

*** FOCUS ON**



RIELLO 40 - SERIES GAS BURNERS

Maximum Performance. Minimum Maintenance.



40 - SERIES G120 - G750 ON-OFF 38 - 750 MBTUH

40 - SERIES G900 2-STAGE 250 - 750 MBTUH

Overview

Quality engineered to Riello's world-class standard, 40-Series gas burners are built for maximum uptime. Riello 40-Series high-efficiency burners not only deliver low energy consumption and quiet, worry-free performance, they're the most reliable combustion technology on the market.

And Riello 40-Series gas burners offer a host of advanced features – such as durable, lightweight, compact construction; an integrated electronic control box with interrupted ignition; and an automatic air shutter that eliminates heat loss and enhances efficiency.

Easy to install and service, and backed by coast-to-coast support, Riello 40-Series gas burners are available with firing rates from 38 to 900 MBtuh to handle a complete range of residential and light-commercial/industrial applications. Riello 40-Series single- and two-stage gas burners are based on a simplified, integrated design that is engineered to deliver reliable, low-maintenance, fuel-efficient heat. All 40-Series burners are thoroughly quality tested to ensure the highest performance in residential and light-commercial/industrial applications such as steam boilers, heat exchangers and furnaces.

Main features

- Durable, lightweight, compact construction for long life and maintenance-free operation
- Interrupted ignition minimizes component failure and saves power
- Low-voltage electronics for greater reliability
- Self-centering drawer assembly provides for precise air/fuel mixture
- Factory pre-wired for flame sensing; only three adjustments required

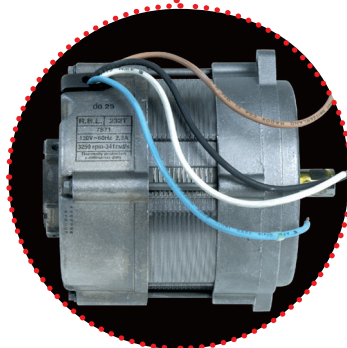
1 - INTEGRATED PRIMARY CONTROL

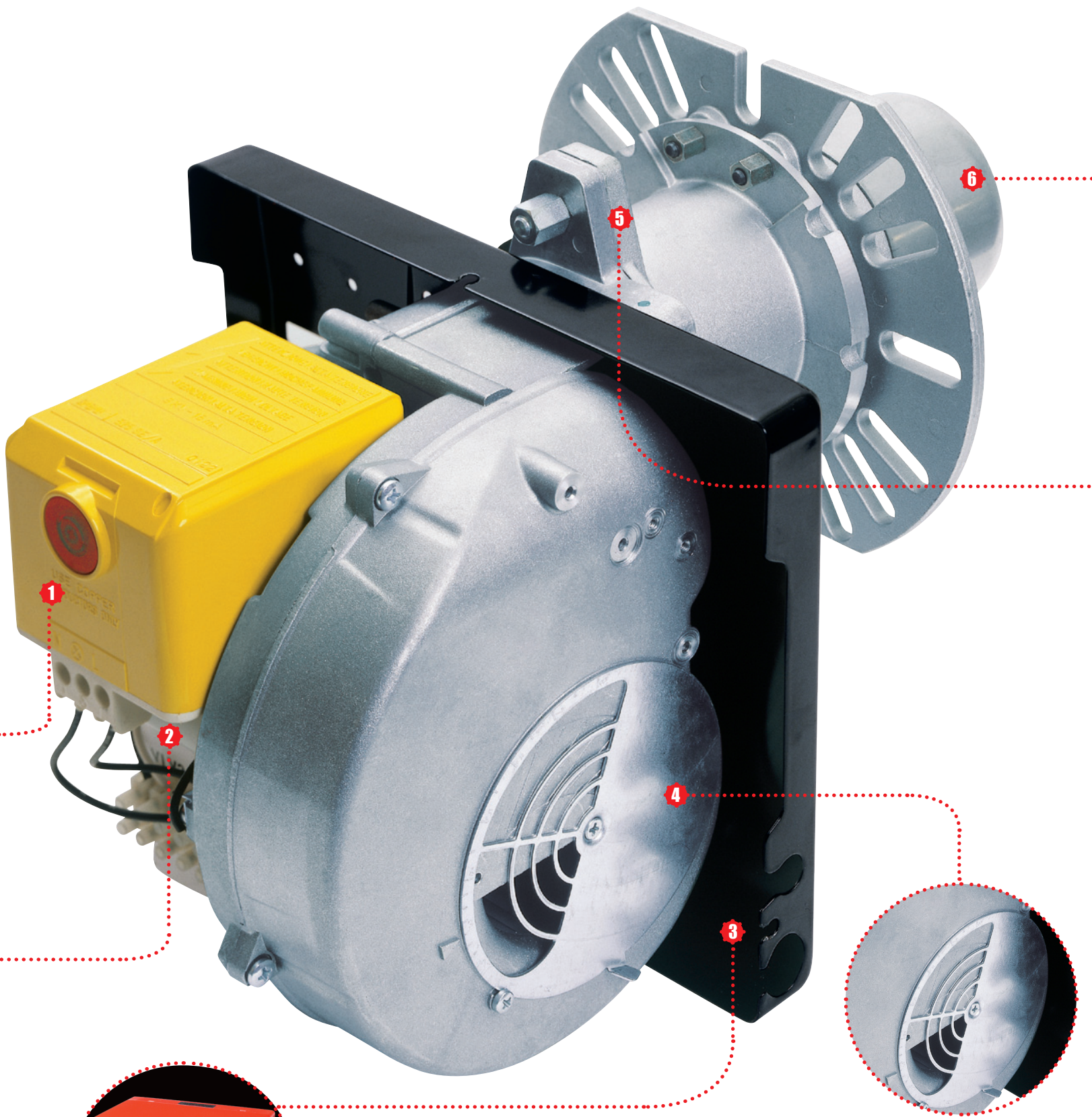
The 40-Series' electronic control box combines interrupted ignition, a 5-second safety shutoff and a 30-second prepurge cycle.



2 - PERMANENT SPLIT CAPACITOR (PSC) MOTOR

A high-speed, permanent split capacitor (PSC) motor, with an exclusive low voltage tap for the primary control and automatic reset on thermal overload, provides for low power consumption, long-life and maintenance-free operation.





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3 - ACOUSTICALLY INSULATED

Sound deadening acoustic insulation within the 40-Series' heavy-gauge metal cover provides for incredibly quiet operation, even at full output.

4 - MANUAL AIR GATE *

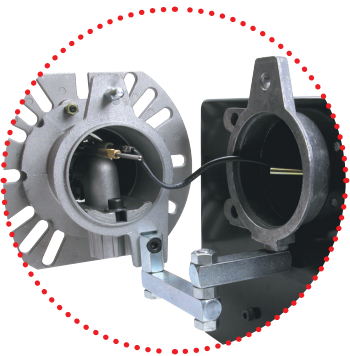
40-Series gas burners come standard with a manually adjustable air gate that provides for quick one-time setup and easy adjustment of the combustion air during subsequent maintenance.

* Not available on the G900



6 - UNIQUE COMBUSTION HEAD

A pioneer in flame retention head design, Riello has engineered the 40-Series high-static-pressure combustion head with the ideal flame geometry, to burn ultra-clean.



5 - SWINGAWAY CHASSIS

Riello 40-Series gas burners feature a swingaway chassis allowing quick and easy access to the combustion head for burner setup, maintenance and service.

* Not available on the G120.

AIR INTAKE CONTROL



SERVO CONTROLLED AIR INTAKE

The 2-stage G900 comes standard with an electronic air damper that automatically adjusts the air intake volume by means of a servomotor and multi-stage cam assembly.

CUSTOM SOLUTIONS

At Riello, we partner with our customers to offer a broad range of custom solutions. We'll even finish our covers in the color of your choice.





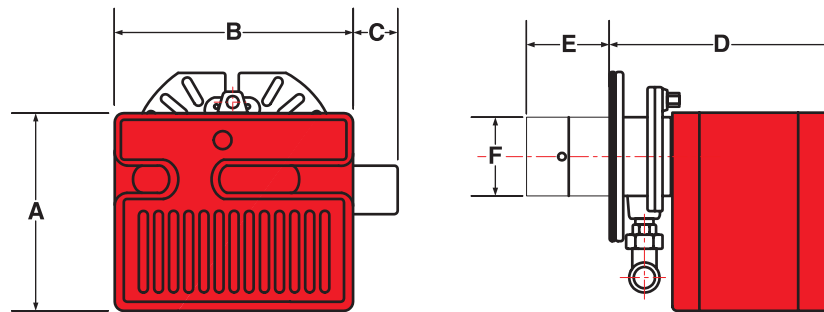
SPECIFICATIONS

RIELLO 40 SERIES GAS FORCED DRAFT BURNERS

Model	ON - OFF						2-STAGE			
	G120		G200		G400		G750		G900	
Fuel Type	Natural	Propane	Natural	Propane	Natural	Propane	Natural	Propane	Natural	Propane
Firing Rate	38 - 120		70 - 200		170 - 400		250 - 750		250 - 490 ⁽¹⁾ 360 - 900 ⁽²⁾	
Manifold gas pressure "w.c. min.- max.	3.5"	3.5"	3.5"	3.5"	3.5"	3.5"	1.4 - 2.1	1.0 - 3.0	.55 - 1.1 ⁽¹⁾ 2.3 - 3.3 ⁽²⁾	1.7 - 3.4 ⁽¹⁾ 2.6 - 6.0 ⁽²⁾
Burner Supply Pressure "w.c. min.- max.	7 - 14	8 - 13	7 - 14	8 - 13	7 - 14	8 - 13	7 - 14	8 - 13	7 - 14	8 - 13
Motor Ratings	120V 60Hz 2.2 Amp 3250 rpm						120V 60Hz 4.3 amp 3250 rpm			

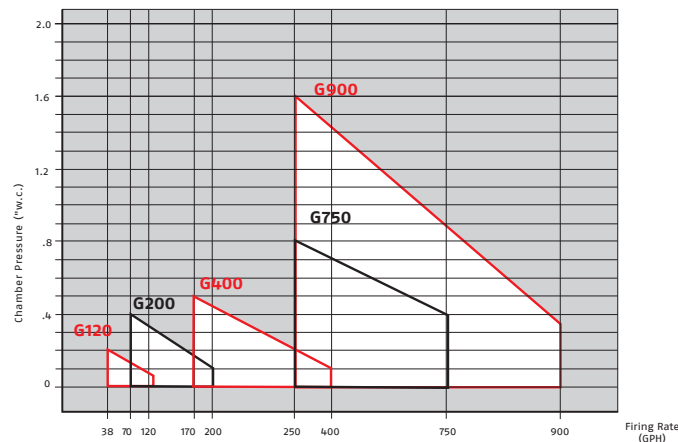
⁽¹⁾ Low Fire
⁽²⁾ High Fire

DIMENSIONS



Model	ON - OFF				2-STAGE
	G120	G200	G400	G750	G900
A	8 ¹ / ₂ " (215 mm)	9 ³ / ₁₆ " (233 mm)	10 ⁵ / ₁₆ " (262 mm)	11 ³ / ₄ " (298 mm)	11 ³ / ₄ " (298 mm)
B	9 ¹⁵ / ₁₆ " (252 mm)	10 ¹¹ / ₁₆ " (272 mm)	12" (305 mm)	13 ³ / ₄ " (350 mm)	13 ³ / ₄ " (350 mm)
C	1 ³ / ₈ " (35 mm)	1 ³ / ₈ " (35 mm)	1 ³ / ₈ " (35 mm)	N/A	3 ³ / ₄ " (95 mm)
D	9 ¹ / ₁₆ " (230 mm)	11 ⁵ / ₈ " (295 mm)	13 ¹¹ / ₁₆ " (347 mm)	15 ⁵ / ₁₆ " (389 mm)	15 ⁵ / ₁₆ " (389 mm)
E	SBT Fixed Flange	3 ³ / ₈ " (85 mm)	3 ³ / ₈ " (85 mm)	3 ³ / ₄ " (95 mm)	4 ¹ / ₈ " (105 mm)
	LBT	10" (255 mm)	10" (255 mm)	10" (255 mm)	10 ⁵ / ₈ " (270 mm)
F	3 ⁹ / ₁₆ " (91 mm)	3 ⁹ / ₁₆ " (91 mm)	4 ¹ / ₈ " (105 mm)	4 ¹⁵ / ₁₆ " (125 mm)	4 ¹⁵ / ₁₆ " (125 mm)

FIRING RATES



Reference Conditions

Ambient temperature: 68°F (20°C)
Barometric pressure: 394" w.c.
Altitude: 329 ft. a.s.l.

40-Series gas burners are CSA, CGA and AGA approved.

Riello Burners - 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 17 thousand to more than 122 million Btu/hr, 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 90 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.

Throughout the United States and Canada, for more than 30 years, our staff and independent sales and support network are dedicated to providing applications engineering support, commissioning, hands-on training, ongoing technical assistance, and after-sales service.

Riello Burners - delivering reliable combustion solutions for our customers in North America and around the world.

2165 Meadowpine Blvd
Mississauga, Ontario
Canada L5N 6H6

1-800-4-RIELLO
1-800-474-3556
www.riello.ca

35 Pond Park Road
Hingham, Massachusetts
U.S.A. 02043

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