03/2012

90° RIELLO ENERGY STORY

RIELLO

highlights 2012

RIELLO
Energy For Life

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COMPACT LIGHT OIL BURNERS: RDB XT

The new smallest and compact burners

The light oil and kerosene Riello RDB XT burner has been designed specifically to meet the increasing demand of small dimensions, low NOx and CO emissions and reduced noise, but able to withstand high back pressure in combustion chamber at lower outputs.
All RDB components are designed and produced by Riello; this guarantees high reliability levels and performance even at lower outputs.
The new RDB XT model completes one of the most successful Riello burner range, assuring the same reliability and quality levels even at lower outputs.

The RDB XT burner, revised in the contents and technology, suggests innovative solutions. The "plug-in" control box makes easier the maintenance, avoiding any mistakes. Moreover all preassembled components, already tested during the burner assembly, guarantee a higher, even if alredy excellent, product quality.

Each RDB XT burner can be equipped for conventional and balanced flue. Riello has included the standard version of "yellow flame" combustion in addition to the LOW NOx versions, with combustion head based on the Riello GK technology able to assure NOx emissions lower than **100 mg/kWh**, and ultra LOW NOx technology, which allows NOx emissions lower than **70 mg/kWh**. Based on the combustion technology, the new RDB XT model allows an analogic or digital burner management system.

The higher performance in terms of reduced emissions and compact dimensions, make the RDB XT model the best solution la miglior for light oil and kerosene combustions at lower outputs.

ADVANTAGES AT A GLANCE

- Smallest dimensions: 20% less than the standard RDB.
- One stage operation in CF and BF.
- Reduced low NOx emissions.
- New control box.
- Reduced consumptions.
- High quality and reliability.

MODEL	FIRING RATE (kW)
• RDB XT-30R GM	12 ÷ 30
• RDB XT-35R GK	12 ÷ 35
• RDB XT-44R	12 ÷ 44

LOW NOx TWO STAGE LIGHT OIL BURNERS: RDB RD GK

The new models for two stage operation

The attention of Riello to each market requirement, exceed all expectations. Based on the natural evolution of the RDB series, Riello has invested all his experience in creating a two stage burner, with the aim to complete the range and meet the strictest requirements of the ErPD norm.

This product has been developed keeping the good ventilation structure of the RDB2.2 and 3.2 models, modifying the pump and the control box in order to create a burner with the same qualities of the previous two stage burner model.

Moreover Riello has provided the most advanced technical solutions to this project in order to guarantee lowest NOx and noise emissions, as the GK LOW NOx combustion head, designed completely by Riello, meets the requirements of the EN 267 standard; anyway it is available a "on-demand" solution with standard combustion head. The project has been completed, providing the balanced flue "BF" and conventional flue "CF" version, both equipped with a digital control box.

ADVANTAGES AT A GLANCE

- Same ventilation structure of RDB2.2 and RDB3.2 models.
- New pump for high pressures up to 20 bar.
- Hydraulic jack.
- New digital control box.
- Two stage operation in CF and BF configuration.
- Emissions: Class 3 according to EN267.
- GK combustion head for low NOx combustion.

MODEL	FIRING RATE (kW)
• RDB2.2-35RD GK	18/24 ÷ 35
• RDB2.2-50RD GK	28/34 ÷ 50
• RDB3.2-70RD GK	45/51 ÷ 70

LOW NOx MODULATING OIL BURNERS: RDB PV GM

The new concept for modulating burners

Riello includes the modulation version in the already known and appreciated RBD range. Riello is able to propose an innovative an patented solution of modulating burner with pump and fan matched on the same shaft, modifying the good ventilation structure of the RDB 2.2 model and introducing a modified pump for higher pressures.

RDB PV GM is the Riello proposal with a modulation ratio up to 1:2.5 (according to the required configuation), outputs between 8 and 30 kW, lower NOx emissions, completely integrated to meet the new strictest requirements of the ErPD norm.

The complete operation is managed by a digital control box, able to allow the use of an UV flame management system. The performance of RDB PV GM are controlled by an inverter connected to a small motor which changes the fuel supply according to the required output. The settings are carried out through an extractible LCD display which allows the burner setting wherever it is placed. As accessory, Riello has equipped the burner with a device for the remote burner control.

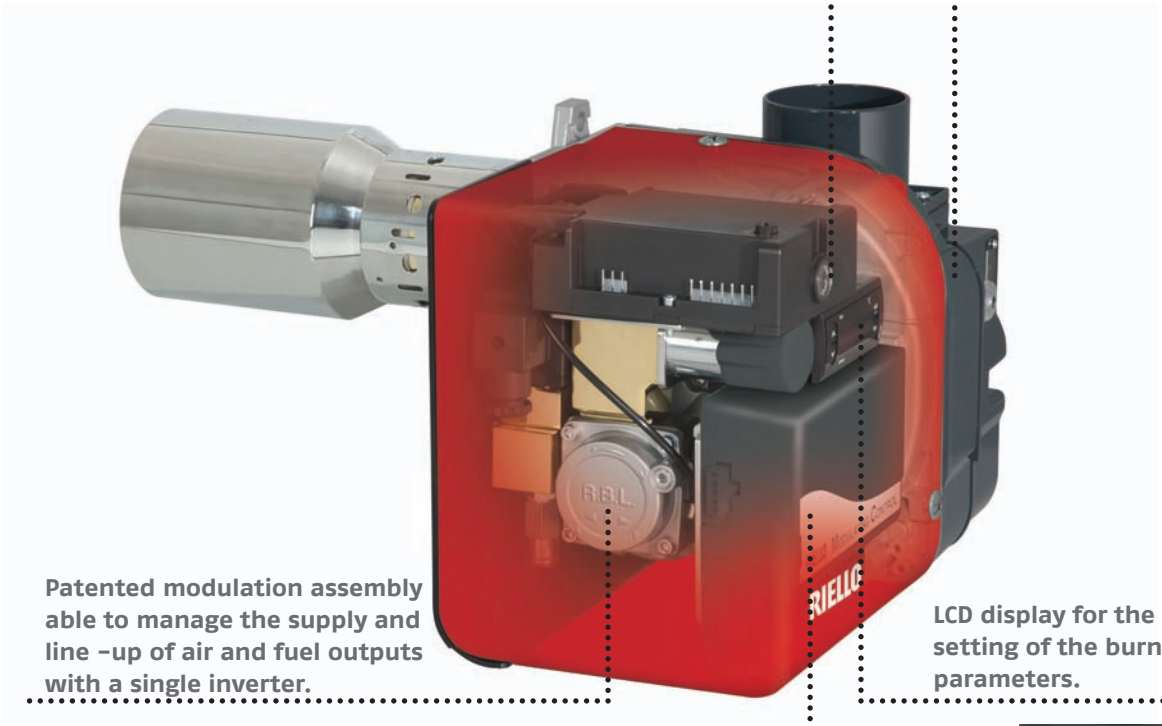
ADVANTAGES AT A GLANCE

- Modulation up to 1:2,5 with minimum output at 8 kW.
- High performance.
- Noise reduction.
- Low electrical consumptions thanks to a small motor at low voltage.
- Pump for high pressures up to 30 bar.
- Modulating operation in CF and BF configuration.
- Lower emissions.
- New digital control box with UV flame management system.

MODEL	FIRING RATE (kW)
• RDB PV GM	8 ÷ 19
• RDB PV GM	10 ÷ 24
• RDB PV GM	13 ÷ 27
• RDB PV GM	15 ÷ 30

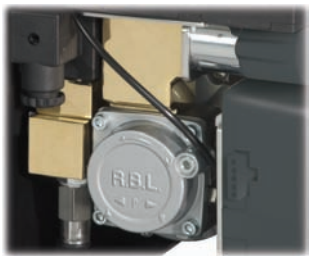
Digital control box with new concept with frontal reset.

Same ventilation structure of RDB models with the practical screw adjustment.



Patented modulation assembly able to manage the supply and line –up of air and fuel outputs with a single inverter.

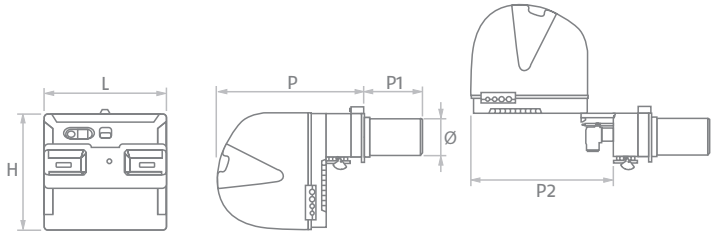
LCD display for the control and setting of the burner operation parameters.



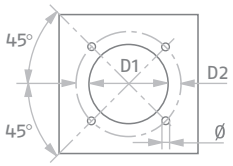
Modulatin control with inverter

RS 55/E and RS 55/M BLU

Low NOx modulating gas burners two stage progressive/modulating Electronic and Mechanical cam



Models	H	L	P	P1	P2	Ø
RS 55/M - /E	490	533	640	255 - 390	870	189



Models	D1	D2	Ø
RS 55/E BLU	185	275 - 325	M12
RS 55/M BLU	185	275 - 325	M12

With the aim of having a burner with a power output between RS 45 and RS 68 models, Riello has created the new RS55/E BLU TC/TL and RS 55/M TC/TL models.

FEATURES AND ADVANTAGES

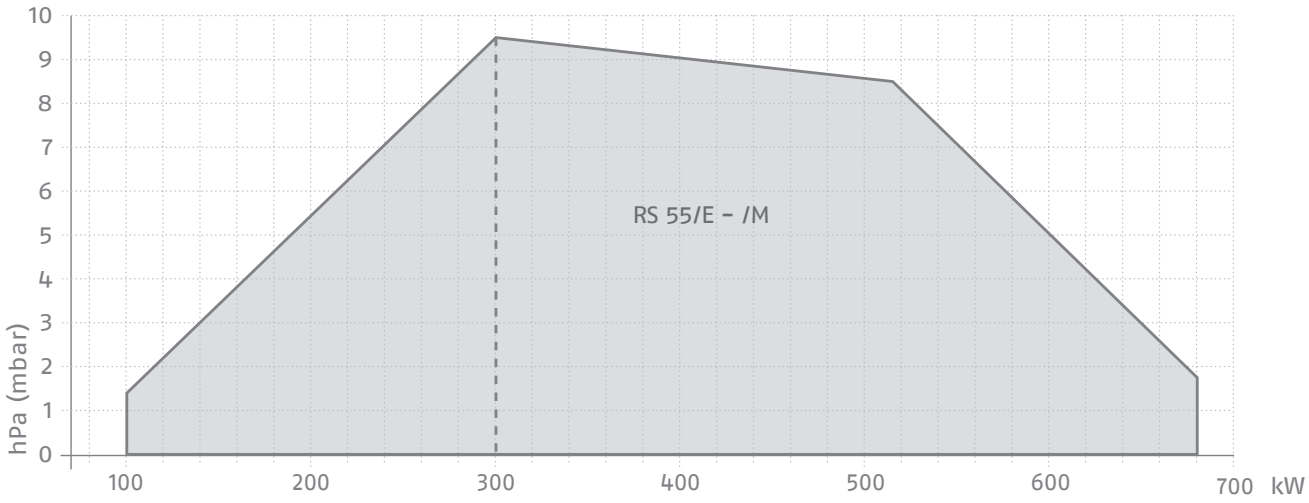
RS 55/E BLU TC/TL

- Low NOx (Class 3 according to EN 676) modulating gas burners based on the Digital Burner. Management System which is able to manage the air-fuel ratio by independent servomotors. Operation can be "two stage progressive" or, alternatively, modulating.
- low emission combustion head which guarantees high efficiency levels in all the various applications, thus reducing fuel consumption and running costs.
- flame adjustment able to manage the air-fuel ratio by independent servomotors in order to obtain a perfect output control and to assure a correct combustion and safe operation on all modulation range.
- microprocessor-based Digital Burner Management System with a Display Interface operating unit to adjust the system.
- programmable electronic cam which ensures low power consumptions; the seal control function is included on Burner Digital Management System.

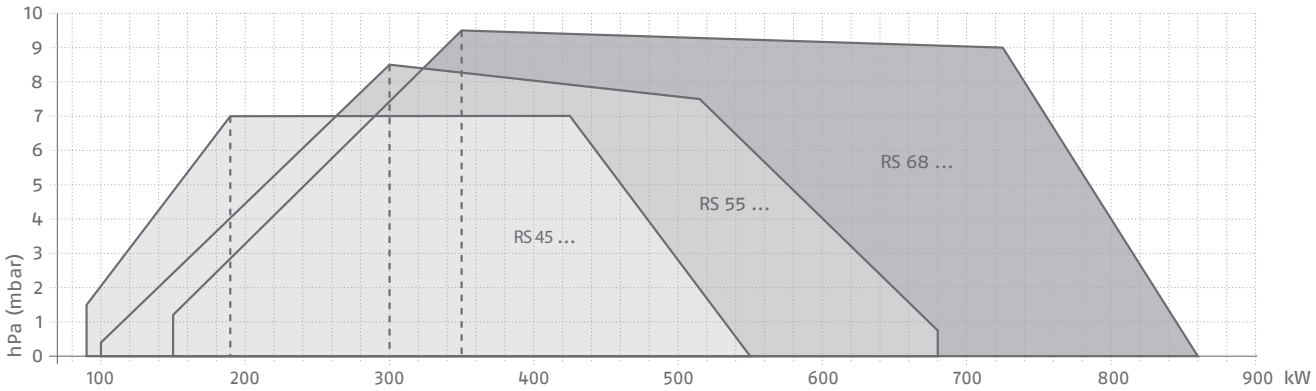
RS 55/M BLU TC/TL

- Low NOx (Class 3 according to EN 676) modulating gas burners "two stage progressive" or, alternatively, "modulating". RS/M BLU burners series guarantees high efficiency levels thus reducing fuel consumption and running costs.
- quick connections thanks to "Plugs & Sockets" system and IP 40 electric protection level.
- microprocessor-based burner safety control box, with diagnostic functions.
- flame stability and odulation ratio 1:6.
- matching with 1 gas train.

FIRING RATE

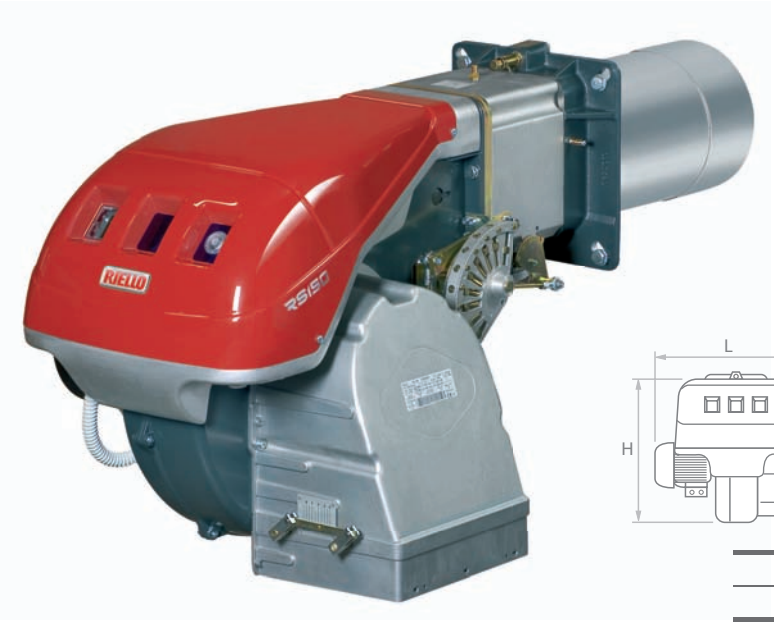


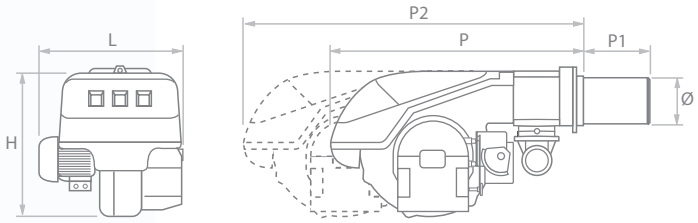
In this way, this new RS 55 BLU model has been introduced between the actual sizes 45 and 68:



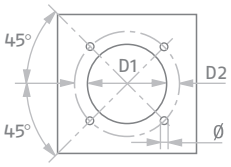
RS 150 and RS 150/M

Two Stage Progressive Gas Burners and Modulating Gas Burners with Mechanical cam





Models	H	L	P	P1	P2	Ø
RS 150 -/M	590	675	840	280 - 415	1180-1315	189



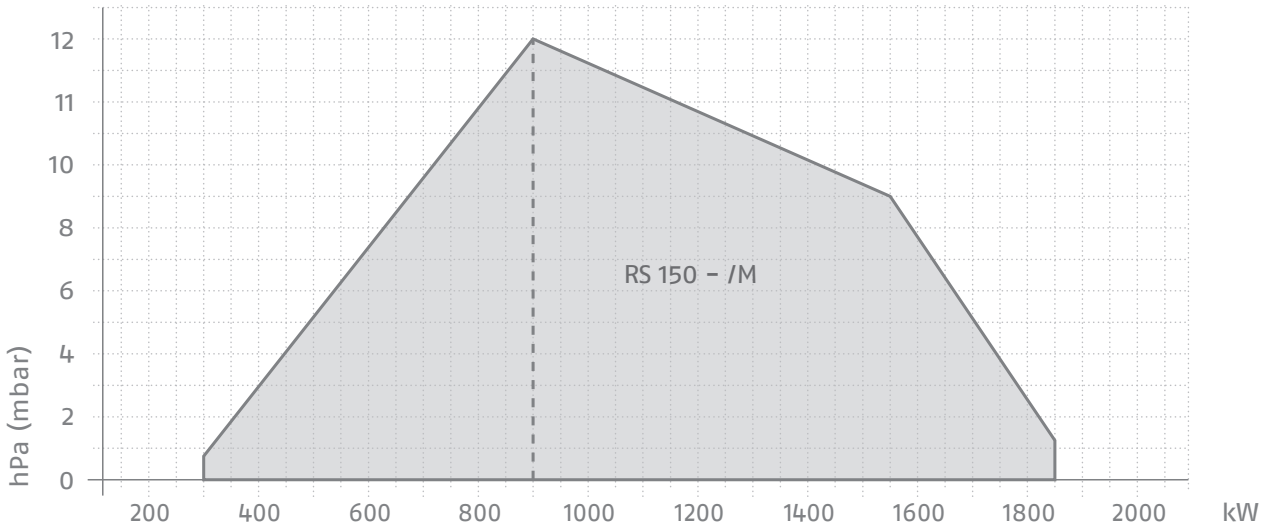
Models	D1	D2	Ø
RS 150	185	275 - 325	M12
RS 150/M	185	275 - 325	M12

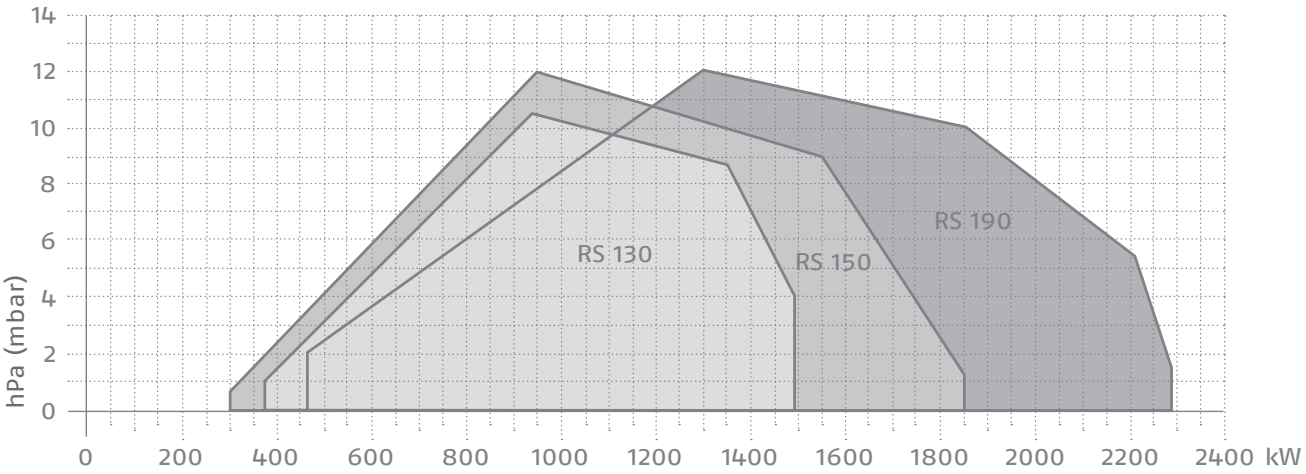
To make more linear the power progression of the RS and RS/M series – in this way it's easier to adjust the desired output power, a new model was born between RS 130 and RS 190 models.

FEATURES AND ADVANTAGES

- The RS burners series has been designed for use in low or medium temperature hot water boilers, hot air or steam boilers, diathermic oil boilers.
- Operation can be "two stage progressive" or, alternatively, "modulating".
- This new model, called RS 150, is equipped with a 2,2 kW motor.
- Power range: 300/900 - 1850 kW.
- The elevated performance of the fans and combustion head, guarantee flexibility of use and excellent working at all firing rates.
- The exclusive design ensures reduced dimensions, simple use and maintenance.
- Optimisation of sound emissions is guaranteed by the special design of the air suction circuit and by incorporated sound proofing material.
- Fan with reverse curve blades.
- Air damper for air flow setting and butterfly valve for regulating fuel output on 1st and 2nd stage controlled by a servomotor with variable cam.
- Microprocessor-based burner safety control box, with diagnostic functions.
- Slide bars for easier installation and maintenance.
- IP 44 electric protection level.

FIRING RATES





RX

Premix Gas Burners for Heating and Light Industrial Processes

The Premix gas burners are especially suitable for heating and light industrial processes, requiring the burner integration to achieve very compact size. The Premix competitive features are the high modulating ratio (up to 7:1) and lower sound emissions than diffusive burners.
Riello RX premix series is the ideal solution for heating applications using condensing boilers, air conditioning using absorption chillers, light industrial processes for bakery ovens, spray paint booths, air heaters, grain dryers and textile applications.
RX burners reach values of CO and NOx emissions lower than the more restrictive European Standards.
The premix burner combustion heads can be designed in order to provide a cylindrical or frontal flame shape, and it is characterised by a "seamless knitted wire" (Riello patented) free of welded seams, in order to avoid possible damages due to thermal stress.
Two series of premix burners are available:

- a range from 4 to 1000 kW, with one stage, two stage fully modulating operation, with a variable speed drive motor, gas train integrated in the burner, and air-gas mixing in the fan suction line circuit.
  Operation with an electrical supply of 1/230V/50-60Hz
- a range from 55 to 730 kW, with progressive two stage or modulating operation, air-gas mixing in the combustion head suction line circuit, and gas train supplied separately.
  Operation with an electrical supply of 1/230V/50Hz or 3/400V/50Hz.

All RX burners can be suitable for LPG combustion.

ADVANTAGES AT A GLANCE

- Complete range of burners from 5 to 1000 kW, with excellent turn-down modulation ratio (up to 7:1).
- Ideal solutions both for condensing applications, absorption chillers and light industrial process.
- Compact flame geometry allowing reduction of combustion chamber dimensions
- Thermal exchange increasing from irradiation particularly at minimum output.
- Combustion head with fibre manufactured in seamless knitted wire: removal of any critical situation caused by thermal stress.
- High combustion intensity with reduced combustion head dimension very low noise emissions: the < 30% vs equivalent jet burner.
- Values of CO and NOx emissions lower than the more restrictive European Standards.

RX SERIES MODELS

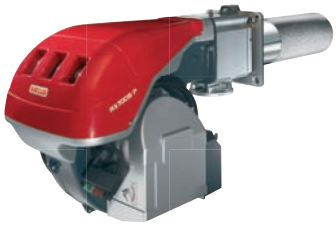
RX 35-70-90-120-150 S/PV

Output: up to 150 kW
Operation: One-stage, Two-stage, Modulating
Type of Modulation: Through Fan variable speed drive
Motor: Brushless
Position of air-gas mixing: Fan inlet
Design: Without cover
Type-approval: On the system or with EN 676

RX 150 - 180 - 250 - 400 - 550 - 700 - 1000 S/PV

Output: up to 1000 kW
Operation: One-stage, Two-stage, Modulating
Type of Modulation: Through Fan variable speed drive
Motor: Brushless
Position of air-gas mixing: Fan inlet
Design: With cover
Type-approval: EN 676

RX 350-500-700 S/P



Output: up to 730 kW
Operation: Two-stage Progressive, Modulating
ventilation: With reverse blades
Type of Modulation: With the air damper
Motor: Asynchronous
Position of air-gas pre-mixing: Combustion headinlet
Design: With cover
Type-approval: EN 676

All the Riello Burners premix burners comply with the EN 676 standard and are approved according to the European Directives 2009/142, 2004/108, 2006/95 EC.

APPLICATIONS

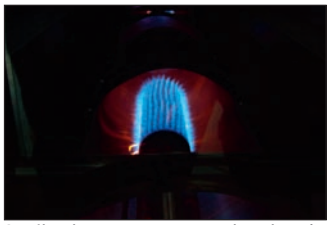
Application on bakery oven

Application on hot air generator (30 kW)

Application on Textile Machinery

Application on 3-pass smoke tube condensing boiler in inox

Application on painting booth

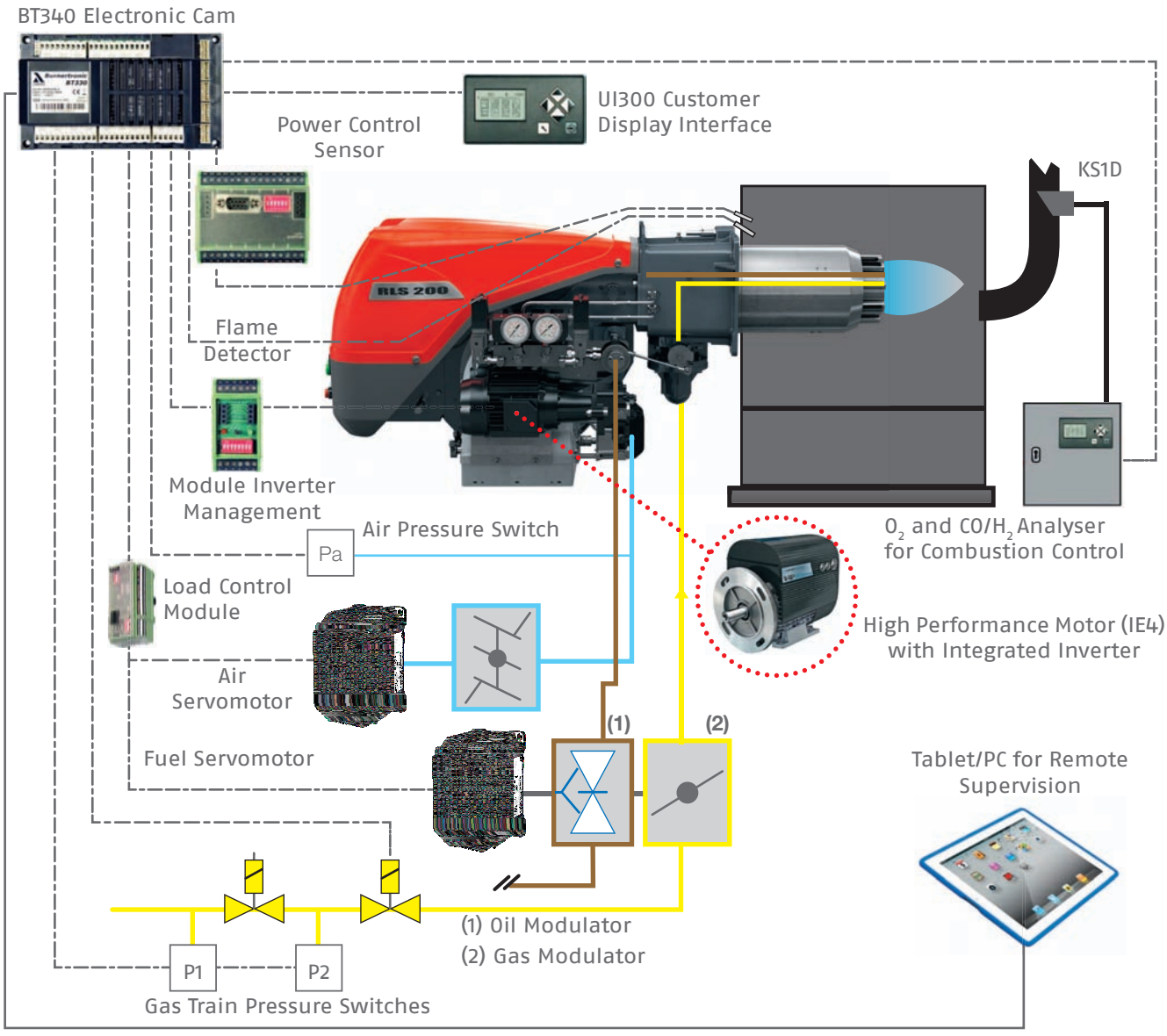


Application on spray paint booth: exchange channel internal view

RLS 200/EV MX

Low NOx Modulating Dual Fuel Burner
Electronic cam model with synchronous motor high performance permanent magneto (IE4) with integrated inverter (570/1375-2400 kW)

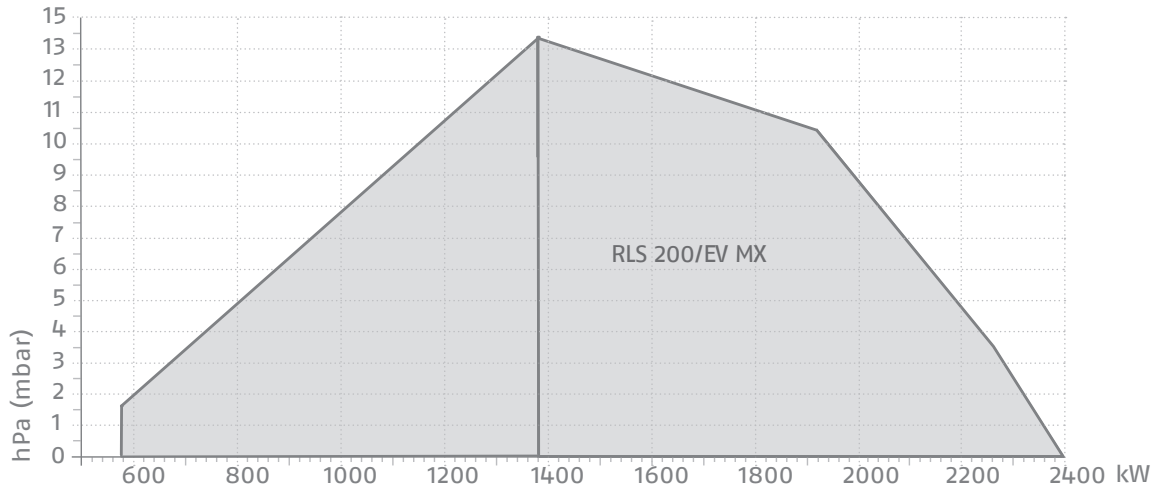
The constant research of increasing efficiency is driving the Combustion Systems towards Management Solutions able to assure a power supply proportionated to the heat demand.
Since the beginning of his industrial development, 90 years ago, RIELLO has provided the most advanced technical solutions in order to guarantee High Performances Products; once again, with the New RLS /E MX Series, based on Electronic Cam and synchronous motor high performance permanent magneto (IE4) with integrated inverter, the best operation results will be achieved, obtaining High System Efficiency and Environmentally Friendly Emissions.



Digital Burner Management System

The RLS /E MX burners are equipped with the BT340 Digital Burner Management System; that is a microprocessor-based device designed for the control and supervision of Dual Fuel forced draft burners. It includes the standard function of a Flame Control Panel and in the meantime controls the air-fuel mixing. The actuators, connected to the air damper and to the Gas and Oil Modulators, with absence of joint clearance and mechanical hysteresis, are stepper motors with high accuracy position.
The modulating operation with both managed fuels, Gas and Oil, is obtained by the addition of a specific module load control module.
The delivered burner power management, is performed through a dedicated expansion module dedicato, which operates in synergy with the relevant measurement probes.
The inverter management system (integrated on the synchronous motor high performance permanent magneto) is performed through a dedicated module (and the relevant motor speed sensor for the feedback).
The UI300 customer interface display represents the operating unit to interface the system.

FIRING RATE



ADVANTAGES AT A GLANCE

- Environmental friendly emissions guaranteed by the active combustion control (02 kit) and the integrated inverter (above all with operation at partial load).
- Modulating Operation for both fuels, Ligth Oil and Gas.
- Low NOx emissions conforming to Class 3 EN 676 and Class 2 EN 267.
- Constant combustion parameters thanks to the absence of joint clearance and mechanical hysteresis.
- Easy commissioning and burner settings by Display Interface.
- Independent Ignition Point Position.
- Burner status, operating information display and diagnostic function with error history and list of parameters.

...OTHER DISTINCTIVE DETAILS

- Valve proving system included on Digital Burner Management Systems.
- Independent air and fuel servomotors (stepper motor actuators).
- Interface device available for Modbus connection to Building Management System or other OEM's equipment (accessory).
- Closed air damper during burner stand-by phase to avoid combustion chamber cooling.
- Access to the internal parameter through protection levels password for a safe operation.
- Additional parameters indication like: light oil and gas operation hours, load level indication, numbers of burner set-ups.

R_310-410-510

High Power Monobloc Gas, Light Oil and Dual Fuel Low NOx Burners
RS 310-410-510/M-/E-/EV BLU
RL 310-410/B
RLS 310-410-510/M-/E-/EV MX

The high power monobloc Burners Series RS-RL-RLS, in the 3–12 MW range, are the result of intensive activities of technical research and considerable investment, carried out in recent years, that allowed the highest levels of technological development to be achieved in the Industrial Burners context, confirming the historical leadership of Riello in this important area of energy management.

The remarkable results of performance, quality and reliability, are now consolidated by the creation of new models in the 3-5 MW range, RS-RL-RLS 310-410-510, able to summarize and concentrate the best technological expertise of Riello.

The new models RS-RL-RLS 310-410-510 characterized by Technology, Power and Design, are authentic 'little giants' in the burners scenario; little in size and weight, giants in performance provided and in capability to meet the market needs

ADVANTAGES AT GLANCE

- Easy installation and servicing thanks the monobloc configuration.
- Low NOx emissions conforming to Class 3 EN 676.
- Low noise emissions thanks to the efficient ventilation circuit and sound proofing solutions.
- Modulating Operation with the installation of a PID logic regulator.
- Continuous operation available upon request.

... OTHER DISTINTIVE DETAILS

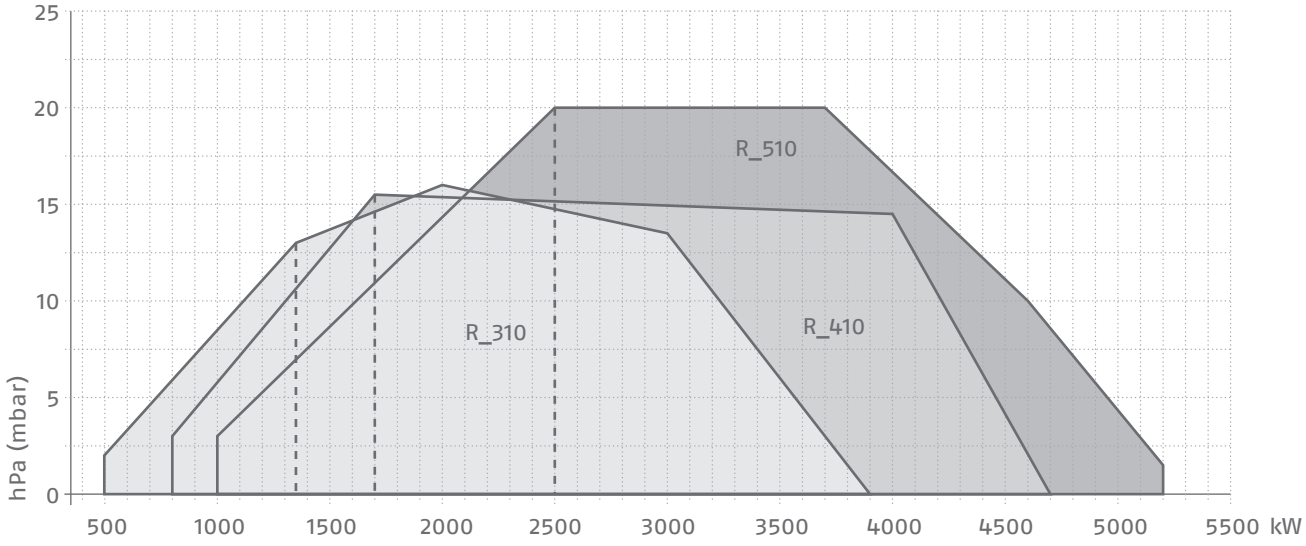
- Various configuration available for Oil, Gas or Dual Fuel combustion.
- Excellent Output Control by Digital Burner Management Systems.
- Energy saving and long life of oil pump assured by a dedicated pump motor on Dual Fuel models.
- Easy access to internal components by burner opening hinge.
- Optional oxygen control available upon request.

BURNER MODELS

Models	Fuel		Operation (*)				Emissions	
	Gas	Light Oil	/B	/M	/E	/EV	Class 3 EN 676	Class 2 EN 267
RL 310/MZ		●	●					●
RL 410/M		●	●					●
RS 310/M BLU	●			●			●	
RS 410/M BLU	●			●			●	
RS 510/M BLU	●			●			●	
RS 310/E BLU	●				●		●	
RS 410/E BLU	●				●		●	
RS 510/E BLU	●				●		●	
RS 310/EV BLU	●					●	●	
RS 410/EV BLU	●					●	●	
RS 510/EV BLU	●					●	●	
RLS 310/M MX	●	●		●			●	●
RLS 410/M MX	●	●		●			●	●
RLS 510/M MX	●	●		●			●	●
RLS 310/E MX	●	●			●		●	●
RLS 410/E MX	●	●			●		●	●
RLS 510/E MX	●	●			●		●	●
RLS 310/EV MX	●	●				●	●	●
RLS 410/EV MX	●	●				●	●	●
RLS 510/EV MX	●	●				●	●	●

(*) /B = Two stage
/M = Two stage progressive - Modulating mechanical cam
/E = Two stage progressive - Modulating electronic cam
/EV = Modulating electronic cam, Variable Speed Drive

FIRING RATES



MODELS	FIRING RATES (kW)
• R_310	500/1350 ÷ 3900
• R_410	800/1700 ÷ 4700
• R_510	1000/2500 ÷ 5200

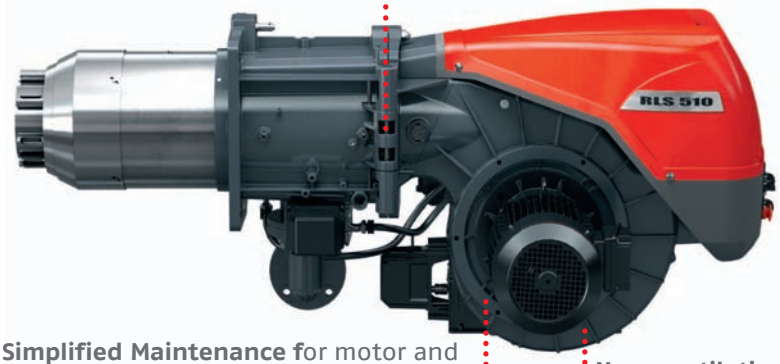
The new models RS-RL-RLS 310-410-510 are excellently covering the 3 – 5 MW power range, providing the ideal solution for matching to Heating Boilers, Steam Generators and Industrial Process Plants.

Design
Patented design for protection from copies and imitation (Patent n° 1312904).

Low NOx Combustion Head.
Burner models which use an Advanced Combustion Technology in order to reach Low NOx emissions values are available.

New Oil Modulator.

Hinged Burner opening for Combustion Head inspection and maintenance (Hinge can be open to the left or to the right side).



Simplified Maintenance for motor and fan by direct extraction trough opening flange.

New ventilation structure
A new ventilation structure has been developed in order to reduce the overall dimensions and weight.

Electronic Modulator accessible from external panel.

Air adjusting dampers at air inlet side with ball bearings.

RS-RL-RLS - 310-1200

High Power Monobloc Gas, Light Oil and Dual Fuel Low NOx Burners
RS 310-410-510-650-800-1000-1200/M-/E-/EV BLU
RL 310-410/B
RLS 310-410-510-650-800-1000-1200/M-/E-/EV MX

The high power monobloc Burners Series RS-RL-RLS, in the 3-12 MW range, are the result of intensive activities of technical research and considerable investment, carried out in recent years, that allowed the highest levels of technological development to be achieved in the Industrial Burners context, confirming the historical leadership of Riello in this important area of energy management.
These Burners for Oil, Gas and Dual Fuel applications, 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; they are available in various air-fuel ratio control configurations, including 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.
Using an Advanced Combustion Technology, in order to reach Low NOx emissions values, they guarantee an environmentally friendly operation.

The remarkable results of performance, quality and reliability, are now consolidated by a product layout revision and updating, able to summarize and concentrate the best technological expertise of Riello, giving as result a User Friendly monobloc machine, with the capability to meet the market needs, assuring easiness of installation and servicing and safe operation.
A unique and easily recognizable Family-line is distinguishing now this successful range of products, increasing his statement in the Industrial Burners context.

FEATURES AND ADVANTAGES

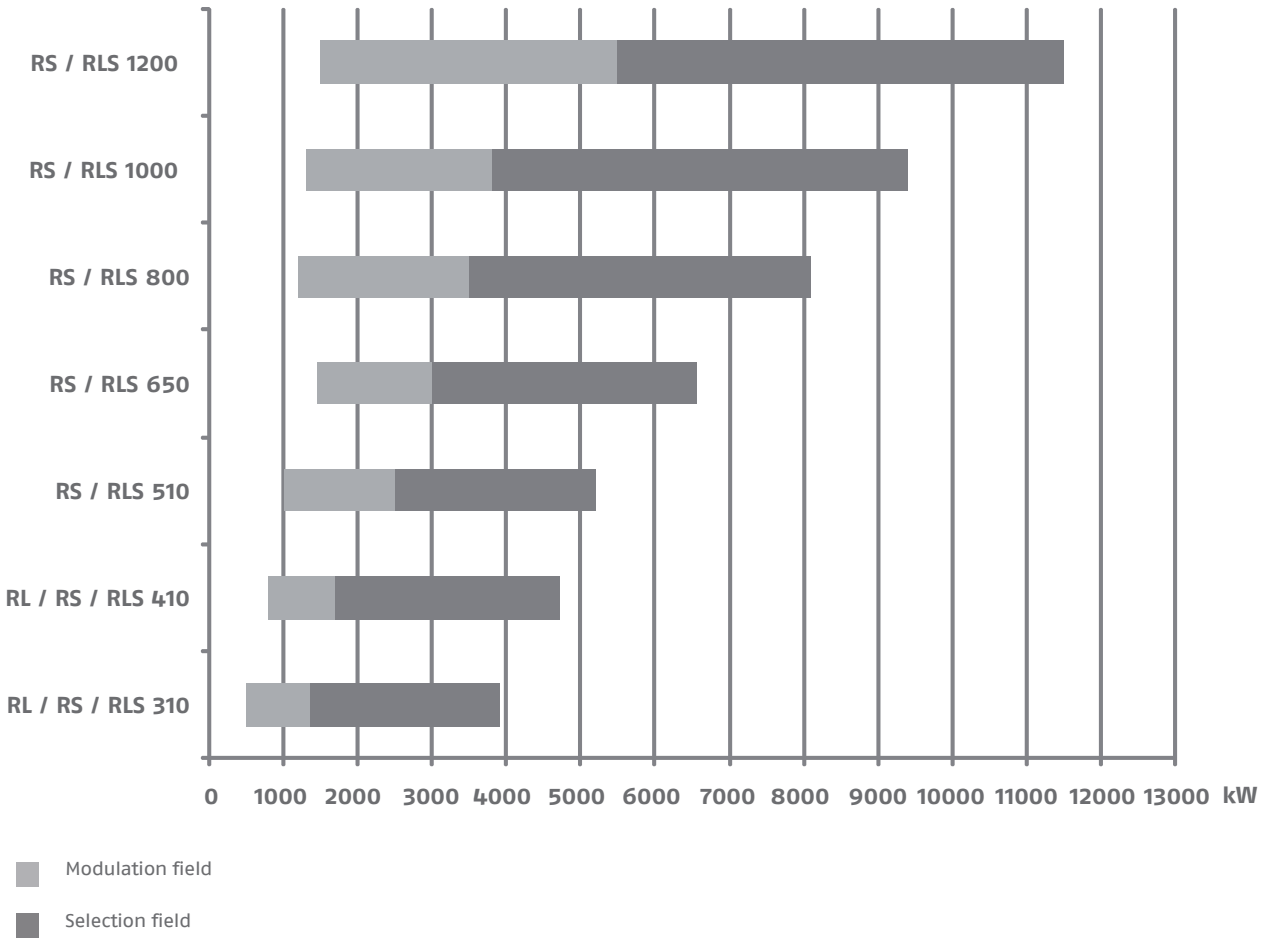
- Easy installation and servicing thanks the monobloc configuration.
- Various configuration available for Oil, Gas or Dual Fuel combustion.
- Low NOx emissions conforming to Class 3 EN 676.
- Low noise emissions thanks to the efficient ventilation circuit and sound proofing solutions.
- Easy access to internal components by burner opening hinge.
- Energy saving and long life of oil pump assured by a dedicated pump motor on Dual Fuel models.

PRODUCT SERIES OVERVIEW

Series	Models							Fuel		Operation (*)				Emissions		
	310	410	510	650	800	1000	1200	Gas	Gasolio	/B	/M	/E	/EV	Class 3 EN 676	Class 1 EN 267	Class 2 EN 267
RL	●	●							●	●						●
RS/M BLU	●	●	●	●	●	●	●	●			●			●		
RS/E BLU	●	●	●	●	●	●	●	●				●		●		
RS/EV BLU	●	●	●	●	●	●	●	●					●	●		
RLS/M MX	●	●	●	●	●			●	●		●			●		●
RLS/E MX	●	●	●	●	●			●	●			●		●		●
RLS/EV MX	●	●	●	●	●			●	●				●	●		●
RLS/M MX						●	●	●	●		●			●	●	
RLS/E MX						●	●	●	●			●		●	●	
RLS/EV MX						●	●	●	●				●	●	●	

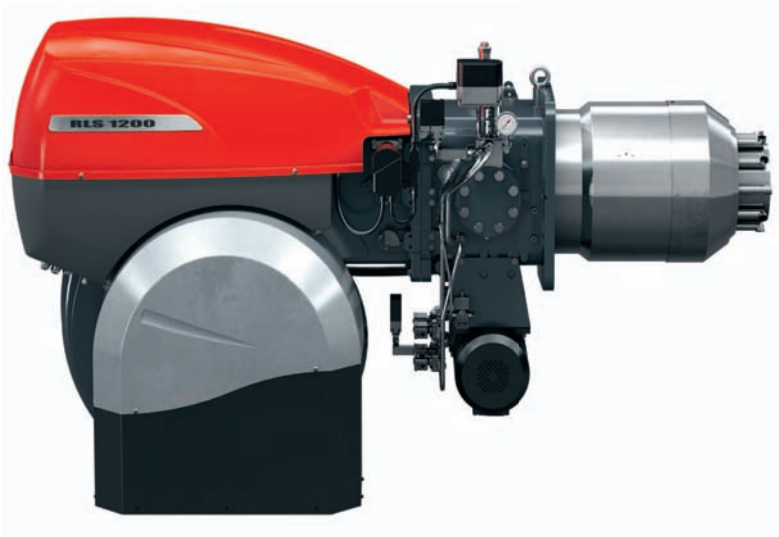
(*) /B = Two stage
/M = Two stage progressive - Modulating mechanical cam
/E = Two stage progressive - Modulating electronic cam
/EV = Modulating electronic cam, Variable Speed Drive

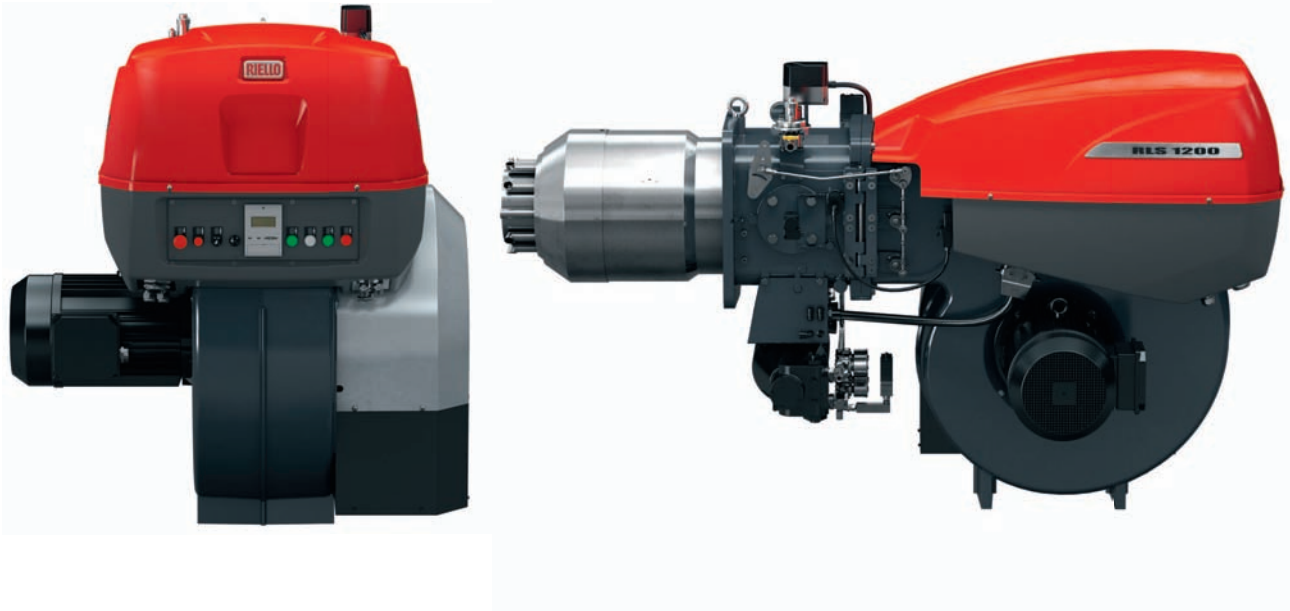
FIRING RATES



The models of RS-RL-RLS are excellently covering the 3 - 12 MW power range, providing the ideal solution for matching to Heating Boilers, Steam Generators and Industrial Process Plants.

An unmistakable design and style, utilising high technology solutions and high levels of industrialisation, distinguish the R Series product from the competition in today's market.
Since the beginning of his industrial development, Riello has looked for a relationship between Industry and Style in order to help maintain the reputation of Italian design on the world stage.
Once again the New R Series preserves the marriage between Performance and Design, giving the product range an unmistakable Style.
The new models design is Patented for protection from copies and imitation (Patents N.1312904 - N.1314561 - N. 1314553).

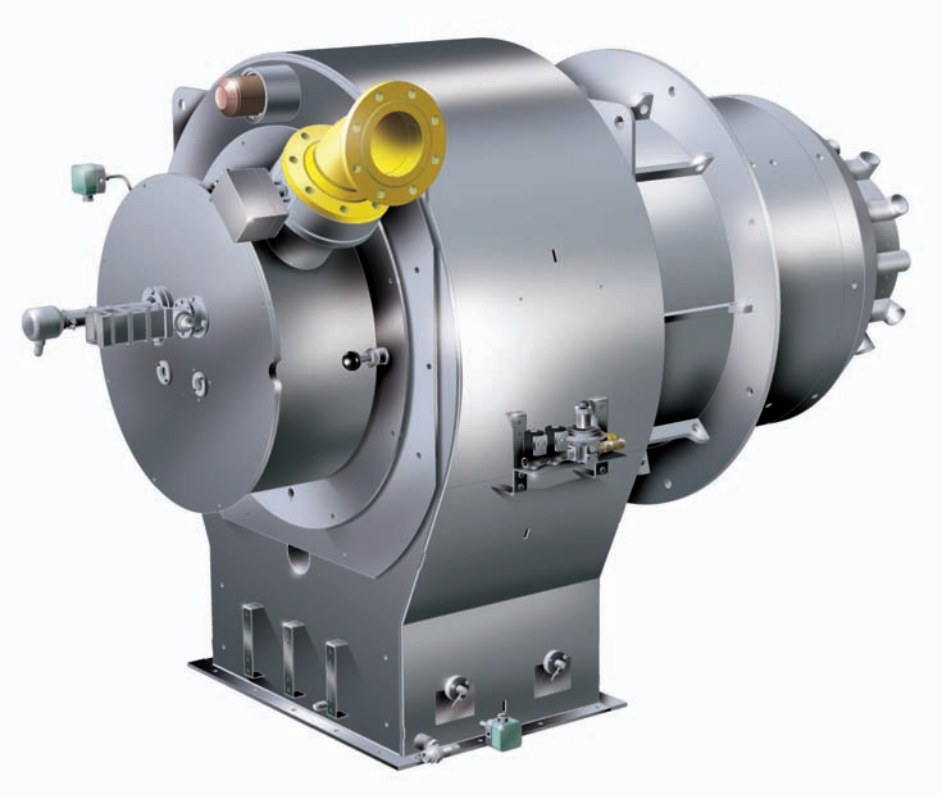




DB SE BLU

Low N0x Industrial Burners

The new DB 20 to DB 50 burners are Low N0x gas burners with output from 15 to 48 MW which represent the evolution in Riello Burners industrial product range.
DB 20 to DB 50 are dual block burners designed for Single or Twin-Burner Boilers in large districts heating applications, where low polluting emission are required.
Combining his experience in combustion applications with the modularity of his powerful Industrial burner series, Riello has created a new generation of Burners able to perform a N0x emission better than 40 ppm (@ 3% 02) without any external FGR system (Flue Gas Recirculation), allowing high operation reliability and flexible installation.
These burners are suitable for Hot Water and Steam Boilers, but also for Thermal 0il Generators, Dryers, Incinerators, and other Industrial Heating Processes.
To ensure a proper support to our customers, the Training, Start-up, Commissioning and After-sale Assistance are performed in co-operation by headquarter expert engineers and local services.



KEY FEATURES

- 15 to 48 MW 0utput Industrial burners.
- Low N0x emissions, < 40 ppm (@ 3% 02) without any FGR system.
- Low C0 emissio.ns.
- Modulating 0peration.
- Turndown ratio 1:6.
- Reliable and Safe Combustion.
- Flexible and Modular Installation concept.

BURNER MODELS

MODEL	FIRING RATE (MW)
• DB 20 SE BLU	4/15 ÷ 20
• DB 25 SE BLU	5/20 ÷ 24
• DB 32 SE BLU	6/24 ÷ 30
• DB 40 SE BLU	8/30 ÷ 38
• DB 50 SE BLU	10/38 ÷ 48

NOTES

RIELLO – A WORLD OF EXPERIENCE IN EVERY BURNER WE SELL.

BURNERS PRODUCTION PLANT
S. Pietro, Legnago (Verona) – Italia

COMBUSTION RESEARCH CENTRE
Angiari (Verona) – Italia

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.

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