

# **ZULE® Biogas Flare**

Zink Ultra Low Emissions

# Advanced Technology, **Field-Proven Performance**

The ZULE (Zink Ultra Low Emissions Flare) delivers superior performance for biogas markets through exclusive, advanced technology. No other solution has more units in operation or a longer history of proven performance. The ZULE offers the lowest achievable NOx emissions in the industry, tested as low as 3-4 ppm, and near-zero CO emissions for temperatures as low as 1200°F.

## More Features, More Control

- + Field-proven and tested performance for both landfill and digester gas applications
- + Successful service record with systems in operation since 1998
- + Greater than 99.5% overall (99.9% methane) DRE expected
- + Less than 0.02 lb / MMBtu NOx achievable
- + Capacities up to 6,000 SCFM with a single ZULE flare
- + Lower operating temperatures and less noise than standard enclosed flares
- + Adjustable excess air to meet stringent emission requirements

The ZULE offers the lowest achievable NOx emissions in the industry. That's smart. That's JZHC.

Mixer **Biogas** Air From Blower Pre-mixed Burners

Flare



**Actual NOx Results** 

NOx emissions 75% lower than standard enclosed flares.



The CO "spike" associated with low operating temperatures is eliminated.

### **How It Works**

The static mixer blends biogas with air, pre-combustion, to achieve superior emissions. With the ZULE, the air rate is calculated and controlled through the control panel and changes automatically through variable speed drives, depending on your biogas flow rate.

The ZULE flare has a specialized burner design specifically related to the pre-mix technology that offers greater flame stability and extra safety measures for flashback prevention.

GLOBAL REACH

JZHC has locations all over the map, with thousands of employees worldwide.

### A KOCH ENGINEERED SOLUTIONS COMPANY

## JOHN ZINK HAMWORTHY COMBUSTION®

#### **Global Headquarters**

johnzinkhamworthy.o +1 918 234 1800 Tulsa, Oklahoma | United States

To locate an office in your region, visit johnzinkhamworthy.com/contacts/office-locator

