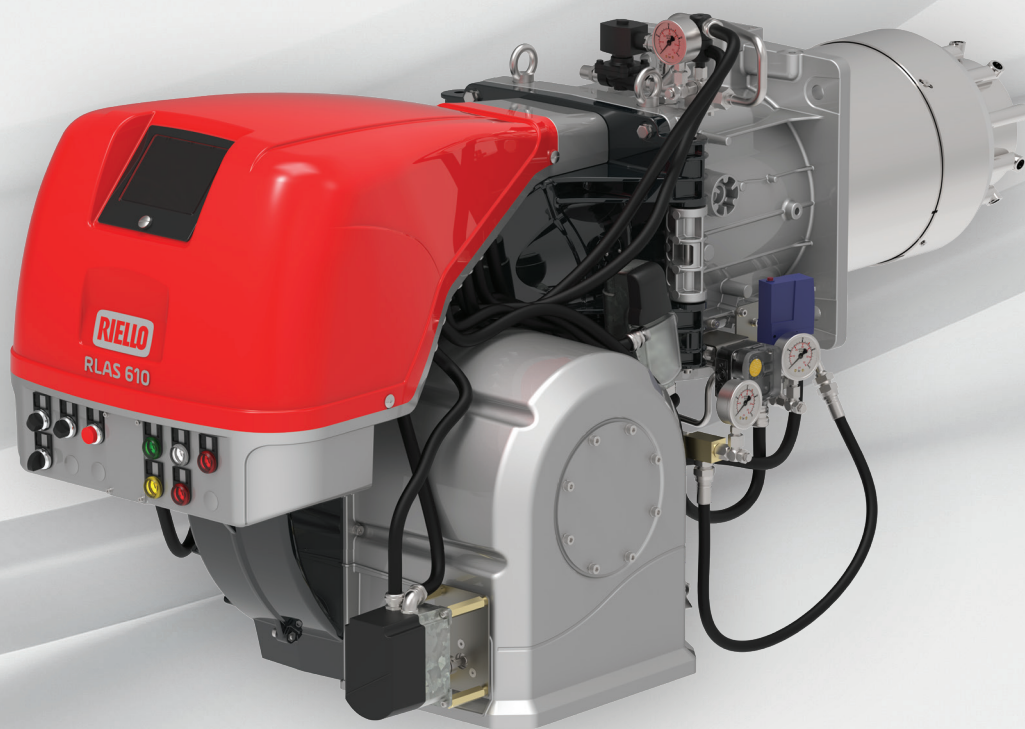


RLAS 280÷810 SERIES

PRODUCT OVERVIEW

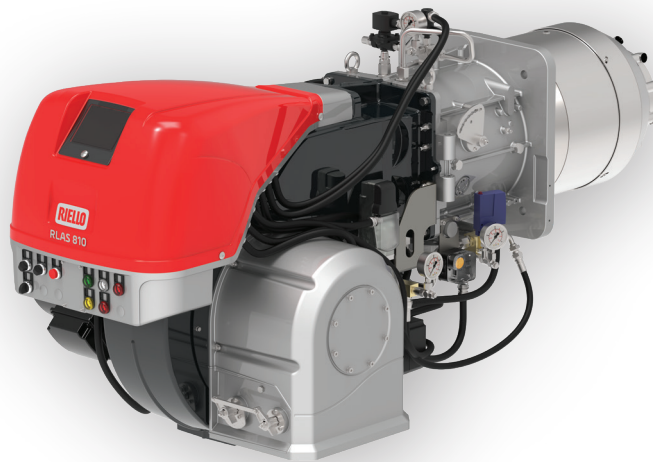


High Power Monobloc Dual Fuel Burners with assisted oil atomizing

RIELLO RLAS 280÷810 DUAL FUEL LOW EMISSION BURNERS WITH AIR ASSISTED OIL ATOMIZING

THE RIELLO RANGE OF DUAL FUEL HIGH-POWER MONOBLOC BURNERS HAVE BEEN UPGRADED WITH THE INTRODUCTION OF THE NEW RLAS 280÷810 MODELS, CHARACTERIZED BY ASSISTED AIR ATOMIZING AND TAKING THE RELATED ADVANTAGES WHEN BURNING LIQUID FUELS

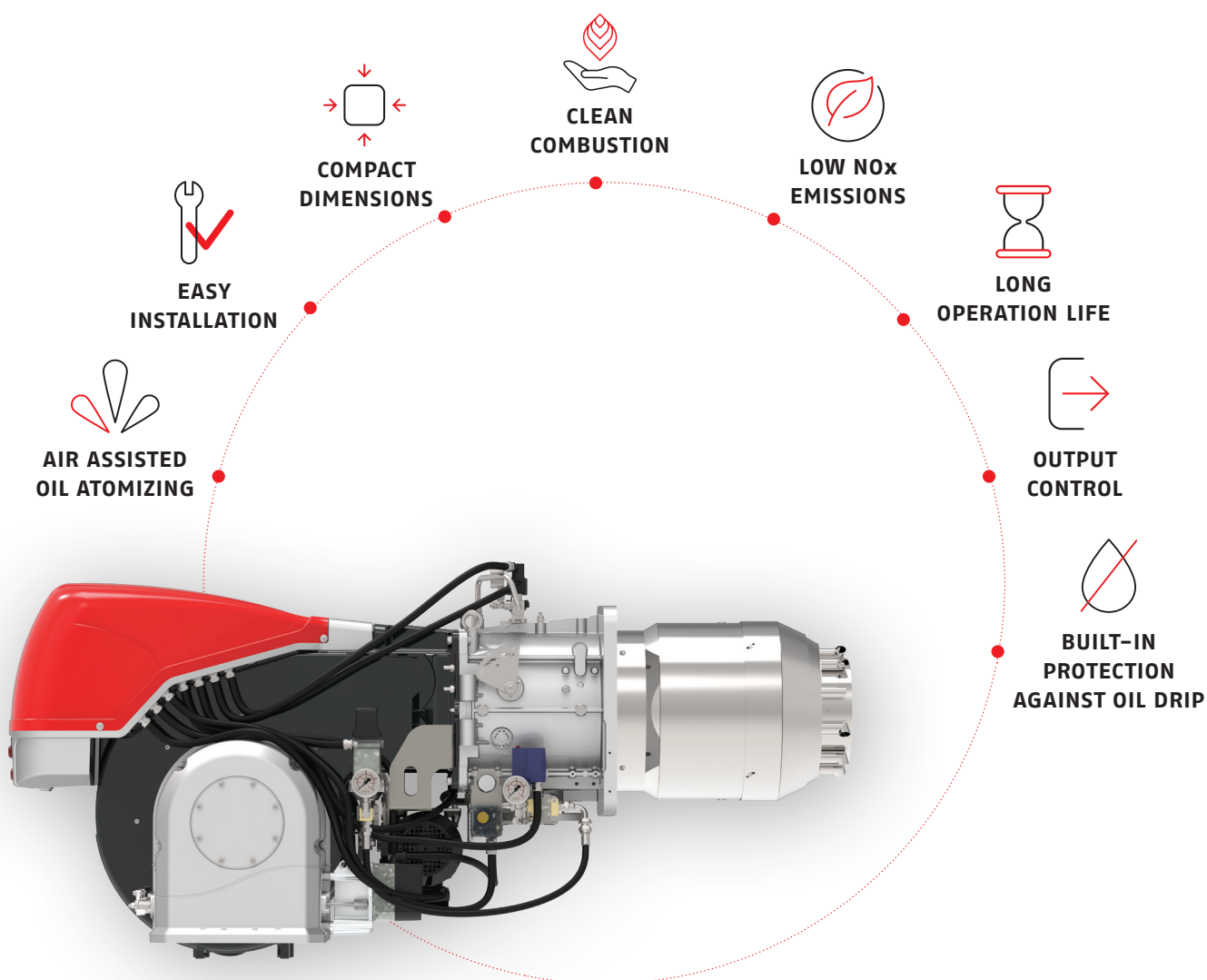
The RLAS 280÷810 series is introduced beside the standard model with mechanical atomizing; it covers a firing range from 2.600 to 28.400 MBtu/hr and operation is fully modulating thanks to the PID logic regulator included in the LMV5 electronic cam. The upgraded design with assisted air atomizing has been introduced to reach the best achievable combustion performance and reliability. Therefore obtaining NOx reduction. This new combustion head is characterized by recognized RIELLO robustness and reliability.



EXPERIENCE IN COMBUSTION TECHNOLOGY

The combustion head of New RLAS burners helps to ensure smooth ignition, safe operation, and low emissions. Riello's constant target is to excel in producing burners which perform well with minimal excess air, so to enhance system efficiency and reduce greenhouse gas emissions such as CO₂. With oxygen levels of only 3% (*) in the products of combustion and turndown ratios up to 10-1 (*) on natural gas, the system efficiencies are maximized. In addition to the standard products, are also available Low NOx models which use the FGR Combustion Technology in order to reach very low NOx values.

(*) 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.



ADVANTAGES AT A GLANCE AND DISTINCTIVE DETAILS

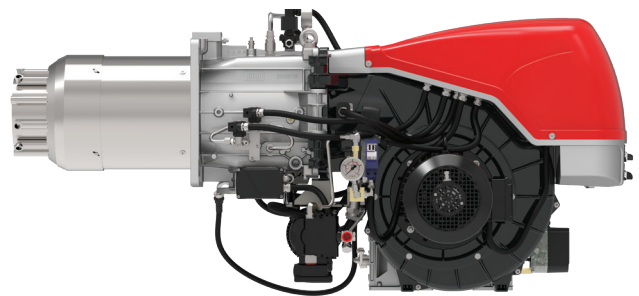
- > New air assisted atomizing system to reach the best achievable combustion performance
- > Built-in protection against oil drip
- > Advanced head design provides Low NOx emissions on natural gas
- > Very Low NOx emissions by FGR technology
- > Energy saving and long life of oil pump thanks to a dedicated pump motor
- > Excellent output control thanks to parallel positioning fuel-air ratio control
- > Variable speed drive technology available for optimizing the energy savings
- > Modulating Operation for both fuels, Light Oil and Gas, by integrated PID logic regulator
- > Oil line cleaning by pressured air flow
- > Turndown ratio up to 10:1 Gas, up to 5:1 Oil (*)

(*) 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.

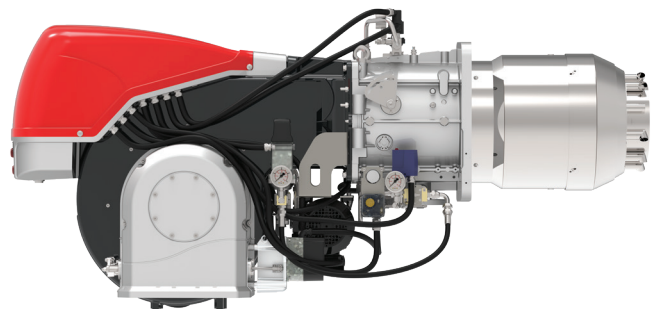
RIELLO RLAS 280÷810 TECHNICAL FEATURES

IN THE NEW RLAS 280-810 MODELS THE OIL ATOMIZATION IS OBTAINED THROUGH A COMPRESSED AIR SYSTEM, WHICH SUPPORTS THE OIL FLOW SUPPLY TO THE COMBUSTION HEAD; THE UPGRADED DESIGN HAS BEEN INTRODUCED TO REACH THE BEST ACHIEVABLE COMBUSTION PERFORMANCE AND RELIABILITY.

- Fixed combustion head: the absence of movements allows reduced mechanical stress to the components so resulting in reduced complexity and maintenance need
- Oil and air circuits are supplied with low pressure flows allowing a clean combustion
- Air purge function, to clean the oil supply line at the end of the combustion cycle to avoid oil carbonization which can block the nozzle; at switching off or at fuel change, it injects air into the oil line to clean it
- Ventilation air side with air dampers before the fan which allows reduced mechanical stress to the components
- Hydraulic oil circuit is connected to burner structure to allow easy opening for maintenance, with no need of disconnect hydraulic components
- Since the beginning of its 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 RLAS 280÷810 models preserve the marriage between performance and design, giving to the product range an unmistakable style.



RLAS 610



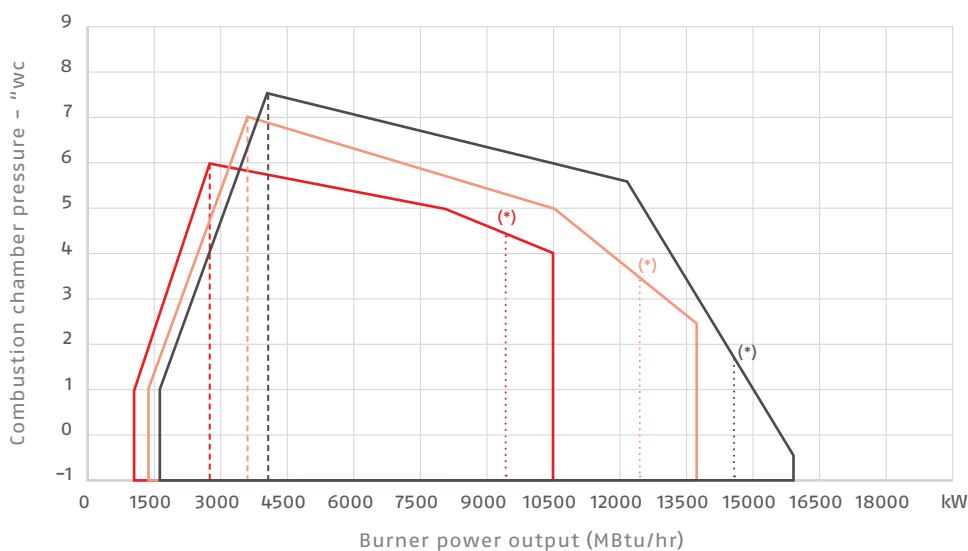
RLAS 810

RIELLO RLAS 280÷810 PRODUCT RANGE

THE SERIES COVERS A FIRING RANGE FROM 2.600 TO 28.400 MBTU/HR AND IT HAS BEEN DESIGNED FOR USE IN HOT WATER BOILERS, INDUSTRIAL BOILERS OR STEAM GENERATORS. THE NEW MODELS ARE AVAILABLE WITH PARALLEL POSITIONING FUEL-AIR RATIO CONTROL AND VARIABLE SPEED DRIVE.

BURNER MODEL	MBTU/HR Natural gas	GPH Oil n°2
RLAS 280/EV	1.050 / 2.600 -10.500 (9.450*)	10.0 / 18.6 -75.0 (67.5*)
RLAS 310/EV	1.375 / 3.500 -13.600 (12.240*)	9.8 / 25.0 -97.1 (87.4*)
RLAS 410/EV	1.635 / 4.000 -16.100 (14.490*)	11.7 / 28.6 -115.0 (103.5*)
RLAS 510/EV	2.000 / 5.000 -19.200 (17.280*)	14.3 / 35.7 -137.1 (123.4*)
RLAS 610/EV	2.270 / 8.590 -23.500 (20.977*)	16.2 / 61.4 -157.0 (150.0*)
RLAS 810/EV	2.840 / 12.900 -28.400 (25.560*)	20.0 / 92.0 -203.0 (183.0*)

FIRING RATES

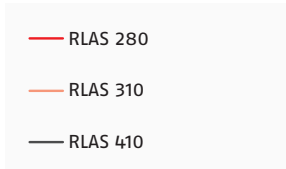


(*) Firing Rate for C-ETL Canadian Listing

— Useful firing rates for choosing the burner

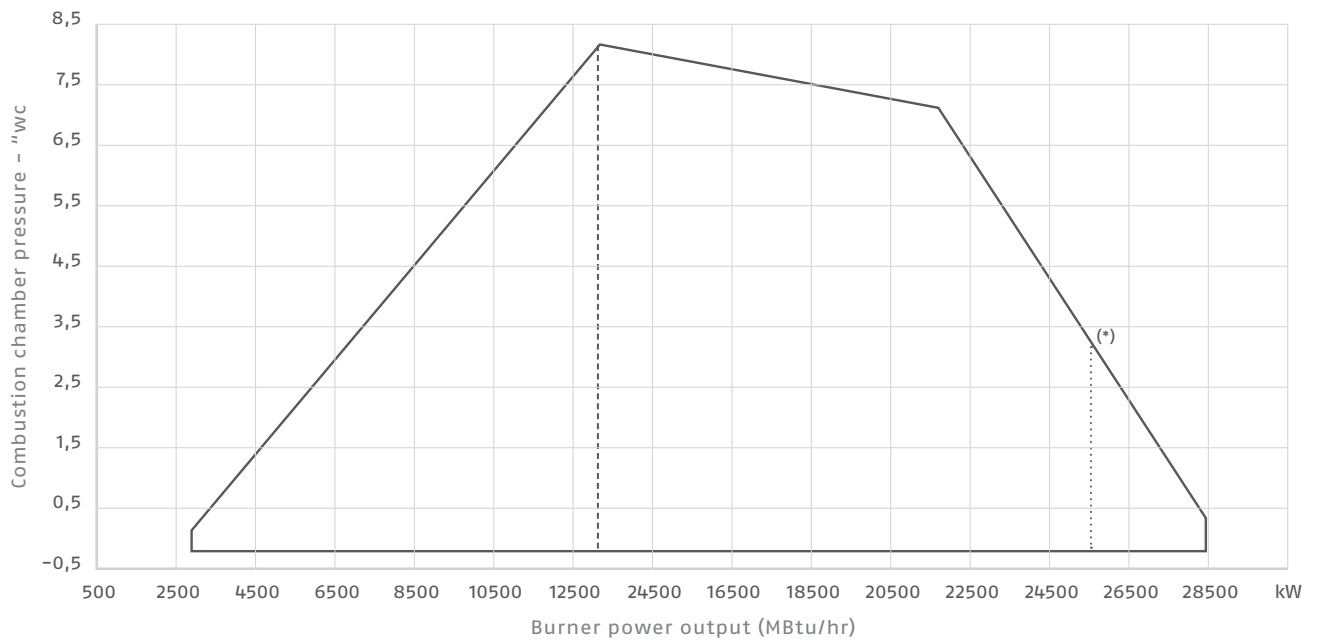
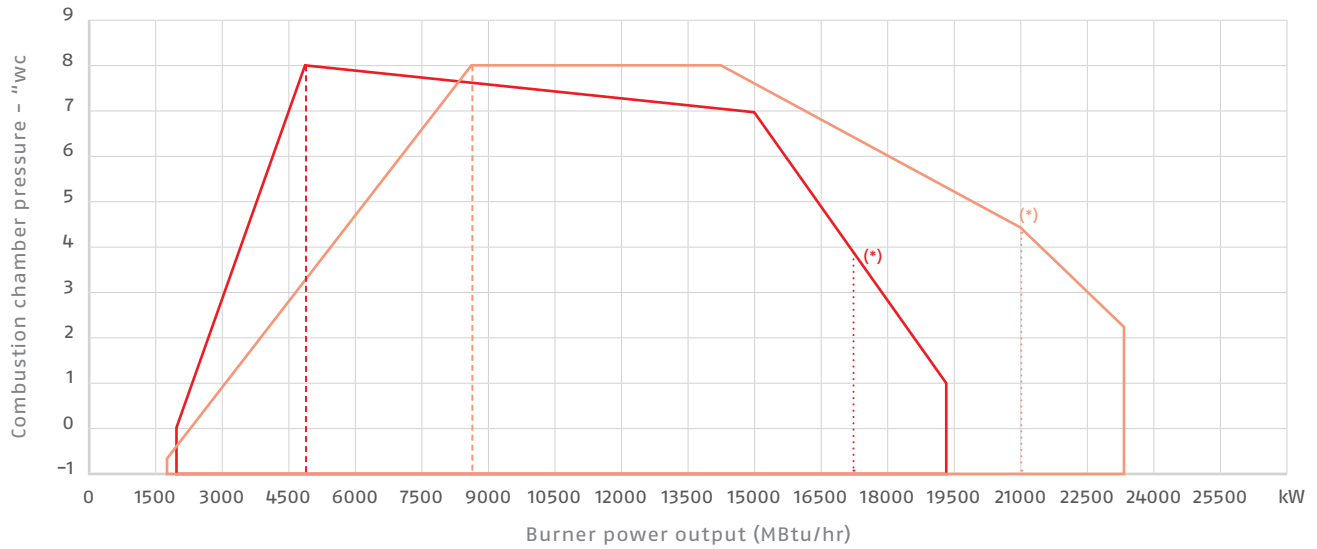
---- Modulation range

Test conditions conforming to EN676
 Temperature: 20 °C
 Pressure: 1013,5 mbar
 Altitude: 0 m a.s.l.



RIELLO RLAS 280÷810 PRODUCT RANGE

FIRING RATES



(*) Firing Rate for C-ETL Canadian Listing

— Useful firing rates for choosing the burner

---- Modulation range

Test conditions conforming to EN676
 Temperature: 20 °C
 Pressure: 1013,5 mbar
 Altitude: 0 m a.s.l.

—	RLAS 510
—	RLAS 610
—	RLAS 810

RIELLO ENERGY FOR A HEALTHY LIFE

MORE THAN 100 YEARS EXPERIENCE

Each RIELLO burner is the result of a long experience in design and manufacture, coupled with leading technology and flexible burner design. RIELLO has always believed and invested in the search for new materials and in the development of more advanced combustion technology.

OUR PRESENCE

RIELLO, World Leader in the production of gas, oil, dual fuel and Low NOx burners deliver outstanding performance across the full range of residential and commercial heating applications, as well as in industrial processes.

The RIELLO Combustion Research Centre represents one of the most modern facilities in Europe and one of the most advanced in the world for the development of the combustion technology.

Today, the company's presence on worldwide markets is distinguished by a well-structured and efficient sales network, alongside many important Training Centres located in various countries to meet its customers' needs.

With headquarters in Legnago (Northern Italy), RIELLO has been manufacturing premium quality burners for more than 100 years. The manufacturing plant is equipped with the most innovative systems of assembling lines and modern manufacturing cells for a quick and flexible response to the market.

RIELLO

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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.