

Breakthrough Technology For Medical Waste Disposal



The Problem







Typical processes present strong challenges

Steam Sterilization (autoclaving)

- Energy intensive
- Dangerous and difficult to permit / does not meet HIPAA
- Boilers are required with some systems
- Not emission free
- Difficult to control odor and run off
- Hands on operation / high exposure for staff

Incineration (burning on or off-site)

- Energy intensive
- Toxic byproducts (fly ash, metals, dioxins, furans)
- Expensive to retrofit and maintain
- Public Opposition / costly to the environment

Chemical Treatment

- Caustic, dangerous process
- Byproduct must get EPA approval / usually must be disposed of as RCRA
- Limited effectiveness with some material



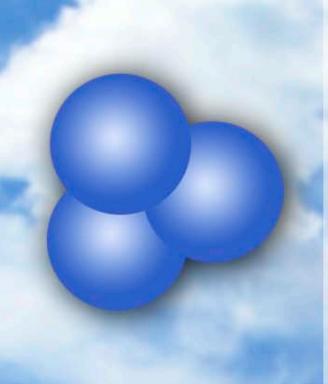
Changing Rules

Priority . . . Green

"Pollutants caused by processing Biohazardous waste will be at the top of the list"

This technology will help you maintain a leading edge on issues of

- Sustainability
- Regulation Conformance
- Public Approval



The Solution

Ozone . . . a marvel of nature

- Used for over 100 years!
- Form of oxygen
- Purifies, sanitizes, oxidizes
- Renders pathological & anatomical waste inert and unrecognizable

NO ODOR • NO EMISSIONS



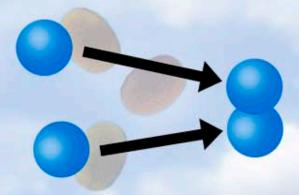
Oxygen molecules are electrically charged, splitting some apart.

The split atoms then attach to remaining oxygen molecules and

form OZONE.

2An atom from the unstable OZONE then splits to attack and destroy pathogens.

After the pathogens cell walls are destroyed the rogue atoms re-attach themselves and revert back to OXYGEN.





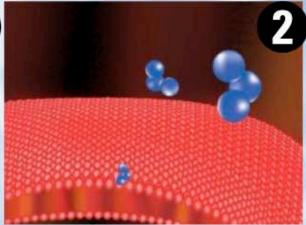
How Ozona Works

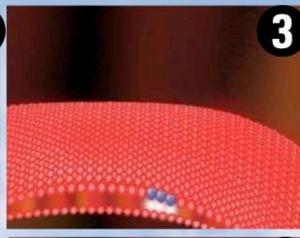
Healthy bacterial cell

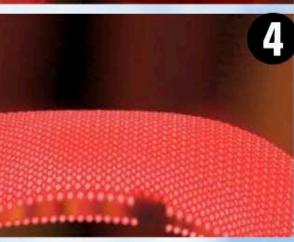
Ozone molecule contacts the cell wall

Ozone molecules create holes in the cell wall

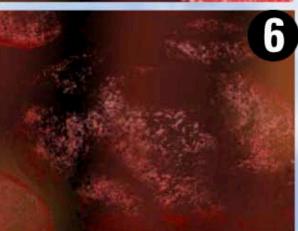












Newly created hole damages the bacterium

Bacterium begins to lose it's shape

Within a few seconds the cell dies





How It Works

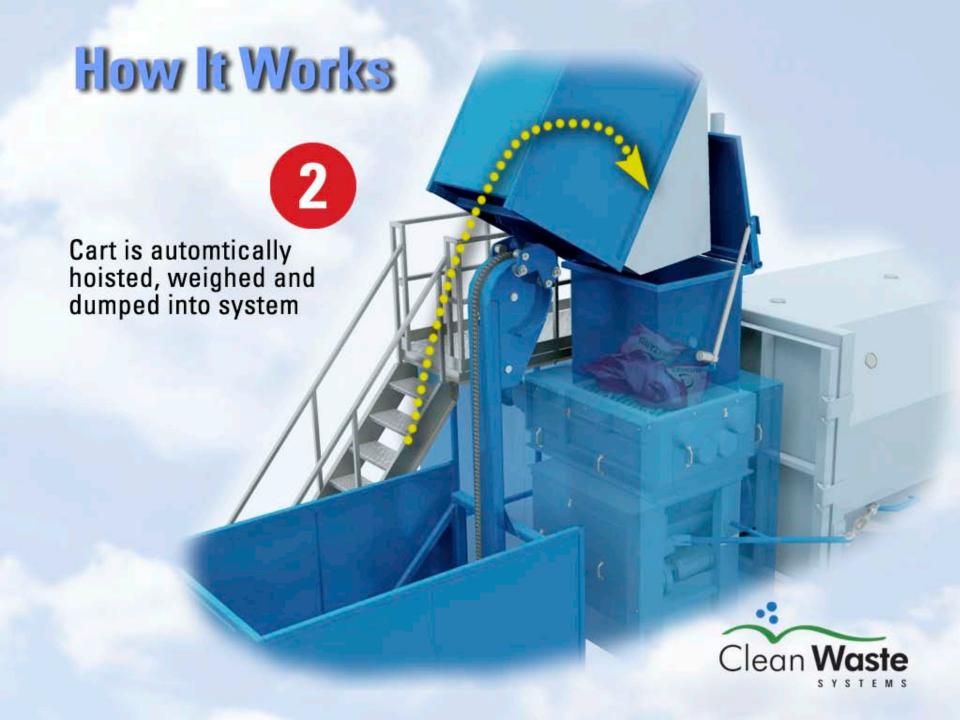
 Carts rolled directly to OMW-1000

 No special packing or refrigeration

 LOWEST STAFF EXPOSURE to handling waste of any other system







How It Works

ALL containers, bags, suction canisters, etc. are shredded into small particles (reduced up to 90% in size) to ensure exposure for treatment with ozone.

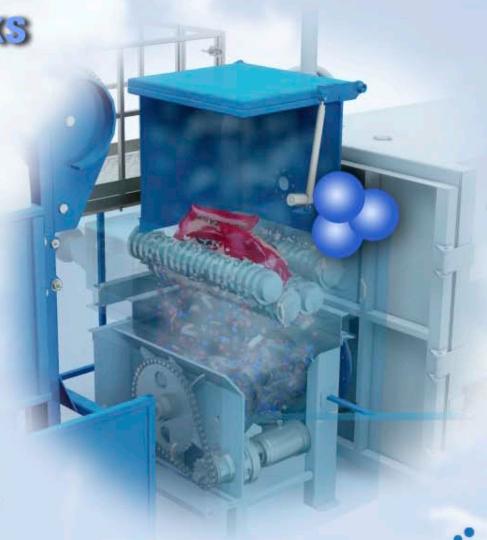




How It Works

A small amount of ozone gas is injected into the shredding chamber for odor control





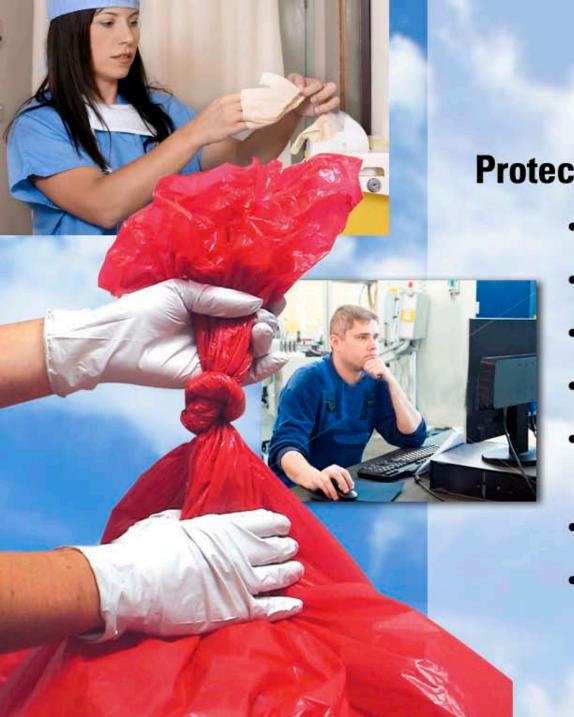




The shredded material is transferred into the **treatment** bin / transport container where the waste is exposed to HIGHLY CONCENTRATED OZONE GAS.







Safety

Protecting people.

- Greatly Reduced Handling
- No dangerous steam or heat
- · No toxic chemicals
- · No foul odors
- Automated system monitoring
- Quiet
- Reduces waste up to 90%



		5,000	10,000	15,000	
	1,111	0	0	0	
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311,754	\$14,625	\$16,875	\$22,500	145,000	\$45,000
STREET	\$17,325	\$15,225	\$15,860	\$21,500	\$35,400
\$115	81,175	\$17,250	\$34,500	\$51,750	\$69,000
- 11	\$1	80	10	10	10
	. 11	10	\$0	\$0	
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374	E15	\$1,010 \$1.2%	\$56,280 01.8%	199,360	\$122,50
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Economics

Immediate cost savings.

- Extremely SIMPLE OPERATION
- Reduced staff and training requirements
 (utilize current household or maintenance staff)
- Reduced maintenance costs
- Reduced risk to workers
- No special handling containers, boxes, liners etc.
- No expensive refrigeration systems required





Flexible aquisition Options

Clean Waste Systems - Your Single Source Solution

Financial Flexibility
 Purchase • Rent • Lease

- Full or Partial Options for
 - Service
 - Operation
 - Management
- Complete Installation & Training Provided









