

Innovative Combustion Solutions Worldwide

RATIOMATIC BURNERS

FOR PROCESS AIR HEATING

VERSION 3.00

Eclipse Combustion



ECLIPSE RATIOMATIC BURNERS HAVE NO EQUALS IT COMES TO SAFETY AND SIMPLICITY

New design takes the guesswork out of start-up and adjustment.

Designed for more value

Ratiomatic customers from around the world have been reporting years of high performance with little or no downtime. So you might wonder why Eclipse would want to make any changes to what most already call the best nozzle-type air heat burner on the market. Well, as the industry's technology leader, Eclipse is always looking for ways to improve and add more value. In the case of the Ratiomatic family of burners, we found a way to simplify start-up and adjustment time. Plus, offer more packaging options for greater flexibility in operation and ordering.

Compare features and benefits

Before purchasing air heating burners be sure to compare these quality features and benefits of the Ratiomatic burner with other competitive equipment.

Outstanding Performance

- Ratio regulator automatically compensates for changes in operating conditions, such as dirty air filters, which can upset air/gas ratio in competitive linked valve systems.
- Up to 100:1 turndown with a cross-connected ratio regulator that limits excess air at low fire for maximum fuel efficiency.
- Ideal for emission-sensitive processes due to low NO_x, CO and aldehydes.

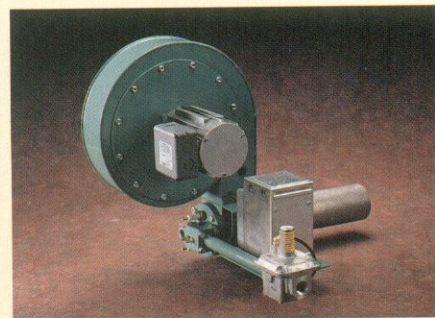
- Direct-drive air butterfly eliminates linkages which can slip or jam during operation.
- Fast-mixing nozzle with unique geometry provides clean, stable flame at all firing rates; standard firing tube operates with cross-flows up to 3,000 fpm (15m/s).
- Nozzle placement releases heat into the chamber, not the oven wall.
- Rugged cast iron body, back cover and gas inlet on most models provide durability.
- Capacities from 500,000 to 25,000,000 Btu/hr.

Easy to install, easy to operate and easy to maintain

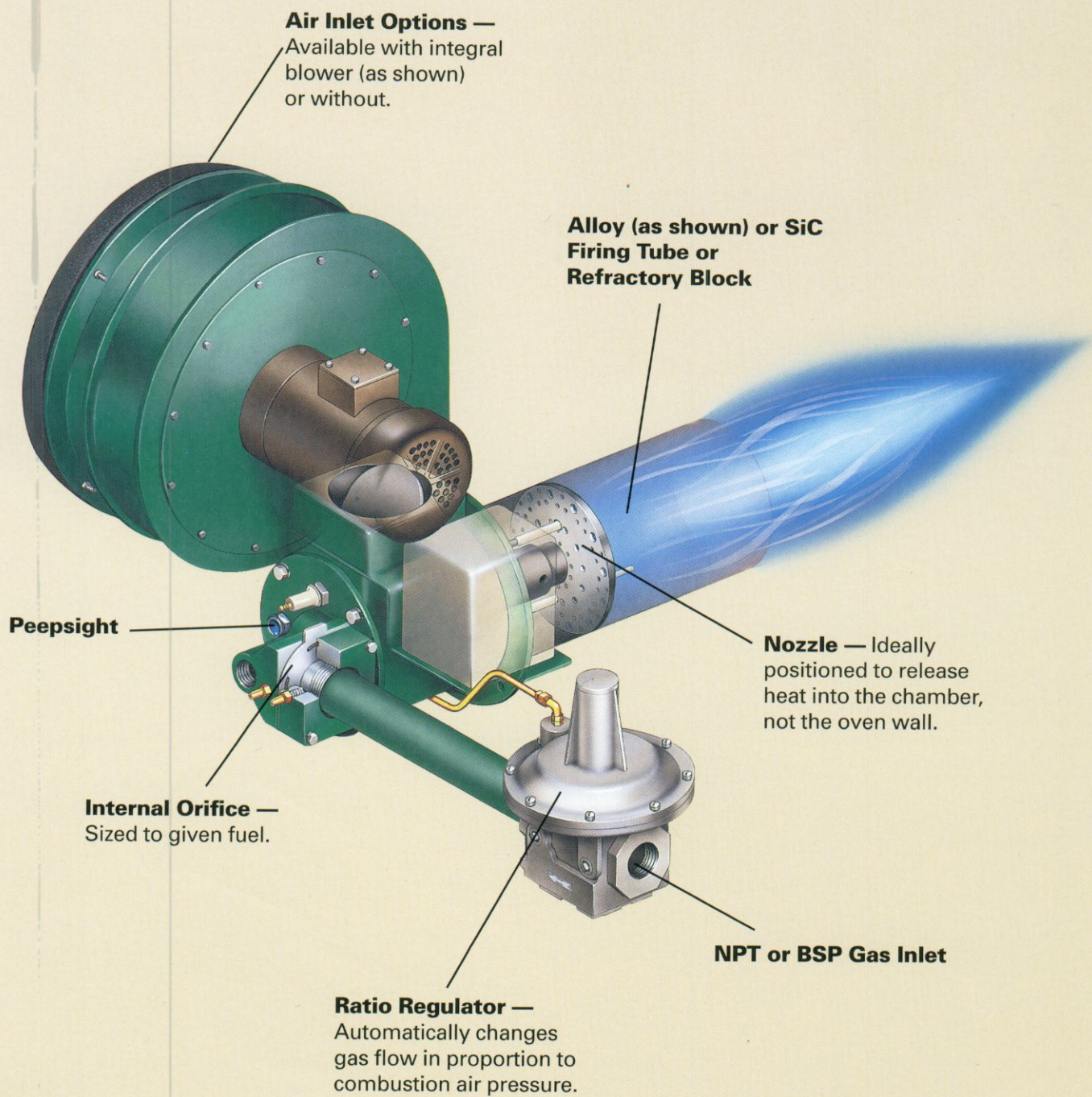
- Standard nozzles burn natural gas, propane, or butane.
- Right or left hand piping easily adapts to any system.
- Burner can be completely disassembled from the rear without entering the oven or duct.
- Optional quick-change air filter uses inexpensive replacement elements.
- Quick-change spark and flame rods need no trimming or measuring for proper positioning.
- Direct spark ignition—no need to pipe pilot air.

More choices

- Burners can be ordered stripped or completely packaged, wired, and piped, ready to install and fire.
- Choice of alloy tube or high temperature combustion chamber (SiC tube or refractory block) to accommodate various wall materials and operating temperatures.
- Models less blower to connect multiple burners to a single air manifold; or fire against high back-pressures.
- Available with IRI or NFPA type valve trains.



QUAL WHEN





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