

# ECLIPSE RATIO MATIC BURNERS

*The world's most reliable  
air heating burner is now  
even safer and simpler*

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

Eclipse Combustion engineers found a way to simplify burner start-up and adjustment while offering more package options for greater flexibility in operation...worldwide.

Compare these user-preferred features of RatioMatic to any competitive model:

- Ratio regulator automatically compensates for changes in operating conditions – such as dirty air filters – which can upset the air/gas ratio in competitive linked valve systems.
- Turndown range of up to 100:1.
- Direct-drive air butterfly eliminates linkages which can slip or jam during operation.
- Fast-mixing nozzle provides clean stable flame at all firing rates and releases heat into the chamber, not the oven wall.
- Ideal for emission-sensitive processes due to low NO<sub>x</sub>, CO and aldehydes.
- Capacities from 500,000 to 25,000,000 Btu/hr.

***Easy to install, operate and  
maintain...worldwide***

- Standard nozzles burn natural gas, propane or butane.
- Right or left hand piping. BSP or NPT pipe threads.
- Can be disassembled from rear without entering the oven or duct.
- Direct spark ignition.

***High Performance Burners  
For Process Air Heating***



- Quick-change spark and flame rods; optional inexpensive quick-change air filter.

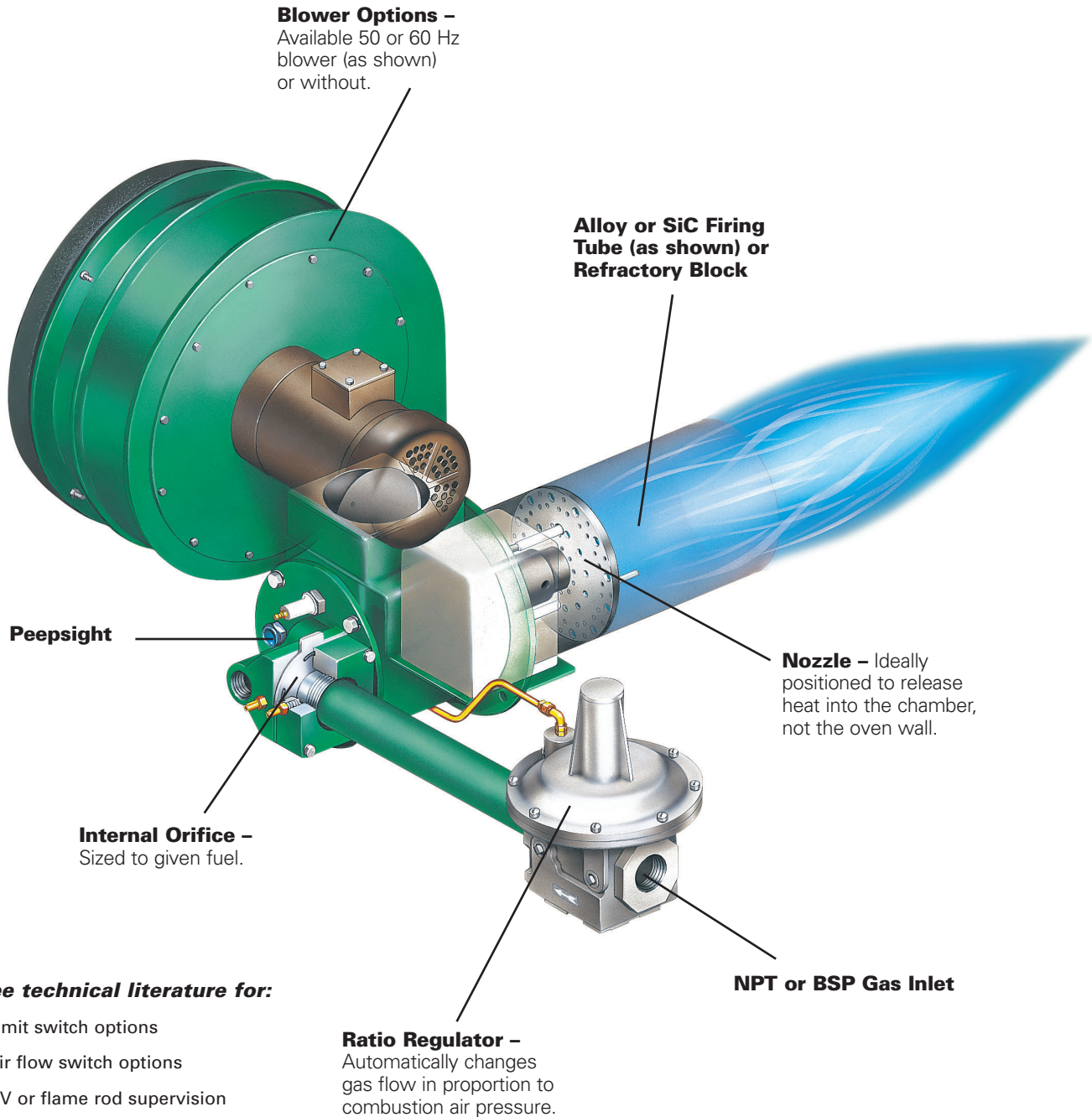


***World class choices***

- Can be ordered stripped or completely packaged, wired and piped, ready to set up and start up.
- Choice of alloy tube or high-temp combustion chamber (SiC tube or refractory block).
- IRI, NFPA, or CE type valve trains.
- Models less blower to connect multiple burners to a single manifold; or for high pressure blower/high back-pressure applications.
- 50 or 60 Hz blowers.

# RatioMatic Burners

*Unparalleled fuel efficiency and low NO<sub>x</sub>, CO and aldehyde outputs make RatioMatic ideal for emission-sensitive applications.*



**See technical literature for:**

- Limit switch options
- Air flow switch options
- UV or flame rod supervision
- Actuator options
- Alternate piping configurations

**ECLIPSE<sup>®</sup>**  
Innovative Thermal Solutions



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