

2001

# RIELLO BURNERS NEWS

MAY



## RIELLO BURNERS Previews New Commercial Product Line at NAOHSM Show



This Fall, Riello Burners will be taking a significant step forward when it introduces its new line of commercial and process burners. The new product line will combine European innovative design and technology with the features the North American marketplace insists on.

Riello Burners is proud to preview the new line of burners with two models displayed at the NAOHSM show.

For the past 18 months, engineers and researchers in Italy, Canada and the United States have been diligently working together in designing the "R" series of light-oil, gas and dual-fuel burners based on the opinions of those that matter most -- the service technicians, the OEMs, and the end-users.

In developing the new product line, Riello Burners has focused on three key feature groups requested by the marketplace ... simplicity of service ... quality combined with reliability ... and a wide range of accessories to guarantee elevated operational flexibility. Although the first two feature groups are a part of any product manufactured by Riello Burners globally, more extensive research and development was needed on the controls and the fuel trains.

The importance placed on this research and development has resulted in the introduction of many first-time third-party products on Riello burners, including:

- Honeywell gas valves and flame safeguard controls
- Fireye flame safeguard controls
- Siemens gas valves
- Krom Schroder gas valves

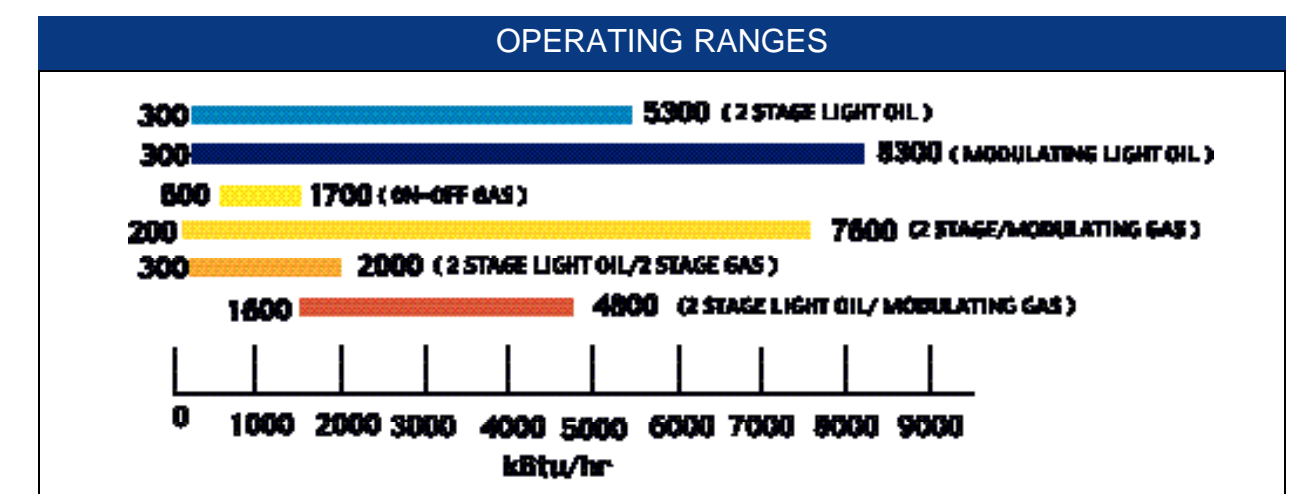
The above products, combined with the standard Siemens flame safeguard controls and Dungs gas valves, have enabled Riello Burners to proceed with UL, cUL, CSA and MEA approvals with the most comprehensive package available on these burners worldwide.

Designed for high-efficiency and performance in the most demanding of combustion environments, the "R" series will be suitable for both commercial and process applications, providing for reduced fuel consumption and operating costs.

Availability of on-off, camnetic 2-stage and modulating systems will allow for the ideal control selection for any application. And, should an application require it, the camnetic 2-stage burner can be changed to modulating simply by supplying a modulating signal to the servomotor.

The service slide bars and the exterior draw assembly adjustment screw supplied on each of the models allow for ease of installation, maintenance and service by the field service technician.

With offices in the United States and Canada staffed with qualified, factory-trained sales and technical personnel, Riello Burners will be ready to meet the demands of the marketplace.



## New 5-Year All Parts Warranty for Oil Burners Used in Residential Applications

Riello Burners is proud to announce the introduction of an industry-leading North America wide 5-year parts warranty program for its 40-Series oil burners used in residential applications.

The program will apply to burners purchased as parts of OEM packages and field replacement units purchased from authorized Riello Burners distributors.

Specifically, the warranty will apply to units bearing a manufacture date of January 1, 1998 and later and include the F3, F5, F10, F15 and F20 oil burners, as well as the BF3 and BF5 balanced flue models.

This new warranty feature is a significant endorsement for the quality and efficiency of Riello Burners products and provides yet another advantage for the full-service heating oil company and contractor to secure the confidence of oil heating customers.



## New Digital Control Box for 40-Series Burners

After two years of design and development effort, Riello Burners is proud to introduce a digital control box for its 40-Series burner line. The new unit will become standard equipment commencing this Fall and can be retrofitted onto existing units with very minor modification.

Among the many features, the unit will include a 15-second pre-purge (11-seconds with electric damper), up to 4 minutes of programmable post-purge, automatic lockout, 24VAC thermostat terminals, SLO-Bus© serial port, and a diagnostic LED.

An optional plug-in diagnostic device will also be introduced that can be used to extract critical data collected by the control box.

The digital control box will have communication-ability through its SLO-Bus© serial port and can be connected to a home computer via an adapter that will permit homeowners to monitor system performance.

The control box will track the following:

Operational and diagnostic data:

- Lockout fault data
- Programmed post-purge time
- Flame strength data
- Most recent ignition time data
- Line (RMS) voltage data

Historical data:

- Total number of burn cycles
- Total burn time
- Total Number of lockouts
- Most recent burn time

The device was designed and developed in North America specifically for the North American market.

## New Electric Air Damper Assembly

The F3 and F5 models of the popular 40-Series burners will have a new feature this Fall, an electric air damper assembly. This new feature will replace the hydraulic jack air damper assembly as the standard on the models.

The hydraulic jack air damper assembly has been a standard feature on several Riello burner series for over 20 years. The unique feature utilizes fuel oil that flows through the burner to open and close the air damper. The air damper is an energy-saving and maintenance-cost-saving feature that restricts airflow during the burner off-cycle.

The electric air damper assembly will be one of two new equipment options to be made available to counter the presence of high aromatic fuel oil. It has been found that a high level of aromatics in fuel oil negatively affects the original standard Nitrile-compound sealed hydraulic jack air damper assembly. Thus far, the presence of high aromatic fuel oil has been noted only in certain areas of Canada.

As an alternative to the electric air damper assembly and for parts replacements, Customers will be able to select a Viton-compound sealed hydraulic jack air damper assembly. Viton is a product that is not affected by aromatics.

## New State-of-the-Art Test Facility for North America

As Riello Burners prepares for the introduction of the new "R-Series" line of commercial and process burners, construction has begun on a new 3,000 square-foot test facility at its North American headquarters located in Mississauga, Canada.

The new test facility will house a total of 8 test stations. Three of those stations will include new European DIN-spec combustion test chambers to test-fire all R-Series burners leaving the assembly plant. Those test units allow the depths of the combustion chambers to be adjusted according to firing rates selected and include viewing ports down the length of the chambers. The other stations are test bays for application testing on OEM equipment. Four test bays are each sized for a maximum of 500,000 Btu/hr and one is sized for 8 million Btu/hr. All bays are equipped with separate light oil, nat-

ural gas, propane and power supplies as well as facilities for sidewall and chimney venting applications.

To compensate for possible system load swings the test facility has been designed to include a complete primary/secondary closed loop hydronic system with variable flow pumps, twin dry fluid coolers, expansion tank and heat exchangers.

An elevated office will overlook the entire test area and will house monitoring computers that will have the ability to receive test data directly from the Siemens emission test cabinet and the portable emission testers on the lab floor. The Siemens unit will be equipped to read CO, CO<sub>2</sub>, NO, NO<sub>2</sub>, NO<sub>x</sub>, O<sub>2</sub>, SO<sub>2</sub> as well as stack temperature.

Completion of the new facility is scheduled for the end of June, 2001.

Visit our web-sites:

[www.riellousa.com](http://www.riellousa.com)

[www.riellocanada.com](http://www.riellocanada.com)

## Message from the President

I recently celebrated my first anniversary as President of the Riello Burners North American Operations and I am very happy to state that it has been one of the most exciting and rewarding years of my life. And the future looks very bright.

Many talented individuals, both in North America and in Europe, are working diligently to create new products, enhance existing product lines, and support a new agenda for Riello Burners North America.

The initiatives that are underway focus on the most important facet of the operation, our Customers.

To enhance the service rendered to our Customers, the organizational structure is being redefined and reinforced around knowledge, effective systems and efficient processes. And, significant investments in plant, equipment, people and products are being made to ensure that our commitment becomes a reality.

Among the many initiatives undertaken, the most exciting thus far is the development of a comprehensive new line of

burners for commercial and process applications. This new product line embodies Riello Burners' global innovative strength and ability, and promises to deliver strong performance combined with an unparalleled package of design, energy efficiency, low emissions and reduced noise levels. The new product line will be available this Fall.

Another exciting initiative that will come to fruition in 2002 is the development and introduction of Low NO<sub>x</sub> burners for residential applications. A development team comprised of Riello Burners personnel from both North America and Europe is currently busy adapting the highly successful Riello Burners European Low NO<sub>x</sub> models to the North American market requirements. We are looking forward to the opportunity to work with our Customers to make this significant Low NO<sub>x</sub> technological leap forward in the North American marketplace.

And, to support the above initiatives, we are renovating and expanding our North American plant facilities and we have commenced construction of a new state-

## BURNOUT.



Are your service personnel  
"dead on their feet"  
from too many callbacks?

## BURN(ER) IN.



Install RIELLO burners  
for the utmost reliable performance.  
They could revive your service margins,  
as well as your technicians.



## BURNOUT.



Are your techs  
"dead on their feet"  
from too many callbacks?

## BURN(ER) IN.



Install RIELLO burners for the utmost in  
reliable performance.  
They could revive your service margins...  
as well as your technicians.



of-the-art test laboratory at our plant in Mississauga, Canada. Completion of all projects is scheduled for June 2001.

Riello Burners has been present and competing in the most demanding markets around the world with leading-edge products for a very long time. Its global experience allows Riello Burners to offer uniquely advanced heating solutions. And, our Customers benefit from the fact that behind Riello Burners North America is that global team of product engineers and developers who intimately understand combustion technology and product design.

It is because of the above developments that the people at Riello Burners have a renewed enthusiasm and positive outlook. We look forward to continuing to serve our Customers, with pride and commitment.

NICHOLAS GARERI  
President,  
Riello Burners  
North American Operations