



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 I-F** forced draft burner combines the proven reliability of our gas and oil firing Model F burner with the economical addition of induced flue-gas recirculation (FGR) for superior low-NOx performance. The **Model I-F** is ideal for firetube or watertube boilers, as well as a variety of other applications.

GORDON-PIATT burners – for the long run

As an exclusive brand of John Zink Company, LLC, GORDON-PIATT 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 customers are assured the GORDON-PIATT 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 products built for the long run.



**The
Power
To
Burn.**

Gordon-Piatt®
Brand

John Zink Company, LLC
11920 East Apache, Tulsa, OK 74116
Fax: 918-234-1833
e-mail: gpinfo@johnzink.com

Model I-F^{PATENTED*}

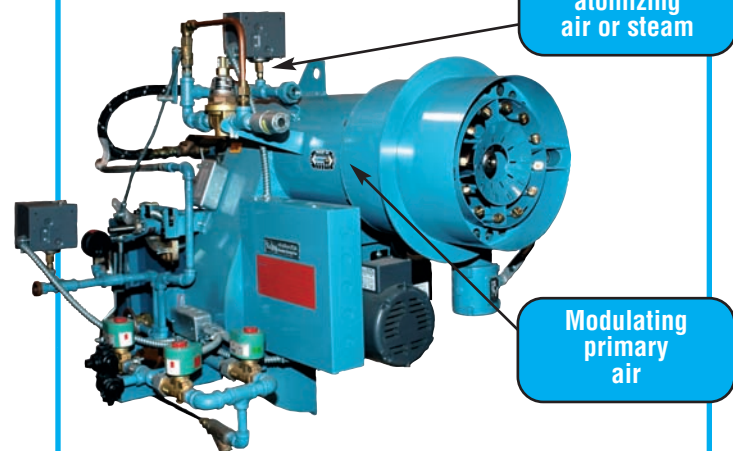
Forced Draft Gas, Oil or Combination
Dual-Fuel Low-NOx Burners

Air or Steam Atomizing Oil Systems

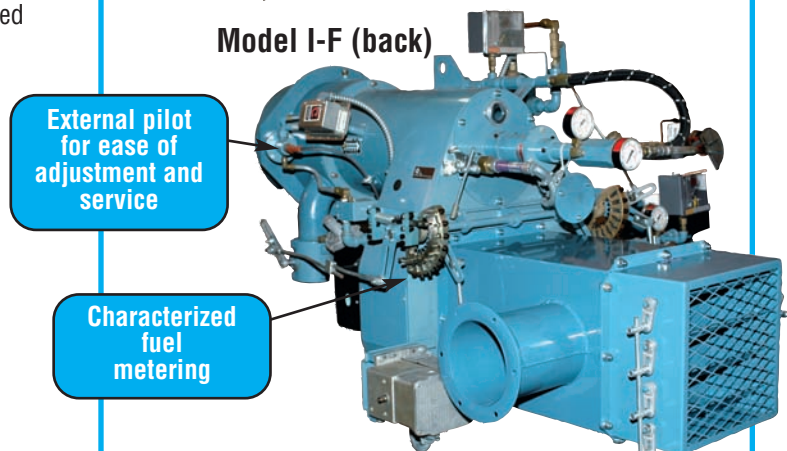
Features

- Modulating control systems with proven low-fire start, pre-purge and post-purge air control is standard.
- Stainless steel head combines a ring of recessed gas ports with controlled primary air for maximum flame retention.
- Separate air adjustment provides unique air control at the firing head for adapting to a variety of conditions.
- Addition of induced FGR provides reliable, economical NOx control.

Model I-F (front)



Model I-F (back)



*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 louver box
 Airflow safety switch
 Characterized linkages
 Air-FGR mixing box
 Modulating FGR control damper

Control Cabinet

Combustion flame safeguard control
 Indicator lights and control switch
 Modulating sub-panel, manual/automatic switch and manual potentiometer
 Motor starter with overload protection
 Fuel transfer switch
 Raised terminal strip for easy service and accessibility

Gas

Safety pilot burner
 Ignition transformer
 Pilot solenoid valve
 Pilot shutoff cock
 Safety test cock
 Pilot regulator
 Flame detector
 Automatic gas valves

Oil

Air compressor for air atomizing oil burners
 Oil drawer assembly with oil nozzle
 Oil solenoid valve(s)
 Oil flame detector
 Oil pressure gauges
 Modulating atomizing air or steam

Linkage-less control systems available for precise control.

FGR line from stack to burner is not included and must be supplied by others.

All GORDON-PIATT burners are factory-wired and assembled.

Front plates and refractories are available to adapt burner to boiler or other appliance.

Model I-F

Forced Draft Gas, Oil or Combination
 Dual-Fuel Low-NOx Burners

Air or Steam Atomizing Oil Systems

Capacities

Model I-F

- 4,200,000 – 42,000,000 Btu/hr
- 100 to 1,000 boiler horsepower

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

Typical Installations

Applications

- Firetube boilers
- Watertube boilers

Emissions

Guaranteed emissions as low as:

- Less than 30 ppm NOx for gas
- Less than 78 ppm NOx for #2 oil
- Less than 100 ppm CO

Fuels Burned

Gases	Oils	Combinations
<ul style="list-style-type: none"> • Natural • LP 	<ul style="list-style-type: none"> • No. 2 	<ul style="list-style-type: none"> • Gas-oil

Fuel changeover automatically or by flick of a switch.

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

For complete engineering data contact your GORDON-PIATT products distributor.

