

made  
in  
Poland **SMS**



**ASL 60**  
**ASL 80**  
**ASL 100**

# **AUTOMATIC LABORATORY STEAM STERILIZER**



★ horizontal chamber  
dedicated cabinet for unit



★ vertical chamber  
optional electric crane

ASL steam sterilizer is a modern, fully automatic, reliable and easy to use device.

Vertical and horizontal versions are available, horizontal one comes with recommended cabinet for greater convenience of use.

22 customizable programs for user and wide range of optional components and accessories make it universal and suitable for any need.

Main applications of our laboratory sterilizers are: liquids in open and airtight bottles, tools and instruments, breeding grounds, laboratory glass, waste disposal and other laboratory equipment.



# **SMS**

*since 1946*

**Sp. z o.o.**

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**Following versions are available:**

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



Fast cooling system significantly shortens the time required by load to decrease its temperature to set level after exposition. Safety and comfort of use are enhanced.

Vacuum pump efficiently removes air from chamber making room for steam. Sterilization process is much more effective. It also greatly helps drying the load.

Counter-pressure support provides compressed air to chamber to reduce loss of liquid due to its evaporation. It also allows sterilization of liquids in tightly closed bottles, preventing their damage or explosion due to pressure difference.

Each unit can be additionally equipped with HEPA exhaust filter (+FA option) and dot matrix (mosaic) printer for process documentation. Print-out from dot matrix printer ensures far greater durability than print-out on thermal paper.

**Features:**

- Cylindrical, hand-polished sterilization chamber with full jacket for heating and cooling
- Microprocessor-controlled, 20-22 available programs depending on model, LCD display
- Chamber pre-heating function
- Additional temperature sensor PT 100 for proper sterilization of liquids
- Automatic and extremely reliable door closing system by means of screw lock. Absolutely safe, easy and convenient to use - no physical force is required, maintenance-friendly.



- Extensive safety features: chamber overpressure valve; prevention of door opening when there is still pressure or too high temperature in chamber (hot steam security); steam generator and chamber overheating sensors.
- Sophisticated self-diagnostics system with error codes.
- Excellent quality stainless steel used for key components. Chamber, door and steam generator made of 1.4404 (316L); frame and casing made of 1.4301 (304). Piping and valves made of corrosion-resistant materials, mainly teflon.
- Validation port and communication port for external computer system
- Function of warming up and keeping load at any set temperature above 60 °C, including Koch apparatus function (100 °C).
- Efficient fast cooling system reduces water and energy consumption to necessary minimum.
- Steam generator quick self-cleaning after each cycle function ensures longevity and hassle-free operation of this module.
- Cooling down of condensate to safe temperature level before dumping to sewer system. Prevents damage to laboratory sanitation piping made of plastics.

*ASL sterilizers are completely designed and manufactured in Poland*

Parameter	Unit	ASL 60	ASL 80	ASL 100
Chamber capacity	liter	64	84	104
Chamber internal dimensions	mm	ø 413 x 460	ø 413 x 610	ø 413 x 760
Unit overall dimensions W/D/H vertical chamber horizontal chamber	mm	735 x 600 x 765 735 x 715 x 635	735 x 600 x 915 735 x 865 x 635	735 x 600 x 1065 735 x 1015 x 635
Weight	kg	160	170	180
Exposure temperature range	°C	60-136	60-136	60-136
Maximum admissible load				
instruments	kg	20	30	40
textiles	kg	10	17	25
fluids	liter	15	21	30
Electric power supply: 3N 400V 50Hz Modification for other voltage rating and for single phase is available on request	kW	7	7	10

**NOTE:**  
Steam generator of sterilizer has to be supplied with no exception with purified / demineralized water having necessary quality. Any breakdown or problem with the equipment caused by using non-conforming water will not be covered by warranty.