



STEAM STERILIZERS

Designer and manufacturer of Industrial
Ethylene Oxide and Steam Sterilizers



COMPANY PROFILE

With nearly two decades of expertise in the design and engineering of medical device sterilizers, **MDS is fully dedicated to delivering advanced sterilization solutions, process optimization and comprehensive services.**

We work in close partnership with our customers, positioning ourselves as a trusted advisor as well as a reliable supplier. This relationship-based approach demonstrates not only the way we work but also our proven ability to successfully execute projects worldwide.

MDS proudly designs and manufactures Ethylene Oxide and Steam sterilizers in France, with care and precision, along with all related equipment and accessories for medical device manufacturers and sterilization service providers. Our long-standing experience in industrial sterilization enables us to provide safe, state-of-the-art solutions, from single equipment to fully turnkey plants.

A key strength of MDS lies in its **in-house manufacturing workshop**, where highly qualified staff operate with advanced welding and production technologies. By mastering the entire fabrication process internally, we guarantee quality, reliability and compliance while maintaining the flexibility required to adapt to evolving customer needs throughout the project. This integrated approach allows us to combine industrial rigor with agility, ensuring tailor-made solutions from design to final validation.

In addition, **MDS develops and programs its own PLC and HMI software in-house**, enabling our team to customize automation sequences and supervision interfaces down to the smallest customer specification. This dual expertise—mechanical and automation—ensures seamless integration, maximum process control and full traceability for every project.

Beyond technology, **MDS is recognized for the availability and flexibility of its maintenance services**, ensuring long-term support and performance for our customers worldwide.



OUR ASSETS

Reactive & Flexible

- Human size company
- Team Spirit
- Communication

Design and manufacture control

- Integrated Designer
- Integrated manufacturing workshop
- Expertise in control system

Adapted solution to customer needs

- Safe, reliable and easy to use equipment
- Human safety
- Environment respect

Qualification and after sales services

- International standards compliance
- Customer satisfaction
- Respect of our engagement

www.mds-france.com

PROVIDED WITH

- Manufacturer documentation
- Instructions & Maintenance manuals
- Technical documentation (P&ID, Electrical drawing, part list...)
- First emergency spare parts list

SERVICES

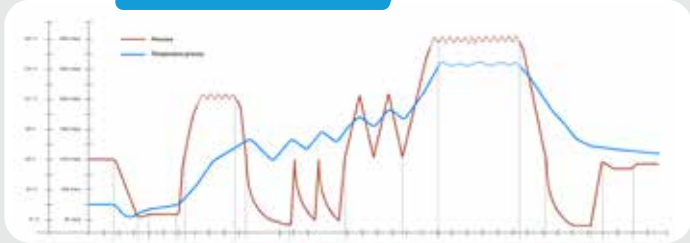
- Installation and commissioning
- Qualification regarding ISO 17665
 - √ IQ
 - √ OQ
 - √ PPQ
 - √ SV
- Maintenance with preventive or curative intervention



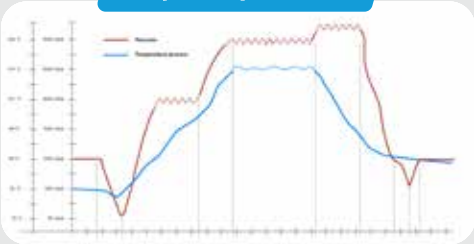
CYCLES



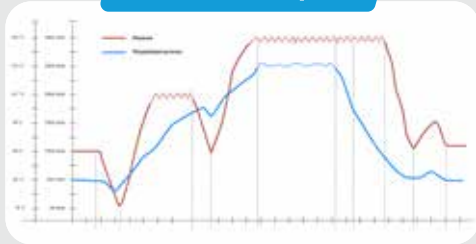
Solid Cycle



Liquid Cycle



Air / Steam Cycle



CUSTOM MADE STEAM STERILIZERS

Steam sterilization is one of the most reliable, safe and eco-friendly technologies. It uses pressurized steam at high temperature to eliminate all microorganisms, without leaving any toxic residues compared to chemical methods. Traditionally used in hospitals and laboratories, our autoclaves are specifically engineered to meet the specific requirements of pharmaceutical companies and medical device manufacturers.

MDS autoclaves are designed for the most demanding users. Fully built in stainless steel DIN 1.4404 (316L), with single or double sliding doors, they combine robustness, hygiene and durability.

The chamber design is tailored to each application. Rectangular models with heating and cooling jackets deliver optimal sterilization of solid products and liquids with pure steam. Cylindrical models with internal heat exchangers are dedicated to prefilled syringes and bags, where air and steam are mixed by blowers and baffle plates to guarantee uniform and gentle treatment. For maximum flexibility, polyvalent models can be supplied to process a wide variety of products within a single system.

Every function of our autoclaves is managed by a programmable logic controller connected to an intuitive HMI or supervision computer. Our software solutions are fully documented, validated, and fully compliant with 21 CFR Part 11 and GAMP requirements, ensuring total traceability and complete peace of mind.

With **MDS**, steam sterilization is not only reliable, but also a guarantee of performance, compliance and long-term value.

WHY CHOOSE STEAM STERILIZATION WITH MDS?



Steam sterilization combines efficiency, safety and cost-effectiveness, making it one of the most widely adopted sterilization methods in healthcare and life sciences. When products are compatible with heat and moisture, steam sterilizers deliver unmatched productivity compared to other technologies. Typical applications include surgical instruments, implantable devices and surgical linens.

With nearly two decades of expertise in the medical and pharmaceutical environment, **MDS** provides turnkey solutions tailored to the specific requirements of each customer.

Because working for human health demands the highest level of compliance, our equipment is designed in strict accordance with international standards. Safe, reliable, environmentally friendly and easy to operate, MDS autoclaves are built to support both process security and user comfort.

Beyond technology, **MDS is recognized for its responsiveness and flexibility in maintenance services**, ensuring long-term performance and customer satisfaction.

HIGH QUALITY MATERIALS

- Proudly designed and manufactured in France.
- Fully made of stainless steel 316L:
- Rectangular or Cylindrical stainless steel chamber
- Single or double door
- Heat Insulation and stainless steel cladding
- Compliance with: EN285, ISO 17665

PROCESS

- GMP design
- Adjustable cycles through parameters
- High performance water ring vacuum pump
- Integrated Pure steam generator
- Easy to use HMI
- Supervision for cycle report (21 CFR Part 11)



Contact Us

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