





# **IGNITERS**

Dependable ignition solutions for industrial and utility burners with natural gas, propane, light oil, or high energy spark igniters. Faber has a complete line of igniters, ranging from 170,000 BTU/hr. to 20 MMBTU/hr., that will fit your application and provide hassle-free service in the harshest environments.

# **ATOMIZERS**

Faber's product line includes atomizers with capacities of 2.1 to 200 MMBTU/hr. Achieve optimal performance firing conventional and alternative liquid fuels with steam, air or mechanical atomization. Faber has an atomizer that will fit your existing burner and provide unmatched performance, reliability, and ease of use and maintenance.



SERVICE

There is no substitute for Faber factory services. Our highly skilled and experienced service staff can provide the following services:

- Start Up Service
- Maintenance
- Tune up
- Safety Check
- Operator Training
- Trouble Shooting
- Inspection / Evaluation Calibration



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**SPARE PARTS** 

We maintain an extensive inventory of parts. Thousands of items are ready for immediate shipment. To order parts online, please visit: www.burnerpartsnow. com, a division of Faber Burner Company.

**TECHNOLOGY** 

Our burner technology is advancing everyday. At Faber, innovation means that we continuously work to improve our products to meet the ever changing product and emission requirements.

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### BOILERS | DRYERS | HOT WATER GENERATORS | INCINERATORS | PROCESS HEATERS





# LOW NOx SOLUTIONS FOR FIRED EQUIPMENT

#### Custom Engineered Liquid & Gaseous Fuel Burning Solutions - Burner Capacities Of 10 To 300 MMBTU/hr.

Whether you need to retrofit your existing burner or select a burner for new plant equipment, Faber can provide high performance, low emission fuel burning equipment tailored to meet your application. Careful selection of application specific sub-systems provides Better Fit, Better Performance and Better Results!



### **BURNER REGISTER ASSEMBLY**

Faber provides burners of unparalleled flexibility and performance. Most designs allow up to three fuels to be fired independently or simultaneously. Offering rugged and user-friendly designs for nearly every application from Low NOx to alternative fuels.

#### Selection is application specific and is based upon the following:

- Emissions
- Fuel Type
- Heat Input
- Combustion Air Temperature
- Furnace Dimensions
- Site & Environment Conditions



# **WINDBOX**

Heavy duty engineered fabrication designed to house the burner assembly, supply the burner with a balanced, swirl -free source of combustion air, and structurally support many of the burner's sub-assemblies if required.

#### Selection is application specific and is based upon the following:

- Shape & Layout To best fit the equipment to be fired.
- Firing Orientation Horizontal or Vertical
- Combustion Air Location & Temperature
- Quantity of Burners Required



## FORCED DRAFT FAN

The burner's source of combustion air. Forced draft fans can be windbox top mounted (up to 125 HP) or remote mounted. Remote mounted fans can be either existing, supplied by others, or supplied by Faber.

#### About Faber Supplied Fans:

- Application Specific Selection For **Optimal Efficiency**
- Equipped with pre-mounted auxiliaries (switches, brackets, linkage)
  - Complementary Equipment -If Required
  - Fan Silencer
  - Rain Hood
  - Dampers
  - IFGR System (Induced Flue Gas Recirculation) – For NOx emissions



### **FUEL PIPING/VALVE** TRAINS

Engineered systems designed to safely supply and control the burner's fuel and atomizing media as required. Valve trains can be mounted on the windbox or rack mounted for installation near the burner. Valve trains can be either existing, supplied by others, or supplied by Faber.

#### About Faber Supplied Valve Trains:

- Application Specific Sizing & Component Selection
- Designed per NFPA guidelines and customer specification
- Various Construction Options From standard to ASME B31.1 or B31.3
- Various Electrical Wiring Options – From NEMA 12 to hazardous locations such as Class 1 Division 2
- Arrive ready for service. Fully installed, wired, tested and painted.

# **CONTROLS**

Safely and efficiently controlling the burner's operation is the role of the control system. Burner control is divided into two categories: Burner Management System (BMS) and Combustion Control System (CCS). Controls can be either existing, supplied by others, or supplied by Faber.

The BMS is a safety system that starts and stops the burner in the proper sequence and monitors the burner flame and safety limits during operation. In the event a safety condition is not met, the BMS will halt burner operation and alert the operator of the unsafe condition.

The CCS is comprised of both mechanical and electronic components and equipment that controls the burner's fuel-to-air ratio and firing rate.

### About Faber Supplied Controls:

- best practices
- basic to complex





Application Specific Selection

• Compatible with the burner

Designed per NFPA guidelines & industry

• Various control schemes available – From

• Arrives fully tested and ready for service

### PACKAGE BURNER **SYSTEMS**

The Total Package - Windbox (WB) package burners are custom-engineered, industrial fuel-burning systems designed for optimal combustion performance while providing safe, reliable, and user-friendly operation.

This premium project-specific product arrives pre-piped, wired, and fully tested, ready for operation.

The design flexibility and the modular nature of Faber's (WB) package burner allows this product to be applied to any new or existing fired equipment, regardless of make, model, age, or design.



