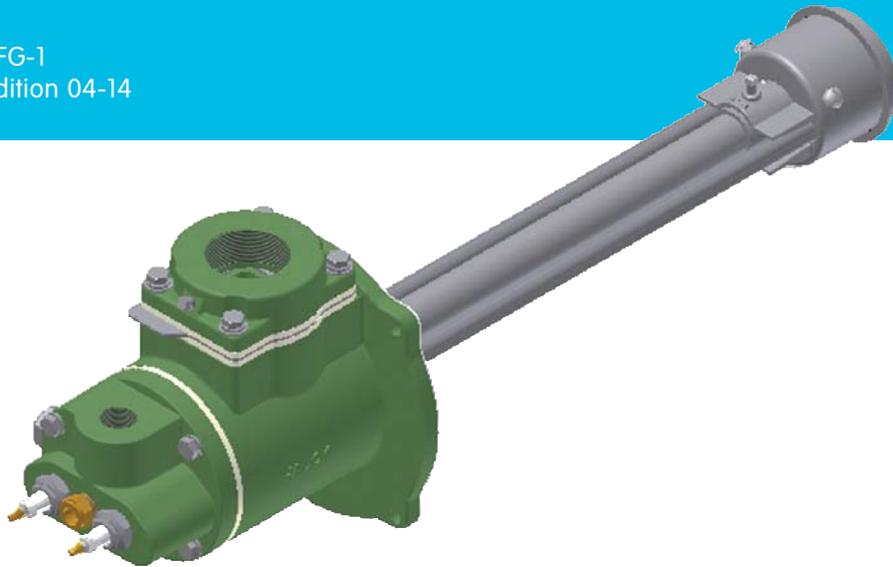


# RFG

## RADiflame Radiant Tube Gas Burner

RFG-1  
Edition 04-14



- Designed for use with a variety of radiant tube designs and sizes
- Available with 8 or 16 osig (34.5 mbar and 69 mbar) inlet air pressure
- Ambient or preheated combustion air up to 800°F (425°C)
- Simple construction for ease of assembly and service
- Low pressure design for preheated air applications
- Excellent tube temperature uniformity

Hauck's RFG radiant tube burners provide reliable ignition, flame stability and uniform heat distribution in all radiant tubes. The fixed spin plate construction allows for specific and repeatable air flows with a standard flame length relative to the burner's capacity. RFG burners are available with maximum capacities of 500,000 or 880,000 Btu/hr (130 or 230 kW). The RFG can fire any clean industrial fuel gas with a higher heating value of 500 Btu/ft<sup>3</sup> (19.7MJ/nm<sup>3</sup>) or greater with ambient or preheated combustion air.

### Burner Control

RFG burners are normally operated with automatic control systems. They can be used in cross-connected ratio, high/low or high/off control systems and offer reliable pulse firing ignition. Burners are suitable for use on push, push-pull, and pull through systems.

### Construction

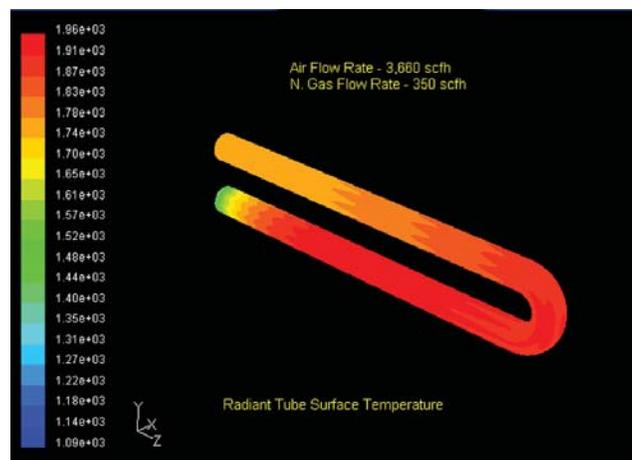
The RFG burner features industrial grade bolted castings with a modular construction. Reliable ignition is provided through the integral spark igniter. The RFG features an integral gas limiting orifice valve, eliminating the need to purchase and install this component separately. The burner is easy to use with very little operator adjustment required.

### Energy Savings

The burner's low pressure design requires less combustion air pressure to operate the burner, substantially reducing the combustion air blower's power consumption. This feature also makes it ideally suited for use with preheated air via a radiant tube plug-in recuperator such as Hauck's RADimax for additional energy savings.

### Reduced NOx Emissions

The use of flue gas inspiration (FGI) can significantly reduce NOx emissions. Hauck's FGI system employs our patented method of using compressed air to entrain exhaust gases into the combustion air. Subsequent introduction of flue gas laden combustion air into the burner reduces the peak temperature of the flame resulting in lower NOx emissions and high thermal efficiency.



**RFG Radiant Tube Temperature Uniformity**

### Burner Selection

RFG burners are available in 16 osig / 69 mbar (100 series) or 8 osig / 34.5 mbar (200 series) versions to better fit application requirements or burner retrofits.

To aid in burner selection, please provide the following information when ordering:

- Btu/hr heat release per burner
- Tube type and material
- Furnace wall thickness
- Preheated combustion air temperature
- Furnace or process temperature
- Tube I.D., O.D., and length
- Recuperator type

For additional information on this product, visit our website at:

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

Hauck Manufacturing Company  
100 North Harris St  
Cleona, PA 17042

T +1 717-272-3051  
F +1 717-273-9882  
[info@hauckburner.com](mailto:info@hauckburner.com)



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