

STERILWAVE®

INNOVATIVE SOLUTION
TO MEDICAL WASTE MANAGEMENT



STERILWAVE



- ▶ On-site conversion of bio-hazardous waste into ordinary municipal waste
- ▶ Grinding & microwave sterilization in one single vessel
- ▶ Eco-friendly: Zero effluents, Zero environmental impact
- ▶ Low maintenance, low operating costs

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bertin

ENIM

An eco-friendly and cost-effective solution compared to incineration and current autoclave methods



Microwave technology is recommended by WHO as lowest operating cost solution for biohazardous waste management

Advantages of Sterilwave® systems

Cost effective

- Compact on-site solution
- Low operational cost
- No need for storage area
- No need for third-party collection and transport
- Volume reduction up to 80% and weight reduction up to 25%

Eco-friendly

- No liquid effluent
- Zero environmental impact
- On-site equipment, no transport



High safety and risk reduction

- No need to store bio-hazardous waste on site: less risk of exposure to staff
- Safe microwave technology and process
- No pressure
- Complete process traceability

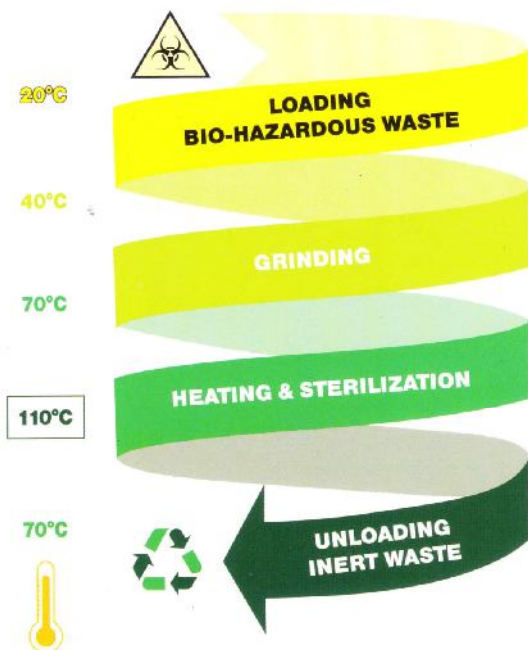
Efficient

- Bacterial reduction up to 8Log10
- System tested by independent agencies (Pasteur Institute)
- Exceeds all international regulatory standards
- Dry waste output - 80% weight reduction

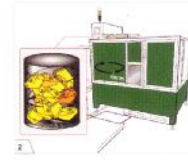
Easy to use

- Easy installation (in just a few hours)
- Fully automatic process
- No need for specific technical qualifications
- Easy maintenance

Efficient, safe and easy-to-use solution



Loading of the biohazardous waste (manual or automatic).



Grinding step to reduce the waste volume.



Heating for sterilization using microwave solution.



Transfer of the grinded/sterilized waste into a container.

A 30' process to transform biohazardous waste into unrecognizable and inert municipal waste.

- 1- Grinding by rotating blades
- 2- Biohazardous waste
- 3- Finely-shredded waste after treatment by Sterilwave®
- 4- Sterilwave® 250 system
- 5- Sterilwave® 440 system

Technical specifications

Sterilwave® 440: for hospitals producing from 350 to 1200 kg / day



Sterilwave® 250: for hospitals producing from 100 to 650 kg / day



- A full range of products for small, medium and large healthcare centers
- Validated and efficient microwave technology

SPECIFICATIONS

	Sterilwave® 440	Sterilwave® 250
Waste Capacity (Density 1 L = 0.100 kg)	Over 70 kg / hour	Over 50 kg / hour
Technology	Grinding by rotating blades and heating by microwaves	Grinding by rotating blades and heating by microwaves
Average cycle time	36'	30'
Tank volume	440 L	250 L
Dimensions (L x W x D)	2 x 1,1 x 2 m	1,6 x 1,1 x 1,5 m
Weight	1000 kg + 400 kg	800 kg + 400 kg
Electricity	400V/ 3-Phase, 63A	400V/ 3-Phase , 63A
Recommended floor space	15-20 sq.m Ceiling height: 3m (3.85m with automatic loading option)	10-12 sq.m Ceiling height: 2.2 m

OPERATING DATA

	Sterilwave® 440	Sterilwave® 250
Bacterial inactivation	Spore > 8log10 Virus > 6log10 STAAT requirements and NFX30-503 compliant	Spore > 8log10 Virus > 6log10 STAAT requirements and NFX30-503 compliant
Volume reduction	Up to 85%	Up to 85%
Weight reduction	Up to 25%	Up to 25%
Final Waste	Unrecognizable, inert, dry, stable	Unrecognizable, inert, dry, stable
Loading Process	Manual or Automatic (option)	Manual
Electronic Weighting	Included	Option

The easiest and most efficient way to manage on-site medical waste

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		

Don't waste time with waste, choose Sterilwave®



More about Bertin Technologies:

For over 50 years, Bertin Technologies designs and delivers high added-value equipment in France and abroad. Its high expertise serves the fields of Energy & Environment, Life Sciences, Defence & Security, Aerospace and other Industries.

Member of CNIM Group Company, Bertin Technologies becomes a **leader of waste management** in Europe and especially designs and develops biohazardous waste management solutions for direct installation on waste production sites all over the world.

Equipment is manufactured exclusively in France, on 1000 sq.m of dedicated premises.



Bertin Technologies is located in different countries through CNIM locations and thanks to its high qualified Distributors network. Contact us for more information.

www.sterilwave.com

Distributor information



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