



# RS – RLS HTD BURNERS

Gas and Dual Fuel burners  
with high turndown ratio

Product Overview

## RIELLO RS – RLS HTD BURNERS with high turndown ratio

Riello has developed a **complete range** of **Gas** and **Dual Fuel** burners characterized by a **High Turndown to 10:1**. The new **RS HTD** and **RLS HTD** models are the **evolution** of Standard and Low Emission burners and represent the **ideal solution** for all the applications with need of High Turndown.

Engineered for **maximum uptime**, the new burner models have been developed with an Electrical Panel that includes **all the components for basic burner operation** as standard equipment, optional accessories can easily be fitted on request. Parallel positioning fuel-air ratio control, by digital burner management systems, is at heart of the burner and can be enhanced by variable speed drive technology for maximum energy savings.

All models are approved and conform to the applicable North American standards.



## Product Range

Riello RS RLS HTD Range is available on **three burners series**:

|                               |                                |                              |
|-------------------------------|--------------------------------|------------------------------|
| <b>RS 50-190/E-EV HTD</b>     | Gas burner models              | 220 – 8.673 MBtu/hr          |
| <b>RS 68-160/E-EV LN HTD</b>  | Low emissions gas models       | 325 – 7.046 (6.302*) MBtu/hr |
| <b>RLS 68-160/E-EV LN HTD</b> | Low emissions dual fuel models | 293 – 7.000 (6.440*) MBtu/hr |

| Gas models      | MBtu/hr     |
|-----------------|-------------|
| RS 50/E-EV HTD  | 220 – 2.201 |
| RS 70/E-EV HTD  | 308 – 3.084 |
| RS 100/E-EV HTD | 440 – 4.405 |
| RS 130/E-EV HTD | 554 – 5.545 |
| RS 190/E-EV HTD | 867 – 8.673 |

| Low emissions gas models | MBtu/hr              |
|--------------------------|----------------------|
| RS 68/E-EV LN HTD        | 325 – 3.258          |
| RS 120/E-EV LN HTD       | 492 – 4.924          |
| RS 160/E-EV LN HTD       | 704 – 7.046 (6.302*) |

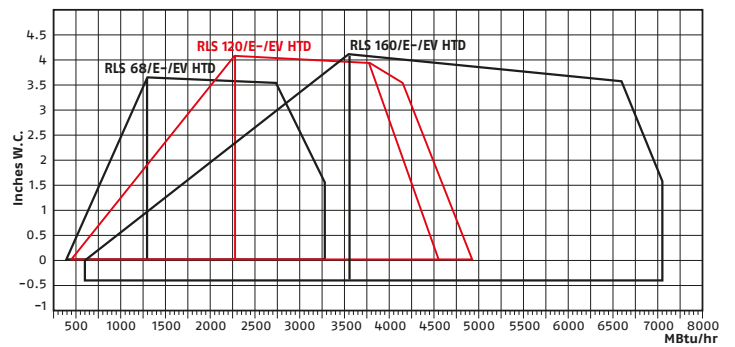
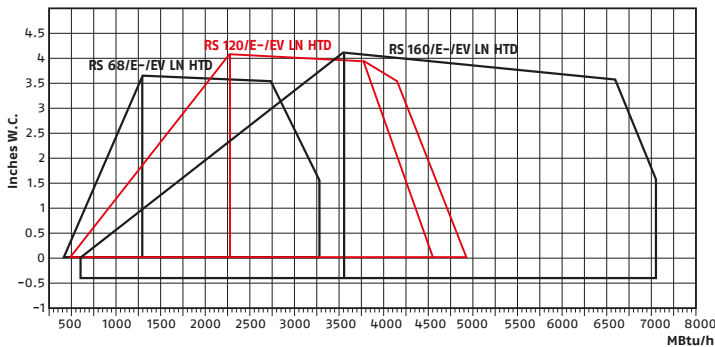
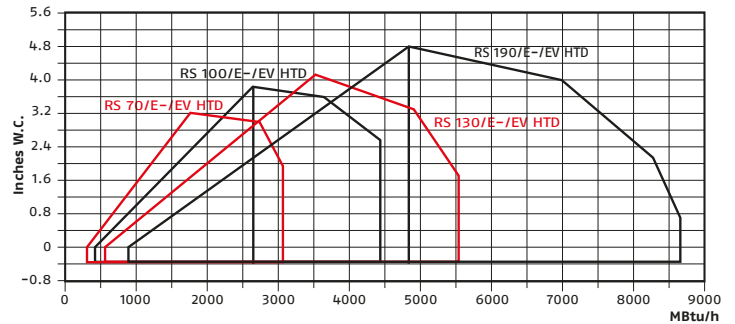
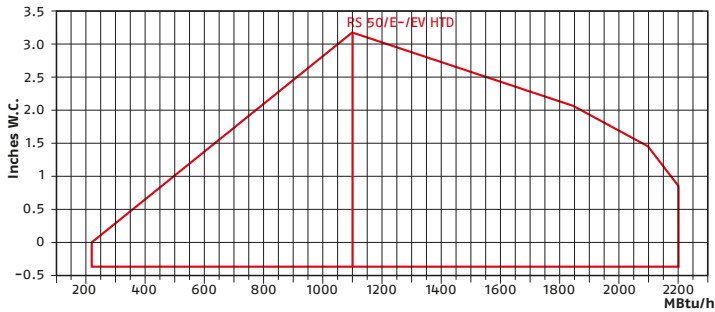
| Low emissions dual fuel models | MBtu/hr              |
|--------------------------------|----------------------|
| RLS 68/E-EV HTD **             | 293 – 2.934          |
| RLS 120/E-EV HTD **            | 409 – 4.094          |
| RLS 160/E-EV HTD **            | 700 – 7.000 (6.440*) |

\* Firing rate for C-ETL /C-UL Canadian Listing

\*\* HTD straight gas only

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## Firing Rates



The max. firing rates are based on zero furnace backpressure, ambient temperature of 68 °F, barometric pressure 39.4 inches w.c. an elevation of 329 ft a.s.l

## Advantages at a glance

- A wide modulation ratio to 10:1 allows a **fast reaction** to **heat demand** variation
- **Reduces thermal losses** due to frequent purge starting phases
- The burners can work for a long time on **intermediate output settings**, for optimum delivery of the thermal output in relation to system requirements
- Having a concrete impact in **boiler efficiency improvement**
- Resulting in **fuels costs saving**
- **Minimized the risks of failures** that can occur during critical phases of start-up



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

12/2016

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[ 1 ]



[ 2 ]

[ 1 ] BURNERS PRODUCTION PLANT  
S. PIETRO, LEGNAGO (VERONA) - ITALIA

[ 2 ] HEADQUARTER BURNERS DIVISION  
S. PIETRO, LEGNAGO (VERONA) - ITALIA

Across the world, Riello sets the standard in reliable and high efficiency burner technology.

With burner capacity from 5 kW to 48 MW, Riello gas, oil, 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 headquarter in Legnago, Italy, Riello has been manufacturing premium quality burners for over 90 year. 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.

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 combustion technology.

Today, the company's presence on worldwide markets is distinguished by a well-constructed and efficient sales network, alongside many important Training Centres located in various countries to meet its customers' needs. Riello has 17 operational branches abroad (in Europe, America and Asia), with customers in over 60 countries.

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