

# Unisteri SL



Great technology  
Compact design

- Minimum space required
- High efficiency
- Easy installation

## □ Unisteri SL – Revolutionary Construction

The MMM proven compact steam sterilizer Unisteri SL with a chamber volume of 70, 160 or 250 liter now comes with a big touch screen, a new design of a hexagonal chamber and a maintenance-free door sealing.

This revolutionary new steam sterilizer is designed to meet the particular sterilization needs of surgeries, outpatient clinics, polyclinics, and central sterile supply departments (CSSD) for the efficient and economic processing of instruments, linen, heatresistant plastics and other medical devices.

### Conforming to standards

This state-of-the-art steam sterilizer complies with all relevant standards and guidelines and makes you feel confident: 93/42/ECC, EN 285, EN 61010, EN 61326-1. The processes can be validated according to EN ISO 17665.

### Easy installation

Installation sites such as day care or outpatient clinics often do not provide clean steam supply or demineralized water. Unisteri SL can be equipped with an highly efficient electrical steam generator and an integrated water treatment device. This makes the steam sterilizer independent from media supply on site. Costs for constructional preparation and installation are reduced to a minimum: Only a fresh water supply, an electrical outlet for high voltage, and a drain are required for installation.

### Easy operation

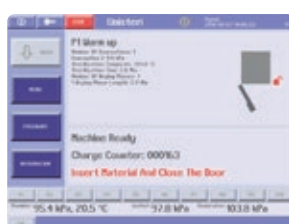
The ergonomic 8.2" colour touch screen of the compact sterilizer Unisteri SL excels in its ease of operation. The program menus are clearly laid out and self-explanatory. All information such as temperature and pressure course as well as remaining cycle time are shown during cycle run. For extra safety, the operator menu has four levels protected by different pass words allowing the authorized personnel to access all relevant parameter entries.

### New construction

The hexagonal form of the revolutionary chamber design of the size 336 is responsible for its high rigidity at less material use. Loading is much more comfortable now. The door is opened and closed manually with very little effort. Tight closing is supported by an electric motor.



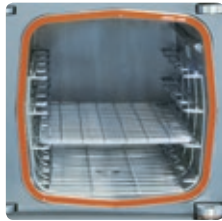
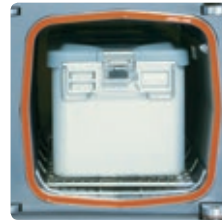
Program selection



Program information



Main menu

Chamber loading option:  
cartChamber loading option:  
shelvesChamber loading option:  
basketChamber loading option:  
containerHexagonal chamber and new  
door sealing profile

#### Safe sterilization

For a maximum of process safety, the steam pressure is controlled by absolute pressure transducers independent from fluctuations of the atmospheric pressure. The temperature course in the sterilization chamber is measured by PT 100 sensors. Each value measured is continually compared with the preset values stored in the control system in order to check for any deviation. A double set of pressure and temperature transducers, working independently from each other, ensure reliable control and recording of the process parameters.

#### Reliable process control and documentation

The double microprocessors of the control system ensure independent process control and parameter monitoring on the one hand and cycle recording and data documentation on the other. The cycle diagram and parameter information are displayed on the touch screen. By means of the MMM "Printer Archive" all data can be transferred to an external PC. The MMM tracking and tracing system EcoSoft allows you both to store and archive the data and also to print the batch file on an A4 printer.

#### Individual and flexible

Unisteri SL is available as single or double door pass-through unit. Pass-through machines can be integrated into a full scale sterilizer row of a CSSD. Depending on your site situation, you can choose between a built-in steam generator (ED) and a connection to an external steam supply (FD). Comprehensive accessories, various transport trolleys and individual chamber inserts allow for optimum versatility of the sterilizer to be adapted to different installation sites and customer specific sterilization needs.

#### Environment and service

Unisteri SL is extremely environmentally friendly: Low heat emission, low noise levels, and a reduced weight owing to the use of high quality plastics instead of steel, as well as an integrated water saving device. At the end of its lifetime, all essential components of Unisteri SL can be recycled.

Service is made comfortable, as the integrated self-diagnostics and service program allow for fast trouble shooting. All parts can be accessed easily.



## Equipment & Programs

### Standard equipment

- Single or double door
- Sterilization chamber, doors and chamber jacket are made of high quality CrNiMo steel (AISI 316 L)
- Chamber surface is ceramic blasted or polished
- Hexagonal chamber for high rigidity
- 5 sterilization programs, 3 test and service programs
- Integrated waste water cooling
- Integrated water saving device
- Self-diagnostics system
- Chamber loading by either inserts or rails
- Chrome-nickel steel sheet panelling
- High output water ring vacuum pump
- Polished chamber surface

### Options

- Electric steam generator with automatic desalting device, either 7.5 kW, 15 kW or 22.5 kW
- Loading accessories such as shelves and racks
- Customer specific program
- Chip card and chip card reader
- Loading cart (for chamber rails)
- Transport trolleys
- Integrated water treatment system
- Media monitoring
- Uninterrupted power supply for controller
- Automatic start

### Sterilization programs

#### P1 Warm up 134° C

Sterilizer preheating program

#### P2 Universal 134° C

For wrapped devices

sterilization time 7 minutes

#### P3 Universal Container 134° C

For wrapped devices with super drying

sterilization time 7 minutes

#### P4 Rubber 121° C

For wrapped devices made of glass, rubber or plastics

sterilization time 20 minutes

#### P8 to P20 Spezial

Programs according to specific requirements must be validated at the customer's!

### Test programs

#### P5 BD test 134° C

Steam penetration test

holding time 3.5 minutes

#### P6 Vacuum test

Air leakage test

#### P7 Service

Service program for easy control and maintenance





Model	Doors	STU	Outer dimensions (H x W x D mm)	Inner chamber dimensions (H x W x D mm)	Chamber volumes ltr
336	1	1	1500 x 600 x 800	320 x 320 x 625	73
336	2	1	1500 x 600 x 860	320 x 320 x 625	73
636	1	2	1720 x 690 x 967	670 x 350 x 700	160
636	2	2	1720 x 690 x 1022	670 x 350 x 700	160
559	1	*	1720 x 850 x 1247	509 x 509 x 990	250
559	2	*	1720 x 850 x 1302	509 x 509 x 990	250

Technical changes reserved.      \* The dimensions are not standardized for the sterilization unit (STU) / Pressure vessel designed according to ASME.

## Advantages

- suitable for all kind of sterilization material
- new hexagonal chamber for more stability and comfortable loading
- easy installation and operation
- independent from media supply on site
- complying with EN 285 and MDD
- cycles can be validated according to EN ISO 17665-1

## Loading options and accessories



### Chamber loading option:

baskets / container  
336: 010092451  
636: 010118244  
559: 010123703



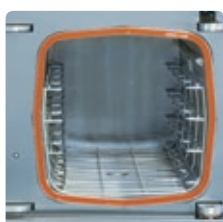
### Sterilization basket

336/636/559:  
010076189



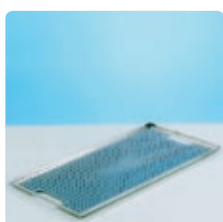
### Sterilization container

in different sizes



### Chamber loading option:

shelves  
336: 010092452



### Perforated shelf

636: 000161314  
559: 010124852



### Grid tray

336/636: 000161299



### Chamber loading option:

cart  
336: 010092446  
636: 010094336  
559: 010123265



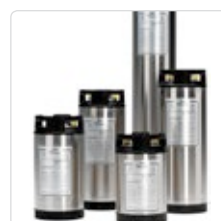
### Loading cart

1 shelf  
336: 000161402  
636: 010094354

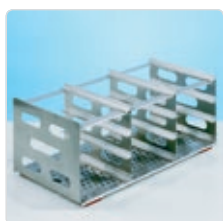


### Loading cart

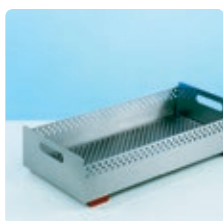
2 shelves  
336: 010076187  
636: 010094353  
559: 010123271



### Water treatment for demineralized water



**Loading cart**  
(dental-) cassettes  
336: 000161590



**Loading cart**  
liquids sterilization  
336: 000161925



### Transport trolley

336: 010092529  
636: 010094355  
559: 010123269



#### MMM Group

As one of the world's leading suppliers of sterile processing systems, MMM has been working actively to promote good health since 1954. With a full range of sterilization and disinfection products and services – that can be found in every branch of healthcare from hospitals and scientific institutes, to laboratories and the pharmaceutical industry – MMM, has over the years, consolidated its position as a pioneer of quality and innovation both in the German and international market.

In our two production facilities based in Stadlern, Germany, and Brno, in the Czech Republic, we manufacture products that meet the highest demands of our customers world wide. The depth and precision of production standards at both plants ensure that we accomplish the rigorous quality requirements of medical engineering. 900 competent employees work together as a committed and enthusiastic team, dedicated to achieving the mission of the MMM Group.

**Protecting human health.**

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