



# ATMOSPHERIC LOW NO<sub>x</sub> BURNER SYSTEMS

## "LA" System

### LOW NO<sub>x</sub> ATMOSPHERIC TECHNOLOGY WITH STAINLESS STEEL ATMOSPHERIC BURNERS

The Parker "LA" 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 "LA" burner system utilizes horizontally configured Stainless Steel Atmospheric Burners. The Burner System is available on new boilers or for retrofit of some Parker Boilers.

### ADVANTAGES

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

The burner system will generate less than 30 PPM NO<sub>x</sub> at 3% O<sub>2</sub>

#### 2. Atmospheric Combustion System

This is the only non Power Burner or fan assisted Low NO<sub>x</sub> burner we are aware of to date available on a commercial or industrial boiler in the U.S.A.

#### 3. Simplicity

An Atmospheric System requires no FGR linkage or tuning. Maintenance cost are reduced.

#### 4. Efficiency

Due to proper gas air ratio control and elimination of most secondary air, significant efficiency gains are realized.

#### 5. Even Heat Distribution

Unlike Conventional Power Burner Technology, the burner bed provides 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.

#### 6. Durability and Testing

The Parker System offers a durable and field proven LOW NO<sub>x</sub> Burner. Many systems are in use providing heat, day in and day out. Extensive factory and field testing has occurred over the last 3 years.

#### 7. Burner Certification

The "LA" system has passed nationally recognized test lab standards and completed testing to UL795 Standard. Low NO<sub>x</sub> LA Boilers are ETL listed as "Industrial and Commercial Gas Fired Packaged Boilers" and certified to UL795.



Optional reverse trim shown

Parker Steam Boiler with Atmospheric Burner System



SCAQMD Certified to 1146.2

# PARKER BOILER CO.

NEVER A COMPROMISE FOR QUALITY OR SAFETY

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BROCHURE LOW NO<sub>x</sub> ATMOSPHERIC 0A2

Atmospheric Low NO<sub>x</sub> Systems

# ATMOSPHERIC LOW NO<sub>x</sub> BURNER SYSTEMS

## "LA" System



### Parker's Atmospheric Combustion System



**Parker Atmospheric Low NO<sub>x</sub>**

**Parker Atmospheric Low NO<sub>x</sub> Burners Firing in a Parker 50LA Steam Boiler**

#### 9. Burner

The stainless Steel Burners are placed horizontally in the furnace area evenly under all tubes. The large burner venturi and special orifice combination aspirates the proper amount of air for complete efficient combustion. The special Burner Ports create a very short, "Butterfly" type flame which is cooler than most Atmospheric burners. This allows combustion to occur with very low NO<sub>x</sub> emissions.

#### 10. Retrofit Versatility

The burners can be retrofitted to some existing Parker Boilers. Boiler capacity is derated in some cases.

#### 11. Experience

Parker Boiler Co. has been manufacturing Boilers and Thermal Heaters in the Los Angeles area for over 83 years. Hundreds of users are on-line with the Parker System. We have a great interest 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.

#### 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.

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

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**PARKER**  
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