

# FIELD-ERECTED BOILERS

Zeeco Firing Systems



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

## Comprehensive Engineering Studies

- Environmental Compliance
- Efficiency Audits
- Fuel Conversions
- Unit Up-Rate
- Equipment Upgrades
- Capacity Increase

## Tangential & Wall Burners

- Ultra-Low and Low NOx
- Retrofitting
- High Efficiency
- Opportunity Fuels
- Firing System Optimization
- Stoker Aux. Gas / Oil Burners
- Opportunity Fuels
  - » Landfill Gas, Waste Gas, Coke Oven Gas, Blast Furnace Gas

## Warm-Up Burners

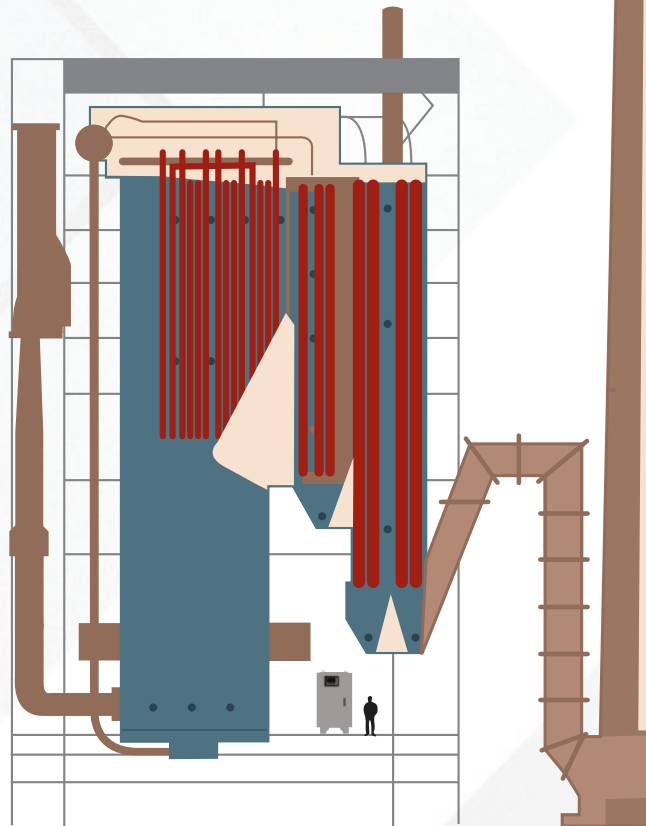
- Gaseous / Liquid Fuels

## Liquid Fuel Atomizers

- Heavy, Blended, Light Oils
- Waste Oils

## Pilots / Ignitors

- HE Direct Spark
- Specialty Fuels
- NFPA Class 1, 2, 3; Gas & Oil



## Technical & Installation Services

- Start-Up
- Preventative Maintenance
- Operator Training
- Full Turnkey Services
- Service & Repair

## Safety / Control Systems

- Combustion Control
- Burner Management
- Draft & Feedwater Control

## Flame Scanners

- UV
- Flexible Fiber-Optic
- Visible Light
- IF, IR Flicker Frequency

## Primary / Secondary Air Systems Flue Gas Flow Modeling

- Increase Efficiency, Turndown
- OFA Optimization
- Combustion Air Systems / FGR
- Stack Modeling
- Optimize Fuel / Air Mixing
- Reduce System Pressure Drop
- Lower O<sub>2</sub>, CO, NO<sub>x</sub>, Carbon Footprint
- Eliminate Vibration

## Fuel / Air System Upgrades

- Cost-Effective Solutions

# ZEECO POWER CAPABILITIES



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## PRODUCTS FOR STEAM & PROCESS

### Burners

- GLSF Free-Jet Ultra-Low NOx Burners
- GB Low NOx Dual Fuel Burner
- Register and Venturi Style Retrofit Burners
- Fluid Bed Start-Up Burners & Gas Lances
- Over Bed / Over Stoker Start Burners & Support Burners
- DB-LN Duct Burners

### Utility & Industrial Burner Systems

- Forced Draft Fans
- Windbox
- Fuel Trains
- Burner Management System (BMS)
- Combustion Control Systems
- Over-Fire Air Systems
- Flue Gas Recirculation (FGR)
- Scanner Systems

### Pilots / Ignitors

- Flexible Ignition / Warm-Up Guns for T-Fired Units
- Class 1 Gas / Oil Pilots & Warm-Up Guns
- Class 2 Gas / Oil Burner Support Pilots
- Class 3 Gas / Oil Pilots with HE capability
- Class 3 Special HE Only (Rigid & Flexible)

### Optimization Kits

- Z-Jet Low NOx Kits (Gaseous & Liquid Fuels)
- Ultra-Low Steam Usage Atomizers & Tips

### Safety / Control Systems

- Solid State
- Programmable PLC
- Single Point, Parallel Point
- Fully Metered Cross Limited Control
- O<sub>2</sub> Trim, VFD Fan Draft Control

### Flexible Fuel Capability

- Natural Gas
- No. 6 Fuel Oil
- No. 2 Fuel Oil
- Blended Oils
- Refinery Gases
- Waste Oils
- Opportunity Fuels
- Low Btu Gases
- Blast Furnace Gases
- Coke Oven Gases
- Landfill Gases
- High-Viscosity Fuels

## SERVICES

### On-Site Technical

- Start-Up
- Installation Supervision
- Preventative Maintenance
- Service Contracts
- Operator Training
- Aftermarket Parts

### Flow Modeling Center

- Physical & CFD Modeling
- Combustion Air Systems
- Flue Gas Recirculation Systems
- Over-Fire Air Systems
- Exit Gas / Stack Modeling
- Selective Catalytic Reduction

### Engineering Studies

- Environmental Compliance
- Efficiency Audits
- Fuel Conversions
- Capacity Increase
- Carbon Footprint Reduction

### Turnkey

- Coordinating Supply
- Equipment Modification
- Demolition / Installation
- Start-Up
- Operator Training
- Site Management

# GO ZEECO®

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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