

VIKING OZONE TECHNOLOGY, LLC

A CLEANER, SAFER & MORE
SUSTAINABLE TECHNOLOGY FOR
WASTE TREATMENT

REGULATED MEDICAL WASTE | BIO-HAZARDOUS WASTE | GENERAL WASTE

INTRODUCING VIKING OZONE TECHNOLOGY

Viking Ozone Technology (“Viking Ozone”) is a revolutionary advancement in the world of waste treatment.

By combining our technology with the use of ozone, we offer an environmentally sustainable and cost-effective alternative to incineration, chemical treatment, autoclave and heat treatments for regulated medical waste, bio-hazardous waste and general waste.

Viking Ozone reduces the amount of energy required to process waste, which conserves resources, operating costs and reduces greenhouse gas emissions, resulting in a cleaner, safer environment.

Our modular design and low profile allows multiple configurations and savings for civil work at the site.

Viking Ozone allows healthcare facilities and other institutions to put their waste to work. The processed waste has a high calorific value and is classified as a renewable resource in many locations around the globe.



- ✓ LARGE CAPACITY RATINGS
- ✓ ZERO EMISSIONS

- ✓ ECO-FRIENDLY & SOCIALLY RESPONSIBLE
- ✓ INEXPENSIVE OPERATING COSTS

PROBLEMS WITH CURRENT OPTIONS

- X Use highly toxic and hazardous chemicals
- X Require significant post-treatment before they can be discharged into the environment
- X Environmentally non-sustainable
- X Processing at high-temperatures
- X Emit various waste gases, including dioxins, furans and VOCs into the atmosphere
- X Create extremely unpleasant odors
- X High operating costs
- X High rate of breakdowns and servicing issues



WHY WE'RE BETTER

- Our process has practically zero emissions
 - Significantly lower operating costs than industry alternatives
 - VKIN-1000 up to 1,000 kg/hr. capacity (batch) VKIN-300 up to 300kg/hr.
 - VKIN-1200 up to 1,200 kg/hr. (continuous)
 - Treated waste has a high calorific value and can be used as refuse-derived fuel "RDF"
 - NO heat (waste is treated at room temperature)
 - Modular design allows multiple configurations
 - Systems are available in "batch" (two modules) or "continuous" (three modules)
 - Developed with employee safety in mind
 - Virtually odorless
 - Favorable ROI
- ✓ Cleaner treatment process
 - ✓ Safer to operate
 - ✓ Environmentally responsible
 - ✓ More efficient
 - ✓ Kills essentially all known pathogens, bacteria, fungi and viruses (6 log 10)
 - ✓ Virtually no unpleasant odors
 - ✓ Ability to process bio-hazardous waste into a valuable renewable resource.



WASTE TO ENERGY

With [Viking Ozone Technology](#), the regulated medical waste (RMW) is fine shredded, processed and treated with ozone, providing a valuable high calorific renewable energy fuel for (WTE) waste to energy facilities.

VKIN Ozone Processed Waste

- ✓ High calorific value
- ✓ Reduce or Eliminate Landfill Tipping Fees
- ✓ Reduce or Eliminate Transportation Costs
- ✓ Waste is classified as "renewable" in many locations
- ✓ Processed waste is a valued commodity
- ✓ Reduce and displace fossil fuel use



A SUPERIOR TECHNOLOGY

	AUTOCLAVE	MICROWAVE	INCINERATOR	VKIN
LOW HEAT PROCESSING	X	X	X	✓
HIGH CAPACITY	X	X	X	✓
SAFE TO OPERATE	X	X	X	✓
LOW ENERGY DEMAND	X	X	X	✓
HIGH POROSITY	X	X	X	✓
LOW OPERATING COST	X	X	X	✓
LOW ODOUR	X	X	X	✓
ENVIRONMENTALLY RESPONSIBLE	X	X	X	✓



VKIN300

UP TO 300 KG/HR CAPACITY WASTE TREATMENT SYSTEM

- ✓ A compact system ideal for waste treatment in smaller facilities
- ✓ Available in multiple configurations
- ✓ Up to 300kg/hr output
- ✓ ~58 kWh power consumption
- ✓ Efficacy of 6 log 10 reduction
- ✓ Zero emissions and lowest operating costs



VKIN1000

UP TO 1000 KG/HR CAPACITY WASTE TREATMENT SYSTEM

- ✓ The VKIN-1000 batch system with up to 1,000 kg/hr output
- ✓ Small footprint with multiple configurations to fit any facility
- ✓ Available with conveyor or bin dump loading options
- ✓ ~ 76 kWh power consumption
- ✓ Zero emissions and lowest operating costs



VKIN 1200

UP TO 1200 KG/HR CAPACITY WASTE TREATMENT SYSTEM

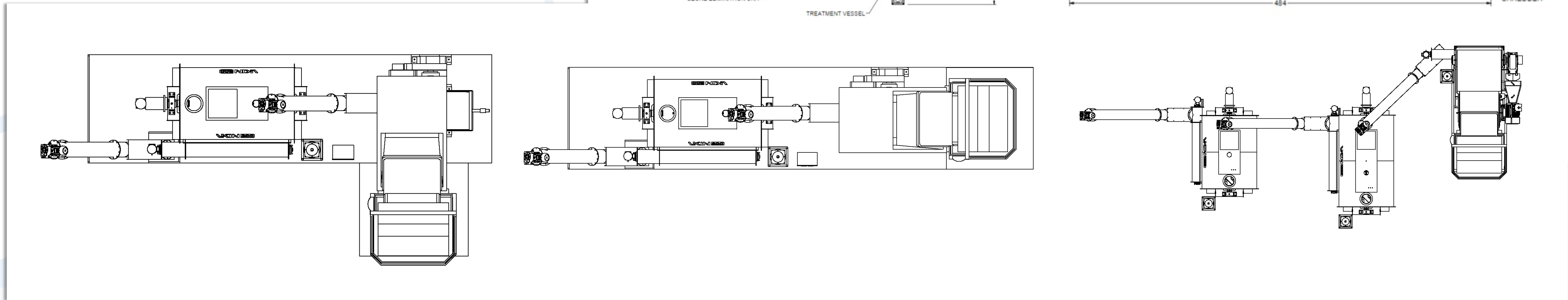
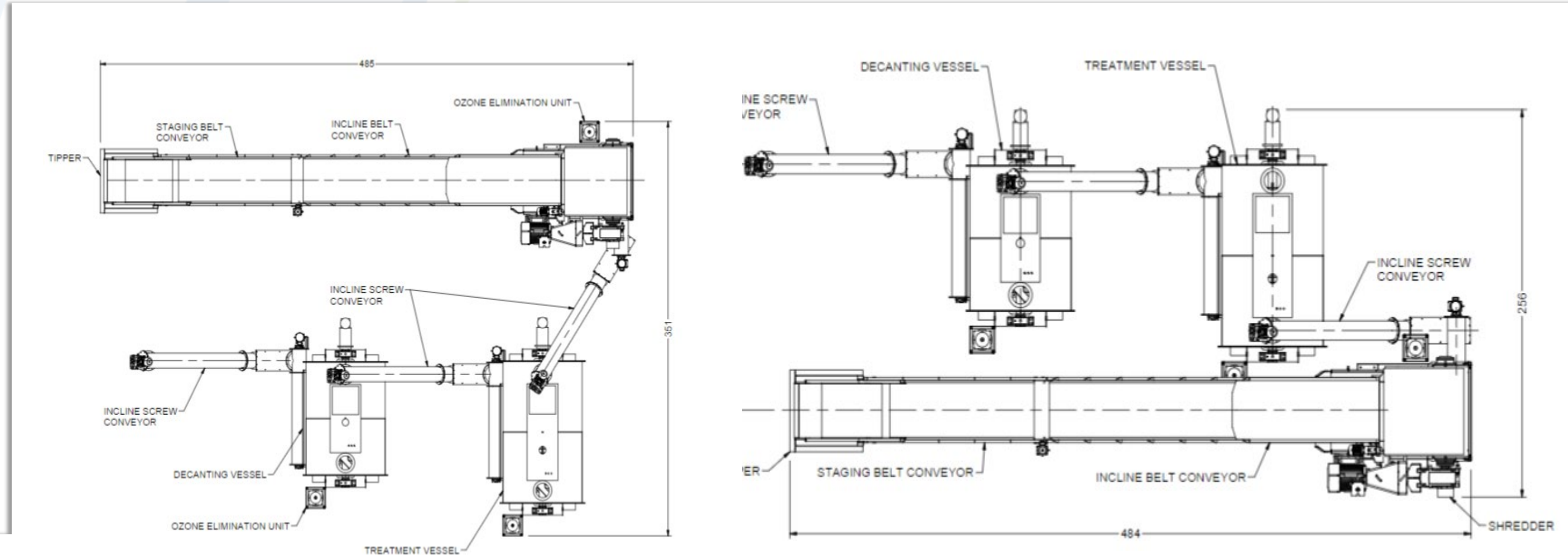
- ✓ The VKIN-1200 batch system with up to 1,200 kg/hr output
- ✓ Continuous operation with multiple configurations to fit any facility
- ✓ Available with conveyor or bin dump loading options
- ✓ ~ 79 kWh power consumption
- ✓ Zero emissions and lowest operating costs



MULTIPLE CONFIGURATIONS

Our modular design and low profile allow multiple configurations and savings for civil work at the site.

Available in both conveyor and bin lift dump options



UNMATCHED EXPERTISE



**S I M S O N
M A X W E L L**

Simson-Maxwell, Ltd. (“SM”), a majority-owned subsidiary of Viking Energy Group, Inc., is the exclusive manufacturer of the **VKIN Ozone** system. SM has more than 80 years’ experience in industrial power generation, design, assembly and installation, and its team of talented engineers works closely with **Viking Ozone Technology, LLC’s** (“VOT”) representatives who have more than three decades of experience with the commercial and industrial application of ozone. Combining the unique experience of SM with the incomparable expertise and care of VOT’s team allows us to offer an unparalleled cleaner, safer and sustainable solution to waste treatment.





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