

Bio-Gas Enclosed Flare System (Bio-VCU Series)

GENERAL:

- Suitable for use in all bio-gas applications – landfill, wastewater treatment, food processing, breweries, etc.
- Provides ground based, completely hidden combustion process
- Provides smokeless combustion
- The combination of residence time, elevated combustion temperatures, and a turbulent mixing zone create greater combustion efficiency
- Temperature controlled to ensure the highest destruction efficiency throughout the waste gas flow range

SELECTION CRITERIA / ADVANTAGES

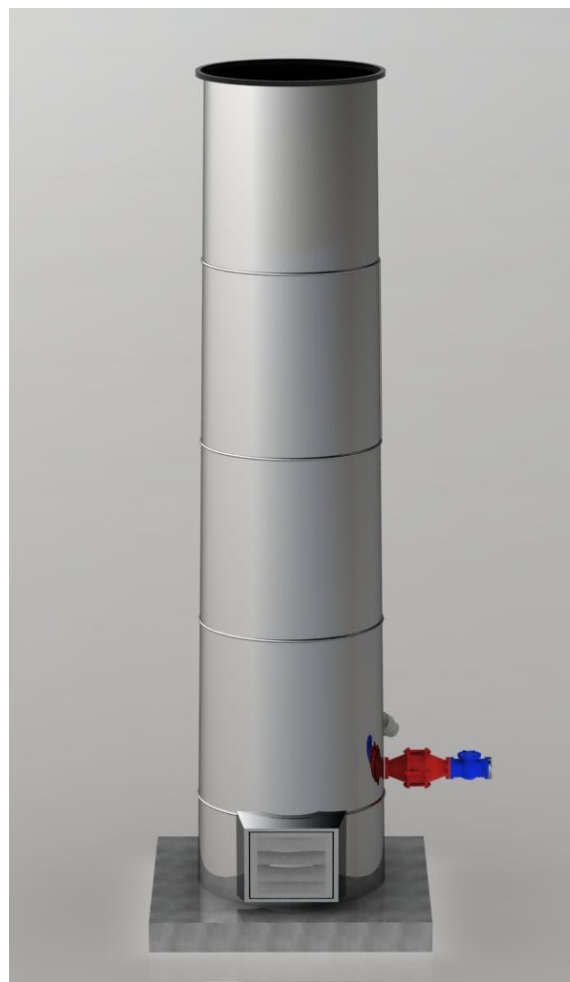
- Smokeless flow rates of up to 100% of total waste gas flow
- Minimal noise signature
- No radiant heat allows installation next to equipment and personnel
- Sampling ports allow for in situ emissions testing
- Stable and reliable combustion

PRINCIPLE APPLICATIONS

- Landfills
- Wastewater treatment
- Food processing
- Breweries

DESIGN FEATURES

- Burners, pilots, stack, manifolds, rain shield, valves, and flame / detonation arrestor material selection suitable for highly corrosive waste gas conditions including presence of H₂S
- Encore ContraFlash anti-flashback waste gas burners provide safe, efficient and reliable combustion
- Encore Energen pilots provide reliable and instantaneous ignition
- Optional secondary flashback protection with a flame or detonation arrestor
- Carbon steel combustion chamber with high temperature refractory lining
- Natural draft combustion air delivery system
- Optional purge blower assembly





SPECIFICATIONS

EMISSIONS:

- NO_x emissions: < 0.06 Lbs/mmbtu
- CO emissions: < 0.11Lbs/mmbtu
- 99.5%+ destruction efficiency

DIMENSIONS:

- Standard height: 20'- 60' + [6.1 m – 18.3 m +]
- Diameter: 24" - 144" + [610 - 3658 mm +]

STANDARD MATERIALS:

- Combustion chamber: refractory lined carbon steel
- Burners: 316SS
- Burner Manifold: 316SS

