

DRY-HEAT STERILIZERS
FOD ISO 5 - class DHSs

Powered by Thema4 process controller



R&D collaboration with



FOD ISO 5 - class DHSs

Fedegari Dry-heat Sterilizers (DHSs) are the most performing and cost-effective solution to discontinuous sterilization/depyrogenation requirements in the pharmaceutical industry.

FOD ovens operate with a batch process and are designed for treating different solids such as glassware, machine parts and stainless steel tanks and containers. In general, they represent the ideal solution for any production when the variability of products, batches and formats does not allow the use of continuous sterilizers, such as tunnels.

The most notable features of the FOD ovens are extreme temperature uniformity, regardless of dimensional variables, and low particulate contamination. Fedegari can ensure temperature uniformity thanks to its decades of experience in thermal process control.



Particulate contamination control originates from complex fluid dynamic studies and a close collaboration with **Camfil**, the world's most respected filter manufacturer. Camfil and Fedegari collaborate closely in the development of high-temperature filters for dry-heat sterilization processes.



Detail view of the door

Note the tubular silicone gasket, which is seated in its groove without any locking device; the corners have a wide bending radius. Also, note the wedge-shaped locking lug.



Detail view of the chamber

Note the locking rollers, which, by sliding upward, engage the three wedge-shaped lugs.



Detail view of the airflow deflectors

which are individually adjustable.

What characterizes Fedegari FOD ovens?

- Process performance (particle contamination, temperature uniformity, process repeatability)
- Specific engineering and manufacturing features of these sterilizers common to all Fedegari machines
- The use of common components, such as the process controller, electrical and piping actuators that guarantee time and cost-savings on training and maintenance due to simplified standard procedures
- Thema4 process controller pre-validated by Fedegari according to GAMP 5.



Stainless steel fan, manufactured in-house.

The vanes are force-fitted and then continuously welded to the two supporting disks; the hub is fixed to the base disk without using threaded devices. This allows to reduce the weight of the fan by 40%, increases its efficiency and keeps it constant in time, simplifies balancing and drastically reduces noise.