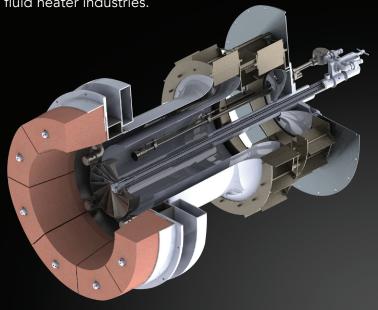


Faber VPSSS-SGB burners are high performance low emission multi-fuel venturi profile registers utilizing two stage fuel gas combustion. They offer the end user exceptional value for applications requiring low NOx, CO, VOC and particulate emissions with or without flue gas recirculation (FGR).

The VPSSS-SGB burner is optimized to burn natural gas or #2 oil, but can be configured to burn nearly any liquid or gaseous fuel. One, two or three fuels can be fired either one at a time or simultaneously. Every burner is tailored to meet your project's specific environmental, thermal, fuel and physical constraints. Burner heat input capacities range from 10 – 300 MMBTU/hr.

The VPSSS-SGB burner's robust, user-friendly, unique design minimizes start-up, commissioning, ownership and operating costs. For these reasons they have become a favorite of the rental boiler and thermal fluid heater industries.



NOx levels listed may not reflect our most recent advancements. Our burner technology is advancing every day. We have an in-house Research & Development Program, where we fire into a full scale boiler and use the most advanced CFD modeling to simulate all aspects of the combustion process.

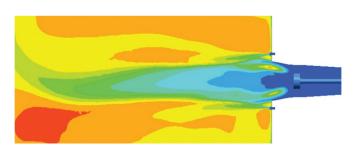
VPSSS-SGB BURNERS



Low NOx operation with out FGR
Ultra Low NOx operation with FGR

VPSSS-SGB Burner Advantages:

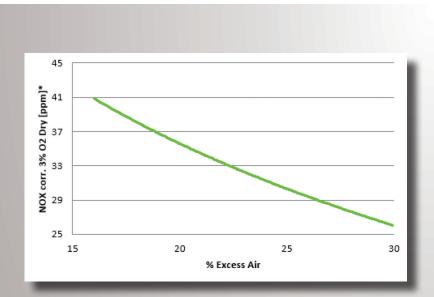
- Guaranteed NOx, CO, VOC and particulate emission rates.
- Rugged, dependable and durable proven design
- Extremely reliable spark ignited gas pilot
- Unique gas spud design results in extremely quiet and stable operation
- Unique manually adjustable register turning vanes allow instant online flame shaping when required for flame to furnace fit and fuel change flame quality optimization. These vanes also minimize startup and commissioning time.
- Easily retrofitted to existing windboxes with CFD designed air baffle package
- Low draft losses reduce fan energy consumption
- 10:1 turndown on gas / 8:1 turndown on oil reduce burner on/off cycling
- Combustion air temperature up to 500 °F
- 4 10 PSIG gas supply pressure and 70 120 PSIG oil supply pressure
- Responsive customer service team for future engineered upgrades, parts and service

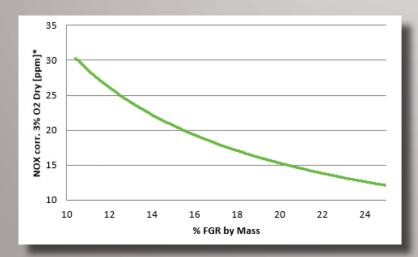


CFD simulation of VPSSS-SGB Burner at 30 ppm NOx with no FGR

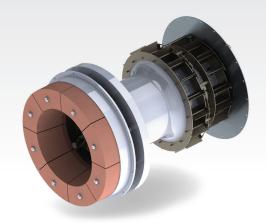


VPSSS-SGB BURNERS





*Results may vary. Contact factory for details



The low NOx, staged fuel solution without FGR

- NOx emissions as low as 25 ppm, 100 ppm CO and trace amounts VOC and particulate emissions without FGR on natural gas fuel.
- NOx levels decrease with increasing % excess air on natural gas fuel.
- Ideal solution for burners located in areas where the ambient temperature can be below 40 °F.

The ultra low NOx, staged fuel solution with FGR

- NOx emissions as low as 12 ppm, with low levels of CO, and trace amounts VOC and particulate emissions with FGR on natural gas fuel.
- Low excess air operation (as low as 3% Oxygen in the flue gas*) reduces fuel costs.
- NOx levels decrease with increasing %FGR.
- Ideal solution for burners located in areas where the ambient temperature is above 40°F and FGR is readily accessible.

Represented by