



STERILWAVE

INNOVATIVE SOLUTION FOR BIOMEDICAL WASTE MANAGEMENT



BIOMEDICAL WASTE: A WORLDWIDE ISSUE FOR PUBLIC HEALTH & ENVIRONMENT

Health care activities protect and save lives. But what about the waste and by-products that they generate? Biomedical waste management process can be expensive and difficult to set up for health care centers. An unsafe management can cause major issues:

Health risks



Biomedical waste contains potentially harmful microorganisms which could infect people

Sharps-related



The World Health Organization (WHO) estimates that 40% of hepatitis cases and 2,5% of HIV cases worldwide are caused by occupational exposure*

Environmental Impact



Treatment and disposal of healthcare waste may release pathogens and toxic pollutants

According to WHO's directives*, infectious waste should be processed as close as possible to its generation place.

*Sources: Health-care waste report, WHO 2002

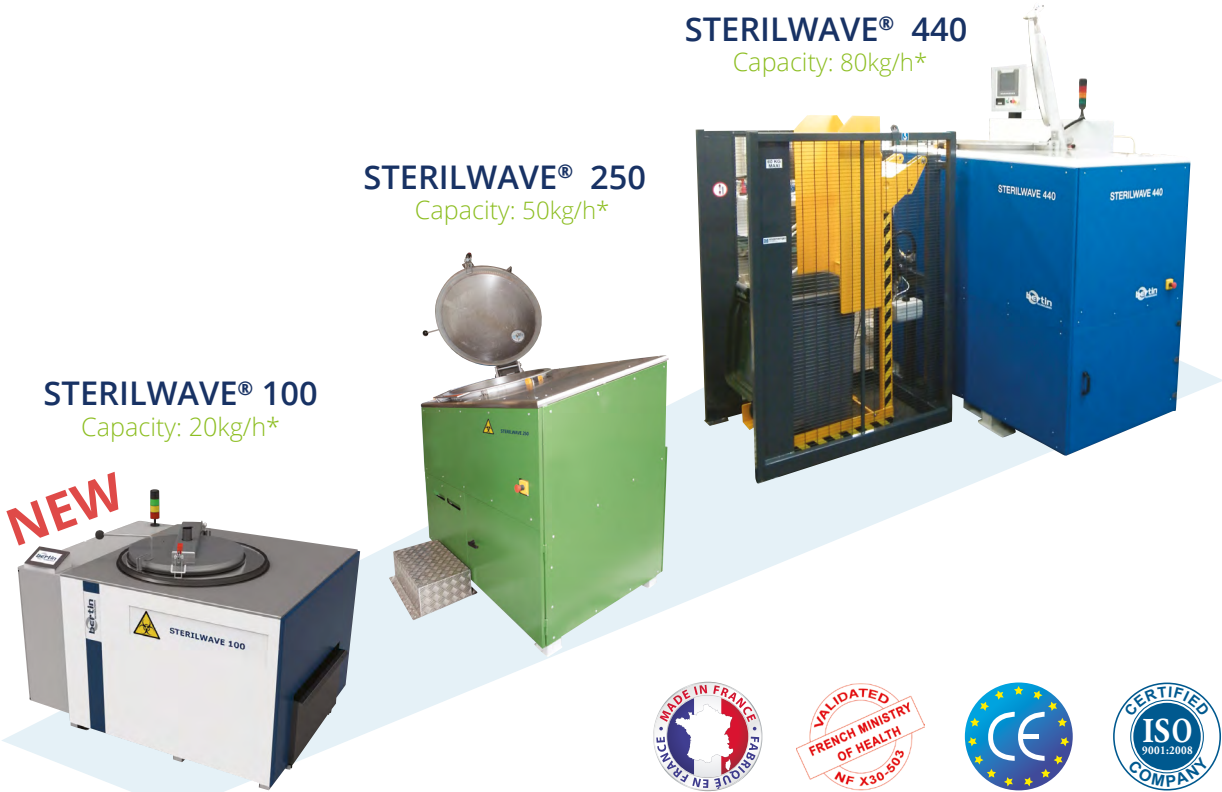


Sterilwave® is the alternative on-site solution to reduce the risk of contamination in comparison with incineration and landfills.

STERILWAVE® EQUIPMENT & OFFER

Compact solutions for on-site waste management:

3 different capacities to convert any biohazardous waste into municipal waste.



*with a waste density of 1L=0.1kg

A comprehensive offer of services:



Support for **installation** and waste management process optimization



Operators and maintenance **training** by certified experts



Maintenance and technical support: spare parts and consumables available / technical tutorials / after sales services

EFFICIENT MICROWAVE TECHNOLOGY



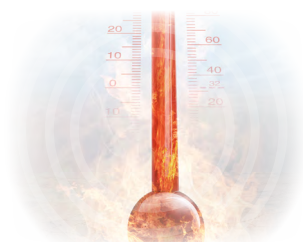
8log10 microbial
inactivation



No pressure
during the process
No irradiation risk



No water consumption
No steam generator
No liquid effluent



Efficient heating
rise up to 110°C
for 20' to obtain a
full decontamination



Adapted to any type of medical
waste (sharps, glass, solid,
liquid...)
No segregation



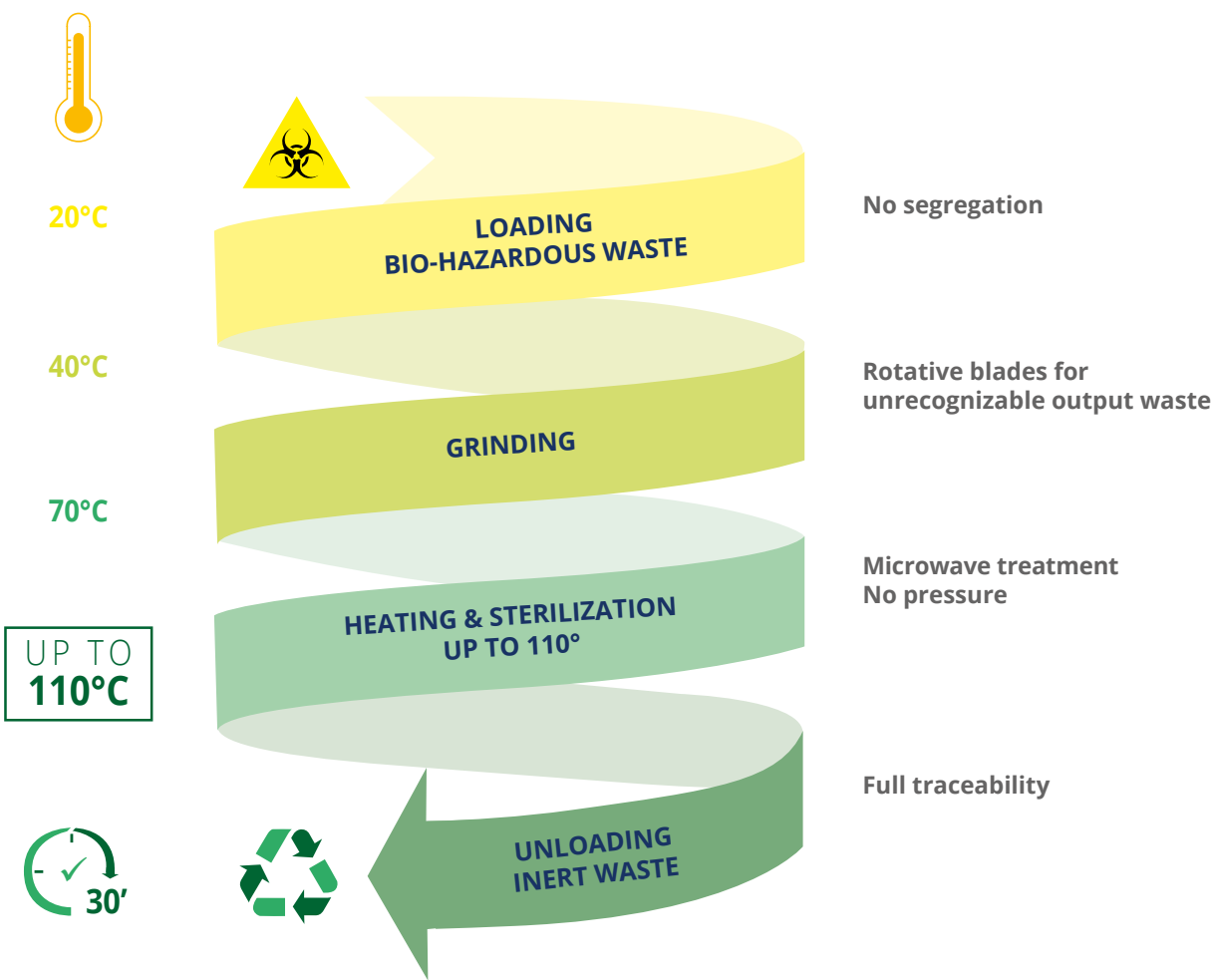
Easy maintenance
Equipment based on
mechanical technologies

Sterilwave® has been registered and approved by health & environmental ministries in Europe, Asia, Africa, Middle East and America.

The uniqueness of Sterilwave® is linked to its innovative microwave technology and high level of treatment respecting both the environment and security processes.

Waste management method	Waste output			Weight Reduction	Volume Reduction	Immediate installation (no specific construction required)	Zero effluents (no polluting emissions)
	Dry	Stable	Sterilized				
STERILWAVE®	✓	✓	✓	✓	✓	✓	✓
Autoclave			✓		✓		
Incineration	✓	✓	✓	✓	✓		
Chemical treatment			✓		Some models		

A 30 MINUTES AUTOMATIC PROCESS IN ONE SINGLE VESSEL



From infectious waste to municipal waste



*Refuse-Derived Fuel

TECHNICAL SPECIFICATIONS



SPECIFICATIONS

Waste capacity	200L/h Up to 20kg /h *	500L/h Up to 50kg /h *	880L/h Up to 80kg /h *
Vessel capacity	100L	250L	440L
Average cycle time	30'	30'	32 - 35'
Dimensions (L x W x D)	1.7 x 1.2 x 1.1 m	1,6 x 1,1 x 1,5 m	2 x 1,1 x 2 m
Weight	700 kg	1200 kg	1400 kg
Recommended working area	8 sq.m Ceiling height: 2m	10-12 sq.m Ceiling height: 2.2 m	15-20 sq.m Ceiling height: 3m (3.85m with automatic loading option)
Electricity	400 V 3-Phase 40 A		400V/ 3-Phase, 63A
Technology	Grinding by rotating blades and heating by microwaves		

OPERATING DATA

Microbial inactivation	Spore up to 8log10 Virus up to 6log10 STAATT requirements and NFX30-503 compliant
Volume reduction	Up to 80%
Weight reduction	Up to 25%
Final Waste	Unrecognizable, inert, dry, stable
Loading Process	Manual or Automatic (option)

*with a waste density of 1L=0.1kg

STERILWAVE® KEY BENEFITS

Eco-friendly, economic & safe solution

Safe
Microwave technology
No pressure in comparison with the autoclave

Eco-friendly
Zero environmental impact
On-site treatment – no transport
No liquid effluent to drain

Efficient
Exceed international regulatory standards
Bacterial reduction up to 8log10

Easy to use
“Plug and play” system
No specific technical qualifications required

Cost effective
No more storage
Robust equipment, easy maintenance

Solution adapted to:

✓ Every medical waste producers



✓ Any type of medical waste

- Hospital and laboratory waste,
- Solid and liquid medical waste,
- Human and animal pathological waste,
- Sharps and prickly hospital waste with their containers,
- Cultures and stocks,
- Any other waste listed in state and federal regulations as medical waste.



BERTIN MEDICAL WASTE, a brand of CNIM Group, relies on its long history of innovative engineering to develop, produce and market innovative systems and equipment worldwide.

Its mother-company CNIM designs and builds turnkey high-tech industrial facilities and provides expertise, service and operations support in the Environment, Energy, Defence and Industrial sectors.



€634.9 million in
revenues in 2017



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shareholding



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1500 Engineers



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