



VS M Series

Steam Disinfector
Autoclaves for
Mattresses



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Customization. Innovation. Excellence.

Driven by customer needs

Steelco is a leading infection control solution provider, supplying the healthcare, laboratory research and pharma sectors. Active in over 100 countries, Steelco has equipped numerous world renowned hospitals and counts among its customers household names in the laboratory, pharmaceutical and industrial sectors.

Driven by customer feedback, Steelco develops, manufactures and supplies solutions that maximize infection control, safety, optimize processes and minimize costs. Already a leader in innovation in areas such as automation, the integration within the Miele organization has provided additional boost in technological development.

Steelco provides technical service and user training courses at the Steelco Academy as well as at customer sites. Our optional remote diagnostics capabilities and worldwide team of factory trained engineers ensure that you receive the service support you need to cost effectively maximize the uptime of your equipment.



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Steelco VS M series Steam Disinfector Autoclave for Mattresses

Steelco VS 36 M and VS 48 M are pit mounted, horizontally sliding door steam autoclaves for healthcare thermal disinfection of non-invasive and non-critical medical devices such as mattresses and pillows.

With proven and reliable high performance steam disinfection technology, this Steelco autoclave's chamber is made of AISI 316L stainless steel with a full jacket system for even steam/heat distribution.

Disinfection programs covering the A, B and C range of effectiveness, specially developed for a fast and effective bed reconditioning process.

Cycle traceability through integrated printer or network connection. Dedicated loading trolleys for mattresses, pillows and quilts.

Steelco steam autoclave VS M series meet the applicable requirements of the following standards: • 93/42/CEE e s.m.i. • 2006/42/EC (MD) • 2014//30/UE (EMC) • 2014/68/EU (PED) – only E models.

Medical Device Directive 93/42/EEC: • Machinery Directive 2006/42/EC • Safety requirements - Requirements for disinfectors used to treat medical materials in health care or in laboratory, veterinary, pharmaceutical and laboratory fields EN IEC 61010-1 (General Requirements): 2011 and EN IEC 61010-2 - 040 2016 • Steam disinfectors requirements ISO 15883- 1:2014 and 15883 6:2015 • EMC requirements - General requirements for measurement, control and laboratory use EN 61326-1:2013 and IEC 61 326-1:2005.



VS 36 M



Single or double automatic sliding door/s

Overall Dimensions WxDxH
2960 x 2914 x 1950 mm

3231 litres useful capacity

- up to 7 BA (according to DIN 58949)
- up to 10 mattresses 120mm h
- up to 12 mattresses 100mm h



VS 48 M

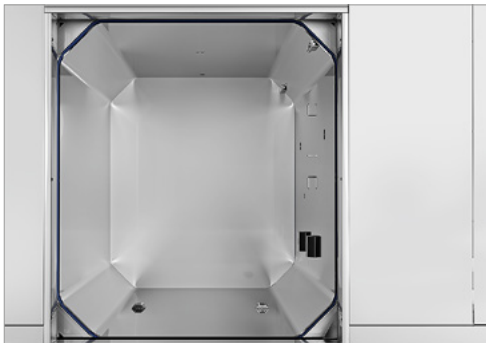


Single or double automatic sliding door/s

Overall Dimensions WxDxH
2960 x 2914 x 2500 mm

4653 litres useful capacity

- up to 10 BA (according to DIN 58949)
- up to 15 mattresses 120mm h
- up to 17 mattresses 100mm h



Safety, design and strength

The rectangular design chamber minimizes dead space for optimal loading and throughput. The best possible jacket covering ensures fast heating and reducing cycle times and areas of potential condensation.

High-quality AISI 316 L steam process circuits are a guarantee of long-term reliability and steam cleanliness.

Safety & Performance coming together



Process Quality Focus

VS M sterilizers improve processes in terms of safety and quality of performance with advanced features including:

- Separate direct injection of steam in to the chamber and jacket for optimal disinfection results and safety. Door gaskets are operated with compressed air.
- high efficiency heat transfer jacket system.
- Certified as Medical Device.



Optimized Process Speed

A built in Uninterruptible Power Supply unit (UPS) is also available as a "save the cycle" option allowing up to 5 minutes of continuous operation of the control system in the event of a power failure.



Layout Optimization Solutions

New chamber that allows installation in pits starting from 150 mm.

Simplified reassembly thanks to the plug and play technology given by the new layout of the pre assembled piping mounted inside a skid.

The control panel and Service access can be configured on the right or on the left side of the chamber.



Efficiency & Sustainability coming together



Condensate heat recovery system to be used as feed for the steam generator.

ECO CD Standard solution. The system consists of a tank that collects both chamber and condensate drains cooling by city water.

ECO EVO water saving system for vacuum pump. The system consists of a tank that collects both chamber and condensate drains. Collected water is recirculated to feed vacuum systems and cooling by city water.

Accessories

Loading trolleys for mattress, pillows, quilts made of AISI 304 with inserts and accessories for a versatile load.

Loading ramp when the autoclave is installed out of the pit (150 mm)



Flexibility & Control

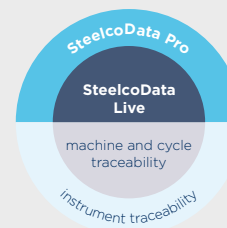
The large frontal 7" touchscreen control panel facilitates device control with bright, easy-to-read information even from a distance: an intuitive and practical aid for operators in their daily tasks. In addition, the well-thought-out and user-friendly design is consistent throughout the portfolio of Steelco devices, supporting intuitive operation and reliable processes.

- + **A user friendly interface**
- + **Cycle data storage**
- + **User access levels**
- + **Technical service mode**

The software has the followings programmes:

- 3 test/service program (warm-up and vacuum test and optional warm-up+vacuum test)
- 3 working programmes including those with A, B and C range of effectiveness, with temperatures 75°C (optional) and 105°C (standard) specially developed for a fast and effective bed reconditioning process
- 8 programmes can be customized according to the customer's needs. The parameters of each cycle are programmed to run through each phase automatically.

SteelcoData Live & Pro Management & traceability system



To ensure the availability of the right instruments in the right place at the right time, reprocessed to the correct standard in the minimum amount of time, and the lowest cost consistently.

Reliability & Serviceability coming together

Top quality materials, devices made to last!

The sterilization chamber as well as the steam process piping are made of high quality AISI 316 L stainless steel, a guarantee for long-term reliability and steam cleanliness.

The acid-proof stainless steel chambers and piping are fully insulated with a CFC-free thermal insulation that is covering easy to remove and to refit in case of service needs. With ease of service in mind, most piping is connected using stainless steel tri-clamps and main components such as the vacuum pump are installed on sliding rails.

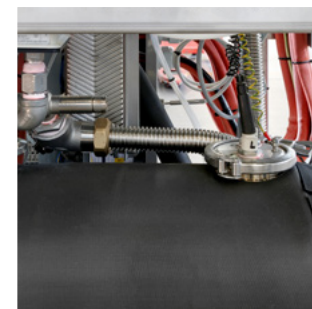
Effective steam sterilization requires correct water quality

A proper water quality also helps to prevent the deposition of contaminants such as limescale and prolongs the life of the sterilization device. Steelco offers a wide range of water treatment options for different sized facilities: water softeners, RO and DI water systems, water chillers.

Minimized encumbrance and service requirements

VS series steam sterilizers are designed for easy service via the hinged door on loading side which opens completely and/or the removal of side panels allowing the access to all the components.

Maintenance of this range of devices is streamlined, highly simplified and cost effective.

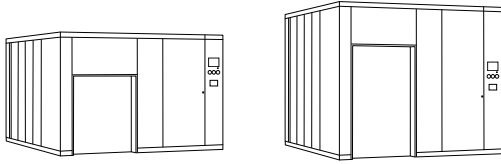


Steam feeding options

Steelco VS M devices are available for direct external clean steam supply (type “V”) as well as with multiple choices of built-in or remote steam generators:

- electrically heated (type “E”) • indirect steam heated connected to an external industrial steam supply (type “I”)
- combining the external steam source with a steam generator to activate as back up solution (type “E/V”, “I/V”).

Capacity and Dimensions VS M Series



Model	Chamber (WxHxD) - mm			Litres	Overall (WxHxD) - mm		
Double door models							
VS 36 M	1100	1250	2350	3231	2960	1950	2914
VS 48 M	1100	1800	2350	4653	2960	2500	2914

Technical Data Components and versions

Chamber and door

Sliding door opening (horizontal) left or right

Chamber jacket in AISI 316 L

Chamber and door in AISI 316 L

Chamber and doors polish finishing

Chamber and process pipes fine satin finishing (2 µm)

Chamber gaskets inflated by compressed air

Technical area

Configuration Left or Right technical area

Front access for service

Process Quality

Thermocouple fitting

Pipework for testing clean steam quality - in compliance with EN 285

Control system and traceability

7" touch screen HMI

Barcode reader for cycle parameter recognition

Integrated printer

Ethernet port

5 minutes power save UPS (Uninterruptible Power Supply)

Process cycles

A, B, C working programs at 105°C

A, B, C working programs at 75°C

Test/service programs: warm up, vacuum test

Nr. 8 custom programs: process needs to be validated under customer responsibility

Auto start function

Process monitoring

Double RTD temperature probe

Acoustic signal for "end cycle" and in case of alarms

ECO options

ECO CD - water saving, drain cooling

ECO EVO - water saving with chiller system

	VS 36 M	VS 48 M
Sliding door opening (horizontal) left or right	↔	↔
Chamber jacket in AISI 316 L	○	○
Chamber and door in AISI 316 L	●	●
Chamber and doors polish finishing	○	○
Chamber and process pipes fine satin finishing (2 µm)	●	●
Chamber gaskets inflated by compressed air	●	●
Configuration Left or Right technical area	L/R	L/R
Front access for service	●	●
Thermocouple fitting	○	○
Pipework for testing clean steam quality - in compliance with EN 285	○	○
7" touch screen HMI	●	●
Barcode reader for cycle parameter recognition	○	○
Integrated printer	●	●
Ethernet port	●	●
5 minutes power save UPS (Uninterruptible Power Supply)	○	○
A, B, C working programs at 105°C	●	●
A, B, C working programs at 75°C	○	○
Test/service programs: warm up, vacuum test	●	●
Nr. 8 custom programs: process needs to be validated under customer responsibility	●	●
Auto start function	○	○
Double RTD temperature probe	●	●
Acoustic signal for "end cycle" and in case of alarms	○	○
ECO CD - water saving, drain cooling	●	●
ECO EVO - water saving with chiller system	○	○

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