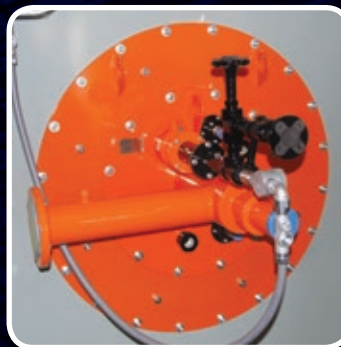




# GB LOW NO<sub>x</sub> POWER BURNER

Stable, Efficient Low Emissions Burner



COMBUSTION AND ENVIRONMENTAL SOLUTIONS.  
PURE AND SIMPLE.®

BURNERS

FLARES

INCINERATORS

PARTS & SERVICE

# GB LOW NO<sub>x</sub> POWER BURNER

*ZEECO ARGs High Energy  
Ignition (HEI) System*

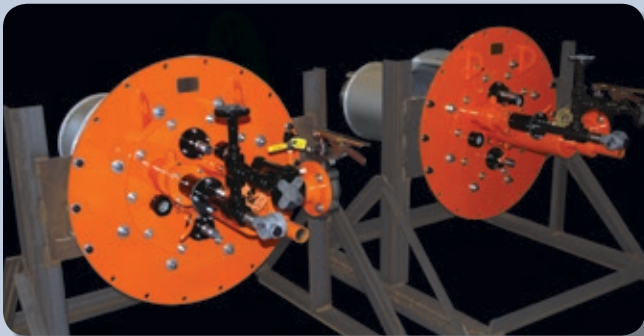


## Powerful choice in boiler burners.

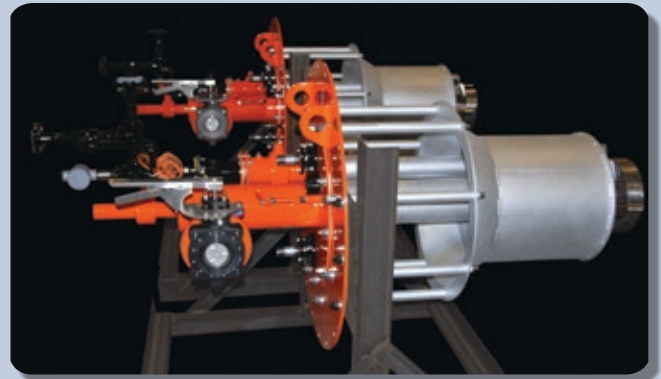
Zeeco designs and delivers the most reliable combustion solutions for power and steam generation facilities. It's a bold statement but one we back up with more than three decades of innovative engineering and a product maintenance track record that is the envy of other combustion companies. Operators worldwide trust Zeeco to engineer power burners that simply work better, more safely and with a lower cost of ownership. A global sales, service, and manufacturing footprint gives our customers a distinct advantage because our experts know both the local and regional regulations and can deliver even the largest burners on time and on budget, no matter where in the world you operate.

## Simple solution. Exceptional results.

We engineer our GB firing systems to simply solve complex issues. The ZEECO® GB burner is designed to be specifically compatible with your boiler and operational requirements. The GB Burner Series is easy to install for both new and retrofit applications in any boiler. It's inherently low NO<sub>x</sub> design means it operates efficiently with lower excess air, lower FGR requirements, and still delivers lower NO<sub>x</sub> emissions than the competition. With easy installation and no moving parts, our GB burner is engineered for quick startups – typically completed in a week with little to no field adjustment.



*ZEECO GB Low NO<sub>x</sub> Power Burners*



## True flexibility.

Zeeco's GB burner was designed around the idea of true flexibility. The GB Burner fires a wide variety of fuels including natural gas and liquid fuels, and can be equipped for both multi-fuel applications or as firing support for low Btu fuels. The Zeeco GB Burner series eliminates the need for special burner management systems or combustion control systems because the GB's simple controls are used for all applications. You benefit from total combustion customization and true flexibility in both new or retrofit projects.

## The extras aren't extra here.

At Zeeco, our approach is anything but "standard." We use Physical Flow Modeling and CFD to model your specific operating and firing conditions against the actual equipment design, allowing us to accurately simulate combustion air, flame behavior and interaction under various firing conditions, fuel types, and flows. The result? A system with superior results and lower cost of ownership. The same commitment to excellence applies to our complete combustion testing process. Our Combustion Research and Test Facility was the first in the world to become ISO 9001-2000 certified, and our staff strives to stay ahead of rapidly changing regulations and emissions requirements on both the local and national levels.





*Burner Management Systems*



## Design Features

- **Higher efficiency:** Lower excess air and FGR than the competition—lower CO<sub>2</sub> footprint and less boiler impact with lower capital cost
- **Wide variety of fuels:** Designed to fire fuels from natural gas, #6/#2 fuel oils, low Btu gases (blast furnace gas/ coke oven gas), opportunity fuels, waste streams
- **Highly reliable, field proven technology:** To meet even the most challenging emissions reduction projects while maintaining high efficiency and reliability
- **High heat inputs:** GB burners can be designed with heat inputs in excess of 360 MMBtu/hr per burner
- **Multi-industry applications:** One burner that can be applied to all boiler types, included package/industrial/utility/ fluidized bed/stoker boilers
- **New boilers:** Applicable for cost effective new boiler applications
- **Retrofit boiler applications:** The GB burner installation can be recognized with little to no pressure part modifications
- **Minimal start-up time:** Pre-engineered burner systems, along with physical modeling, allows for minimal field start-up time
- **Total system approach:** Full Scope of supply with BMS/combustion controls/valve trains/installation/commissioning
- **Value pricing:** Lower risk, safer, more reliable burner technology, backed by the strength of one of the world's largest and most trusted combustion companies

## The Zeeco difference.

Our only business is the combustion business. By concentrating on what we do best, Zeeco has grown into a worldwide leader in combustion 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 and efficient response. 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 the every existing project runs seamlessly.



*ZEECO Corporate Headquarters*



*ZEECO® GB Low NO<sub>x</sub> Power Burner*





**BURNERS**



**FLARES**



**THERMAL OXIDIZERS**



**PARTS & SERVICE**



**COMBUSTION AND ENVIRONMENTAL SOLUTIONS.  
PURE AND SIMPLE.®**

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**ZEECO® combustion solutions are designed and manufactured to comply with applicable local and international standards as defined by our customers.**

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REGISTERED  
ISO 9001: 2008

**CERTIFICATIONS APPLY TO ZEECO HEADQUARTERS.**