

FLW: Lab Glassware Washing Unit



FEDEGARI
GROUP

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PROCESSES

Sterilization
Washing

Chemical
bio-decontamination
Contamination control
Dense-phase fluids plants

SPECIAL APPLICATIONS

Rotating sterilizers
Pharmaceutical closures
processing

COMPONENTS

Pressure vessels
Doors
Piping
Process controller
Wireless Sensors

ACCESSORIES

Un/loading conveyors
Customized racks

FLW: Laboratory Glassware Washing Unit

The NEW Fedegari FLW is a glassware washer for laboratories, capable of performing a complete washing cycle composed of the following phases: pre-washing, washing, rinsing, acid/chemical additives rinsing, purified/DI water rinsing, drying and cooling.

Thanks to its dedicated process controller and to its special design that allows steam injection directly in the chamber, this machine is suitable for use in many different applications such as:

- Microbiology and analytical labs
- Laboratory research and examination agencies
- Bio-technologies and life sciences
- Animal care facilities and test laboratories
- Cosmetics, food & beverage, chemistry and other Industries
- Quality control labs

Design/Construction Features



- Free standing single or double doors for pass-through applications with door interlocks
- Vertical automatic sliding doors, effortless pneumatically assisted
- Doors, chamber and piping components made of sanitary AISI 316L stainless steel
- All the critical components are manufactured in-house by Fedegari
- External cabinet made of AISI 304 stainless steel
- Ergonomic loading height
- Built-in steam generator (0.9 bar)
- No heating elements needed in the chamber
- Stainless steel (AISI 316L) modular internal rack with automatic connection to piping
- Total integration with the external trolleys of Fedegari FOB5 sterilizer

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- 3 internal tanks for acid/chemical additives (up to 5 tanks optional)
- Dedicated touch screen process controller
- Compliant with cGLP standards.

Technical Features

- Dedicated process controller with a wide range of customizable washing cycles
- All washing cycles clearly documented by a compact built-in process printer or in graphic form with interface for PC connection
- Multilevel password management for authorized access only
- USB port to allow data external backup
- Fully modular and customizable internal rack with nozzles to guarantee a perfect washing
- Dedicated probes to monitor the temperature of the air/water and of the steam in chamber
- Dedicated transducer to monitor the pressure of the circulation water
- Dedicated conductivimeter to detect the quality of drain water

Key benefits

- Steam generator reduces operational costs and improves washing performances.
- Eco-friendly solution: minimizes the use of detergents as well as water consumption.
- Energy saving thanks to the use of steam and the recirculation of the water.
- High level of programming and application flexibility with fully configurable cycles.
- Full traceability and documentation in order to meet the most stringent worldwide safety and quality standards.
- Sanitary components and CIP to ensure a perfect washing.



- Stainless steel (AISI 316L) spray arms and nozzles both in the rack and in the chamber walls
- Full sanitary recirculation pump for water
- Peristaltic precision pump for the injection in chamber of acid/chemical additives
- Visual and audible alarms
- Drying by means of HEPA filtered hot air
- Cooling by means of HEPA filtered ambient air
- Thermal disinfection cycle at 93°

The company reserves the right to update technical data without prior notice.