoclave: Steam Sterilizer – 24L Capacity and 126°C Working Temperature

Model **MSSTP-E24SWISS, STP-E24** | Brand **Master Science** | Unit **Pc**



When bench space is tight and turnaround time is critical, a full-size autoclave is not always the right answer. The MSSTP-E24SWISS Portable Autoclave delivers reliable steam sterilization in a compact, top-loading design that fits on almost any laboratory bench.

KEY HIGHLIGHTS

- Address Customer Pain Points
- Pressure Gauge
- Additional Information

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Overview

With a 24-litre stainless steel chamber, microcomputer-controlled operation, and automatic safety features, this steam sterilizer meets the daily reprocessing needs of clinics, research labs, and field health stations. This Portable Autoclave is built for teams that need dependable sterilization without a dedicated sterilization room.

At just 17.5 kg and with a footprint of roughly 410 × 410 mm, this Portable Autoclave can be placed on a standard laboratory bench without the need for floor-standing installation or a dedicated sterilization room. It is a practical fit for smaller clinics and mobile health units.

The digital display and push-button interface let you set sterilization temperature and time precisely. There is no guesswork: the steam sterilizer maintains the set parameters, alerts you when the cycle is complete, and shuts off automatically.

The self-inflating seal ensures a tight closure, while the auto-release valve opens if pressure exceeds safe limits. Lack-of-water protection cuts power and sounds an alarm before damage occurs. The pressure gauge must read zero before the lid can be opened.

The chamber and housing are constructed entirely from SUS 304 stainless steel, which resists corrosion and is easy to clean. This steam sterilizer is designed for years of regular use in demanding environments.

The Portable Autoclave arrives with a stainless steel basket, pressure gauge, and instruction manual. Optional IQ/OQ documentation and factory calibration certificates are available on request for facilities that need audit-ready records.

Limited bench space? At 17.5 kg and with a 410 × 410 mm footprint, this Portable Autoclave fits where larger units cannot. It brings reliable sterilization to clinics and labs that lack a dedicated sterilization area.

Need audit-ready documentation? Factory calibration certificates and IQ/OQ documentation are available on request, helping your facility meet regulatory requirements without extra paperwork.

Key Benefits

READY-TO-USE CONFIGURATION WITH CLEAR DOCUMENTATION

Address Customer Pain Points

KEY FEATURES

Auto release when over pressure; lack-of-water protection with power cut-off and buzzer alarm; buzzer reminder after sterilization cycle with automatic stop

Pressure Gauge
Double scale indication, clear to read

Additional Information

Worried about operator safety? The self-inflating seal, over-pressure auto-release, and lack-of-water cut-off work together to protect users. The pressure gauge must return to zero before the lid opens, preventing accidental steam release. Tired of inconsistent cycle results? The microcomputer controller maintains temperature uniformity within ±1 °C, so every load receives the same validated treatment. The 0–99 minute timer gives you precise control over exposure time. Concerned about downtime? The simple, robust design with SUS 304 construction means fewer breakdowns. global support network and Optimum Solution's local service team ensure spare parts and technical help are within reach.

Technical Specifications

PARAMETER	SPECIFICATION
Chamber Volume	24 L (φ280 × 390 mm)
Rated Working Pressure	0.142 MPa
Maximum Safety Pressure	0.165 MPa
Working Temperature Range	105–126 °C
Maximum Working Temperature	126 °C
Temperature Uniformity	≤ ±1 °C
Sterilization Time Setting Range	0–99 min
Control System	Microcomputer control with digital display
Material	All made of SUS 304 stainless steel
Power	AC 220V, 50/60Hz, 2.0 kW
Net Weight / Gross Weight	17.5 kg / 19 kg

PARAMETER	SPECIFICATION
Packing Dimensions	410 × 410 × 680 mm
User Interface	Digital push-button setting; sterilization temperature and time adjustable
Door/Lid	Screw-type quick-open lid with self-inflating seal; pressure gauge must return to zero before opening

Standard Accessories Included

- Main sterilization unit
- Stainless steel sterilizing basket
- Power cord
- Instruction manual
- Self-inflating seal (installed)
- Double scale pressure gauge (installed)
- Buzzer alarm system (integrated)
- External printer or data logger
- Additional sterilization baskets
- Calibration certificate (available on request)
- Installation services (available on request)
- Consumables beyond standard
- Bench space: minimum 450 × 450 mm, level and heat-resistant
- Electrical: dedicated AC 220V, 50/60Hz, 2.0 kW outlet with proper earthing
- Water supply: distilled or deionized water for chamber (as per protocol)
- Drainage: nearby sink or drain for emptying chamber
- Ventilation: well-ventilated area to dissipate heat and steam
- Ambient temperature: 5–40 °C, relative humidity <80% non-condensing
- Clearance: at least 150 mm on all sides for access and safety