

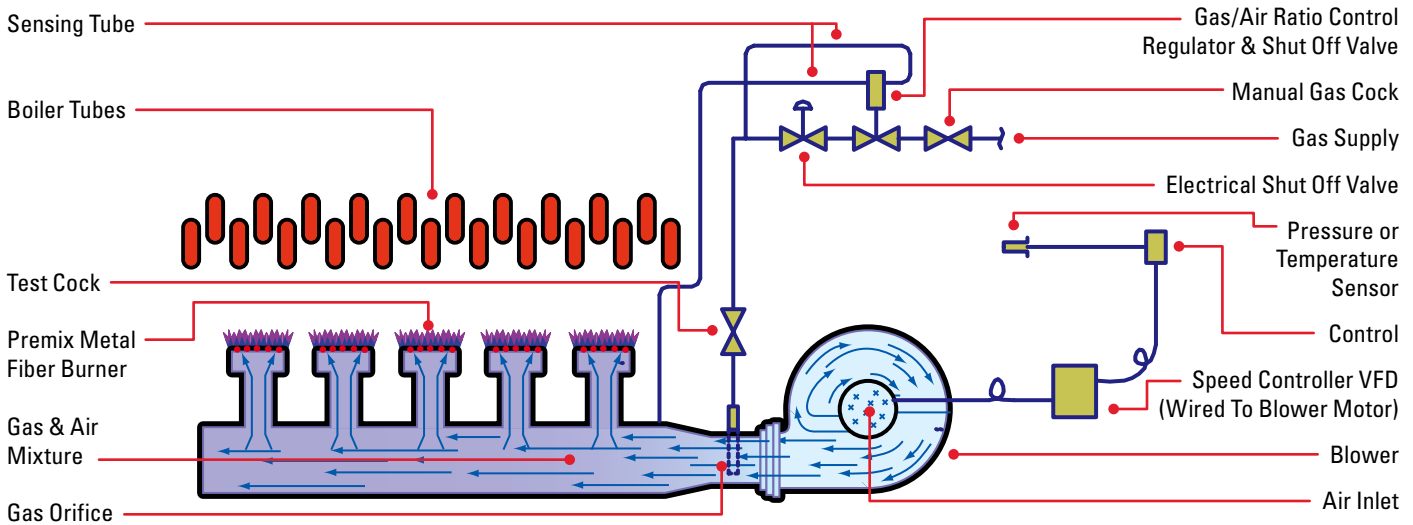
# PREMIX METAL FIBER BURNER LOW NO<sub>x</sub> SYSTEMS

The Solution to Pollution

Steam, Hot Water or Thermal Fluid



## Parker's Premix Combustion System



### 10. Resistance to Thermal Shocks

The MFB being 100% metal resists thermal shocks even of an extreme nature, thus, water splashed on the MFB surface while firing evaporates without leaving any trace of damage to the burner mat.

### 11. Retrofit Versatility

The burners can be retrofitted to most existing atmospheric boilers and can fit in tight spaces or through limited access boiler jackets.

### 12. Service

Parker Boiler Co. maintains a fully stocked fleet of service trucks in Southern California and our experienced Service Personnel are available to solve problems should they occur.

### 13. Utility & SCAQMD Awareness

The Southern California Gas Company has participated in factory and field testing of this burner system. Gas Co. Field Service Personnel have been trained on the

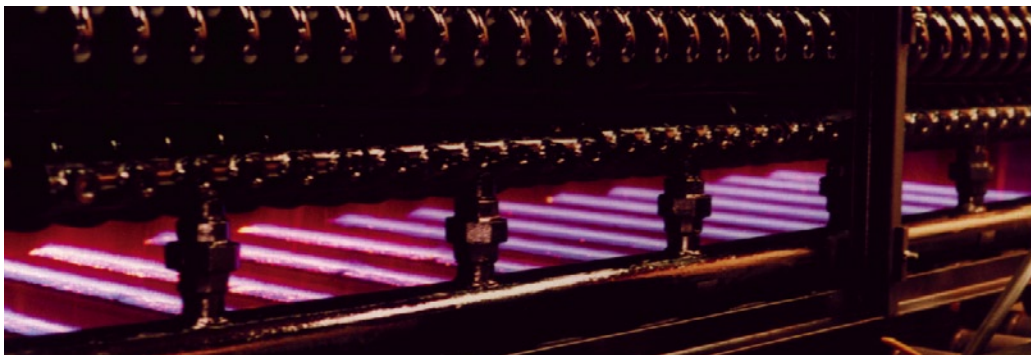
service and combustion adjustment of the burner system. This can be an important advantage to minimize field service expense. Additionally, SCAQMD has performed Source Tests on the system in Parker Boilers.

### 14. Experience

Parker Boiler Co. has been manufacturing Boilers and Thermal Heaters in the Los Angeles area for over 60 years. Hundreds of users are on-line with the Parker System. We have a great inter-

est in helping boiler users comply with the current Low NO<sub>x</sub> Regulations. We are in a strong financial position to back up and service what we sell. We are not a "Start Up" company capitalizing on the current Low NO<sub>x</sub> Regulations.

Contact Parker Boiler Co. at the address below for New Boiler or Retrofit Applications.



Pictured at left is a view through one of the large inspection doors of our 150L model. You can see the Low NO<sub>x</sub> Metal fiber burners firing under our sectional tubes providing even heat distribution to the entire heating surface.

**PARKER BOILER CO.**  
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BROCHURE LOW NOX 0B8



**"Never a Compromise for Quality or Safety"**



# PREMIX METAL FIBER BURNER LOW NO<sub>x</sub> SYSTEMS

The Solution to Pollution  
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## LOW NO<sub>x</sub> PREMIX TECHNOLOGY WITH HEAVY DUTY METAL FIBER BURNERS

The Parker System offers many advantages of Low NO<sub>x</sub> and CO Emissions, uniform heat distribution over the entire heating surface and improved efficiencies.

The boiler incorporates a burner bed of Heavy Duty Metal Fiber Burners (MFB). Through a gas/air premix manifold, the burners may be linked to a fully modulating blower mixer which offers precise control of combustion through the full range of modulation.

The Burner System is available on new boilers or for retrofit of Parker. Parker Boiler's System has been field proven on Parker and other types of boilers as a viable, extremely durable, Low NO<sub>x</sub>, efficient alternative.

## ADVANTAGES

### 1. Low NO<sub>x</sub>

The burner system will meet current Best Available Control Technology Requirements.

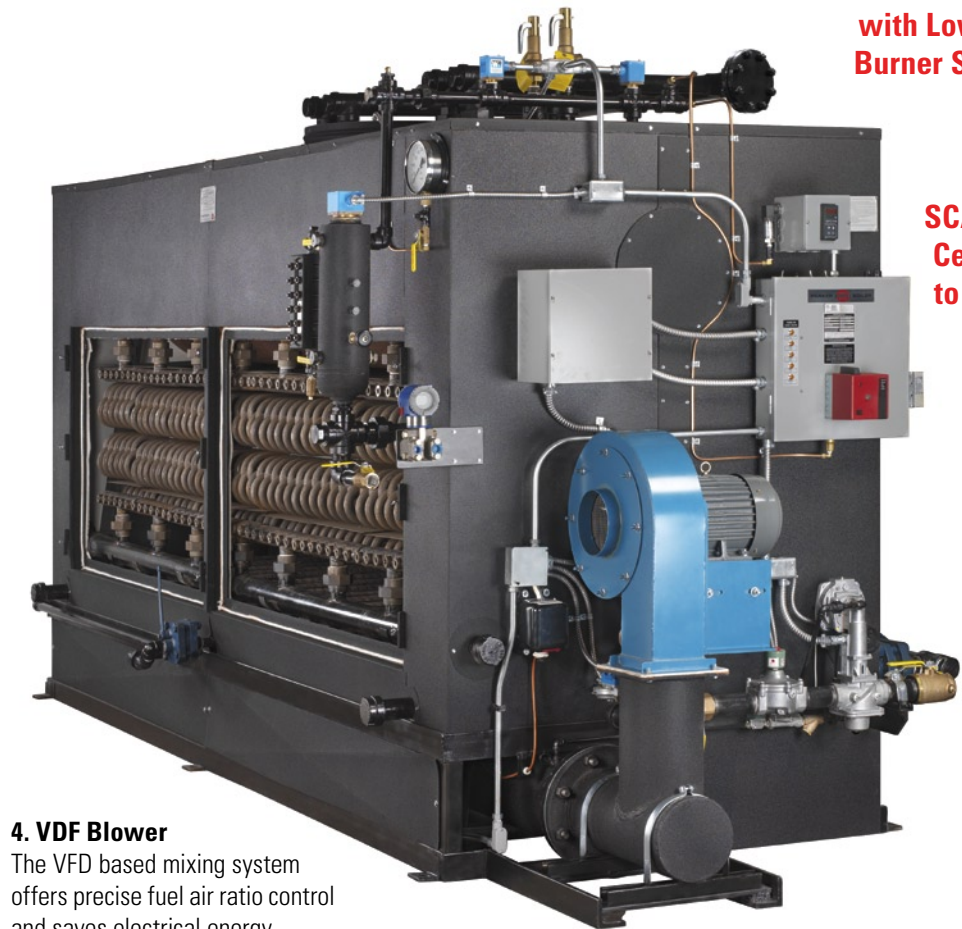
### 2. Premix Powered Combustion System

Offers the advantages of conventional powered burner combustion with few of the drawbacks.

### 3. Low NO<sub>x</sub> Experience

The Metal Fiber Burner has been used successfully in Europe for Low NO<sub>x</sub> Burner Systems for over 25 years. Some Parker installations have been on-line since 1991.

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BROCHURE LOW NO<sub>x</sub> 088



**Parker Steam Boiler  
with Low NO<sub>x</sub>  
Burner System**



**SCAQMD  
Certified  
to 1146.2**

### 4. VFD Blower

The VFD based mixing system offers precise fuel air ratio control and saves electrical energy.

### 5. Low Maintenance - Simple Adjustment

The VFD system has no FGR fan, butterfly valves or cams to adjust or service. An electronic and pressure based gas valve offers excellent NO<sub>x</sub> repeatability and is easy to adjust.

### 6. Durability and Testing

The Parker System offers an extremely durable and field proven Low NO<sub>x</sub> Premix Burner, with thousands of successful field installations in harsh boiler environments providing heat, day in and day out. Extensive factory and field testing has occurred since

1988 and The Southern California Gas Company has participated in this successful testing.

### 7. Improved Efficiency

Boiler operating costs can be reduced through more precise fuel air mixture control. In some situations, Utility Incentive Funding Programs may be utilized to lower the Owners bottom line investment in this improved burner system. Check with your local Gas Company Marketing Representative.

### 8. Even Heat Distribution

Unlike Conventional Power Burner Technology, the burner bed pro-

vides a uniform heat distribution on all boiler tubes for improved heat transfer and boiler efficiency. This provides longer tube life by eliminating concentrated firing on limited tube surface.

### 9. Safety & Certification

Even in tough confined operating conditions with the MFB surface heated up to 2100°F, the temperature upstream at the opposite mat face is at a comfortable 248°F; far below the ignition point of propane or natural gas. New Parker systems have achieved nationally recognized test labs Listings with the Metal Fiber Burners.

**"Never a Compromise for Quality or Safety"**

