

COMBUSTION SOLUTIONS FOR THE BIOGAS AND RNG MARKET



Integrated Combustion Equipment & Solutions

As a leader in the biogas industry with decades of experience, John Zink Hamworthy Combustion (JZHC) offers combustion solutions designed to help you optimize your entire biogas system and meet even the toughest environmental regulations. Our combustion equipment is specifically designed to meet the changing demands of the Renewable Natural Gas (RNG) market and can be seamlessly integrated into your RNG facility.

BIOGAS THERMAL OXIDIZERS

ZBRID HYBRID THERMAL OXIDIZER

JZHC offers a cost-effective alternative to traditional thermal oxidizers with our ZBRID Hybrid Thermal Oxidizers, designed to effectively destroy low methane waste gas streams from CO₂ stripping processes and landfill perimeter wells.

- » Oxidizes low BTU off gasses (typically less than 20% CH₄) from CO₂ stripping processes and landfill perimeter wells
- » Field-proven design and technology with more than 10 years of operating history
- » Achieves a 98% or greater destruction efficiency
- » Substantial fuel usage savings compared to traditional biogas flares
- » Can operate with natural gas or biogas as a fuel source
- » Customizable options available



» ZBRID HYBRID THERMAL OXIDIZER



BIOGAS FLARES

ZEF™ Elevated Flare

ZEF™ Elevated Flares are built for the biogas industry and seamlessly integrate into RNG facilities. We also offer a range of options to ensure that you get the perfect solution for your specific needs.

- » Designed for raw biogas, off-spec RNG, or a combination of gas streams
- » Greater than 10:1 instantaneous turndown without adjustments
- » Unique skid-mounted ZNIX hydraulic design to eliminate the need for a crane during start-up and maintenance
- » Customizable options available

ZTOF® Enclosed Flare

ZTOF® Enclosed Flares are specifically designed for the biogas and RNG market and integrated seamlessly into your operations.

- » Designed for raw biogas, off-spec RNG, or a combination of gas streams
- » Up to 10:1 instantaneous turndown without adjustments
- » Capable of combusting high and low-pressure streams simultaneously
- » Customizable options available

Other Equipment & Services

JZHC also offers a range of other equipment and services to support the biogas industry:

- » ZULE® Ultra Low Emissions Flare
- » Gas Conditioning and Blower Skid Packages
- » ZES Evaporator Systems
- » Aftermarket and Service, including Rentals, Retrofits, Parts, Emissions Testing, Preventative Maintenance, Emergency Callouts, and Startup Services
- » Customizable options available for some products and services



» ZEF™ ELEVATED FLARE



» ZTOF® ENCLOSED FLARE

To learn more about our biogas solutions, please visit JohnZinkHamworthy.com or email biogas@johnzink.com.

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