



Regulated Medical Waste Treatment Systems

Take control of your regulated medical waste with a sustainable, proven, onsite treatment solution.

ASME



On-site treatment. No long-term service contracts, no haul-away costs. Just savings.

The **RMWXstream™** is a proven, effective solution with over 450 units installed in 82 countries. On-site medical waste treatment offers a fundamental shift in the way regulated medical waste is handled, treated and disposed of. With **RMWXstream™**, waste can be treated before it ever leaves the facility. Due to the shredding and sterilization process, the waste is reduced in volume by up to 80%, and disposed of as regular landfill refuse. No more contracts for infectious waste haulers - the remaining 20% can go in your normal waste refuse. Other advantages include:



Economical: systems offer a short Return On Investment (ROI). All treatment takes place onsite, with no external transport or packaging of infectious material needed. Reduces costs associated with the treatment and management of infectious waste.



Easy to Use: one-day training for operators, fully automated batch process, and low maintenance, multi-lingual color touchscreen.



Reliable: equipped with interlock safety system, enclosed shredding and sterilization in one enclosed, compact system, with no intermediate waste handling.



Effective: unrecognizable waste, pre-shredding and temperature monitoring at the core of the waste ensures effective sterilization, with up to 80% volume reduction.



Environmentally Responsible: green, environmentally-friendly technology does not release or use any hazardous chemicals, smoke or radiation.

The **RMWXstream™**
Reduces Volume up to

80%

*Plus, Remaining Treated Material
Becomes Ordinary Solid Waste
for Landfill or Recycling*

25+

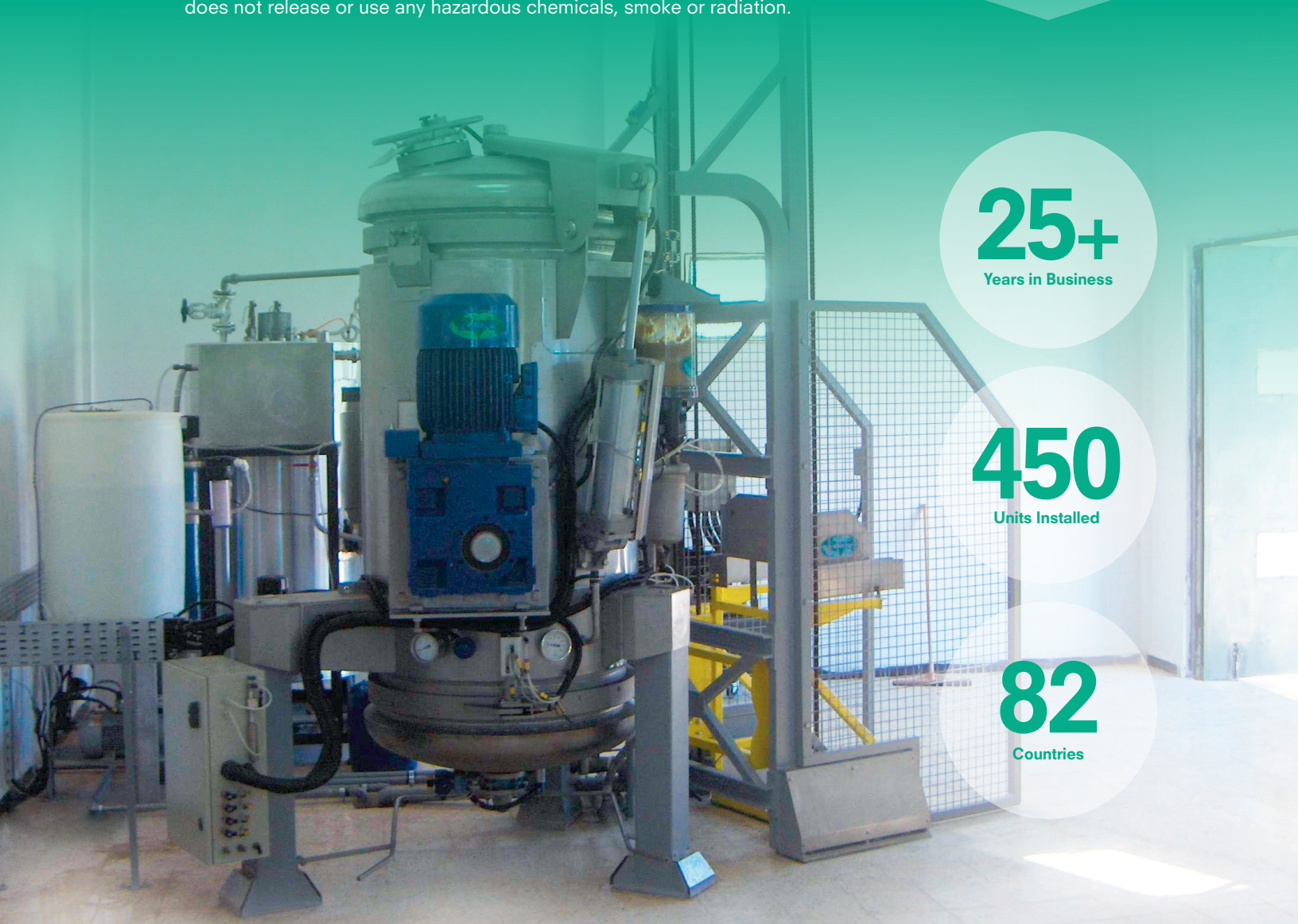
Years in Business

450

Units Installed

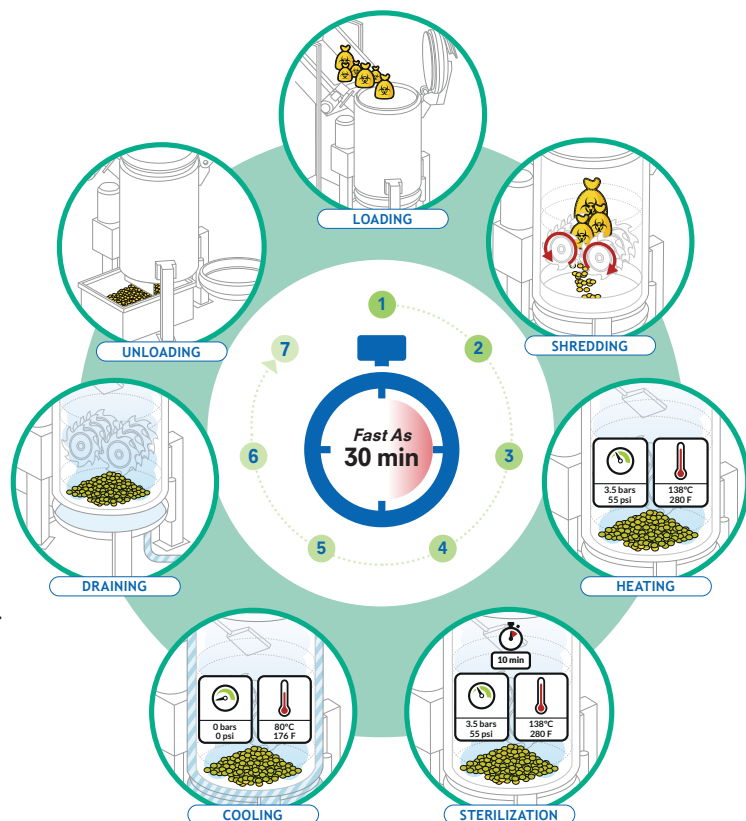
82

Countries



The Process:

1. **Loading** of waste through the top opening.
2. **Shredding** starts as soon as the lid is closed, sealed and locked. Heavy-duty shredder features automatic reverse rotation to prevent jamming.
3. **Heating** is achieved via steam, raising the temperature to 300° F and pressure at 51 psi.
4. **Sterilization** is achieved by maintaining pressure and heat for 10 minutes (adjustable time/temp to meet material density). Achieves microbial inactivation of $>10^6$ reduction.
5. **Cooling** through the flash tank lowers temperature and pressure to prepare for system opening.
6. **Draining** of condensate and water into sanitary drain.
7. **Unloading** of the sterilized waste discharged into a waste tote, while liquid can be sent to sewer.



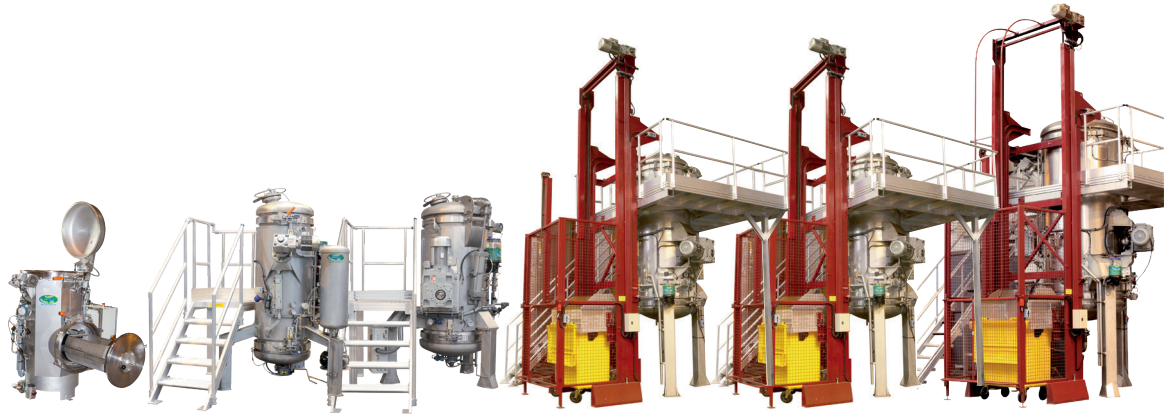
Compare Treatment Technologies

The chart below shows the ideal attributes of a regulated medical waste treatment system. The **RMWXstream™** offers the lowest total cost, least space requirement, no harmful byproducts, and broadest range of effectiveness over other technologies.

Attribute	RMWXstream™	Autoclave/ Steam	Incineration	Microwave	Chemical w/ Shredder	Chemical
Low Capital Cost	✓	✗	✗	✗	✗	✗
Low Install Cost	✓	✗	✗	✗	✗	✗
Low Operating Cost	✓	✓	✗	✓	✗	✗
Low Regulation	✓	✓	✗	✗	✗	✗
Low Space Requirements	✓	✗	✗	✗	✗	✗
No Harmful Byproducts	✓	✓	✗	✓	✗	✗
Community Friendly	✓	✓	✗	✗	✗	✗
Safe Emissions/Air Quality	Less Steam Odor	Steam Odor	Air Pollution	Extreme Odor	Chemical Odor	Chemical Odor
Waste Handled						
Sharps	✓	✗	✓	✗	✓	✗
Fluids	✓	✓	✓	✓	✓	✓
Animal Waste	✓	✗	✓	✓	✓	✗
Pathological	✓	✗	✓	✓	✓	✗
Microbiological	✓	✗	✓	✗	✓	✓

KEY: ✓ achieves attribute ✗ moderately achieves attribute ✗ does NOT achieve attribute

Sizes & Specifications:



Data	T-100	T-150	T-300	T-700	T-1000	T-2000
Volume Capacity	100 L (26 gal)	150 L (40 gal)	350 L (93 gal)	700 L (185 gal)	1100 L (291 gal)	2500 L (660 gal)
Avg. Process Capacity <i>*see waste density below</i>	10-15 kg/cycle (22-33 lbs/cycle)	15-23 kg/cycle (33-51 lbs/cycle)	35-52 kg/cycle (77-115 lbs/cycle)	70-90 kg/cycle (155-199 lbs/cycle)	110-165 kg/cycle (242-364 lbs/cycle)	250-375 kg/cycle (550-825 lbs/cycle)
Avg. Daily Capacity 3 shifts (24 hrs/day)	600 kg (1,320 lbs)	912 kg (2,016 lbs)	2,088 kg (4,608 lbs)	4,176 kg (9,216 lbs)	5,657 kg (12,466 lbs)	10,000kg (22,000 lbs)
Avg. Cycle Time	30 min	30 min	30 min	30 min	35 min	45 min
Dimensions (L x W x H)	200 x 120 x 212 cm (6.6 x 3.8 x 7ft)	274 x 200 x 300 cm (9 x 6.6 x 9.8) ft)	270 x 210 x 330 cm (8.8 x 6.8 x 10.8ft)	460 x 430 x 520 cm (15.1 x 14.1 x 17.1 ft)	490 x 460 x 640 cm (16.1 x 15.1 x 21ft)	490 x 460 x 640 cm (16.1 x 15.1 x 21ft)
Electricity/Cycle	1.4 kWh	1.4 kWh	1.7 kWh	3.5 kWh	4 kWh	9 kWh
Water	5 L (1.3 gal)	15 L (4 gal)	25 L (7 gal)	30 L (8 gal)	35 L (9 gal)	50 L (13 gal)
Steam	6 kg (13 lbs)	9 kg (20 lbs)	15 kg (33 lbs)	18 kg (40 lbs)	20 kg (44 lbs)	40 kg (88 lbs)
Max Steam Flow	35 kg/h (77 lbs/h)	65 kg/h (143 lbs/h)	170 kg/h (375 lbs/h)	230 kg/h (507 lbs/h)	370 kg/h (816 lbs/h)	500 kg/h (1,102 lbs/h)

* Assumes Avg. Density of Regulated Medical Waste of 100-150 kg/M3 (0.8 – 1.3 lbs/gal)
All Models Use 8 bars (116 psi) of Steam Pressure, and 87 psi of Compressed Air



Biowaste Sterilization | Solvent Wash & Recovery | Custom Process Skids | Service

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