

SMS



Steam sterilizers



We are proud to present our new product catalog. Here you will find not only our well known devices but also our newest products created based on our extensive experience and opinions gathered from our customers all over the world

SMS was established in 1946. Our primary objective is to manufacture reliable and durable steam sterilizers. We also offer additional equipment for operating rooms, sterilization centers, clinics or medical and pharmaceutical labs. This equipment includes stainless steel furniture, steam generators, ultrasonic cleaners and small equipment for everyday use. Heat sealers and washer-disinfectors are available only as part of full department realizations.

Making products of the highest quality has always been our main goal. To ensure this SMS introduced a quality management system based on ISO 13485:2016 and ISO 9001:2015. Our attention to detail, from the design phase, through manufacturing, up to installation has been appreciated by many customers, making SMS a leading producer of steam sterilizers in Poland and several countries of the world. Each customer is treated individually and can count on our help and guidance every step of the way. Such an approach allows us to adapt the devices to specific technical and architectural requirements.

Devices offered by SMS comply with European standards. All sterilizers have necessary certificates and declarations such as the Certificate of Conformity with Medical Directive 93/42/EEC and the Certificate of Conformity with Pressure Directive 2014/68/EU. They also comply with EN 285 and EN 17665-1 standards.

Feel free to contact us with any questions and opinions.

Steam sterilizer SMS 100 100 liters

- Steam sterilizer with a built-in steam generator, horizontal chamber and post-cycle vacuum
- Fully automatic
- Common applications: reusable surgical instruments, surgical clothes and dressings, liquid infusions, rubber products and growth medium
- 13 sterilization and 2 test programs (vacuum test, Bowie & Dick test)
- Easy to use control panel on a legible 7" touch screen with a clear and informative graphic interface
- Essential components are made of AISI 316L stainless steel
- Sophisticated self-diagnostics system and extensive safety features
- built-in thermal printer



Our new medical 1 STU steam sterilizer, SMS 100, is a response to the market's demand for a compact and economical unit suited for small operation theaters, isolation wards, outpatient clinics, laboratories etc.

Thanks to user feedback and our expertise, we have created a small but versatile unit that is very user friendly. The basic medical unit can be tailored to any kinds of laboratory needs by adding necessary features.

The sterilization chamber, steam generator (boiler) and doors are made of AISI 316L grade stainless steel. Hand-polishing the inner surface of chamber lets us achieve an extremely high smoothness assuring a very high level of sterility. SMS 100 uses a fractionated (pulsed) vacuum process to completely removal air form porous areas of the load and for faster and more efficient steam penetration.

Key data and cycle phases are displayed on a 7" touch screen. It also allows users to show the current state of any internal component and valve in real-time. After selecting a desired program the sterilization process is completely automatic. The unit can be accessed remotely via Internet for troubleshooting or control. Data archiving is possible thanks to a built-in thermal printer.

The door is opened and closed manually using an effortless sliding mechanism. A complete safety system prevents it from being opened during the sterilization process or when doing so would be hazardous to the user.

A dedicated stainless steel cabinet is a highly recommended accessory. It gives the unit a very stable base, at the same time adding to its mobility. An air compressor, water purification system and other items can be kept inside.



Parameter	Unit	SMS 100
Chamber capacity	liter / STU	102 / 1
Chamber dimensions	mm	400 x 400 x 650
Overall dimensions - with cabinet	mm mm	845 x 730 x 935 845 x 1610 x 935
Sterilization temperature	°C	110 – 136
Electric power 3N~400V; 50Hz	kW	7
Weight	kg	150

Steam sterilizer AS 366

150 liters

- Single and double door versions
- Integrated steam generator or the means to use steam from an external source
- 18 sterilization and 2 test programs (vacuum test, Bowie & Dick test)
- Control system with a LCD touch screen interface
- Built-in dot matrix printer
- Automatic vertical sliding door
- Access control system with password protection
- Cooling water saving system
- Adjustment of process parameters
- Validation port
- The chamber, doors, jacket and housing are made of stainless steel
- Piping made of non-corrosive materials



CE 2014/68/EU
0353

CE 93/42/EEC
2274

Options:

- an additional temperature sensor located in the chamber (PT 100 sensor)
- HEPA exhaust filter

Additional equipment:

- sterilization basket 580 x 280 x 260 mm
- sterilization basket 580 x 280 x 130 mm
- loading cart
- transport trolley
- water purification system

Parameter	Unit	AS 366
Chamber capacity	liter / STU	150 / 2
Chamber dimensions	mm	330 x 660 x 694
Overall dimensions	mm	800 x 1900 x 975
Sterilization temperature	°C	110 – 136
Electric power 3N~400V; 50Hz	kW	2 or 20*
Weight	kg	600

* Sterilizers with an integrated steam generator

Steam sterilizers AS 44 series 100-150 liters

- Single and double door versions
- Integrated steam generator or the means to use steam from an external source
- 19 sterilization and 2 test programs (vacuum test, Bowie & Dick test)
- Control system with a LCD touch screen panel 7"
- Built-in dot matrix printer
- Automatic vertical sliding door
- Access control system with password protection
- Cooling water saving system
- Adjustment of process parameters
- Validation port
- The chamber, doors, jacket and housing are made of stainless steel
- Piping made of non-corrosive materials



CE 2014/68/EU
0353

CE 93/42/EEC
2274

Options:

- an additional temperature sensor located inside the chamber (PT 100 sensor)
- HEPA exhaust filter
- quick cooling system
- counter-pressure support system

Additional equipment:

- sterilization basket AS 446
585 x 365 x 170 mm
- sterilization basket AS 449
436 x 365 x 170 mm
- loading cart
- transport trolley
- water purification system

Parameter	Units	AS 446	AS 449
Chamber capacity	liter / STU	103 / 1	150 / 1,5
Chamber dimensions	mm	400 x 400 x 650	400 x 400 x 950
Overall dimensions	mm	800 x 1615 x 900	800 x 1615 x 1200
Sterilization temperature	°C	110 – 136	110 – 136
Electric power 3N~400V; 50Hz	kW	2 or 20 *	2 or 20 *
Weight	kg	460	500

* Sterilizers with an integrated steam generator

Steam sterilizer AS 66 series 300-400-600-700-800 liters

The AS 66 series of steam sterilizers has been designed in accordance with European standards. It uses standard sterilization modules (STE), 300 x 300 x 600 mm. Using these standards guarantees compatibility with transportation trolleys, storage units, cleaners and other equipment used in the central sterile supply department (CSSD).

The AS 66 is available in single and double door versions.



CE ^{2014/68/EU} 0353 CE ^{93/42/EEC} 2274

Characteristics:

The sterilizer chamber and heating jacket are made of high quality stainless steel (AISI 316L).

The vertically sliding door is made of high quality steel (AISI 316L) and is moved pneumatic actuator.

The sterilizer's housing is made of stainless steel (AISI 304) for longevity and easy maintenance.

The chamber is sealed with an active silicon gasket (more than 3000 cycles without replacement).

Vacuum drying is accomplished by a very efficient system comprised of a water ring vacuum pump and condenser.

The microprocessor controller assures a fully automatic and safe run of a selected sterilization programs.

The LCD touch screen displays the current state of the sterilization cycle, as well as available options and alerts.

Sterilization parameters are monitored by temperature sensors and pressure transducers.

All automatic components in the sterilizers come from leading manufacturers.

Detailed records of each sterilization process can be easily archived using the built in dot matrix printer. The printout contains information about the duration, parameters and phases of each activated program, as well as information regarding the pressure value and temperature inside the chamber sterilization. It also lists every emergency situations.

Options:

- an additional temperature sensor located inside the chamber (PT 100 sensor)
- HEPA exhaust filter
- quick cooling system
- counter-pressure support system

Additional equipment:

- sterilization basket
580 x 280 x 260 mm
- sterilization basket
580 x 280 x 130 mm
- loading cart
- transport trolley
- water purification system

AS 66 is also available as a pharmaceutical and laboratory version.

Key features:

- Counter-pressure support system
- Rapid cooling is achieved by using a water cooling jacket and can be enhanced by adding a heat exchange and a circulation fan inside the chamber greatly reducing cooling times
- HEPA exhaust filter
- Biological cross-contamination barrier
- Stainless steel piping

Parametr	Unit	AS 666	AS 669	AS 6612	AS6615	AS 6618
Chamber volume						
– double door version	liter	334	459	605	756	897
– single door version	liter	375	499	645	796	939
Chamber dimensions (width x height x depth)	mm	662 x 662 x 694	662 x 662 x 950	662 x 662 x 1250	662 x 662 x 1560	662 x 662 x 1850
Usable chamber volume / wall thickness	liter/mm	304 / 4	416 / 4	548 / 4	684 / 4	811 / 4
Capacity in sterilization modules (300 x 300 x 600)	STE	4	6	8	10	12
Overall dimensions						
width	mm	1170	1170	1170	1170	1170
height	mm	1900	1900	1900	1900	1900
depth – double door version	mm	970	1225	1525	1835	2125
depth – single door version	mm	1060	1315	1615	1925	2215
Sterilization temperature	°C	110 – 136	110 – 136	110 – 136	110 – 136	110 – 136
Electric power 3N~400V; 50Hz	kW	2,5 or 38,5*	2,5 or 38,5*	2,5 or 38,5*	2,5 or 56,5*	2,5 or 56,5*
Weight	kg	760	840	930	1030	1130

* Sterilizers with an integrated steam generator

WPT Steam generators

The WPT series of steam generators is designed to produce saturated steam. It is meant to be used as an external source of steam for our sterilizers.

WPT steam generators are also suitable to be used as the main or alternative source of clean steam in many industries including the medical industry, the food industry, the pharmaceutical industry and the veterinary industry.



CE ^{2014/68/EU} 0353

Characteristics:

- entirely made out of stainless steel
- microprocessor based control system

Options:

- increase the operating pressure – maximally to 0,6 MPa (temp. 165°C)
- automatic cleaning system

Additional equipment:

- water purification system

Parameter	Unit	WPT 108	WPT 162
Steam output	kg/h	108	162
Steam pressure	MPa	0,29	0,29
Steam temperature	°C	142	142
Overall dimensions	mm	1300 x 1335 x 820	1300 x 1335 x 930
Electric power 3N~400V; 50Hz	kW	72,5	108,5
Weight	kg	275	295

UMD 642 ultrasonic cleaner



The UMD 642 ultrasonic cleaner is intended for washing surgical instruments and other medical equipment in the central sterile supply department (CSSD).

The UMD 642 ultrasonic cleaner is designed as an independent washing unit, with a fixed connection to a water and sewerage system, a power supply and a compressed air source.

The manual washing side has a stainless steel sink equipped with a single-handle faucet with a pull-out sprayer and a washing gun. Additionally the gun has a set of 8 attachments which make it a very versatile tool for rinsing and drying. The ultrasonic washing chamber is made of stainless steel.

Combining a manual washing station and an ultrasonic chamber into one device makes the UMD 642 a very compact and complete preliminary cleaning unit that is a great addition in every CSSD.



Parameter	Unit	UMD 642
Chamber dimensions (W x H x D)	mm	600 × 400 × 250
Overall dimensions (W x H x D)	mm	1400 × 850 × 600
Working frequency	kHz	40
Temperature range	°C	20 – 80
Washing time range	min	0 – 99
Ultrasonic power	W	1000
Heating power	W	1600
Power supply	V	230 V, 50 Hz
Weight	kg	85

Laboratory steam sterilizer ASL series 60-80-100 liters



ASL 60 **CE**

ASL 80 **CE** 2014/68/EU 0353

ASL 100 **CE** 2014/68/EU 0353



ASL steam sterilizers are design to be fully automatic, reliable and easy to use. All models are available as a horizontal or vertical version. For greater convenience of use the horizontal unit comes with a dedicated cabinet.

Our laboratory steam sterilizers are intended for the sterilization of liquids in open and airtight bottles, tools, laboratory glass, growth medium, waste and other laboratory equipment.

ASL sterilizers are available in the following versions:

- B** Basic model
- M** Fast cooling system
- V** Vacuum pump
- MS** Fast cooling system + counter-pressure support system
- MV** Fast cooling system + Vacuum pump
- MSV** Fast cooling system + counter-pressure support system + Vacuum pump.

Additionally, each version can be equipped with a 0,2 µm HEPA exhaust filter (version+**FA**).

Characteristics:

- Cylindrical sterilization chamber made from stainless steel (AISI 316L)
- Horizontal and vertical models
- 20 sterilization programs
- In case of V, MV and MSV models 2 additional test programs (vacuum test, Bowie & Dick test)
- an additional temperature sensor located inside the chamber (PT 100 sensor)
- Reliable automatic door closing system with temperature safeguard – thermolock
- Temperature range 60 – 136°C
- Auto-start function
- Validation port
- Vacuum deaeration (V, MV, MSV versions)
- Automatic steam generator cleaning system
- Condensate cooling system ensuring safe dumping temperature

Parameter	Unit	ASL 60	ASL 80	ASL 100
Total chamber capacity	liter	64	84	104
Chamber dimensions	mm	Ø 413 × 460	Ø 413 × 610	Ø 413 × 760
Chamber capacity	liter	60	80	100
Overall dimensions (W x H x D)				
- horizontal model	mm	735 x 635 x 715	735 x 635 x 865	735 x 635 x 1015
- vertical model	mm	735 x 797 x 600	735 x 947 x 600	735 x 1097 x 600
Exposure temperature range	°C	60 – 136	60 – 136	60 – 136
Maximal load				
- instruments	kg	20	30	40
- textiles	kg	10	17	25
- fluids	liter	15	21	30
Electric power: 3N- 400V; 50Hz - heater power	kW	6	6	9
Weight	kg	160	170	180

Certificates



Notes

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