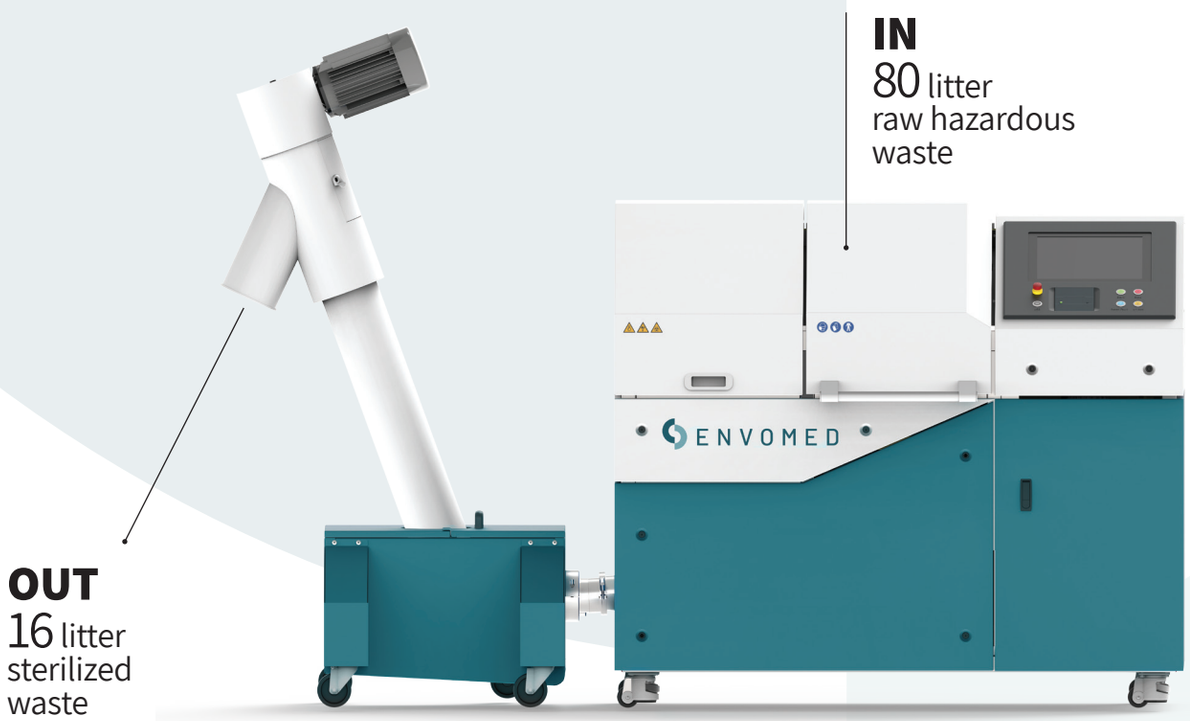
Innovative, On-Site Medical Hazardous Waste Treatment

Non-Heat Technology



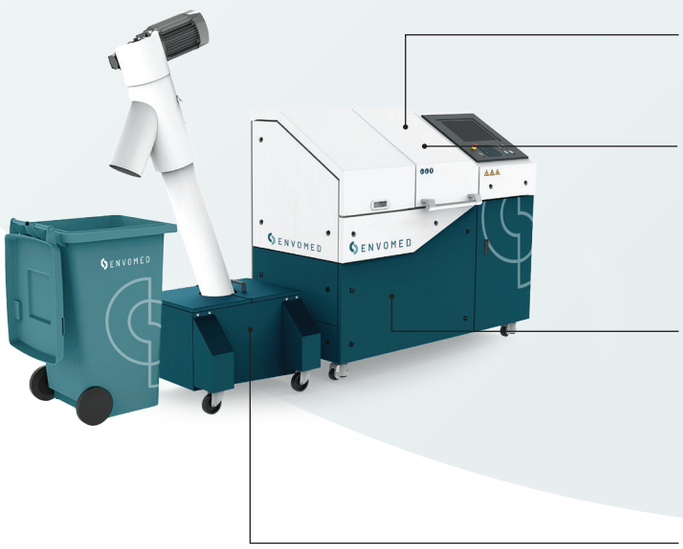
ENVOMED. YOUR **MEDICAL** WASTE **SAFE**

Envomed treats 15% to 20% of hospital waste

Sharps | **Infectious** | Pathological | Radioactive | Pharmaceutical

Designed with hospitals for:

- Hospitals
- Large clinics
- Laboratories
- Dialysis centers
- Veterinary hospitals
- Research medical centers
- Biomedical waste treatment facilities



1 Input medical waste

2 Shredding

Powerful and efficient four-shaft shredder shreds medical waste

3 Mixing & Sterilization

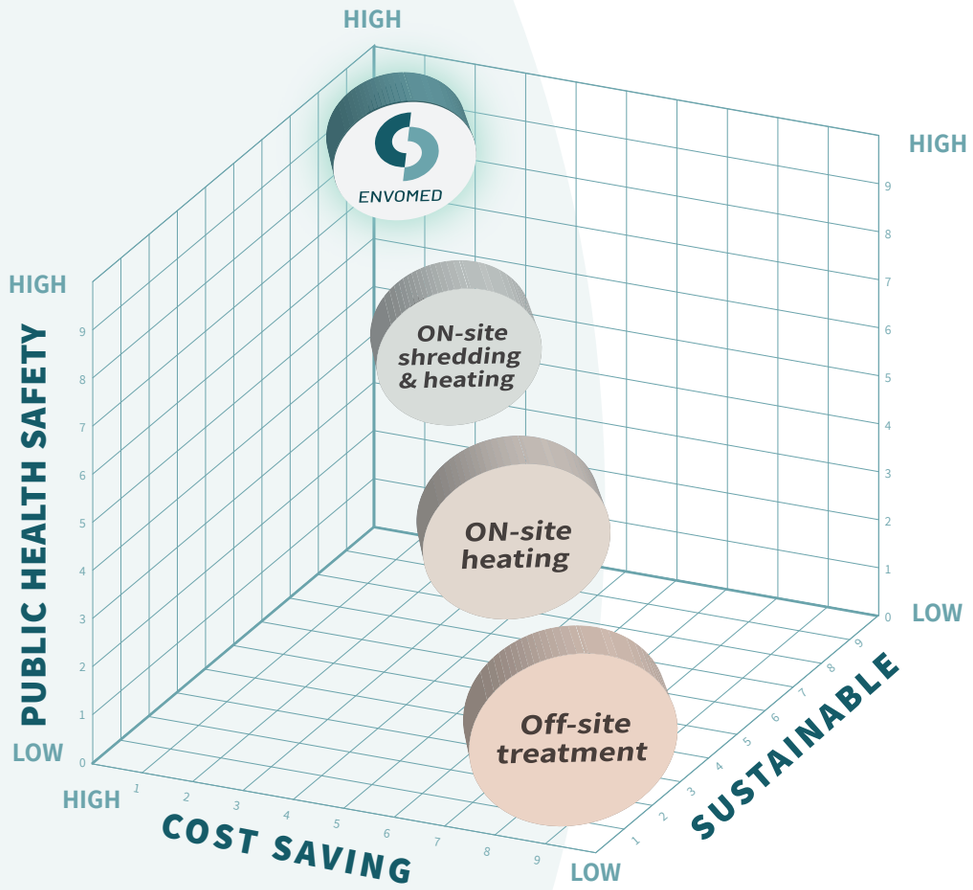
Unique "**biocetic**" sterilization process and chemicals eliminate resistant bacterial spores and sterilizes waste to STAATT level IV (6-log reduction)

4 Separation & Output

Nontoxic residual liquid can be safely discharged to the drainage system; shredded waste can be sent to municipal solid waste landfills

- 1 cycle = 80 litter
- Technology ensures 6$\log_{10}$ spore reduction (STAATT level 4 recommendation)
- Reduces volume by up to 80% within less than 20 min.

Comparing Envomed Technology with Other Hazardous Waste Treatment Solutions



Envomed ensures regulatory compliance

OSHA	HIPAA	STAATT
Requires on-site and off-site medical waste plan to ensure a safe working environment and proper disposal of medical waste	Requires adherence to privacy regulations for storage of medical information including records, medication, blood collection tubes, sample containers, sharp tools, and infusion equipment	Meets highest disinfection levels and assures STAATT level IV (6log10 spore reduction)

Full transparency & traceability via Cloud-based data collection

Envomed maintains an up-to-date and historical database, collected and stored in the cloud with detailed information down to the individual cycle level. Cloud-based data storage enables authorized stakeholders to access both real-time and historical statistical information at any time for various needsses.

Why Choose Envomed Solution?

Envomed safe on-site, non-heat technology solution is more reliable, offers higher efficacy, requires less sterilizing time, less power consumption and zero transportation! Therefore, this technology is the most sustainable waste sterilization solution, while reducing expenses.

Safe treatment

- Combining shredding and sterilizing in liquid phase ensures higher and more reliable treatment efficacy
- Eliminates public health risks due to exposure to untreated waste transported to off-site treatment site or landfill
- Treatment meets $6\log_{10}$ spore reduction (STAATT level IV)
- No pressure, no vacuum, and no steam used for operation
- Eliminates risk to staff as raw hazardous waste is treated immediately
- Treatment validation may be carried out on-site

Sustainable treatment

- Zero (0) hazardous waste transportation
- No need for special, distant treatment sites for hazardous BMW
- Utilizes the lowest power consumption per liter of waste
- Lowest footprint in the medical waste treatment market

Save expenses

- Compared to off-site treatment, Envomed saves +/- 50% of current costs
- Envomed Delivers Superior Performance Compared to On-Site Competitors
- Hospitals will be able to safely and reliably send treated waste for recycling, with the potential to earn some revenue in the process.

Special bonuses for end users

- Minimal space needed for compact, highly efficient machine
- Participation in “zero pollution” action plan
- Transition to circular, green, sustainable, and restorative economy
- Treating waste on-site, Creates positive public perception
- Non-heat technology, offers reasonable working site (steam, vapor & odor-free site)
- Hospital will be eligible for eco-credits

The story of Hazardous medical waste & the solution

Hazardous medical waste is a major concern to global pollution
Health Care's (HC) climate footprint is equivalent to 4.4%of global CO2 emissions.
The HC sector generates approximately 5.9 million tons of waste annually and is responsible for emitting 88 megatons of CO2e each Year. Bio Medical Waste (15%-20% of HC waste) is classified as Hazardous and is still - up to now, mostly treated at remote disposal sites like Incineration. This process results in huge emissions due to special regulated transportation, incineration, and/or landfilling. Accordingly, the treatment expenses are very high.

Envomed solution:
Our unique onsite system converts biomedical hazardous waste into 100% sterilized municipal waste, replacing common carbon-intensive, heat-based solutions, such as incinerators, autoclaves and microwaves.

Our innovative technology enables full sterilization in an odor- and noise-free working environment, eliminating the need for special highly polluting hazardous waste transportation and off-site treatment. Envomed saves more than 50% in energy consumption and around 50% in treatment costs, reduces the volume of treated waste by 70% - 80%, reduces medical waste pollution by up to 95%, and allows healthcare institutions to transition to a low-carbon economy, The reliability of Envomed treatment enables safe waste recycling Envomed's technology allows the safe recycling of treated, sterilized medical waste, eliminating the risk of infectious disease transmission.

Our values

SAVING – Envomed enables your hospital and laboratories to optimize medical waste treatment, significantly reducing treatment costs.
(+/- 50%)

SAFETY – With Envomed, your hazardous medical waste is reliable & securely treated, ensuring the protection of public health beyond your facility.
(up to 100%)

SUSTAINABILITY – Our innovative green technology uses eco-friendly sterilization materials, minimizes energy consumption, and reduces CO_2 emissions. By choosing Envomed, you substantially decrease reliance on remote polluting treatment sites for medical hazardous waste disposal.
(up to 95%)

Backed by **Engineering Excellence**

Envomed, owned by Kibbutz Maabarot, Israel, has a rich legacy rooted in engineering excellence. Originally established as an engineering factory dedicated to designing advanced machinery for the Israeli start-up market, Envomed shifted its focus in 2019 to specialize exclusively in hazardous biomedical waste treatment solutions.

Leveraging over 30 years of engineering expertise, Envomed is committed to delivering innovative and effective waste treatment technologies worldwide.

Envomed stands as the premier solution in the market, offering unmatched safety, sustainability, and treatment savings. Our technology ensures the most reliable treatment outcomes, setting the standard for excellence in hazardous biomedical waste management.

With a dedicated team of 10 skilled professionals, we continue to expand our global footprint, with installations in many countries, demonstrating our best solution in the market for cost-effective, efficient, safe, and most environmental solution.

Approved by Israel Ministry of Health

Envomed wins Takeda challenge 2023

EMC certification EN 61326-1:13, Class A

ISO 9001:2015

CE IEC61010_1, EN61010-1, Low Voltage Directive (LVD) 2014/35/EU

RoHS Compliant

תעודת פטנט
Certificate of Patent

Contact Us

envomed.com 12 Bazelet St., Tzur Yigal, 4486200, Israel Office +972-98-982-847 contact@envomed.com