sterilwave

Medical waste. Treated. On site.

Shredding and microwave decontamination in a single vessel.



www.sterilwave.com

sterilwave

From infectious waste to household waste



Our customers

Healthcare facilities that generate medical waste and wish to decontaminate it directly on site.

FOR

HOSPITALS
CLINICS
LABORATORIES
HEALTH CENTRES
MOBILE FACILITIES

The challenges

- A hospital produces between several dozen and several hundred kilograms of infectious medical waste every day.
- Infectious medical waste is among the most hazardous types of waste generated by healthcare facilities
- 70% of healthcare facilities in the least developed countries do not have basic services for medical waste management.

Source: WHO/UNICEF, 2020 (2019 data).

Sterilwave technology

Sterilwave can treat all solid medical waste, including sharps and sharp surgical instruments, without prior segregation.

Its patented process combines shredding and microwave heating in a single vessel. An environmentally friendly process: no pressure, no liquid effluent and no added chemicals.



Loading

Waste is loaded directly into the vessel, either manually or automatically.



Shredding

The rotary blades shred the waste in just a few minutes, reducing it to very fine, unrecognisable particles.



Microwave heating

Microwaves heat the waste to 100–110 °C. The waste is held at this temperature for 20 minutes, ensuring microbial inactivation.



Automatic unloading

At the end of the cycle, the waste is automatically discharged and can be disposed of with general waste, with no infectious risk.







30 min
average cycle time



The advantages of Sterilwave

ENVIRONMENTALLY FRIENDLY

100% electric, with no pressure or liquid effluent.

REMOTE MONITORING

Real-time monitoring of all operational data.

INTERNATIONAL SUPPORT

Technical assistance worldwide, with installation and training directly at the customer's site.

HIGH PERFORMANCE

Technology compliant with international standards and regulatory requirements.

COST REDUCTION

A ready-to-use solution that is easy to maintain and has low operating costs.

100% electric	**up to 8 $\log_{10}$** decontamination level	**85%** volume reduction	**25%** weight reduction

The machine range

Ultra-compact, plug-and-play, 100% electric solutions.



10 kg/h
Sterilwave 50

Vessel capacity: 50 L
Treatment capacity: 100 L/h,
up to 10 kg/h*
Dimensions (L × W × H): 1.35 × 1.1 × 1.1 m
Recommended floor area: 7 m²



20 kg/h
Sterilwave 100

Vessel capacity: 100 L
Treatment capacity: 200 L/h,
up to 20 kg/h*
Dimensions (L × W × H): 1.7 × 1.2 × 1.1 m
Recommended floor area: 8 m²



50 kg/h
Sterilwave 250

Vessel capacity: 250 L
Treatment capacity: 500 L/h,
up to 50 kg/h*
Dimensions (L × W × H): 2.4 × 1.2 × 1.7 m
Recommended floor area: 10 m²



88 kg/h
Sterilwave 440

Vessel capacity: 440 L
Treatment capacity: 880 L/h,
up to 88 kg/h*
Dimensions (L × W × H): 3 × 2.6 × 2 m
Recommended floor area: 15 m²



150 kg/h
Sterilwave 900

Vessel capacity: 900 L
Treatment capacity: 1,500 L/h,
up to 150 kg/h*
Dimensions (L × W × H): 5 × 4 × 4 m
Recommended floor area: 40 m²

**Based on a waste density of 0.1 kg/L. Actual density may vary depending on the type of waste.*

sterilwave

A patented French technology, developed since 2012 and recognised internationally

For 15 years, Sterilwave has been designing innovative solutions in France for the treatment of medical waste in order to eliminate infectious risks.

Compact, safe and fully electric, Sterilwave solutions enable healthcare facilities to treat their waste on site, as close as possible to where it is generated.

This approach helps reduce the health risks associated with the handling and transport of untreated waste, limit logistics costs and reduce the environmental impact of its management.

Sterilwave solutions are used by healthcare facilities, governments and international organisations.

An international presence, with local support

Based in the Paris region, with its production site in Dieppe, France, and offices in Mexico and Singapore, Sterilwave relies on a network of local partners to support its customers around the world.



900 +
installations worldwide

85 +
countries