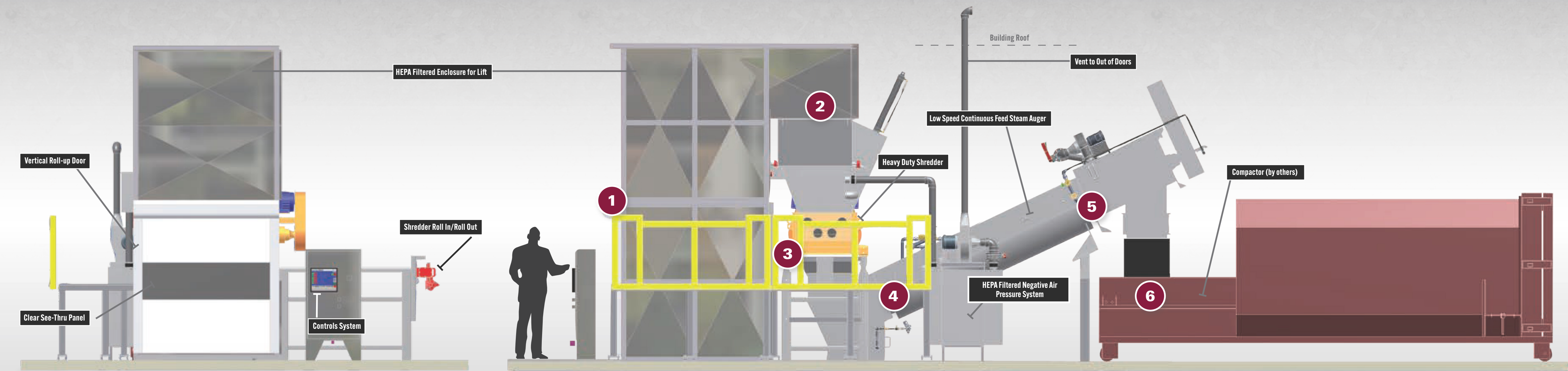


STI BioSAFE

Commercial Medical Waste Treatment Products

The Green solution to providing safety and lower operational costs.



How it Works

The STI Commercial Medical Waste Treatment System has all the advantages and none of the drawbacks of existing products on the market. The residue from the STI System is decontaminated, generally classified as municipal waste, and ready for landfill disposal or recycling.

- Step 1**

Regulated medical waste (RMW), infectious waste/ clinical waste (including animal bedding) and import waste are loaded into the system using wheelie bins or reusable tubs. Contents may include bags, boxes, sharps containers, or surgical trace carts.
- Step 2**

Air is drawn from the feed hopper through HEPA filters, to capture potential aerosolized pathogens that may be released during the waste dumping and shredding process.
- Step 3**

Containerized waste drops into a heavy duty shredder and steam is directly impinged onto the bags and sharps containers prior to and during shredding. Steam automatically decontaminates the system shredder during operation.
- Step 4**

Shredded waste enters the steam auger chamber where low pressure steam is injected through multiple ports immediately bringing all material to proper treatment conditions.
- Step 5**

The distal portion of the STI System steam jacket provides continued heating of the waste. Waste is treated for a minimum of 60 minutes prior to discharge from the auger. The Low Pressure Flash-Off Chamber allows sterile condensate to vent to the atmosphere, reducing water content by ~10%.
- Step 6**

The residue exits the end of the continuous feed steam conveyor (auger) into a standard self-contained compactor and may be recycled or disposed of as municipal waste.

Features

- Environmentally Friendly**

Low water and energy usage Recycling compatible. Increases density of treated material, making transport more efficient.
- Low Processing Cost**

Lowest per pound treatment and lifetime ownership cost of any treatment technology
- Low Speed Continuous Feed Steam Auger**

The system waits for you, not the other way around
No storage of wheelie bins or reusable tubs required
- Heavy Duty Shredder**

Integrated shredder Roll-in/roll-out for quick maintenance
- Control Systems**

Full automated control with remote diagnostics and monitoring capabilities via Ethernet connection (STI SmarTec™)
Temperature and volume tracking and logging through integrated sensors and scale for compliance and records.
- HEPA Filtered Negative Air Pressure System**

System maintains negative pressure directional airflow while in operation. System air is pulled through 99.97% efficient HEPA filters, ensuring no airborne contaminants are released by the system. Filtered air is generally vented through the roof.
- Simple push button operation**

Integral automatic loading via simple push button operation with see through panel System is loaded via push button, which triggers automatic loading and opening/closing of vertical roll-up door. Loading can be monitored via see-through panel on door.
- Compactor (by other suppliers)**

Compactor integrated with system scale and controls

STI BioSAFE Series 2000 Product Offerings

STI BioSAFE provides a wide array of Medical Waste treatment systems to choose from. Products range from 150 pounds per hour to 3 metric tons per hour. Larger capacity systems can be designed.

150 lb/hr (68kg/hr)	2000 lb/hr (900kg/hr)	2 Metric ton/hr
300 lb/hr (136kg/hr)	3000 lb/hr (1350kg/hr)	3 Metric ton/hr
600 lb/hr (272kg/hr)	4000 lb/hr (1800kg/hr)	
1000 lb/hr (450kg/hr)		


BioSAFE Medical Waste Systems
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