

SMS

www.sms.com.pl

STEAM STERILIZERS

Product catalog

We are proudly presenting our new product catalog. You can find there well known devices as well as our newest products created on the basis of our long experience and gathered opinions of our customers from all over the world.

SMS was established in 1946. The main area of SMS activity is manufacturing steam sterilizers. We are producing the devices in the heart of Warsaw in a newly equipped production line. We can also offer you additional equipment for operating rooms, sterilization centers, clinics or medical and pharmaceutical labs. Additional equipment includes stainless furniture, steam generators, heat sellers, washers – disinfecting machines, ultrasonic washers and small equipment used in everyday work of the listed facilities.

The quality of product is our trademark, thus SMS introduced a quality management system based on ISO 13485:2003 and ISO 9001:2008. Caring about the quality – from design, through manufacturing up to final service was appreciated by many customers, that is why SMS is a leading producer of steam sterilizers in Poland and several countries in the world. Each customer is treated individually and can count on our advice right from the design stage. Such approach allows us to adapt the devices to specific technical and architectural requirements.

Devices offered by SMS fulfill the requirements of European standards. The sterilizers have necessary certificates and declarations such as Certificate of Conformity with Medical Directive 93/42/EEC and Certificate of Conformity with Pressure Directive 97/23/EC. They also fulfill the requirements of norms EN 285 and EN 17665-1.

Our team of highly qualified and experienced employees is at your disposal for providing advice regarding the choice of appropriate equipment as well as in everyday service.

We encourage you to familiarize yourself with our equipment catalog in order to learn more about our company and how our products can help you in improving the everyday operations in medical, pharmaceutical and other industries. Also please visit our website www.sms.com.pl, where we present our full offer in sterilization and more.

We are awaiting your questions and opinions.

Steam sterilizer AS 366 150 liters

Characteristic:

- sterilizer with one or two doors
- steam supply from external source or from built in steam generator
- 18 sterilization programs and 2 test programs (leakage test and Bowie Dick test)
- microprocessor control with LCD - touch screen
- built in printer
- automatic sliding door
- three drying vacuum methods
- access password to menu
- reduce system of cooling water
- possibility to change of process parameters
- validation port
- chamber, doors, jacket, housing made of stainless steel
- piping made of stainless steel



Options:

- additional temperature sensor in chamber to sterilise the liquids
- HEPA filter

Additional equipment:

- sterilisation basket 580 x 280 x 260 mm
- sterilisation basket 580 x 280 x 130 mm
- inside cart
- transport trolley
- RO osmosis system

AS 366 - loading capacity of 2 STE

Best solution – for hospitals, medical centers and as secondary sterilizers for emergency cases at Operating Theaters.

AS 366 can be used in the pharmaceutical industry with additional options such as PT 100 sensor, fast cooling system, air support.

Parameter	Unit	AS 366
Chamber capacity	liters	150
Chamber dimensions	mm	330 x 660 x 694
Overall dimensions	mm	800 x 1900 x 975
Sterilisation temp.	°C	110 - 136
Electric power	kW	2 or 20 *
Weight	kg	600

* for sterilizer with steam generator

Steam sterilizers AS 44 series 100-150 liters

Characteristic:

- sterilizer with one or two doors
- steam supply from external source or from built in steam generator
- 18 sterilization programs and 2 test programs (leakage test and Bowie Dick test)
- microprocessor control with LCD - touch screen
- built in printer
- automatic sliding door
- three drying vacuum methods
- access password to menu
- port for connection of an external PC system
- reduce system of cooling water
- possibility to change of process parameters
- validation port
- chamber, doors, jacket, housing made of stainless steel
- piping made of non corrosive materials



Options:

- software for monitoring and archiving all parameters of sterilization programs
- additional temperature sensor in chamber to sterilize the liquids
- stainless steel piping
- HEPA filter

Additional equipment:

- sterilization basket 585 x 365 x 170 mm AS 446
- sterilization basket 436 x 365 x 170 mm AS 449
- inside cart
- transport trolley
- water treatment systems

The AS 44 series sterilizers are intended for steam sterilization of surgical instruments, operation linen, dressing materials, rubber products, metal and plastic dishes, glass, infusion liquids, microbiological cultures and nutrients. The sterilizers are used in hospitals, clinics, outpatient clinics, pharmacies and laboratories etc.

Parameter	Unit	AS 446	AS 449
Chamber capacity	liters	100	150
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
Sterilisation temp.	°C	110 - 136	110 - 136
Electric power	kW	2 or 20 *	2 or 20 *
Weight	kg	430	490

* for sterilizer with steam generator

Large Steam Sterilizers AS 66 series

CAPACITY 300-400-600-800 LITERS

The AS 66 series Steam Sterilizers have been designed in conformance with European standards, to be operate with standard charge units 300 x 300 x 600 mm.

Such standards are also complied with packing systems (baskets, trays, cans) and conveyance systems (inside carts and transport trolleys)

The AS 66 models with single and double doors.

Characteristic:

The sterilizer's chamber and heating jacket are made of high quality, stainless steel.

The chamber door is made of the same quality steel and it moves vertically with the help of a pneumatic motor.

The chamber is sealed by a movable steam-driven silicon gasket. The sterilization process can only be activated if the steam pressure under the gasket is adequate.

Air removal and drying are made possible by a very efficient system based upon using a steam separator, water-ring vacuum pump and a condenser.

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

The LCD - touch screen display changing data during the cycle of sterilization, as well as points to available options and alerts to any failures.

Sterilization parameters are controlled by resistance temperature sensors and piezoelectric pressure transducers.

All the automatic components in the sterilizers come from famous manufacturers.

Monitoring of a sterilization program is done by control and measurement monitors and by a printer.

The sterilizer's housing is made of stainless steel for easy maintenance.

Sterilization parameter printer gives a detailed record of each consecutive process. The printout contains information about the length of time and parameters for each selected program and all its phases, as well as about the pressure value and temperature inside the chamber during the cycle of sterilization. The printout also lists any emergency situations.



Additional Equipment:

- sterilization basket
580 x 280 x 130 mm
- sterilization basket
580 x 280 x 260 mm
- inside cart
- transport trolley
- water treatment systems

Options:

- software for monitoring and archiving all parameters of sterilization programs
- additional temperature sensor in chamber to sterilize the liquids
- stainless steel piping
- HEPA filter

The AS 66 Sterilizers can be tailor made to individual requirements. Unique construction solutions are SMS area of expertise. Any Client involved in purchase of a single sterilizer or furnishing the entire sterilizing plant can rely on the expertise and advice of our employees. All equipment ordered in our company is tailor-made to suit individual technical requirements and architectonic features; it is easy to operate, providing an easy access for maintenance.

AS 66 can be made for special pharmaceutical design. We provide You with different options:

- compressed air support
- rapid cooling system
- HEPA filter
- bio-barrier
- stainless steel piping installation

Technical specifications AS 66 series

Type	Unit	AS 666	AS 669	AS 6612	AS 6618
Total capacity of a sterilization chamber					
version : double door	dm ³	334	459	605	897
version : single door		375	499	645	938
Dimensions of usable space 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 1850
Usable capacity of a sterilization chamber	dm ³	304	416	548	811
Chamber capacity in standard load units (300 x 300 x 600)	STE	4	6	8	12
Sterilisation temp.	°C	110-136	110-136	110-136	110-136
External dimensions					
width	mm	1170	1170	1170	1170
height		1900	1900	1900	1900
version : double door		970	1225	1525	2125
version : single door		1060	1315	1615	2215
Weight	kg	850	1050	1250	1750
Electric power	kW	2,5 or 38,5*	2,5 or 38,5*	2,5 or 38,5*	2,5

* for sterilizer with steam generator

STEAM GENERATORS WPT



Electric steam generators WPT are designed to produce of saturated water steam. They were special designed as a source of steam for steam sterilizers.

They are also suitable as a main or alternative source of clean steam in medicine, food industry, pharmaceutical industry, veterinary industry, etc.

Characteristic:

- made of stainless steel completely
- automatic microprocessor control

Options:

- operating steam pressure 0,05 – 0,6 MPa
- steam temperature 110 – 164°C (depends on steam pressure)
- customize the unit for RO water supply

Product description:

- fully automated operation – microprocessor control
- units between 0.05÷0.6 MPa steam operating pressure can be manufactured with steam temperature dependent on operating pressure, possible range 110÷164 °C
- stainless steel boilers and housing

Technical specifications

Parameter	Unit	WPT
Steam output	kg/h	108
Steam pressure	MPa	0,29
Steam temperature	°C	142
Overall dimensions	mm	1300 x 1335 x 820
Weight	kg	310
Electric power	kW	72,5

LABORATORY STEAM STERILIZERS ASL SERIES

LABORATORY STEAM
STERILIZERMADE TO FIT YOUR
REQUIREMENTS

SMS sterilizers ASL series

Horizontal or vertical chamber

Eight different versions
for all your needs.

ASL steam sterilizer is intended
for steam sterilization of liquids,
laboratory glass, nutrient medium,
waste disposal or for different
laboratory equipment



Sterilizers made to fit your requirements:

- B** basic version
- M** first step to sterilize fluids, integrated rapid cooling system
- V** vacuum pump unit
- MS** rapid cooling system and compressed air support
- MV** rapid cooling system and vacuum pump
- MSV** full sterilization fluid unit, rapid cooling system, vacuum pump
and compressed air support
- + FA** outlet air filter type HEPA 0,2 μm

Sterilizer in all versions could be equipped with internal parameter printer CBM 920.

Product description:

- cylindrical, horizontally or vertically positioned sterilizing chamber
- 20 sterilization programs
- test programs (Bowie –Dick and leakage test)
- sterilization chamber preheated to 110°C
- additional temperature sensor in chamber to sterilise fluids
- adjustable main process parameters
- fully microprocessor controlled
- Koch apparatus function
- temperature regulation 60°C - 136°C
- auto start function
- air removed from the sterilization chamber with fractioned vacuum (V, MV, MSV versions)
- vacuum or pulse vacuum-blowing charge drying (through a sterile filter)
- chamber made of finest stainless steel 316L
- for the use of the sterilizer in safety laboratories a special steam exhaust filtration is available to protect the environment against emission of non sterilized micro organism
- averaged feed water consumption per cycle ca. 4 liters

Technical specifications

Parameter	Unit	ASL 60	ASL 80	ASL 100
Total chamber capacity	liters	64	84	104
Chamber overall dimensions	mm	Ø 413 x 460	Ø 413 x 610	Ø 413 x 760
Chamber capacity	liters	60	80	100
Overall dimensions (W x H x D)				
Horizontal version	mm	735 x 635 x 715	735 x 635 x 865	735 x 635 x 1015
Vertical version		735 x 800 x 600	735 x 945 x 600	735 x 1100 x 600
Weight	kg	160	170	180
Exposure temp	°C	60÷136	60÷136	60÷136
Max. load.:				
Tools	kg	20	30	40
Materials	kg	10	17	25
Fluids	liters	15	21	30
Electric power	kW	7	7	10

Consulting services

SMS offers consulting in the scope of selection of equipment to suit Clients's individual needs. Also assistance is available in designing complete central sterilizing plants or sterilizing departments in operation blocks, hospital departments, milk kitchens etc.

AS series sterilizers 366-44-66 at your request can be custom-made, with additional options such as rapid cooling, maintaining pressure, HEPA filters, biological barrier.

Quality

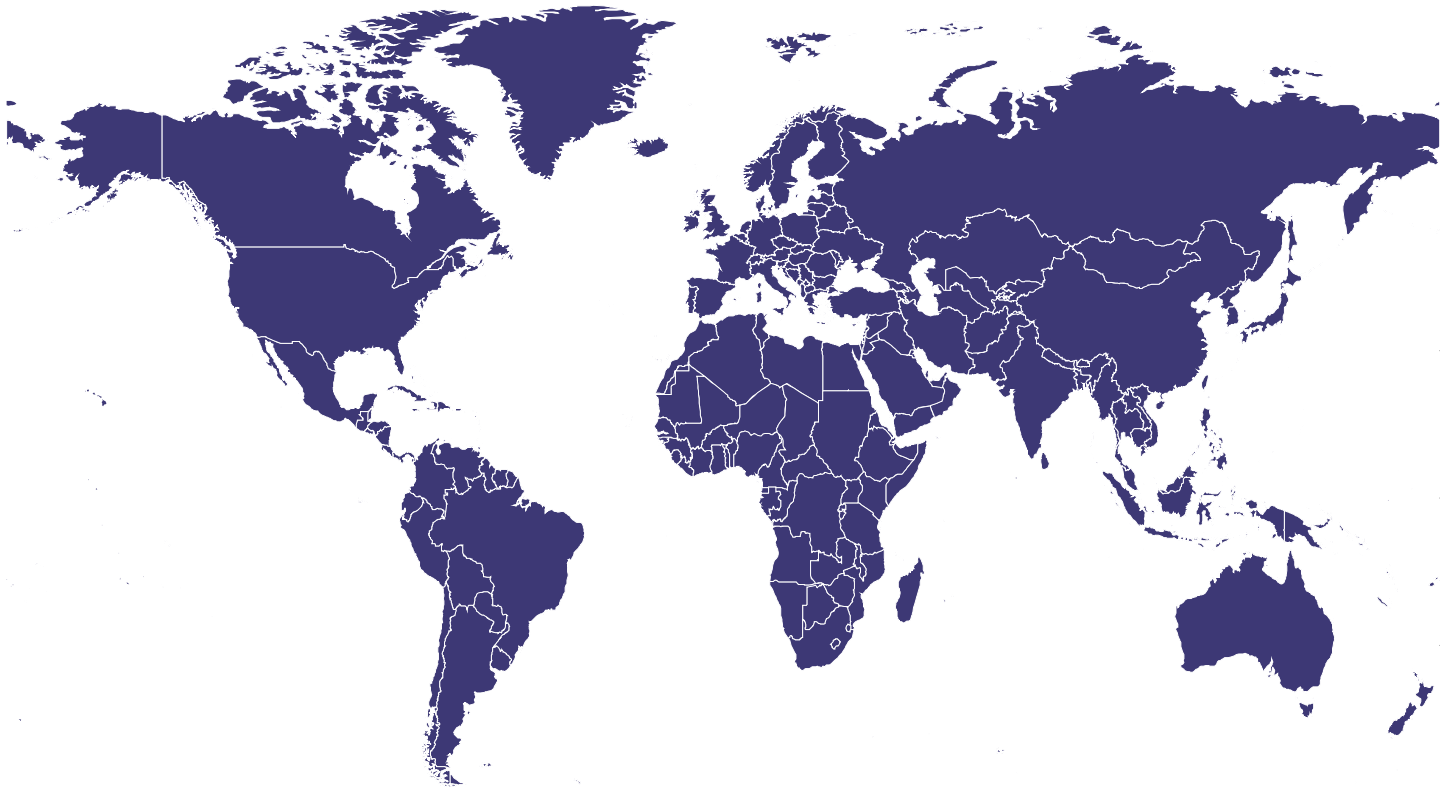
Sterilizers series AS 44 and AS 66 offered by SMS meets all requirements of valid Polish and European standards. The sterilizers have necessary certificates and approvals, such as the Certificate of Compliance with Medical Directive **93/42/EEC** and the Certificate of Compliance with the Pressure Directive **97/23/EC**. Also the **EN 285** and **EN 17665-1** standards are conformed with.

Sterilizers ASL 60 - 80 - 100 series Compliance with the Pressure Directive 97/23/EC.

The quality management system in accordance with **ISO 13485:2003**, **ISO 9001:2008**, implemented and maintained in the company, ensures highest quality of performance at any stage of activity: design, manufacturing, assembly and service.

SMS reserves the right to modify the products without any notice

notes:



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