MST-H

Flexible steam sterilizer for maximum performance

Belimed
Infection Control

Designed for processing large volumes

The MST-H steam sterilizer contributes to workflow optimization, maximization of throughput and economical use of resources.

The large chamber of the MST-H with a volume of up to 18 StU permits the sterilization of large loads and thus a high throughput of sterile goods.

With a wide range of auxiliaries, the sterilizer is flexible to adapt to the needs of the CSSD. The optional connection to Hupfer systems allows an increase in workflow efficiency.

Model with one or two doors	Carrying capacity StU[1]	Chamber volume Liters	Chamber dimensions H x W x D (mm)	System dimensions H x W x D (mm)
MST-H 9-6-9[2]	9	761	1,080 x 660 x 1,058	1,970 x 1,700 x 1,374
MST-H 9-6-12[3]	12	1,006	1,080 x 660 x 1,398	1,970 x 1,700 x 1,714
MST-H 9-6-15[3]	15	1,228	1,080 x 660 x 1,706	1,970 x 1,700 x 2,022
MST-H 9-6-18[3]	18	1,449	1,080 x 660 x 2,014	1,970 x 1,700 x 2,330

[1] StU = Sterile Unit = 300 x 300 x 600 mm [2] Not for the US market, two door model only [3] Single-door model for the US market only

The chamber of the MST-H steam sterilizer is developed and manufactured in Switzerland.

Measurable quality and reliable processes

The chambers of Belimed sterilizers are manufactured exclusively in Switzerland and undergo stringent quality testing. They comply with all relevant standards and guidelines for pressure vessels. In this way, we guarantee the highest level of safety and quality.

No compromises in materials and workmanship

The requirements of our customers and the applicable medical device guidelines serve as our benchmark for safety and quality. The materials and components from leading manufacturers, combined with state-of-the-art production technologies, comply with the highest quality standards and ensure a long service life for the installations.

Safe, reliable and durable

MST-H sterilizers are designed for intensive use. The clever chamber construction, in combination with a stable door system, ensures consistently high reliability and a long life of the installations. The high-quality stainless steel piping throughout the device is extremely durable, resistant and mechanically stable.

Quality guarantees compliance with standards

Our sterilizers comply with all relevant guidelines and standards for medical devices, including EN 285 and EN ISO 17665-1. Production takes place under the control of the EN ISO 13485-certified quality management system.

Ease of operation and high quality of work

Minimization of error sources due to intuitive operation

The clear menu structure of the illuminated color display allows easy operation. The information on the display is also easy to read, even when viewed from an extremely wide angle.

Time saving due to automatic switch-on and switch-off

Thanks to the automatic startup, the heating and the daily test routine take place before the start of the shift. This significantly reduces working hours for the operating personnel and maximizes the total throughput of goods to be sterilized.

Shutdown of the sterilizer at the end of the shift saves valuable energy and can also be fully automated. Combined with automatic unloading, the last batch can also run without any operating personnel.

The automatic operation of the device can be customized flexibly to operator needs and optimally adapted to the personnel's shift plan.

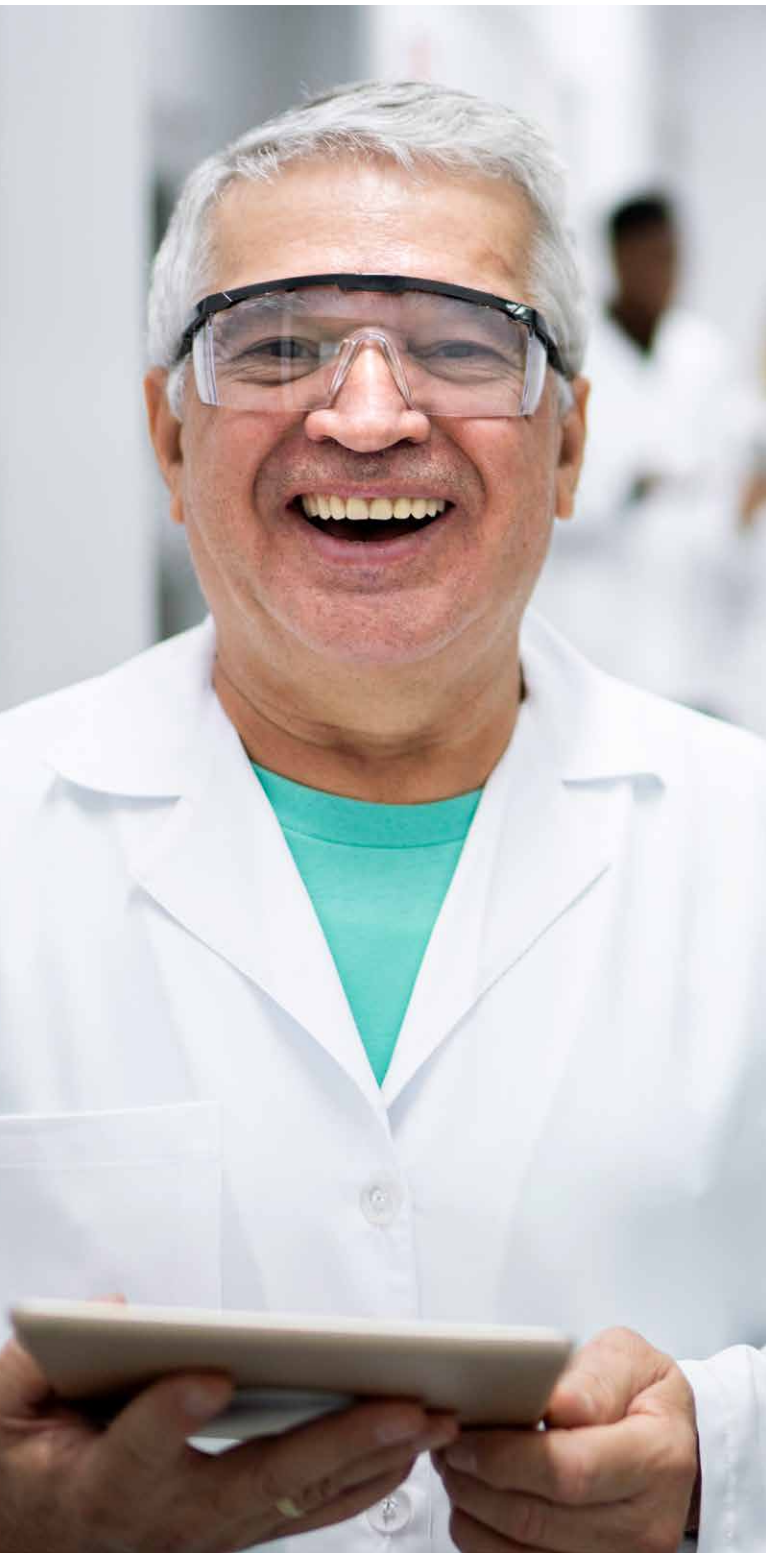
Hygienic design for perfect cleaning

The seamless stainless steel surface, combined with glass and high-quality HI-MACS® material, fulfills the highest hygiene requirements and permits efficient cleaning.

Process status visible from a distance

Important information, e.g. time remaining, readiness for loading and unloading, or warning messages, are displayed via the patented process status display.

Economical use of resources, efficient operation



Water-saving process technology

Thanks to Belimed process technology, the MST-H sterilizer achieves maximum efficiency. The innovative technology significantly reduces water consumption or permits a higher inlet temperature of the cooling water with corresponding energy saving. An additional reduction in consumption is achieved with the water-saving system of the integrated and extremely low-noise water-ring vacuum pump.

Efficient and safe handling with an integrated Bowie-Dick test

The electronic Bowie-Dick test can optionally be integrated into the sterilizer. This eliminates the need for manual operation with alternative test systems with chemical indicators as well as additional documentation. This contributes to high process reliability.

The test execution can be activated automatically and run fully independently before the start of the working day, which saves valuable time.

Durable door seal with 6 times longer service life

The full-silicone door seal with a milled precision sealing frame made of chromium-nickel steel 1.4404 has a significantly longer service life than comparable devices. Maintenance can be performed quickly and easily. The seal can be pressed out of the frame at the push of a button and inserted again by suction using the vacuum system.

Flexible and efficient loading and unloading

The versatile auxiliaries mean that the entire process chain and degree of automation of the sterilizer can be adapted to your individual needs – for optimal process flows

Automatic loading and unloading for optimized workflow

Automated elements for loading and unloading, as well as queuing sections, allow the sterilizer to be used continuously.

When using two half-batch carts, a shorter automated element can be used in combination with a transfer cart, which also saves valuable space.

No waiting for the final batch

Thanks to automated shutdown and unloading, the final batch is sterilized and transported out at the end of the shift.

Process optimization through compatibility with the Hupfer KÄNGURUH-SYSTEM®

Connecting the sterilizer to the Hupfer transport system means that the load no longer has to be reloaded after sterilization.

Wide range of auxiliaries

- Automatic loading and unloading systems
- Queuing sections
- Return sluices
- Return gates
- Transport logistics

Transparency and comprehensive documentation

Quick and easy: batch documentation with integrated printer

The key batch data is printed out with the printer integrated as standard. This fulfills the fundamental requirements of the documentation obligation without the need for additional software.

Compatible with any instrument tracking system (ITS)

Via the SmartHub, the successful completion of a sterilization cycle can be reported using highly configurable batch files with proven compatibility with the most popular instrument tracking systems on the market.

SmartHub for a fully digital CSSD

Belimed's SmartHub paves the way to a fully digital CSSD. It also ensures that all relevant data from each Belimed instrument is collected and stored in real time, either via an instrument tracking system or in the form of an easy-to-read PDF file. The duration and progress of the individual cleaning and sterilization programs and their program phases can be viewed via the dashboard at any time.

SmartHub
Powered by Belimed

Programs and technical data

The type-tested standard programs allow the sterilization of instruments, textiles and porous goods. We give particular importance to the safe handling of the goods, short batch times and optimal drying with the lowest consumption of energy and resources.

Extract from the standard programs

- Instruments, textiles 134 °C
- Instruments that are difficult to deaerate 134 °C
- Porous goods 125 °C
- Plastics 121 °C

Heat-up and test programs

- Heat-up program
- Vacuum test
- Bowie-Dick test
- Integrated Bowie-Dick test
- Function test integrated Bowie-Dick test

Model	Carrying Capacity StU[1]	Chamber volume Liters	Variants Regional availability		Chamber dimensions H x W x D (mm)	System dimensions H x W x D (mm)
			1 door	2 doors		
MST-H 9-6-9	9	761	–	available worldwide – excluding USA	1,080 x 660 x 1,058	1,970 x 1,700 x 1,374
MST-H 9-6-12	12	1,006	only available in the USA	available worldwide	1,080 x 660 x 1,398	1,970 x 1,700 x 1,714
MST-H 9-6-15	15	1,228	only available in the USA	available worldwide	1,080 x 660 x 1,706	1,970 x 1,700 x 2,022
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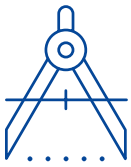
Belimed supplies systematic solutions

The MST-H steam sterilizer is the central device for efficient preparation processes in your CSSD. As Engineers of Confidence, we at Belimed go even further in our thinking and offer you perfectly coordinated planning, technology and service.



Belimed Blueprint

The planning and design team develops customized solutions for various needs, goals and space requirements – from analysis to installation.

Belimed Connect

Our digitalization portfolio enables us to guarantee seamless documentation of automatic cleaning, disinfection and sterilization thanks to complete connectivity.

Belimed Prevent™

With our service packages, we offer preventive maintenance and provide you with comprehensive support – for complete peace of mind.

Belimed Academy

The training we provide allows us to impart the knowledge our customers and partners require to get the most out of their CSSD.

Matching auxiliaries

Matching options, batch carts and auxiliaries provide you with even greater flexibility.

Overview of the MST-H

MST-H steam sterilizers allow maximum throughput thanks to their large capacity.

High flexibility and maximum throughput

- Capacity of 9 to 18 StU
- Efficient maintenance due to the large service area
- Optimal adaptation to customer needs due to a wide variety of options
- Standard preset sterilization and test programs, as well as other customizable programs

Simple, time-saving handling

- Convenient, simple operation
- Automatic start and standby function permits test programs to be run through before work is started
- Integrated electronic Bowie-Dick test reduces personnel, time and documentation complexity, as well as consumables
- Patented LED process status display provides an overview of key process information at all times

Economical use of resources

- Water-saving system integrated as standard with a highly efficient vacuum pump ensures low water consumption
- Water consumption can be reduced by a further 95% through optional connection to the building's cooling circuit

Full flexibility in the process chain

- Optimized processes without waiting times due to automatic loading and unloading systems
- Ergonomic transfer carts
- 1- and 2-door return elements, optionally with queuing section
- Compatible with Hupfer KÄNGURUH-SYSTEM®

Seamless connectivity

- Complete documentation of process data
- Digitally networkable via SmartHub
- Connection to dashboards for a clear display of current process steps on external monitors

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