

# PROCESS AND BOILER BURNER

Upgrades, Retrofits, & Controls



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



# PROCESS AND BOILER BURNER

## Upgrades, Retrofits, & Controls

### Combustion solutions that keep you in control.

Zeeco Europe engineers safe, reliable, end-to-end combustion solutions for refining, production, petrochemical, LNG, power, pharmaceutical, and biogas industries worldwide. With more than three decades of innovative technology to our credit, thousands of global installations, and a maintenance track record that is second to none, Zeeco designs the lowest-emissions combustion equipment on the market.

Our mission? To ensure your facility remains steps ahead of the latest safety and environmental codes.

Upgrading your process heaters or boilers can dramatically improve plant safety, reduce NOx emissions, maximise plant efficiency, and enable easier fuel changes. ZEECO® process and boiler burners, combustion control systems, and burner management systems are world-renowned for reliability and long life, helping you operate safely and cleanly – while staying on time and on budget.

### Why do plants depend on Zeeco?

Zeeco Europe attracts the best and brightest engineers from around the world, giving us a distinct advantage for experience, expertise, and innovation. Located in Stamford, Rutland, UK, with easy access off the A-1, the Zeeco Europe campus includes an ISO-certified manufacturing facility with the capacity to engineer our entire line of combustion and environmental

products, including burners, flares, thermal oxidisers, pilots, ignitors and more. Our research and test facility offers leading-edge technologies in CFD, 3D, and physical modelling. Zeeco Europe also offers superior aftermarket parts, service, and support with offices on virtually every continent.

### Put our strength to work for you.

- Low and ultra-low emissions process and boiler burners designed to fire a variety of fuels
- Clean room to ensure the highest component quality
- Customised systems including fuel skids built to meet your specific plant and process conditions, and your standards and certifications
- Instrumentation controls, including PLCs, HMIs, and other optional equipment
- Proven ignitor and flame-detection technology
- Site evaluations
- Start-up and commissioning
- Aftermarket parts for all burners, no matter which manufacturer
- Service contracts to include maintenance, emission monitoring, and furnace/boiler tuning to improve efficiency
- Around-the-clock troubleshooting, service, and on-site support

#### Challenge

- Improve safety
- Reduce emissions
- Maximise operational efficiency
- Enable fuel gas changes

#### Solution

- Initial site survey evaluation
- Attendance at end-users HAZOP and SIL evaluation
- Design, engineer, upgrade modifications required for single- and multi-burner systems
- Burners that meet or exceed existing and proposed emissions standards and operate on a variety of fuels
- Supply and installation
- Commission upgrade

ZEECO® products and systems meet all worldwide environmental standards.

### **Burner/Heater/Boiler Standards**

- EN 746-2: Industrial thermo-processing equipment Part 2: Safety requirements for combustion and fuel-handling systems
- EN 12952-8: Water-tube boilers and auxiliary installations Part 8: Requirements for firing systems for liquid and gaseous fuels for boilers
- NFPA 85: Boiler and Combustion Systems Hazards Code/Dock Safety Units (DSU)
- Vapor blower skids

### **Safety Standards**

- IEC 61508: Functional safety of electrical/electronic/programmable electronic safety-related systems
- IEC 61511: Functional safety – Safety instrumented systems for the process industry sector

### **Software Standards**

- IEC 611341-3: Programmable controllers Part 3: Programming languages

### **Other**

- ISO 9001: Quality management system

### **Emissions Standards**

- Directive 2010/75/EU: Industrial Emissions Directive

Talk to Zeeco Europe today to learn more about our hands-on approach to 100% customer satisfaction - no matter what your challenge, no matter where you're located.



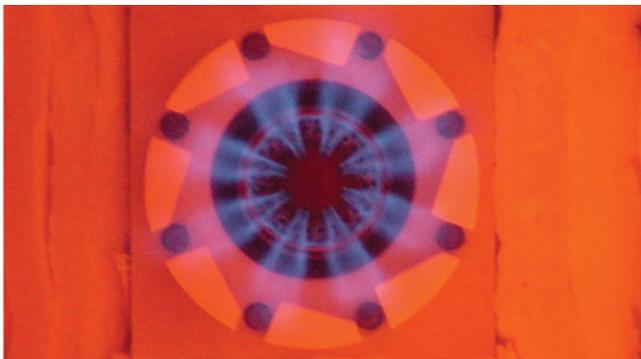
*Ultra-Low NOx Ethylene Cracker Upgrade*



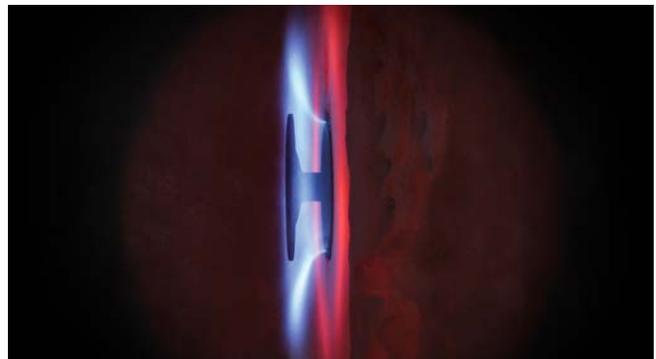
*Burner Management System*



*EN 746-2 Heater Upgrade*



*Ultra-Low NOx Boiler Burner Upgrade*



*Ultra-Low NOx Radiant Wall Burner*



## 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.