

RKG

Radiant Cone Gas Burner

RKG-1
Edition 07-08



Hauck, a product brand
of the Elster Group



- Compact ball-shaped flame for even heating
- Direct spark or gas pilot ignition
- Immediate ramping up to high fire reduces furnace heat-up time
- Stable operation at ratio in cold furnace
- Minimum distance requirement from burner to load
- Roof or sidewall mounting
- Preheated air up to 800°F (425°C)
- UV or flame rod flame supervision

The Hauck RKG radiant cone burner is designed for applications requiring even heat distribution with a short flame length. The compact flame pattern promotes even heating by radiation from the furnace walls and roof. The short flame length allows the burner to be placed close to the load without flame impingement.

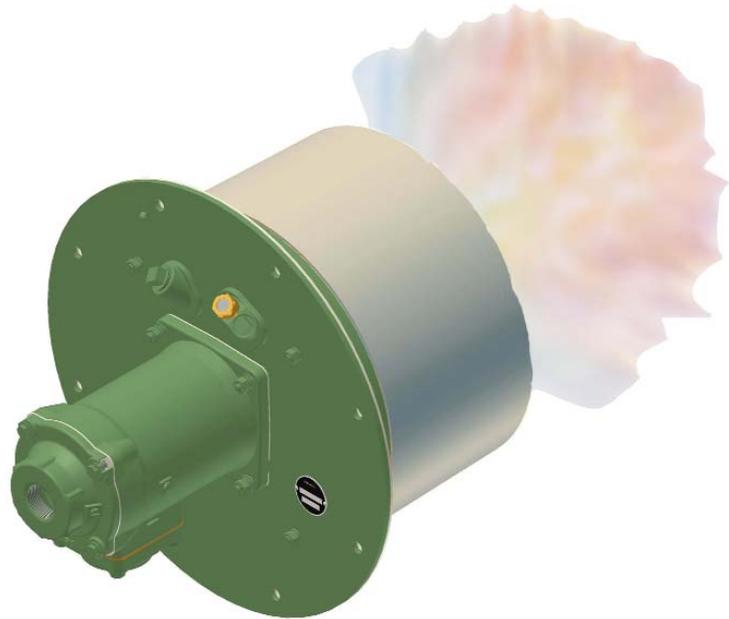
The burner is available in six sizes, with a capacity range of 177,000 to 2.3 million Btu/hr (47 to 611 kW). Hot air versions are available for preheated air up to 800°F (425°C).

The RKG incorporates a port for monitoring the pilot and main flames with either a UV scanner or optional flame rod. An optional spark igniter kit is available. The burner, mounting plate and refractory tile are shipped as an assembled unit ready for mounting on the furnace. The RKG can be installed to fire in any position.

Even in a cold tight furnace, the RKG can be ignited and brought to high fire immediately, reducing furnace heat-up time.

The burner performs equally well when firing on-ratio, with excess fuel up to 20%, or with excess air limits ranging from 280 to 400% at 16 osig (6900 Pa) inlet air pressure.

The RKG may be operated in furnaces with chamber temperatures up to 2500°F (1370°C).



FLAME CHARACTERISTICS

BURNER SIZE	APPROX. FLAME DIA.*	APPROX. MAX. FORWARD FLAME TRAVEL	MIN. TILE TO WORK DISTANCE**
RKG 112	12"	6"	14"
RKG 115	14"	7"	14"
RKG 120	22"	7"	14"
RKG 125	26"	8"	16"
RKG 130	30"	9"	17"
RKG 140	36"	10"	19"

* The normal minimum centerline to centerline distance between burners is the same as the flame diameter. Burners may be positioned closer to each other, but there may be some gas interference.

** Recommended minimum tile to work distances should be maintained to avoid contact with the hot gases.

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

www.hauckburner.com

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