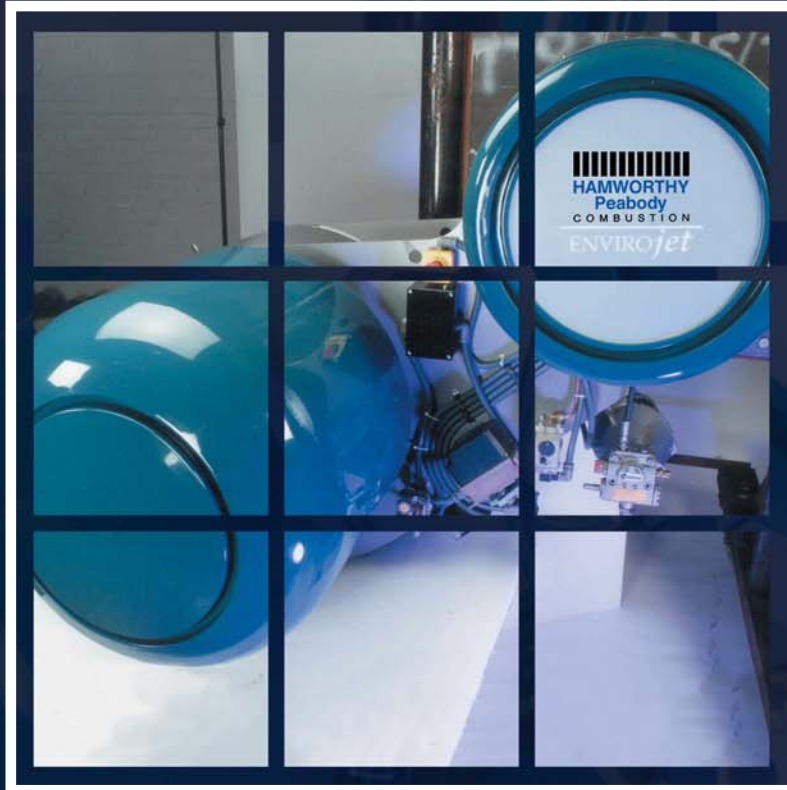


P R O V E N   C O M B U S T I O N   S O L U T I O N S

# Envirojet

Ultra-Low NOx Burners



HAMWORTHY  
Peabody  
COMBUSTION



Industrial Steam  
Generation



Utility & Power  
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COMBUSTION

# PROVEN COMBUSTION SOLUTIONS

## ENVIROjet ULTRA-LOW NO<sub>x</sub> BURNERS



The Envirojet Ultra-Low NO<sub>x</sub> Burner from Hamworthy Peabody Combustion incorporates innovative, next-generation technology that meets today's demanding emission requirements while maximizing operating efficiency.

- Ultra-low NO<sub>x</sub> emission levels without the extra equipment common to FGR systems
- No complex combustion controls needed
- Energy-saving design significantly reduces operating costs
- Flexible assembly compatible with various mounting options
- Key components are readily accessible for easy maintenance
- Suitable for Water Tube and Fire Tube boilers
- Decreased noise levels
- Single or dual fuel operation (Gas /#2 oil)
- Capacities: 6.5 - 71.7 million BTU/h

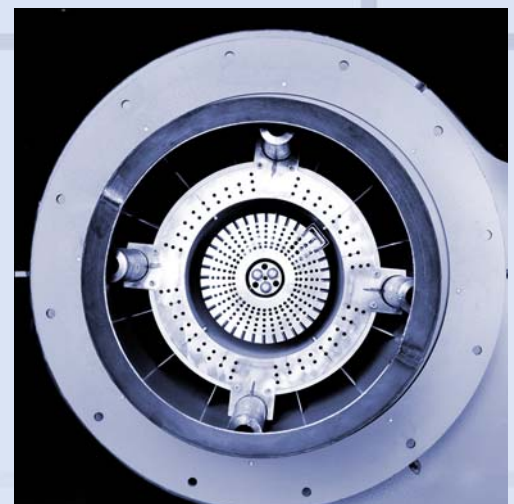


### Ultra-Low NO<sub>x</sub> Emissions

The Envirojet burner is the cost-effective solution to ultra-low NO<sub>x</sub> performance without the extra hardware associated with flue gas recirculation systems (FGR) and complex combustion controls. Actual NO<sub>x</sub> performance is application dependent, but less than 30ppm (corr. to 3% O<sub>2</sub>) is typical, with the option of water injection for further reductions of 10-20%.

### Lower Energy Usage

Use of the unique slip-stream motor/fan design (in capacities up to 50 million BTU/h) with a low draft loss combustion head and the absence of an FGR system result in electrical power consumption which is significantly lower than for competing burners. The use of an optional variable speed F.D. fan drive provides yet more energy savings.



## Reduced Noise Levels

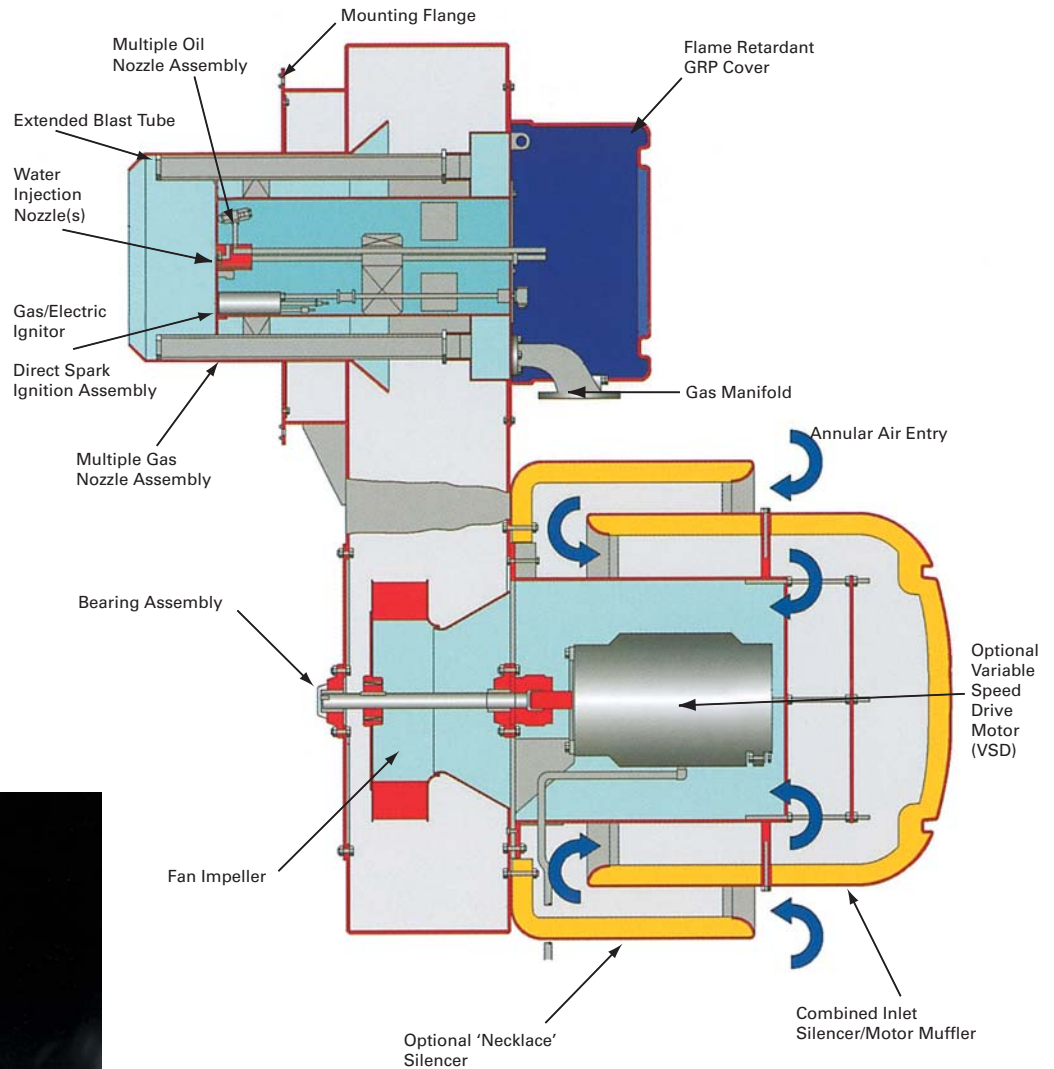
A motor muffler/silencer combined with the use of smaller drive units results in lower noise levels. An optional F.D. fan inverter drive results in even quieter operation.

## Versatile & Compact Design

The Envirojet burner is designed for angled or inverted installation and is pre-wired and fully assembled for easy fitting to the appliance. Additionally, its front air entry configuration results in a shorter combustion air system further contributing to a neat, compact profile.



## Hamworthy Peabody Combustion Envirojet Burner



## Maintenance

All routine maintenance can be easily conducted without removing the burner. Atomizers, ignitors, and monitoring equipment are easily accessible and the combustion head can be removed from the windbox as a single assembly.

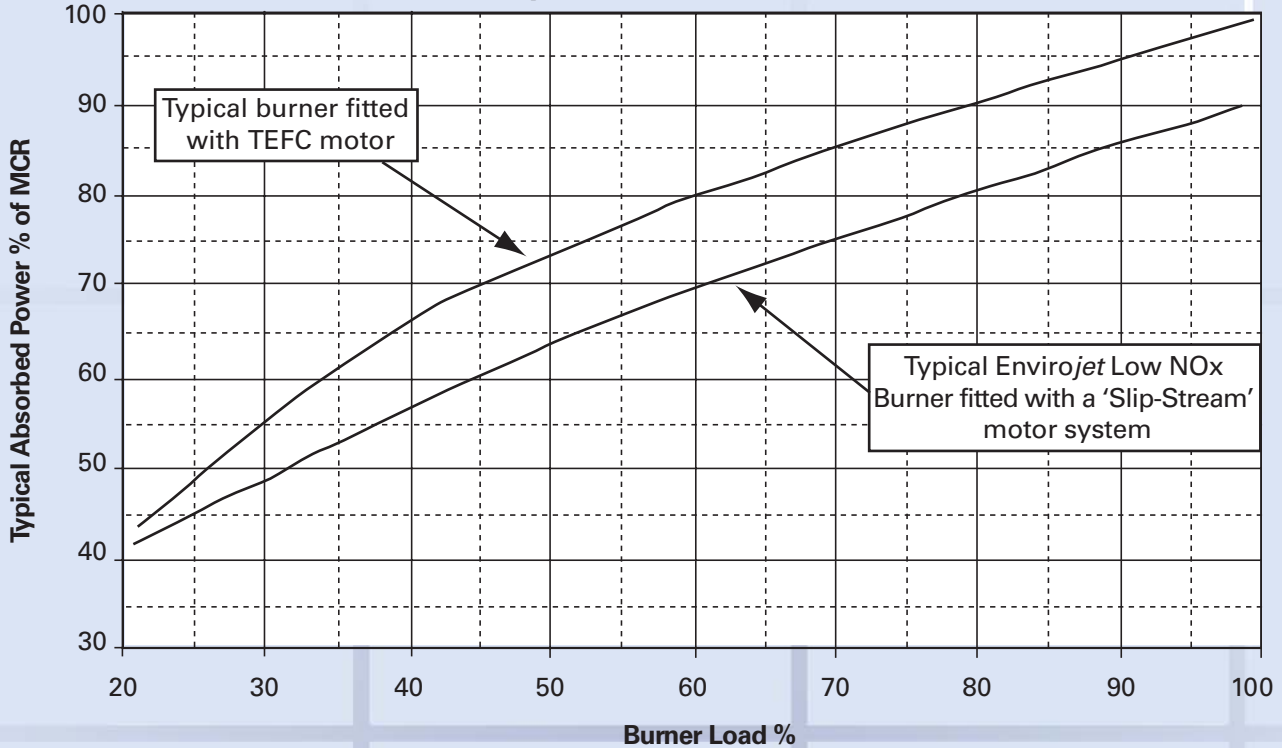
## Ignition System Options

The Envirojet burner is available in Direct Spark Ignition (DSI) for oil firing or with gas/electric ignitors fitted to gas (natural or LPG) and dual fuel designs.

## Accurate Burner Controls

Automatic sequencing, supervisory and modulating controls are housed in a steel cabinet and incorporate all necessary safety measures. Relay logic or P.L.C. based management controls with electrical, electronic or pneumatic modulation are available.

## Typical Energy Savings from 'Slipstream' Motor Design Secondary Air Fan Motor Power



The above comparison is based on generic motor efficiencies and does not take into account the use of high efficiency motors.

## Proven Combustion Solutions *Worldwide*



USA



UK



Brazil



Canada



China



France



Germany



India



Italy



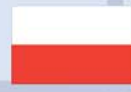
Japan



Mexico



Netherlands



Poland



Singapore



South Korea



Spain

For further information or to obtain a quotation dealing with any Hamworthy Peabody product, contact:

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