



NEW FOB5 SERIE TS[®]

Visible Quality and Constant Innovation



 **FEDEGARI[®]**
AUTOKLAVEN AG

NEW FOB5[®] SERIE TS FULLY AUTOMATIC HORIZONTAL HIGH PRESSURE STEAM STERILIZER

The **NEW Fedegari horizontal steam sterilizers FOB5 serie TS** are suitable for use in many different applications in Laboratory, Industry as well as in Healthcare sector as:

- Microbiology and Analytical Labs
- Laboratory Research and Examination Agencies
- Bio-Technologies and Life Sciences
- Animal care facilities and Test Laboratories
- Pharmaceutical, Food & Beverage, Chemistry and other industries
- QC Labs and small batches production
- Hospital operating Theatre and Medical Devices Facilities

Ideal use even in highly specialised fields and niche markets worldwide where safe, reproducible and validated processes are required.

FEDEGARI AUTOKLAVEN AG is pleased to present the new floor cabinet steam sterilizer **FOB5 serie TS** which combines excellent performances with first-class quality materials, safety and operating ease, economical consumption.

The **FOB5 serie TS** has specially designed with ergonomical features for easy handling of large volume sterilization treating materials and goods as:

glassware and plasticware, media preparation, liquids in open and sealed containers, mixed regular and biohazard wastes, as well as porous loads, packed instruments, textiles, rubber articles, etc. for hospital use.



Design/construction features

- Free standing single door or recessed with double doors for pass-through application.
- Vertical Automatic sliding doors, effortless pneumatically operated, for efficient use of Laboratory and Hospital space.
- 890 mm large chamber diameter for easy accommodation of internal loading equipment with optimal processing capability and throughput.
- Built-in, External or combined steam source.
- Internal high-efficiency jacket by 316L stainless steel plate heat exchanger for steam preheating/drying.
- High-tech chamber and doors system construction.
- Superior quality of materials with first class finishing and components all rigorously tested at Fedegari's, for long term reliability and process safety.
- Massive, long-lived pressure vessels PED certified, exclusive pneumatic valves and hydraulic components made of high corrosion resistant 316L stainless steel, sanitary grade.
- Unique doors closing system with patented pneumatic gasket seal for perfect airtight, safety and maximum reliability.
- Stainless steel fascia panels, easy openable for access.
- Ergonomic loading height, reduced external dimensions.
- Modularized process pipings and optional kits for easy upgrading and reduced servicing time.
- Special execution with single or double stainless steel sealing flange (BIOSEAL) for laboratory risk category L3 and L4 and operating theatre.
- Operation of the unit from both ends by operator panel and display fitted on loading and unloading sides.

MODEL	TYPE	NOMINAL CHAMBER VOLUME (litres)	CHAMBER DIMENSIONS Ø x D mm	OVERALL DIMENSIONS (W x H x D) mm	USEFUL CAPACITY litres / STE (t)
FOB5 - TS	1-door	650	890 x 920	1300 x 1950 x 1330	400 / 6
FOB5S - TS	2-door	670	890 x 1000	1370 x 1950 x 1410	430 / 6
FOB5/L - TS	1-door	837	890 x 1220	1300 x 1950 x 1630	530 / 8
FOB5S/L - TS	2-door	830	890 x 1250	1370 x 1950 x 1660	540 / 8

(1) 1 STE = 300 x 300 x 600 (mm)



Optional kits tailored to suit your technical and budgetary needs

All the models can be configured using various customised systems guaranteed by a wide range of process and software options and an extensive choice of accessories. The basic version of the sterilizer can be used for standard sterilization processes and is easy to configure, thanks to its design concept and modular construction, with series of interesting and exclusive optional kits, as:

1. Integrated 316L st. steel electric steam generator fully automatic with independent operation and control.
2. Pre and post-vacuum processes, single or fractionated with high-output water-ring vacuum pump.
3. Exclusive high-efficiency fast cooling module for liquid programs with magnetic propeller type fans.
4. Unique decontamination cycle for biohazard wastes.
5. **NEW** - sterilization program with complete cycle by steam / air - mixture in counter-pressure for delicate treatment of heat sensitive batches as blister packs, contact lenses, carpules, syringes, solutions in glass / plastic bottles or bags (PVC, PP, PE), etc.
6. Effluent exhaust air filtration kit for wastes Decontamination.
7. **NEW** - automatic in-line air filter sterilization program.
8. Options for compliance to **EN 285** and **HTM 2010**.
9. Run cycles archiving kit on USB key.
10. CMA-link Software for remote supervision and downloading to user PC, data archiving, A4-size printout with cycle diagram, synoptic graphic, etc.
11. Exclusive conformity kit to **CFR21 Part11** with Ethernet protocol interface.
12. Complete and detailed documentation with **IQ/OQ/PQ** validation procedures.



NEW FOB5[®]

- Improved performances thanks to more efficient and faster processings.
- Short batch times and optimum drying.
- Small overall dimensions for easy handling and installation in narrow area with reduced access.
- Ergonomic positioning of adjustable operator display and built-in process printer.
- Full and easy accessibility to technical area from the front and lateral side for service and regular maintenance.
- Wide variety of transport and loading trolleys, internal racks, shelves, trays and containers, customized solutions for individual needs.
- High level of programming and application flexibility with fully configurable cycles.
- Multilevel password management for authorized access only.
- Special standard test programs (i.e. Bowie-Dick, vacuum, pressure leak test, heating programs, air detector etc.) for routine check of sterilizer efficiency.
- **GMP / GLP** compatible data management offering full traceability and documentation meeting the most stringent worldwide safety and quality standards.



Main technical features

- Custom-made solutions and easy process upgrading for extended technological life of equipment.
- Energy and water cost-saving devices for optimal consumption.
- Supporting pressure system by compressed air for preventing media over-boiling during forced cooling.
- High-efficiency liquid ring vacuum pump system.
- Extra safety device in compliance with TRB402, thermal interlock to prevent door opening.
- Maximum precision and stability by flexible temperature sensors and pressure transducer for highest level of process accuracy and reproducibility.
- All sterilization cycles clearly documented by a compact built-in process printer or in graphic form with interface for PC connection.
- Data logger for independent process control and recording for redundant monitoring.
- Fully programmability: 14 standard sterilization programs from 105°C to 140°C easy to customize.
- Automatic delayed start-up and stand-by mode programmed for utility saving.
- **CMA** fully automatic controller with touch-screen colour video-graphic display for maximum using comfort and more intuitive interface.
- Operating software fully validated and documented to conform with the rigorous pharma standards for repeatable cycles and reproducible results.
- Exclusive new management software **CFR21 part11** capable with electronic signature, audit trail and data archiving with Ethernet protocol connection.
- Optional **MDD** certification and **CE Mark** according to European Medical Directive and EN285 / EN554 for hospital theatre use and medical devices.



COLOUR TOUCHSCREEN PANEL WITH GRAPHIC CYCLE DISPLAY



SYNOPTIC DISPLAY



CONDENSATE DRAIN COOLER AND VACUUM PUMP



DECONTAMINATION OF EXHAUST AIR WITH STERILE FILTER



SEPARATE STEAM GENERATOR WITH WATER FEED PUMP



DIAPHRAGM VALVES IN 316L STAINLESS STEEL WITH PNEUMATIC ACTUATOR



MODULATING VALVE ON FEED STEAM INLET



NEW IN-LINE AIR FILTER STERILIZATION KIT



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