

Ultra-low NOx burners take off in France: Surpass legislation caps

The recent installation of two Hamworthy Combustion new generation Envirojet ultra-low NOx burners at Paris' Le Bourget airport have surpassed expectations in reducing emission levels, even under extreme turn-down conditions.

The burners were fitted in two 12MW replacement Alstom hot water boilers at the airport and represent the first Envirojet SFG installations in France.

Current EU environmental legislation caps NOx emissions at 120 mg/Nm³. Hamworthy Combustion guaranteed to achieve 100 mg/Nm³ with its equipment, but in practice the burners are recording 68 mg/Nm³, even at a turndown of 3 to 1.

Hamworthy Combustion's revolutionary Envirojet burners have achieved NOx levels as low as 45 mg/Nm³ at 3% O₂ for natural gas, and 160 mg/Nm³ for oil on fire tube boilers. This performance comfortably satisfies the most demanding of today's European emission requirements, without loss of efficiency, and will comply with new EU emissions Directives (2003/87/EC) (2004/101/EC).

Envirojet burners are available for oil, gas and dual fuel use. Gas operation is fully modulating, with stepped or full modulation available on oil depending on application. The burners offer:

- High Energy and fuel efficiency
- Low noise levels
- A flexible and compact assembly
- Accurate flame monitoring
- Easy maintenance

They comply with the following current and proposed British and European Standards and Directives:

- BS799 - Part 4 1991
- BS5885 - Part 1 1988
- Machinery Directive (2006/42/EC)
- Electromagnetic Compatibility Directive (89/336/EEC)
- Low-Voltage Directive (2006/95/EC)
- EN676: 2003 and EN267: 1999

The Envirojet performance figures at Le Bourget have set new standards in industrial emission control in France and have played an important part in helping Le Bourget attain its ISO 14001 accreditation.

For more information about our products and services visit www.hamworthy-combustion.com

