

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 needs in the pharmaceutical industry.

FOD ovens perform a batch-type 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 peculiar features of the FOD ovens are extreme temperature uniformity, regardless of dimensional variables, and lowest particulate contamination. Temperature uniformity is the obvious consequence of Fedegari expertise in thermal process control.



Particulate contamination control originates from complex fluid dynamic studies and a close collaboration with **Camfil**, the world most respected filter manufacturer with whom Fedegari works at the development of high-temperature filters.



**Detail view of the door**

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



**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 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.