

Steam Sterilizer: Class N Autoclave – 28L Capacity and 0.22 MPa Working Pressure



For clinics, research labs, and healthcare facilities, reliable sterilization is non-negotiable. The MSSTV-28HDSWISS Steam Sterilizer delivers fully automatic, computer-controlled steam sterilization in a compact vertical design. With a 28-litre chamber and rapid 4–6 minute cycles, this Class N Autoclave meets the daily demands of instrument reprocessing, media preparation, and waste decontamination. This Steam Sterilizer combines Swiss-brand quality with proven engineering, offering a safe, efficient, and durable solution for busy laboratories.

Technical Specifications

- Model: MSSTV-28HDSWISS
- Chamber Volume: 28 L (270 × 500 mm)
- Design Pressure: 0.3 MPa
- Design Temperature: 150 °C
- Maximum Working Pressure: 0.25 MPa
- Maximum Working Temperature: 138 °C
- Working Pressure: 0.22 MPa

- Working Temperature: 134 °C
- Temperature Uniformity: ± 1 °C
- Temperature Range: 105–134 °C
- Timer Range: 0–99 minutes
- Control System: Fully automatic, computer-controlled; no supervision required
- User Interface: Touch buttons for arbitrary program setting
- Door: Hand wheel translation quick-open, self-expanding seal, safety interlocking device
- Safety Valve: Opens automatically when internal pressure >0.24 MPa
- Heating: Immersed electric heating tube, high efficiency
- Material: Whole machine made of high-quality stainless steel
- Protection: Over-temperature, over-pressure, water cut-off, overheating
- Alarm: Buzzer reminder after sterilization cycle, automatic stop
- Rapid Sterilization: 4–6 minutes
- Power: AC 220V/50Hz, 2 kW
- External Dimensions: 480 × 370 × 750 mm
- Net Weight / Gross Weight: 25 kg / 28 kg
- Package Dimensions: 490 × 480 × 760 mm

Standard Accessories Included

- Main sterilization unit
- Stainless steel sterilization bucket
- Power cord
- Instruction manual
- Safety valve (installed)
- Electronic pressure and temperature controller (integrated)
- Door sealing gasket (self-expanding, installed)
- Buzzer alarm system (integrated)

Items Excluded

- External printer or data logger
- Additional sterilization baskets
- Water treatment system (if required)
- Calibration certificate (available on request)

- Installation services (available on request)
- Consumables beyond standard

Pre-installation Requirement

- Bench space: minimum 600 × 500 mm, level and heat-resistant
- Electrical: dedicated AC 220V/50Hz, 2 kW outlet with proper earthing
- Water supply: distilled or deionized water for chamber (if required by 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 0.24 MPa, and over-temperature/over-pressure protection adds another layer of security.
- Durable stainless steel construction ensures long service life – The entire machine is made of high-quality stainless steel, resistant to corrosion and easy to clean. The immersed heating tube is efficient and reliable, reducing maintenance costs over time.
- Compact vertical design fits tight spaces – With external dimensions of just 480 × 370 × 750 mm, this Class N Autoclave fits on a standard bench or small cart. The 28 L chamber offers ample capacity for typical clinic loads.

Address Customer Pain Points

- Inconsistent sterilization results? The ± 1 °C temperature uniformity and precise electronic controller maintain exact conditions throughout the cycle, so every load gets the same validated treatment.
- Time-consuming manual cycles? The fully automatic program with touch buttons lets you set and forget. The rapid 4–6 minute cycle dramatically cuts turnaround time.
- Safety concerns with older autoclaves? The safety interlock, automatic pressure relief, and over-temperature protection make this Steam Sterilizer one of the safest options for busy clinics.
- Equipment downtime? The durable stainless steel build and simple design mean fewer repairs. And with global support network, spare parts are readily available.
- Training new staff? The intuitive touch-button interface and clear manual reduce training time. Optimum Solution also provides local training and online support.

Warranty & Support

We provide a 1-year manufacturer's warranty covering parts and labour. Technical support, installation assistance, and operational training are available. Replacement parts and consumables are available throughout the product's service life.

Call to Action

Request a Quotation or Technical Datasheet: Contact us for more information, customized configurations, and solutions tailored to your specific requirements.