



Regulatory Considerations: Biomedical Waste

Eliminate your liability with the push of a button

Processing and disposing of biomedical waste is highly regulated to ensure proper waste treatment and overall safety. Compliance with the multitude of federal, state and local regulatory requirements can be a daunting task. With the Demolizer® II system, regulatory compliance is just a button away.

The Demolizer® II Solution

The Demolizer® II system offers a cost-effective, safe, simple and secure approach to compliant waste processing, documentation and disposal. The system converts both sharps and red bag waste to non-biohazardous, non-infectious solid waste that can be disposed of as common trash.

The Demolizer® II system meets CDC and EPA recommendations for treatment and is consistent with the requirements under the OSHA Bloodborne Pathogen Rule. The Demolizer® II is approved or meets requirements for treatment in 46 states. Through proper use, a waste generator's cradle-to-grave responsibility is met, and liability is eliminated.

Proven Optimal Performance

Bacterial and Viral Efficacy

The Demolizer technology has been exhaustively tested at Kansas State University, Stanford University and private laboratories in support of state regulatory approvals. Minimum kill criteria of 6 log₁₀ (99.9999%) was demonstrated using the following organisms:¹ *B. subtilis* (spores), *S. aureus*, Methicillin resistant *S. aureus*, *E. coli*, *P. aeruginosa*, *M. fortuitum*, *M. bovis*, *M. phlei*, and *Giardia* spp.

The inactivation of Duck Hepatitis B Virus as a viral indicator organism was demonstrated at a level of at least 2.2 x 10⁵ through efficacy trials conducted at Stanford University.

Emissions Testing

Expanding air from the Demolizer® technology has been tested under challenge conditions using the EPA Test Protocol for Bacterial Emissions. Upon spiking the load with 10⁸ cells of *G. stearothermophilus*, the emissions were tested to be bacteria-free. A dual filtration system has been incorporated to eliminate odors and to serve in a redundant safety capacity. Absence of bio-aerosols was verified by an independent evaluation at Valley Medical Laboratory (Springfield, MD).

Water condenses from the expanding air during processing and is collected in a jar at the side of the unit. This water was also tested under challenge conditions (10⁸ spores of *G. stearothermophilus*) by an independent laboratory and demonstrated to be bacteria-free.

Heavy Metal Testing (Sharps)

An independent evaluation demonstrated that Demolizer-processed medical waste meets or exceeds U.S. EPA regulatory requirements regarding acceptable heavy metal levels.² Testing included eight heavy metals all of which tested well within regulatory limits, with six of the eight metals below the detection limit.

¹"Sterilization Efficacy of the Demolizer® II System for the on-site treatment of sharps and other regulated medical waste against *S. aureus*, *E. coli*, *C. albicans*, *M. phlei*, and *B. subtilis* spores", Kansas State University, July 2006.

Efficacy testing against *B. subtilis*, *S. aureus*, *C. albicans*, *M. fortuitum*, *M. bovis*, *P. aeruginosa*, and *Giardia*, Leberco Testing, Inc., multiple studies, 1992-1994. "Efficacy of the Demolizer system on Hepadna Virus (duck hepatitis B virus)", Stanford University, November 1992.

² Certificates of Analysis for Demolizer processed red bag and sharps waste, Leberco Testing, Inc., 1993. Heavy metals included: lead, mercury, arsenic, cadmium, barium and chromium.

Demolizer® II Technology Specifications

The unique Demolizer® II collector technology was developed to perform effectively as a robust, tamper-resistant container for both sharps and red bag waste.³ The collectors meet requirements for use in clinical and healthcare settings as specified in the OSHA Bloodborne Pathogen Rule. Sharps and red bag collectors are available in a one-gallon capacity.

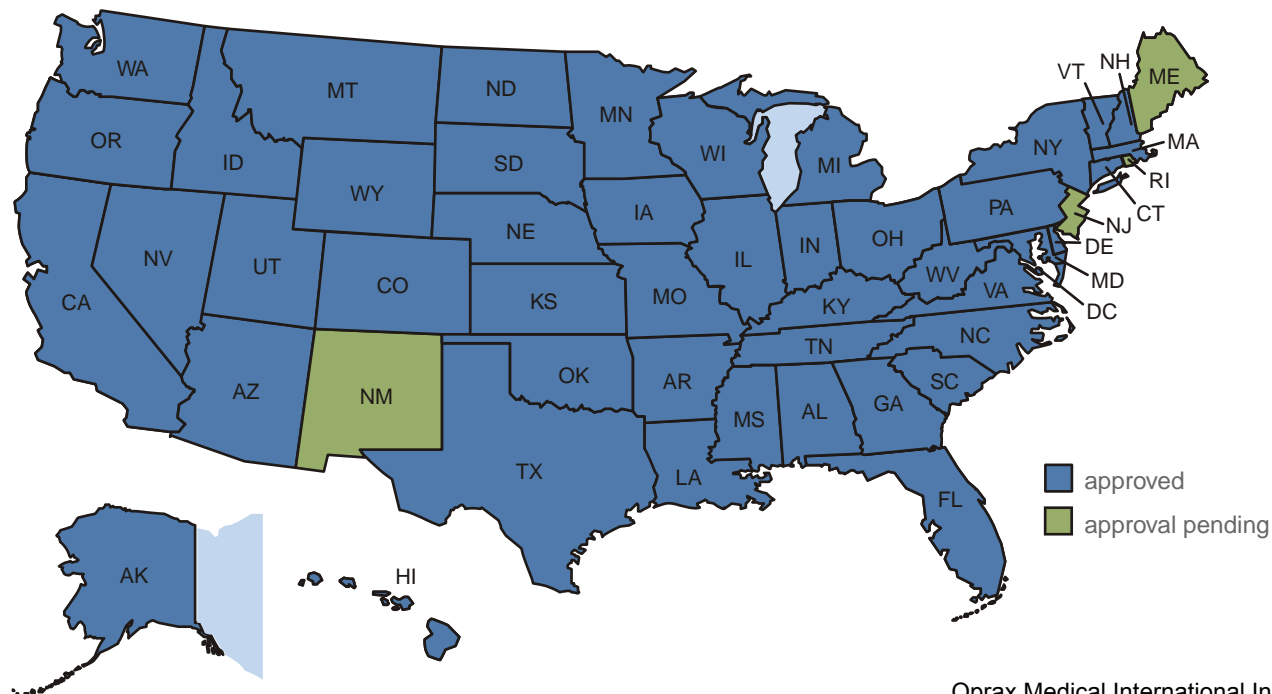
- Industry-standard trim, tapered design
- Puncture and leak resistant
- Safe, one-hand disposal

³Sharps and red bag waste appropriate collectors are sold separately



State Approvals

The Demolizer® II system is approved or meets the regulatory requirements for treatment as an alternative medical waste treatment device in states as indicated below:



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