# 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