

Riello Burners – a world of experience  
in every burner we sell.



Across the world, Riello sets the standard in reliable, high efficiency, low-maintenance burner technology. With burner capacities from 5 kW to 48 MW, Riello oil, gas, dual fuel and Low NOx burners deliver unbeatable performance across the full range of residential and commercial heating applications, as well as in industrial processes.

With headquarters in Legnago, Italy, Riello has been manufacturing premium quality burners for over 85 years.

The new manufacturing plant is equipped with the most innovated systems of assembling lines and modern manufacturing cells for a quick and flexible response to the market. Besides, the Riello Combustion Research Centre, located in Angiari, Italy, represents one of the most modern facility in Europe and one of the most advanced in the world for the development of the burner technology.

Today, to meet its customers' needs, Riello Burners has a sales and support network that spans over 60 countries.

Since the Company is constantly engaged in the production improvement, the aesthetic and dimensional features, the technical data, the equipment and the accessories can be changed. This document contains confidential and proprietary information of RIELLO S.p.A. Unless authorised, this information shall not be divulged, nor duplicated in whole or in part.



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## \* PRODUCT OVERVIEW



### R\_1000 – 1200

High Power Monobloc Modulating Gas and Dual Fuel Low NOx Burners  
New Monobloc Burners up to 12 MW



## R ... 1000 - 1200 New Burner Models

The well-known R\_300-800 Burners Series, till now available up to 8 MW, has been upgraded with new powerful burner models, the R\_1000-1200 models that extend his max output up to 12 MW.

The New Burner Models take the reliability of combustion and the solidity typical of Riello's Burners and match them with the most advanced solutions on Power Output Control and Ventilation Technology; as result a 12 MW output is supplied with a User Friendly monobloc machine assuring easiness of installation and servicing, safe operation, and environmentally friendly emissions.

The New Gas and Dual Fuel Models are available in various air-fuel ratio control configurations; Modulating operation, through Electronic Cam for higher performance and efficiency and through Variable Speed Drive technology to obtain both low noise emissions and electrical Power Saving. The New Burners allows Low NOx emissions.

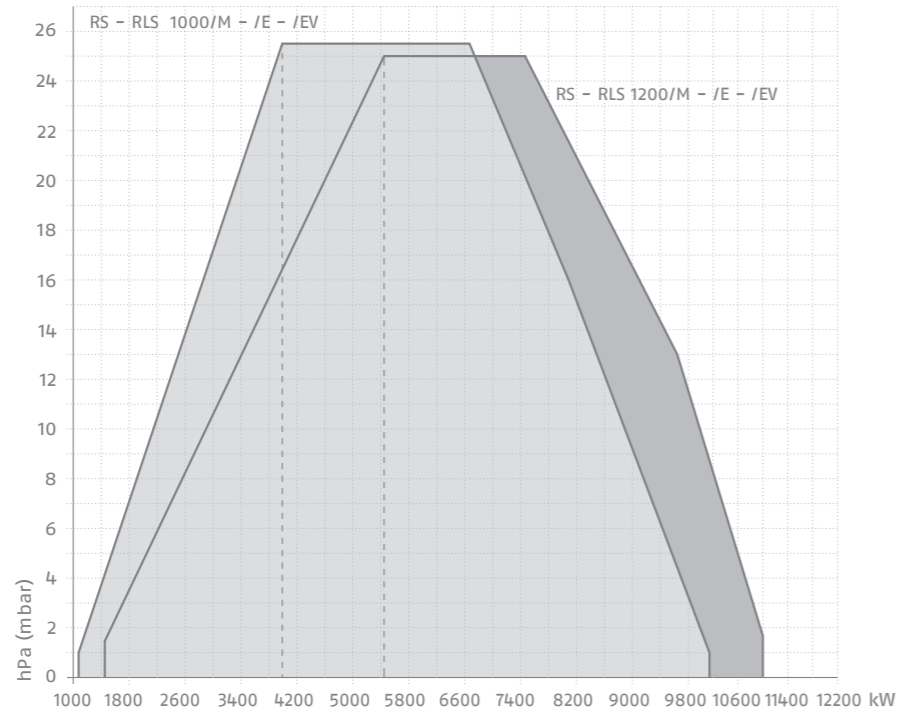
### Advantages at a glance

- Easy installation and servicing in spite of the relevant output thanks the monobloc configuration
- Low NOx emissions
- Low noise emissions thanks to the efficient ventilation circuit and sound proofing materials and solutions
- Modulating Operation for both fuels, Light Oil and Gas, with the installation of a PID logic regulator (integrated on /EV models)
- Continuous operation available as a standard on Electronic cam models (to be selected on menu).

### ... Other Distinctive Details

- Various configuration available for Gas or Dual Fuel combustion
- Modulating Operation for both fuels, Light Oil and Gas
- Excellent Output Control by Digital Burner Management Systems
- Energy saving and long life of oil pump assured by a dedicated pump motor
- Easy access to internal components by burner opening hinge
- PID modulation control included on /EV versions
- Optional oxygen control suitable for /EV versions.

### Firing rates



### Burner Models

/M, MECHANICAL CAM

Models  
RS - RLS 1000/M BLU  
RS - RLS 1200/M BLU

/E, ELECTRONIC CAM

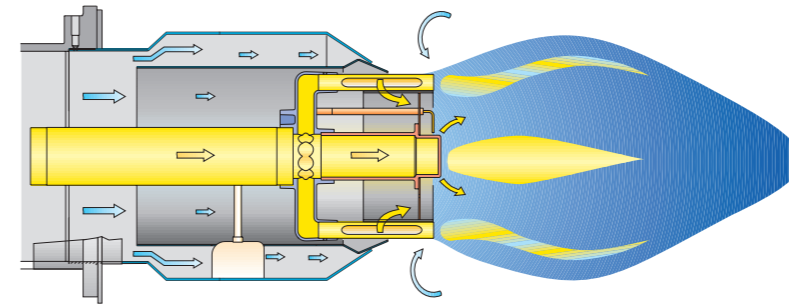
Models  
RS - RLS 1000/E BLU  
RS - RLS 1200/E BLU

/EV, ELECTRONIC CAM VSD

Models  
RS - RLS 1000/EV BLU  
RS - RLS 1200/EV BLU

## Safe and green

Riello Burners experience in combustion technology is very well demonstrated in the combustion head of New RS burner models and assures smooth ignition, safe operation, and environmentally friendly emissions. Riello burners excels in producing burners which perform well with minimal excess air, this enhances system efficiency and reduces greenhouse gas emissions such as CO2. With oxygen levels of only 3% (\*) typical in the products of combustion and turndown ratios of up to 10-1 (\*) on natural gas, system efficiencies are truly maximised. In addition to our standard product we also have available Low NOx models which use an Advanced Combustion Technology in order to reach NOx values of less than 30ppm (\*) during the combustion of natural gas without the requirement of Flue Gas Recirculation; this enhances system efficiency in comparison with traditional FGR systems and reduces system/installation costs.



(\*) NOx emissions and Modulation ratios are verified in our Research Center; not all field applications allow similar performance. If guaranteed emissions and/or turndown are required please contact Riello Burners Commercial and Technical Department.

## Electronic Cam System

The electronic cam is a microprocessor based burner management component system for burner control and supervision. The system components are interconnected via a bus system. Communication between the individual bus users takes place by a reliable system-based data bus. All safety-related digital outputs of the system are permanently monitored by e-contact feedback network.

