



# Decontamination Autoclaves

## Fedegari Equipment

- Saturated Steam Sterilisers
- Counterpressure Sterilisers
- UltraWashers
- Dry Heat Sterilisation
- Pathogen Sterilisers
- Combined Units
- Laboratory Sterilisers

- Low Temperature Surface Decontamination Stations
- Laminar Flow Carts
- Isolators and Cleanroom Contamination Controls

## SteriTech Limited

- Complete Turn-Key Projects
- Project management
- Commissioning, Validation
- After sales lifetime support

## Stilmas Equipment

- Pre-treatment
- Purified Water
- Multi Effect Still
- Vapour Compression Still
- Pure Steam Generators
- PS & WFI Combinations
- Storage & Distribution Systems

## Bano Equipment

- Stainless Steel Cleanroom Furniture
- Specialist Cleanroom Equipment

## SteriTech Limited

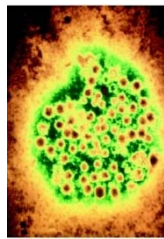
1 Oxted Chambers  
185 Station Road East  
Oxted RH8 0QE  
[www.steritech.co.uk](http://www.steritech.co.uk)

Fedegari Decontamination Autoclaves are based on the FOF range of saturated steam autoclaves. Thus they take full advantage of the capabilities of these technically advanced units and the wide range of chamber sizes/configurations available.

Sterilisation of general, non-pathogenic waste can be achieved with a Fedegari FOF unit without additional accessories. Sterilisation of Cat 1-3 pathogenic loads needs additional safety measures so nothing is discharged from the chamber unless sterile.



**Non-Pathogenic loads.** As standard, Fedegari FOF autoclaves are fully equipped to steam sterilise and thus decontaminate non-pathogenic porous loads, tubing, solid glass, plastic or metal items. Often these are presented as bagged, mixed waste; vigorous air removal by vacuum pump is an important capability. Large liquid loads necessitate jacket cooling.



Agents that are dangerous to humans (but for which treatments do exist) are designated as **Category 1-3 Pathogens**. Where the load is contaminated with these, special additional provisions are needed to safeguard operators:

- All air and steam discharged from the chamber is passed through a 0.2µ sterile filter.
- All condense is held in the chamber, with steam injected through it and its temperature monitored by a PT100 probe. Sterilisation is not deemed complete until this condense is also confirmed as sterilised
- A wider margin is imposed between maximum operating pressure and the limit set by the chamber pressure relief valve.
- Door opening consents are more stringent; operators cannot open the door unless the load has been successfully sterilised.



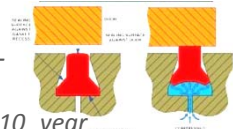
**Category 4 pathogens** can cause severe disease for which there is no effective treatment. available. These require specific designs and further specialist



## Design Features

Sterilisation conditions are controlled to the highest standards of accuracy, uniformity and stability

- *Advanced PID managed modulated control of chamber steam pressure*
- *High precision instrumentation. Pt100 four wire flexible, class 0.1, IEC751; Precision pressure transducer with separation membrane.*
- *All critical instrumentation loops subject to precise three-point calibration by the Thema 4 controller.*
- *Steam heated jacket extending over the whole chamber length.*
- *Reknown unique door seal system with solid silicone gasket – guaranteed for 4 years, the most reliable available*
- *Chamber, piping and control valves from AISI316 s/s, 10 year pressure vessel guarantee.*



## Thema 4 Control System

All Fedegari pharmaceutical autoclaves are supplied with the advanced Thema 4 Controller. This embeds the sterilisation knowledge they have built up over 50 years, see the fact sheet "Fedegari Process Control". The system includes a set of processes specifically designed for pathogen containment cycles.

## SteriTech/Fedegari Customer Support

SteriTech and Fedegari offer customers full technical support, both during projects, then after-sales support for the lifetime of the equipment lifetime.

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