Horizontal Autoclave - Class N Jacketed Steam Sterilizer - 150L to 400L - 138°C Touch Screen

Model **MSSTH-N150DSWISS, MSSTH-N200DSWISS, MSSTH-N300DSWISS, MSSTH-N400DSWISS** | Brand **Master Science**





The Master Science Horizontal Jacketed Autoclave is a large-capacity floor-standing steam sterilizer for hospitals, pharmaceutical plants, research institutes and production labs that process big batches every day. It is offered with 150 L, 200 L, 300 L and 400 L chambers, each with a circular inner chamber surrounded by a steam jacket for heat retention and drying.

KEY HIGHLIGHTS

- Large batch capacity
- Proven sterilization
- Complete records
- Secure door

AT A GLANCE

150°C	115 to 138°C
DESIGN TEMPERATURE	WORKING TEMPERATURE

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

A touch-screen HMI and microcomputer handle programme selection, parameter setting, operation and reporting. Sterilization is controlled by both F0 value and temperature-time, and every cycle can be printed or exported by USB, giving the Master Science Horizontal Jacketed Autoclave full traceability.

High-throughput facilities outgrow small sterilizers quickly. The Master Science Horizontal Jacketed Autoclave addresses:

Key Benefits

Large batch capacity
Chambers up to 400 L handle carts of instruments, linen, media and waste in one run.

Proven sterilization
F0 value control together with temperature-time monitoring supports consistent results.

Complete records
Built-in printer and USB export store data for each cycle.

Secure door
Disc-type embedded gear door with electric lock and pneumatic seal.

For smaller benchtop loads, see the Class B pre-vacuum autoclave 35L and 50L.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSSTH-N150DSWISS, MSSTH-N200DSWISS, MSSTH-N300DSWISS, MSSTH-N400DSWISS
SKU	MSSTH-N150DSWISS, MSSTH-N200DSWISS, MSSTH-N300DSWISS, MSSTH-N400DSWISS
Brand	Master Science
Models	MSSTH-N150DSWISS (150 L), MSSTH-N200DSWISS (200 L), MSSTH-N300DSWISS (300 L), MSSTH-N400DSWISS (400 L)
SKU	MSSTH-N150DSWISS, MSSTH-N200DSWISS, MSSTH-N300DSWISS, MSSTH-N400DSWISS
Design Pressure	-0.1 to 0.3 MPa
Design Temperature	150°C
Working Pressure	0.23 MPa
Working Temperature	115 to 138°C
Temperature Equilibrium	< ±2.0°C
Vacuum	-0.086 MPa
Water Pressure	0.1 to 0.2 MPa
Compressed Air Pressure	0.4 to 0.7 MPa
Steam Pressure	0.3 to 0.7 MPa

DIMENSIONS & WEIGHT	
Chamber Size (Ø × L)	150 L: Ø472 × 880 mm; 200 L: Ø472 × 1150 mm; 300 L: Ø620 × 995 mm; 400 L: Ø620 × 1320 mm
Overall Dimensions (L × W × H)	150 L: 1260 × 690 × 1740 mm; 200 L: 1490 × 690 × 1740 mm; 300 L: 1400 × 850 × 1760 mm; 400 L: 1680 × 850 × 1760 mm

POWER	
Steam Consumption	150 L: ≤13 kg; 200 L: ≤15 kg; 300 L: ≤20 kg; 400 L: ≤25 kg
Water Consumption	150 L: ≤30 kg; 200 L: ≤35 kg; 300 L: ≤40 kg; 400 L: ≤45 kg
Power	150 L: ≤18 kW; 200-400 L: ≤23 kW
Power Supply	Three-phase five-wire AC 380 V, 50 Hz

PROBLEMS THE MASTER SCIENCE HORIZONTAL JACKETED AUTOCLAVE SOLVES	
Too many small cycles	Large chambers reduce the number of runs needed each day.
Wet loads	The steam jacket and drying function help deliver dry packs.
Gaps in documentation	Printer and USB records give a complete audit trail.
Door safety concerns	An electric lock and pneumatic seal keep the door secure under pressure.

Applications

The Master Science Horizontal Jacketed Autoclave is designed for: Hospital central sterile supply departments Pharmaceutical and biotech production Large microbiology and research laboratories Sterilization of linen, instruments and culture media in bulk Decontamination of large volumes of laboratory waste

Chamber and Door

- Horizontal circular inner chamber with steam jacket
- Heat preservation and drying function
- Disc-type embedded gear door with electric lock
- Pneumatic door seal

Piping

- SUS 304 stainless steel pipeline
- Clamp connections for quick assembly
- Standard equipment validation interface

Control System

- HMI touch screen with microcomputer
- F0 value plus temperature-time control
- Programme selection, parameter setting, operation, reporting and traceability
- Built-in printer and USB function

Safety

- Over-temperature protection
- Over-pressure protection

Standard Accessories Included

- Autoclave main unit with built-in printer

Optional Accessories

- Air compressor (about 40 L) for door sealing, if no compressed air supply is available