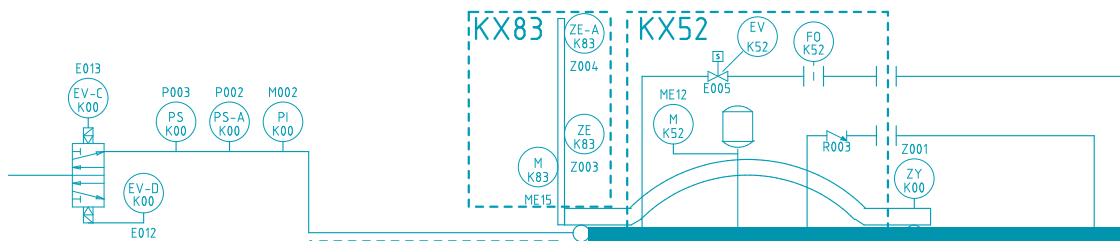


FVA/A1



where
technology
innovation
and design
come together

FVA/A1 saturated-steam sterilizer



www.fedegariautoklaven.ch

Fedegari's new FVA/A1 series of automatic vertical sterilizers has been expressly designed and developed to meet the most stringent application requirements in analytical and microbiology laboratories, research institutes, the pharmaceutical and food industries, and in the medical and hospital sector.



Lid that opens horizontally by pivoting laterally. Internal heat exchanger made of 316L stainless steel and fan for rapid cooling system - both integrated in the lid.



Sanitary diaphragm valve in 316L stainless steel with pneumatic actuator for maximum reliability and tightness.



Patented lid seal with compressed air system. Perfectly airtight, safe and extremely easy to maintain.



Swiveling locking wheels for simple positioning and easier moving of sterilizer.

innovation

The result of continuous commitment and investment in research and development of new technological solutions.

- Better performance thanks to faster and more efficient processes.
- Reduction in operating costs thanks to optimized consumption.
- PLC control system with wide touch-screen color videographic display for a simpler and more intuitive interface.
- New validated operating software for total control of functional parameters.
- Validation possible in compliance with the most stringent pharmaceutical standards (optional kit for CFR21 Part 11 conformity).
- Two different systems can be configured for sterilization of high-risk pathogens.
- MDD certification possible using optional kit conforming to EU medical directives.
- Ideal for operation in environments in compliance with GMP and GLP standards thanks to complete process documentation.



Graphic synoptic display



Graphic cycle display



- 11 standard sterilization programs
- Cycle easy to customize
- Interface for remote control via Ethernet protocol

reliability and safety

Reliability and safety as fundamental features of total service quality.

- A sterilizer meeting the most rigid standards of safety and quality according to current international standards.
- CE mark in conformity with EU directives.
- New materials that provide optimum insulation, both thermal and acoustic, and therefore smoother, quieter and safer operation.
- Perfect chamber tightness thanks to Fedegari's patented locking system with pneumatic seal.
- Locking system is operated with both hands in order to avoid risk of crushing fingers or other injury to the operator.
- Multilevel password for access to the controller as the ultimate safety guarantee.
- All structural and design components are manufactured, tested and inspected at Fedegari, where 100% quality control is guaranteed in compliance with VISION 2000 certification and ISO 13485.
- 10-year warranty on pressure vessels.



modularity

Flexibility and customization so that the machine can effectively satisfy very different application requirements.

- Customization guaranteed by an extensive wide range of options and accessories.
- Various configuration possibilities available to meet any required use or application.
- Long technological product life for increased benefit of the user.
- High level of programming and control versatility.
- Sharply reduced times for customization and upgrading due to innovative and unique modular design.
- Certified options and accessories to meet the user's quality standards.



Connection for testing and validation



Separate steam generator



Decontamination of exhaust air with sterile filter



technical specifications

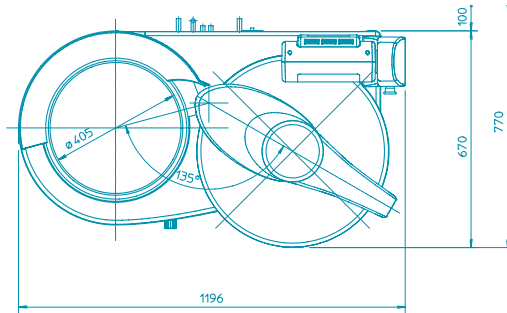
Customized processes based on Fedegari's expertise and experience with pharmaceutical applications involving industrial sterilizers.

- Fast high-efficiency cooling system.
- Programs for sterilization involving steam and air mixture.
- Pre- and post-vacuum, single or fractionated, with liquid-ring pump.
- Decontamination cycle for high-risk pathogenic wastes.
- Effluent discharge filtration kit for waste treatment with automatic filter sterilization.
- Safety device in compliance with TRB 402, thermal interlock to prevent lid opening.
- All sanitary pneumatic diaphragm valves and 316L stainless steel components.
- Electropolished chamber with mirror finish.
- High corrosion resistance and easy to clean.
- 316L stainless steel electric steam generator designed with automatic independent operation and control.
- Internal temperature distribution accurate to within 0.3°K.
- Precise and detailed documentation and IQ/OQ/PQ validation procedures.

	FVA2/A1	FVA3/A1
Useful volume (liters)	75	140
Type of chamber	Vertical, cylindrical section	
Lid closing system	Horizontal, with lid pivoting laterally and pneumatic seal	
Chamber diameter (mm)	400	500
Useful height (mm)	600	700
Weight (kg)	150	175
Loading height (mm)	875	875
External dimensions (mm)	1200 x 1305 x 600	1200 x 1305 x 600
Chamber material	AISI 316 L - Electropolished	
Maximum operating pressure	3.0 bar g	
Design pressure (chamber)	Vacuum / 4 bar g	
Design temperature	152°C	
Maximum sterilization temperature	140°C	
Power supply	400 V - 3 ph., 50 Hz + N + PE	
Installed power for basic configuration	0.2 kW	0.2 kW
Power with steam generator	6.5 kW	7.5 kW
Standards	PED 97/23/EC MDD (optional)	



Lid detail with protective thermal cover



design

An innovative and unique design concept that allows Fedegari to go beyond current bounds of avant-garde styling.

- Revolutionary, functional and attractive design.
- Extremely simple in design and user-friendly.
- Highly innovative components and materials.
- Accurate design of details, as befits a high-quality product.
- A machine designed to best represent the Fedegari spirit: high tech tradition and continuous innovation.

ergonomics

Designed to best meet customer needs by being simple and easy to use.

- Ideal positioning of operator's panel and printer.
- Unique lid opening and closing system that allows the lid to be moved without force for complete safety.
- Optimized loading height from floor.
- Loads can be lifted and moved automatically.
- Wide front door with safety lock for total and immediate access to the technical area.
- Versatile and sturdy castors for ease of installation and positioning.

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The Fedegari name is synonymous with technology, innovation and avant-garde design in the sterilization industry.

Fedegari Autoklaven AG was established in Lugano in the early 1980's and concentrated initially on the manufacture of small and innovative field sterilizers designed for the German army and for Swiss and German civil defense agencies.

Today the company has increased its involvement in the university and industrial research laboratory sector and is constantly developing, thanks to a facility dedicated exclusively to standard laboratory sterilizer production. Beginning in 2000, the company began to produce a new series of laboratory autoclaves.

The production facility in Bedano, which covers an area of approximately 3500 m², uses modern equipment and has qualified personnel for production, distribution, after-sales service and technical assistance.

Sales are handled by an international network of representatives and distributors, many of whom have been working with Fedegari S.p.A. for many years, which is a guarantee of reliability and competence.

