

INNOVATIVE SOLUTION FOR BIOMEDICAL WASTE MANAGEMENT





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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:



Biomedical waste contains potentially harmful microorganisms which could infect people



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





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.



A comprehensive offer of services:







Operators and maintenance training by certified experts

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*with a waste density of 1L=0.1kg



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

EFFICIENT MICROWAVE TECHNOLOGY



8log10 microbial inactivation



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



No pressure during the process No irradiation risk



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



No water consumption No steam generator No liquid effluent



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	Dry	Waste ou Stable	tput Sterilized	Weight Reduction	Volume Reduction	Immediate installation (no specific construction required)	Zero effluents (no polluting emissions)
STERILWAVE®	<	1	√	1	1	✓	1
Autoclave			\checkmark		\checkmark		
Incineration	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
Chemical treatment			\checkmark		Some models		

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A 30 MINUTES AUTOMATIC PROCESS IN ONE SINGLE VESSEL



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TECHNICAL SPECIFICATIONS

STERILWAVE® KEY BENEFITS



SILCINCATIONS			
Waste capacity	200L/h Up to 20kg /h *	500L/h Up to 50kg /h *	880L/h Up to 88kg /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	400V/ 3-Phase, 40A	400V/ 3-Phase, 63A	400V/ 3-Phase, 63A
Technology	Grinding by ro	tating blades and heating	by microwaves

OPERATING DATA

SPECIFICATIONS

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)				
Process management	Full traceability				

*with a waste density of 1L=0.1kg

Safe Microwave technology No pressure in comparison with the autoclave Efficient Exceed international regulatory standards Bacterial reduction up to 8log10

Cost effective No more storage Robust equipment,

easy maintenance

Solution adapted to:

✓ Every medical waste producers





CLINICS & HOSPITALS

✓ 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.

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Eco-friendly, economic & safe solution

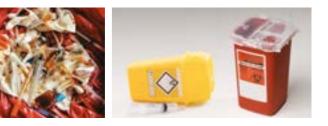
Eco-friendly

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

Easy to use

"Plug and play" system No specific technical qualifications required

COMMERCIAL WASTE SERVICES







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

A stable family shareholding



3 000 Employees 1500 Engineers



Quoted on the stock

market since 1986



Global presence on 4 continents

A worldwide network of distribution





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