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

Model **MSSTV-28HDSWISS, STV-28HD** | Brand **Master Science** | Unit **Pc**



Steam Sterilizer

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.

KEY HIGHLIGHTS

- Address Customer Pain Points
- Control System
- User Interface
- Door
- Heating

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Overview

This Steam Sterilizer combines Swiss-brand quality with proven engineering, offering a safe, efficient, and durable solution for busy laboratories.

The computer-controlled sterilization cycle means your staff can load the chamber, press start, and walk away. No constant supervision, no manual timing. This Steam Sterilizer handles the entire process, from heating to depressurization, with a buzzer reminder when finished.

In busy clinics, every minute counts. The immersed heating tube and optimized chamber design deliver some of the fastest sterilization times in its class, so you can process more instruments without buying a second unit.

The hand wheel quick-open door with self-expanding seal and safety interlocking device prevents opening under pressure. The safety valve opens automatically at >0.24 MPa, and over-temperature/over-pressure protection adds another layer of security.

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.

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.

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.

Key Benefits

RAPID 4–6 MINUTE CYCLES BOOST THROUGHPUT

- Safety interlock and automatic pressure relief protect operators
- Durable stainless steel construction ensures long service life

COMPACT VERTICAL DESIGN FITS TIGHT SPACES

- **Address Customer Pain Points**

Key Features

150 °C

- **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
- **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

Technical Specifications

PARAMETER	SPECIFICATION
Chamber Volume	28 L (φ270 × 500 mm)
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
Safety Valve	Opens automatically when internal pressure >0.24 MPa
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

Standard Accessories Included

- 490 × 480 × 760 mm
- 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)
- 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
- 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 <80% non-condensing
- Clearance: at least 200 mm on all sides for access and safety