

# FREE JET™ POWER BURNER

The Evolution of Innovation



BURNERS | FLARES | THERMAL OXIDIZERS  
VAPOR CONTROL | RENTALS | AFTERMARKET



# FREE JET™ POWER BURNER

## THE EVOLUTION OF INNOVATION

### Patented design. Maximum performance.

At Zeeco, innovation doesn't drive us; we drive innovation just like we've done for more than three decades, with thousands of worldwide installations to our name. The ZEECO® GLSF Free Jet power burner is one example of our relentless commitment to help steam-generating industries:

- Meet global compliance standards
- Operate cleaner and more efficiently
- Produce the lowest NOx emissions
- Experience exceptional burner reliability, lowest cost of operation, and long equipment life
- Discover a dedicated aftermarket parts, service, and support system that's second to none.

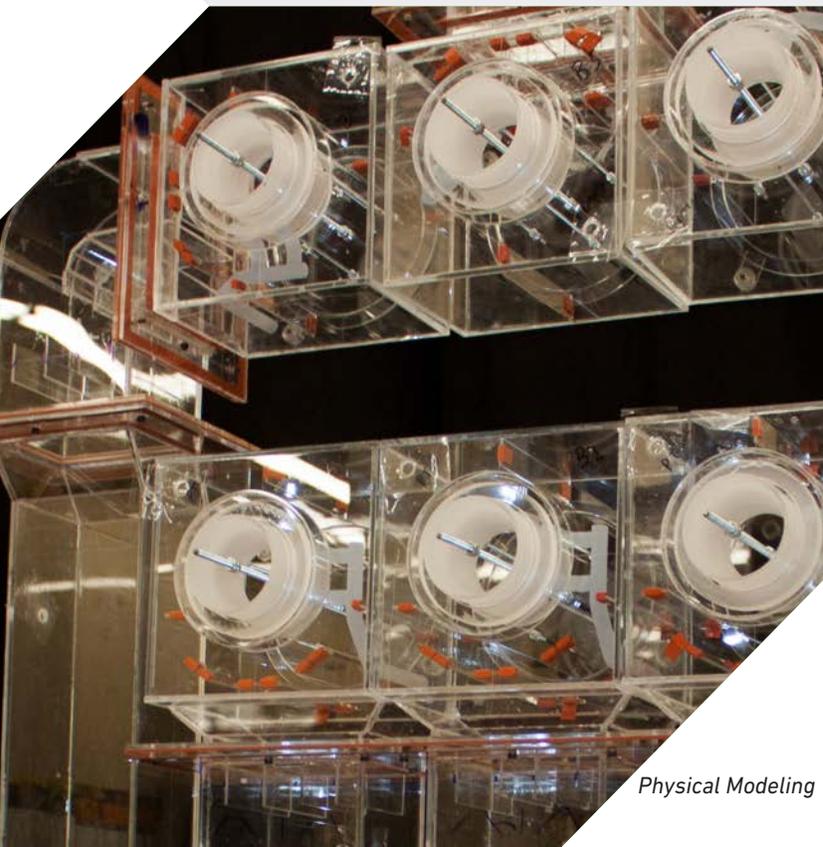
Zeeco's Free Jet power burners use our patented technology that adds fuel staging to the proven Venturi design and free jet mixing theory, reducing emissions in some applications to as low as single-digit numbers. With Free Jet power burners already hard at work in the refining, petrochemical, power, LNG, municipality, pulp and paper, pharmaceutical, and other industries

that require steam generation, Zeeco is renowned for engineering an evolution of burners that deliver unparalleled results.

### Free-Jet features and benefits.

Advancing long-proven burner designs to operate safer and more efficiently is nothing new for Zeeco. As a matter of fact, we've led the charge to transform the emissions-heavy, fuel-draining burners of yesterday into clean, fuel-conservative systems that deliver maximum performance under the harshest conditions. Here are some of the unique features of the ZEECO Free-Jet:

- Operates on refinery gas, natural gas, or dual fuels, such as fuel oils
- 9 ppm NOx, sub-50 ppm CO with minimal external flue gas recirculation (EFGR)
- 30 ppm NOx potential with no EFGR
- Physical/CFD modeling available
- Smaller fans mean less electricity and lower CO2 for a green combustion operation



Physical Modeling



ZEECO GLSF FREE JET Burner



Petrochemical Plant

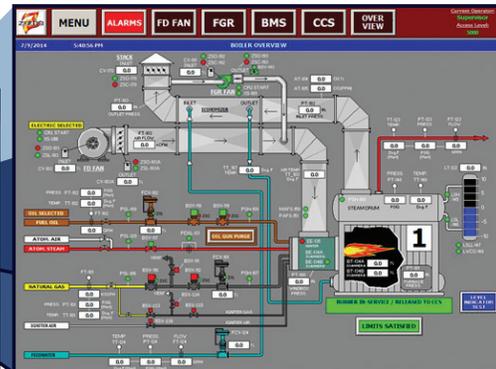


Power Plant



Institutional

- Less, or even zero, EFGR ductwork, hangers, and expansion joints
- Less boiler impact, including on convective sections
- +360 mmbtu/hr heat release per single burner
- 20:1 fuel turndown potential
- Zeeco burner management systems ensure your operation remains in compliance while maximizing efficiency and eliminating downtime due to aging controls



Package Boiler BMS HMI Overview Screen



Zeeco's test boiler is the largest of its kind in the world

### Global experience. Local expertise.

When it comes to revolutionizing combustion and environmental systems, Zeeco stands alone in its quest to solve the complex issues our global customers face now and into the future – from stricter regulations and higher fuel costs, to expensive downtime and unexpected service issues. With 20 locations, around-the-clock support, worldwide manufacturing facilities, and the largest industrial-scale test facility—and test boiler—on the planet, Zeeco offers the global experience and local expertise to transform your plant to a cleaner, more dependable operation.

**To learn more about Zeeco and our Free Jet power burner, call your local Zeeco engineer, email us at [sales@zeeco.com](mailto:sales@zeeco.com) or visit [Zeeco.com](http://Zeeco.com)**



Located at our global headquarters, Zeeco's industrial-scale product test facility is the world's largest and the first to be ISO-certified



## The Zeeco Difference

By concentrating on what we do best, Zeeco has grown into a worldwide leader in combustion and environmental solutions. We are a privately held company whose ownership stays highly involved in daily operations, with upper management comprised of the world's leading combustion experts.

When you call Zeeco, we answer. When you make a request, you get a quick, efficient response. We are lean and efficient, able to make decisions quickly, without bureaucracy and red tape. Our sales, engineering, and purchasing groups work hand-in-hand to deliver highly competitive quotes and heroic turnaround times. We stand ready and willing to travel anywhere in the world to discuss upcoming projects firsthand, and to ensure that every existing project runs seamlessly.



Visit [zeeco.com/contact](https://zeeco.com/contact) for additional Global Location contact information



Choose to work with our dedicated, flexible, and innovative team, and you won't be disappointed. Call or email us today to request a quote or to learn more about our proprietary combustion systems.

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REGISTERED  
ISO 9001:2015

Certification applies to  
Zeeco Headquarters.