



**The  
Power  
To  
Burn.**<sup>SM</sup>

# Gordon-Piatt<sup>TM</sup>

www.Gordon-Piatt.com

## Intelligent design, smart operation

Gordon-Piatt burners are the premier choice for die-hard performance and exceptional reliability in commercial and industrial applications.

The Model R series of forced draft burners fires gas, oil or combination dual fuels with pressure atomizing oil systems. The Model R is most commonly used with cast iron and firebox boilers, and other applications with firebox pressures not exceeding 1.50 inches water column.

Like all Gordon-Piatt burners, the Model R series is equipped with a patented stainless steel combustion head for pulsation-free operation with high heat release in confined combustion chambers.

## Gordon-Piatt<sup>TM</sup> – for the long run

As an exclusive brand of John Zink Company, Gordon-Piatt<sup>TM</sup> products are developed, tested and manufactured with precision engineering and sophisticated controls. Our engineers design burner products that work for retrofit as well as replacement applications, which means Gordon-Piatt<sup>TM</sup> customers are assured the burners they choose today will perform safely and reliably far into the future.

Ask about our legendary service and support team, world-class manufacturing, and dedicated research and development — all of which keep Gordon-Piatt<sup>TM</sup> products built for the long run.

### John Zink Company, LLC

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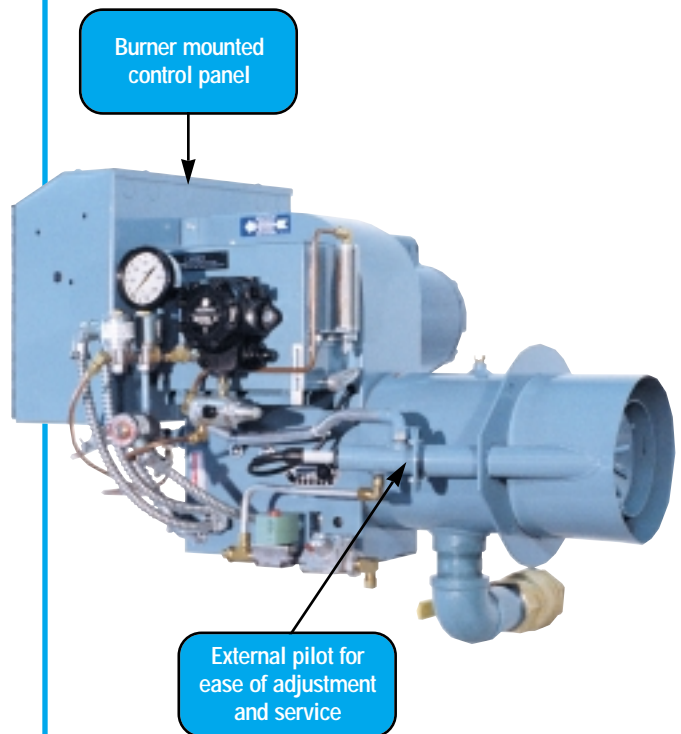
# Model R

Patented\*

Forced Draft Gas, Oil or Combination  
Dual-Fuel Burners

## Features

- A variety of control systems available, including on-off, low-fire start, low-high-low and modulation.
- Patented stainless steel head combines a ring of recessed gas ports with controlled primary air for maximum flame retention.



\*Covered by one or more of the following U.S. Patent Numbers 4785680, 4932274, 5441404, 5722821, 5944506, 5957682. Canadian Patent Number 1279632 and Canadian Patents Pending.

## Standard Equipment

### General

Blower motor and fan  
Air inlet register  
Air flow safety switch  
External pilot for ease of adjustment and service  
Characterized linkage optional

### Control Cabinet

Indicator lights and control switch  
Programming combustion safety control  
Motor contactor and overload protection  
Raised terminal strip for ease of accessibility and service  
Auto manual switch with manual potentiometer standard on all modulating units  
Fuel transfer switch on combination burners

### Gas

Safety pilot burner  
Ignition transformer  
Pilot solenoid valve  
Pilot shutoff cock  
Main shutoff cocks  
Main and pilot pressure regulators  
Automatic gas valves  
Flame detector  
Pressure gauge

### Oil

Oil drawer assembly with air diffuser  
Oil solenoid valve  
Direct spark ignition available on R6 and R10  
Gas pilot ignition standard on R12  
Flame detector (photocell or scanner)  
Burner-mounted oil pump standard, remote pump sets optional  
Oil nozzles  
Pressure gauges and regulators

Low-NOx combustion systems available for the Model R series.

All Gordon-Piatt burners are factory-wired and assembled.

Frontplates and refractories available to adapt burner to boiler or other appliance.

# Model R

Forced Draft Gas, Oil or Combination Dual-Fuel Burners

## Capacities

### Model R

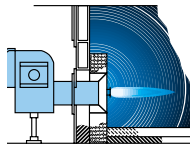
- 400,000 – 8,100,000 Btu/hr
- 10 – 190 boiler horsepower

A wide range of sizes are available for maximum efficiency and performance.

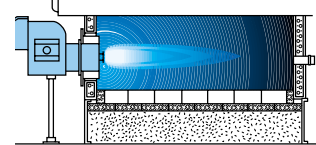
## Typical Installations

### Applications

- Forced draft
- Natural draft
- Induced draft



Model R – Installed through front of base in firebox boiler with conventional base and combustion chamber.



Model R – Firing firebox boiler through the door.

## Fuels Burned

### Gases

Natural  
LP  
Mixed  
Digester

### Oil

No. 2 (light)

### Combinations

Gas-oil  
Gas-gas

Fuel changeover automatically or by flick of a switch.

Underwriters Laboratories Inc.  
Listed to U.S. and Canadian safety standards



IRI, FM, CSD-1, NFPA, and other agency requirements upon request.



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For complete engineering data contact your Gordon-Piatt<sup>TM</sup> representative.