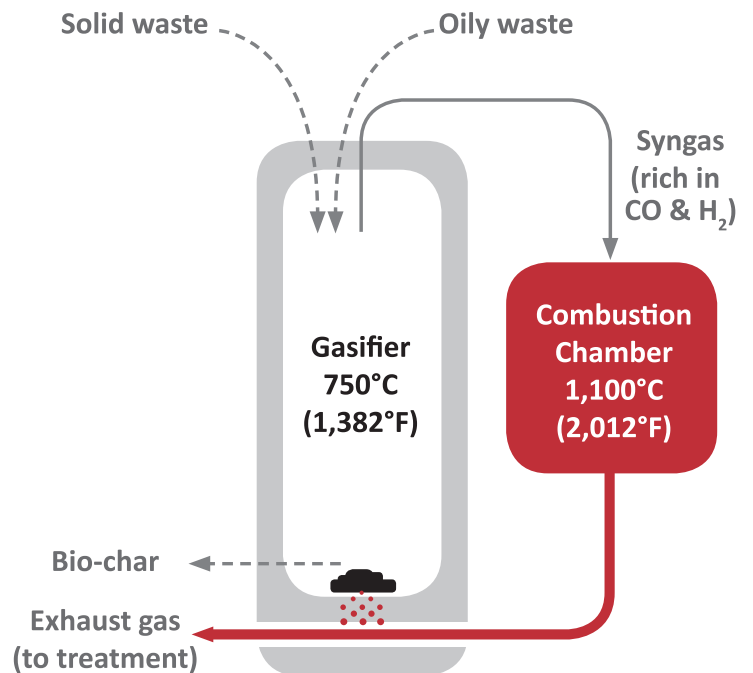


# Energy Generating Device Fuelled by Waste



**Enabling hotels, hospitals, isolated communities, ships, work camps and others to eliminate their waste locally while recovering useful resources**

- Accepts plastic, paper, food, oils, textiles, wood, sludge and other combustible waste
- Converts combustible waste to a safe bio-char and useable thermal energy
- Eliminates the negative impact of landfilling, transportation and/or incineration
- Requires little fuel as it produces its own
- Simple to operate – no shredding, compacting or pre-treatment of waste
- Reduction of waste volume by up to 95%
- Fully automated, safe and easy to operate
- Meets both land and sea based environmental regulations
- Reduced health and safety concerns



Auto Gasification is Terragon's patented technology. It thermally breaks down waste into bio-char and syngas, which it uses to make the process self-sustaining.

## TECHNICAL SPECIFICATIONS – MAGS V7

Total Weight	5,000 kg (11,000 lbs.)
Overall Dimensions	3.4 m (L), 2.6 m (W), 2.2 m (H) Multi-configurable where there are space restrictions

## PERFORMANCE

### OPERATING CONDITIONS

Nominal Solid Waste Throughput	The throughput depends on the bulk density of the waste. A typical waste loading containing 50% food would be eliminated at a rate of 40 kg/hr (88 lb/hr).
Sludge Oil Throughput	10-15 l/hr (2.6-4.0 gal/hr) up to 130,000 kcal/hr
Operating Temperature in Gasifier	750 °C (1,382 °F)
Operating Temperature in Combustion Chamber	1,100 °C (2,012 °F)
Types of Waste Streams	The MAGS appliances can accept a variety of waste streams, including but not limited to: paper/cardboard, plastics, food, wood, rags, oils, solvents, sludge, combustibles etc.

### THERMAL ENERGY

MAGS outputs	Approximately 70-80 kW of energy in the form of hot water and/or hot air
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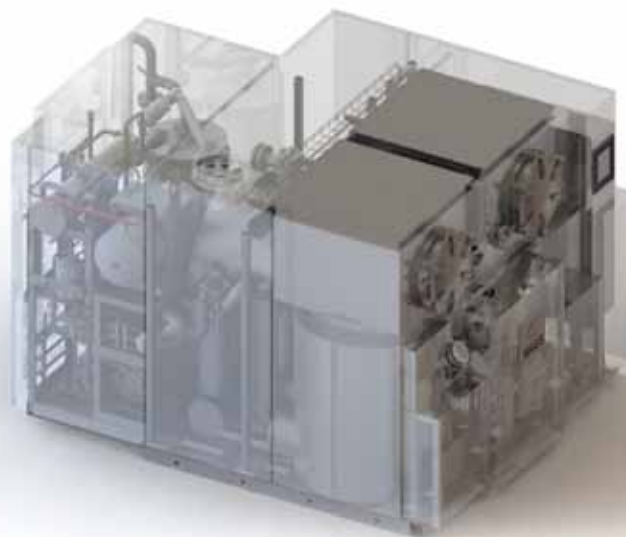
### UTILITIES/CONSUMABLES

Electrical Consumption	22 kW, 440 VAC, 50/60 Hz
Type of Fuel	Light oil #1 or #2 (diesel), Natural gas
Fuel Consumption:	
• for start-up (2-3 hrs/day)	• 7.5 l/hr (2 gal/hr) for start-up.
• for waste processing (no fuel required at standardized waste feeding rate)	• Depending on waste composition and waste loading frequency.
Caustic (NaOH 10 wt %)	0.1 l/hr (3.4 fl.oz/hr)

### EMISSIONS

Gaseous	Total flow approximately 120 CFM (204CMH) at 50 °C (122 °F). MAGS Appliance complies or exceeds with applicable air emission regulations for incinerators worldwide.
Water	5–20 l/hr (1.3-5.3 gals/hr), depending on application and waste composition.
Bio-char	Approximately 8% in weight of the total waste treated
Audible	Less than 75 decibel
System's Surface Temperature	Less than 40°C (104°F)

Specifications subject to change without notice



- Training and optional remote monitoring of the system provided.
- Compact design that can liberate space
- Delivered fully assembled for simple installation