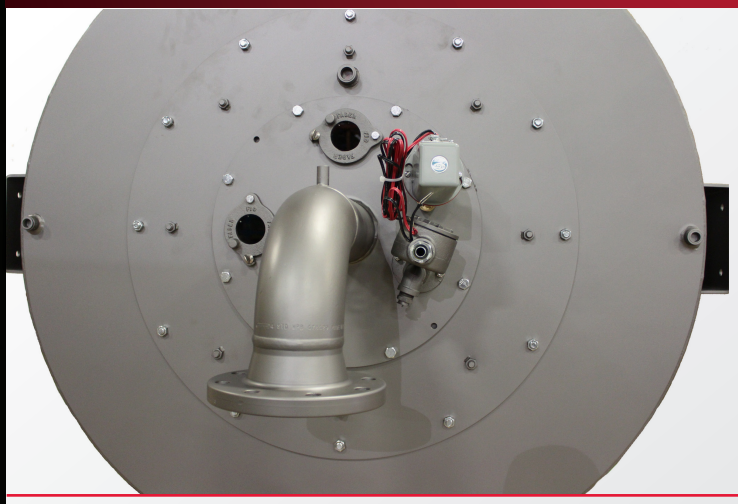
FABER
Burner Company

L_3E-SGB MODULAR LOW EMISSION GAS BURNERS

Ideal for emission level compliance driven retrofits utilizing the existing fan, controls and pipe trains.

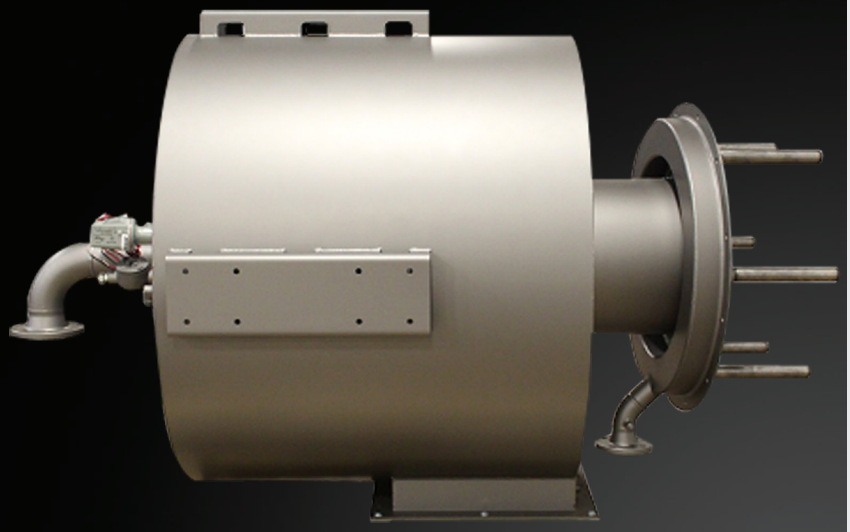
- 13 – 62 MMBTU/hr heat input with maximum chamber temperatures of 2200°F
- Natural gas fired
- Guaranteed NOx emissions as low as 15 ppm with FGR
- Low excess air
- Up to 10:1 turndown ratio
- Modular design
- Quick delivery from stock modules
- Flexible configurations for:
  - Process heaters
  - Kilns
  - Furnaces
  - Dryers
  - Oxidizers



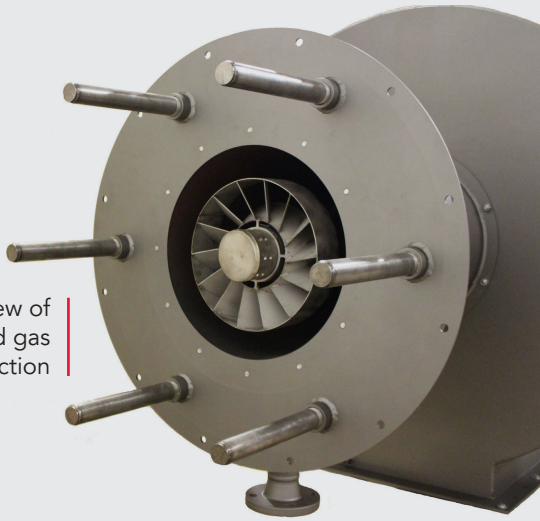
Operator side view of burner and main gas gun connection

L_3E-SGB Modular Burners are gas fired, forced draft low emission burners for use with either a close coupled or remote mounted fan. These units operate at low excess air levels with turn down ratios up to 10:1. Guaranteed NOx emissions as low as 15 ppm, 50 ppm of CO, and trace amounts of VOC and particulate emissions with FGR on Natural Gas Fuel.

Gas is fired through a two stage fixed center mounted gun and multiple spud system. The burner includes fixed register geometry and windbox, center fired gas gun and staged gas spuds, spark ignited gas pilot, two sight ports, flame scanner mount, two pressure tap ports and a refractory throat assembly.



Burner side view



Fire side view of burner and staged gas connection

Faber Burner Company • 1000 E Bald Eagle St. • Lock Haven, PA 17745 • 570-748-4009 • www.faberburner.com

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L_3E-SGB MODULAR LOW EMISSION GAS BURNERS

L_3E-SGB Modular Low Emission Gas Burner Typical Specifications:

Heat Input Range (MMBTU/hr) ..... 13 – 62

Maximum Draft Loss (inwc) 4.1

Main Gas Supply Pressure (PSIG) ..... 10 – 12

Pilot Gas Supply Pressure (PSIG) ..... 0.75 – 2.5

Combustion Turndown ..... Up to 10:1

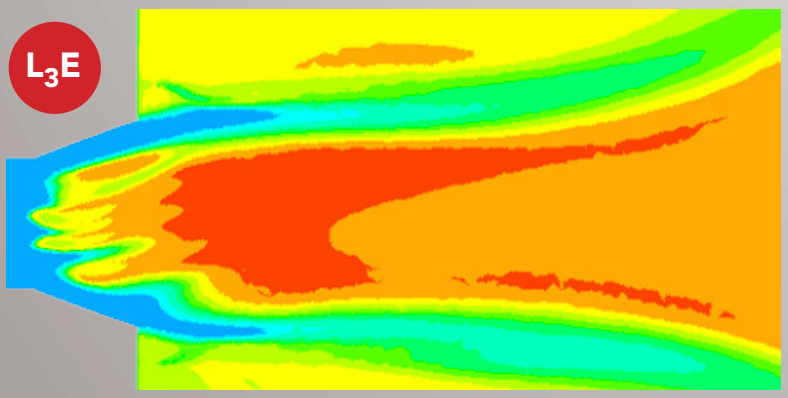
** Guaranteed Emissions:*

NOx (ppm) ..... 30 – 15

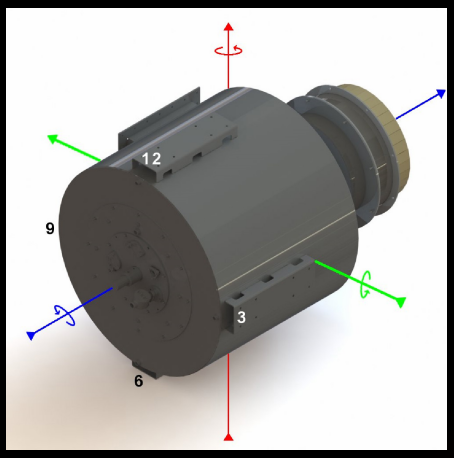
CO (ppm) 50

VOC (lb/MMBTU) 0.015

Particulate (lb/MMBTU) 0.005



(CFD simulation of L_3E Burner at 15 ppm NOx in thermal fluid heater furnace)



Low Emissions, Modular, Flexible, Convenient Installation Options + Quick Delivery = Ultimate Retrofit Burner

The burner can be mounted either vertically up, vertically down or horizontally. Three universal mounting and lifting brackets are located around the burner housing allowing six points to bolt on burner supports and ancillary equipment. The air and gas supply connections can be located in any combination of 45° increments around the axis of the burner to suit site conditions. The entire burner assembly consists of thick steel fabrications designed to provide a long life of trouble free service. Two week deliveries are typical for units supplied with no combustion air fan. Four week deliveries are typical for units supplied with a combustion air fan.

*Results may vary. Contact factory for details

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Represented by

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