

New *Ultra*-Low NOx Burner Introduced

Hamworthy Peabody Combustion announces the introduction of the ECOjet™ ultra-low NOx burner.

After almost three years' of research and development, including the use of Hamworthy Peabody Combustion's SMARTflow™ flow modeling, and the resources of Hamworthy Combustion's world-leading Advanced Technology Center (14 test furnaces/testing burner capacities to 300 MM BTU/hr), the ECOjet™ evolved, offering ultra-low emissions. Every aspect of the burner from air entry to gas and oil nozzles to swirler was strategically designed, developed and tested using a full size burner.



Ignition is achieved using the highly reliable, self-cleaning, and low maintenance Chentronics' (a Hamworthy Combustion Group company) High Energy Direct Spark Ignitor. This state-of-the-art burst mode ignition with flashing indicator allows the operator to observe the ignitor condition during operation. This also eliminates the need for an ignitor fuel train. Gas-Electric ignitors are also available firing a wide variety of gases including natural gas, propane and coke oven gas.

Easy to Install, Easy to Operate, Easy to Maintain

- Ultra Low NOx on a full range of gaseous fuels (natural gas, propane, refinery gas, landfill gas, off gasses).
- Staged gas design provides extremely stable flames, up to 20:1 burner turndown, hot standby, available continuous pilot, and precise furnace warm-up.
- Low NOx on all liquid fuels (No. 2 through No. 6 fuel oil, ultra-heavy fuels such as pitch and bitumen).
- Applicable to package, industrial, and utility boilers ranging from single to multi-burner wall-fired, Turbo, and other boiler types.
- NOx levels <30 ppm without FGR
- Ultra-Low NOx (<10 ppm) with less FGR than other burners, greater efficiency, & lower CO₂ footprint.
- Burner ramp rates not limited by speed.
- Does not require complicated control systems.
- Reliable and virtually maintenance-free, self-cleaning High Energy Spark Ignition.
- Does not require special fuel or combustion air filtration or straining.
- Capacities to 400 MM BTU/hr.

See our Ultra-Low NOx ECOjet™ brochure on our website: www.hamworthy-peabody.com

An ISO 9001:2000 Approved Company