

SMS

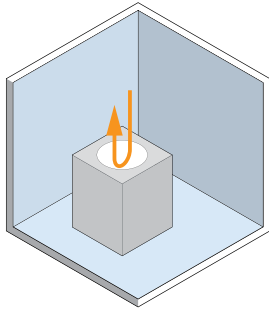
established in 1946



Specialized steam sterilizers

for all your laboratory needs

Chamber and door configuration

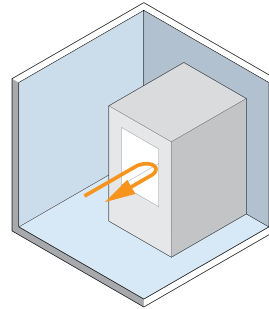


ASL

60L, 80L, 100L

Vertical,
cylindrical chamber

Hinged lid

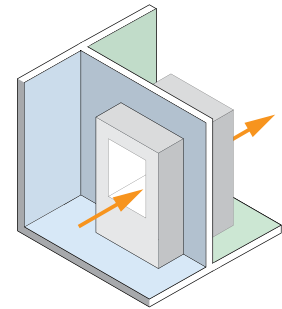


AS44 and AS66

100L - 600L

Horizontal,
rectangular chamber

Single door



AS44 and AS66

100L - 900L

Horizontal,
rectangular chamber

Double door

What can be sterilized

ASL

Basic

Fully equipped



Unpacked instruments



Packed instruments and glassware



Liquids in open, vented and closed containers



Solid waste



Liquide and porous waste



Biohazard materials

AS44 and AS66

Standard

Fully equipped



Unpacked instruments



Packed instruments and glassware



Liquids in open, vented and closed containers



Solid waste



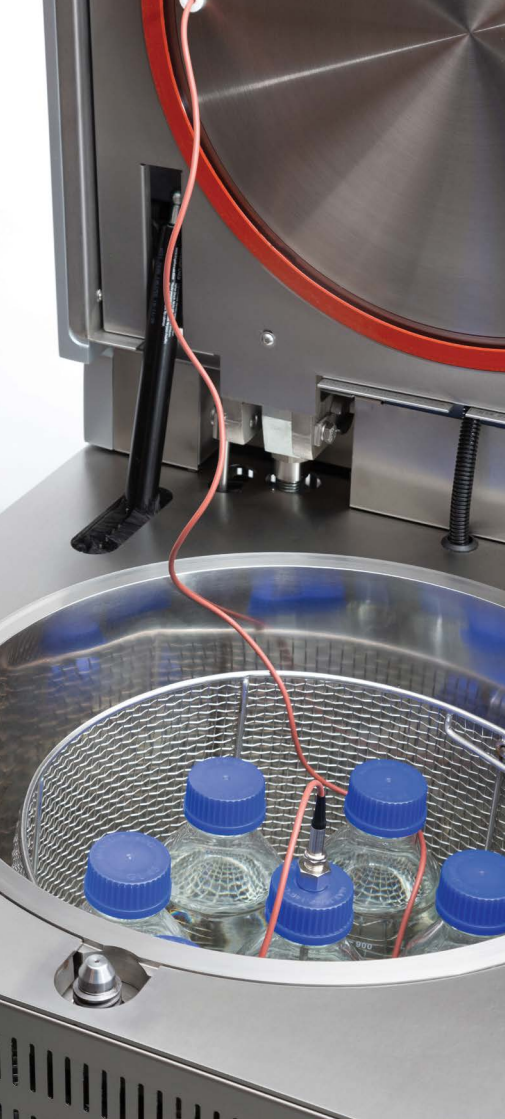
Liquide and porous waste



Biohazard materials

Cross contamination barrier

Barriers are the highest safety measure implemented in our **AS44** and **AS66** steam sterilizers. They are are tightly connected to the walls. Depending on the clients need they can range from air differential seals up to BSL3 bioseals.



Characteristics and additional features

	ASL	AS44	AS66
sterilization chamber, heating jacket and door made from stainless steel (AISI 316L)	●	●	●
frame and side panels made from stainless steel (AISI 304L)	●	●	●
an additional temperature sensor located inside the chamber (PT 100 sensor)	●	○	○
an automatic door locking system with a temperature safeguard	●	●	●
Fast cooling system	○	○	○
Vacuum system	○	●	●
Counter-pressure system	○	○	○
HEPA exhaust air filter	○	○	○
built-in stainless steel steam generator with an automatic cleaning system	●	●	●
plumbing made from noncorrosive materials / stainless steel	●/—	●/○	●/○
condensate cooling system ensuring a safe discharge temperature	●	●	●
control system with password protection	●	●	●
digital data collection	○	○	○
dot-matrix printer	○	●	●
compressor	○	○	○

● Standard ○ Option — Not available



Water quality

*water softener
and reverse osmosis systems*

To ensure proper steam generator operation and effective steam sterilization, purified water should be used (reverse osmosis water, distilled water etc.). SMS offers a wide range of water treatment solutions.

- Water softeners
- RO water systems

Clear-cut solutions for every type of load

Fast cooling system

The fast-cooling system significantly shortens the cooling time of the load in comparison to the basic version, thus reducing the sterilization time of loads, especially liquids. To prevent the loss of sterilized liquids the fast cooling system should be used together with the counter-pressure function.

Vacuum system

The use of a vacuum generation system increases the efficiency of air removal from the chamber and the interior of the load (fractionated vacuum). This enables proper sterilization and significantly shortens the heating time of materials, especially porous materials, hollow and packaged products. An additional advantage of the version with a vacuum system is the vacuum drying.

Counter-pressure system

During the cooling phase, compressed air is decontaminated by a HEPA filter. It is then supplied to the sterilization chamber, stabilizing the pressure in the chamber. The use of such a system limits the loss of sterilized liquids in open and vented containers and enables the sterilization of liquids in sealed containers.

HEPA exhaust air filter

When sterilizing contaminated materials all emissions from the chamber must be pathogen-free to keep the laboratory environment safe. To ensure this the sterilizer must be equipped with an exhaust air, condensate and filter sterilization system. The condensate is discharged into the sewage system only after the sterilization process has been successfully completed. The filter is sterilized in each sterilization cycle.

ASL

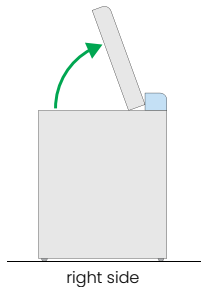
60L, 80L or 100L

Characteristics

- cylindrical sterilization chamber
- unique full jacket design ensuring more effective heating and cooling
- control panel with 20 sterilization programs
- versions with a vacuum system have 2 additional test programs (vacuum test, Bowie & Dick test)
- auto-start function
- Koch's steamer function
- agar liquefaction
- electric crane (option)



control panel location



Accessories

- KSV 1/1 – $\varnothing 360 \times 550$ mm, basket
- KSV 1/2 – $\varnothing 360 \times 275$ mm, basket
- KSV 1/3 – $\varnothing 360 \times 200$ mm, basket
- KSV 1/4 – $\varnothing 360 \times 140$ mm, basket
- PSV 1/2 – $\varnothing 375 \times 290$ mm, solid

When sterilizing liquids we suggest using the solid baskets at the bottom of the chamber

	60	80	100
Maximal load			
- instruments (kg)	20	30	40
- textiles (kg)	10	17	25
- fluids (L)	15	21	30
Overall dimensions			
- height (mm)	797	947	1097
- width (mm)	735		
- depth (mm)	600		

AS44

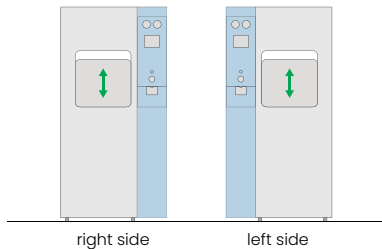
100L and 150L

Characteristics

- rectangular sterilization chamber
- automatic vertical sliding door
- control system with a color LCD touch screen panel 7"
- 19 sterilization and 2 test programs (vacuum test, Bowie & Dick test)
- cross contamination barrier (option)



control panel location



Accessories

- loading cart for baskets
- loading cart with two full metal shelves
- loading cart with two mesh shelves
- transport trolley
- AS446 sterilization basket 585 x 365 x 170 mm
- AS449 sterilization basket 436 x 365 x 170 mm
- sterilization container with lid

	AS 446	AS 449
Version		
- double door	•	•
- single door	•	•
Chamber volume		
- liters	103*	150*
Overall dimensions		
- width (mm)	800	
- depth (mm)	900	1200
- height (mm)	1615	

* Single door sterilizers have a 6 liter bigger capacity

AS66

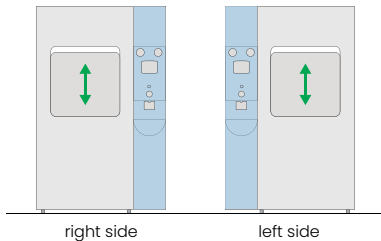
from 300L to 900L

Characteristics

- rectangular sterilization chamber
- automatic vertical sliding door
- control system with a color LCD touch screen panel 7"
- 19 sterilization and 2 test programs (vacuum test, Bowie & Dick test)
- cross contamination barrier (option)



control panel location



Accessories

- loading cart for baskets
- loading cart with two full metal shelves
- loading cart with two mesh shelves
- transport trolley
- sterilization basket 580 x 280 x 260 mm
- sterilization basket 580 x 280 x 130 mm
- sterilization container with lid

	AS 666	AS 669	AS 6612	AS6615	AS 6618
Version					
- double door	•	•	•	•	•
- single door	•	•	•		
Chamber volume					
- sterilization units (STU)	4	6	8	10	12
- liters	334*	459*	605*	756	897
Overall dimensions					
- width (mm)	1170				
- depth (mm)	970*	1225*	1525*	1835	2125
- height (mm)	1900				

* Single door sterilizers have a 40 liter bigger capacity and are 90mm deeper

About us



How it all began

SMS is a Polish company founded in 1946 under the name „Spółdzielnia pracy Mechaników Samochodowych S.M.S.". In the first few years we manufactured an assortment of small and medium devices, mainly for the healthcare and food industries.

The idea that made us who we are

In the 50's SMS found it's true calling – steam sterilizers. The first models had a vertical, cylindrical chamber and a hinged door that had to be sealed manually, using locking handles. As hospital sterilization departments started to be divided into zones a need for a new type of sterilizers appeared. In response we introduced new versions with horizontal, rectangular chambers and doors on both sides. Later the doors with manual locking mechanisms were upgraded to vertically sliding doors with an automatic sealing system. This is how the AS family of hospital steam sterilizers was born.



Only proven solutions for laboratories

The vertical, cylindrical chamber is a solid and reliable design, so we continued to develop this concept. Our ASL steam sterilizer family utilizes this idea and is a modern, innovative and very efficient range of sterilizers designed for laboratories and research facilities. This line of sterilizers consists of 6 versions suited for sterilizing different materials and has models in 60, 80 and 100 liter capacities.

Listening to our clients' needs we took the proven solutions from our ASL laboratory line and developed AS sterilizers in laboratory versions. They are meant for laboratories looking for big volume sterilizers offering capacities from 100 liters to 900 liters.

The future starts here

New and big ideas need more space. In 2018 we relocated our company to a bigger facility in Góra Kalwaria, just outside Warsaw. Here, the extra space let us install new, state of the art manufacturing machines and upgrade the ones we had, enabling us to redesign our product portfolio, expand it and implement new concepts. This signifies another great step towards offering you full solutions for laboratories, hospitals and other industries.

Standards and directives

Our steam sterilizers meet all necessary standards and directives and not less than below.

Europe

EN 285:2015 – Sterilization – Steam sterilizers – Large sterilizers

Directives

2014/68/EU Directive – Pressure Equipment

2014/35/EU Directive – Low Voltage,

2014/30/EU Directive – Electromagnetic Compatibility (EMC)

2011/65/EU Directive with amendment 2015/863 – on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS),

Pressure vessels and steam generator construction

WUDT/UC/2003 – Pressure devices

Quality System Compliance

EN ISO 9001:2015 – Quality Management Systems

Safety and EMC Standards

EN 61010-1:2010

EN 61010-2-040:2015

EN 61326-1:2013

EN ISO 4126-1:2013



How can we help?



Support



Documentation



Training




Spare parts



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