



Energy For Life

New Riello RS ULX Gas Burners With Patented Combustion Technology Produce Ultra-Low NOx Emissions Without FGR

LEGNAGO (Verona), Italy, 03 July, 2023 – Riello is releasing its RS ULX series of ultra-low NOx monobloc gas burners featuring patented combustion technology. Ideal for commercial and industrial boiler applications where there is a need to meet pollutant emissions regulations and customer requirements, the RS ULX range is homologated in the lowest available NOx class (class 4, 60 mg/kWh) of EN676. In addition, the new technology used in these innovative burners enables a high performance level as it can limit emissions to just 30 mg/kWh without external FGR (flue gas recirculation). Riello is part of Carrier Global Corporation (NYSE: CARR), global leader in intelligent climate and energy solutions.

“With the world’s growing emphasis on health and wellbeing, attention to pollutant emissions is becoming increasingly relevant, particularly in highly industrialised countries,” said Stefano Visonà, Product Marketing Manager, Global Comfort Solutions Europe, Carrier. “Recognising this requirement, we set about developing an ultra-low NOx burner that could meet and exceed existing regulation requirements to provide a solution for industrial and commercial gas boilers that produce hot water or steam.”

The European Commission’s Medium Combustion Plant Directive (MCPD) sets a NOx limit of 100 mg/kWh. Some highly populated cities including London, have even tighter restrictions, where the limit is close to 40 mg/kWh. Riello RS ULX series burners can help mitigate NOx emissions below both of these limits, when fitted on a properly sized boiler.

Riello RS ULX series burners achieve ultra-low NOx emissions with a far simpler design than conventional burners, avoiding system complexity and ensuring easy operation and maintenance in line with that of standard diffusive flame burners. The range is suitable for both new installations and the upgrading of existing boilers.

Characterised by Riello’s renowned product robustness and reliability, the distinctive feature of the brand’s latest innovation is its patented ULX combustion head. Operating on a principle of gas staging and the internal recirculation of exhaust gas, there is no longer any need for external FGR.

As a point of note, Riello RS ULX series gas burners are also ideal for highly demanding applications where standard combustion heads find it difficult to deliver low NOx emissions, such as the high-temperature combustion chambers of steam generators, superheated water boilers or diathermic oil boilers.

Six sizes in the Riello RS ULX series are available, offering thermal output up to 4.6MW. For more information visit [riello.com](https://www.riello.com).



- New RS ULX monoblock gas burners

About Riello

Founded in 1922, Riello is a leading brand in manufacturing systems and technologies for heating, cooling and energy efficiency in the residential and commercial sectors and a world-wide leader in combustion technology. Headquartered in Legnago (Verona), Italy, Riello operates in over 120 countries. Riello is a part of Carrier Global Corporation, global leader in intelligent climate and energy solutions that matter for people and our planet for generations to come. For more information, visit www.riello.com

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