

SVC

Super VersaTile Combination Burner
High Velocity Square Refractory Tile

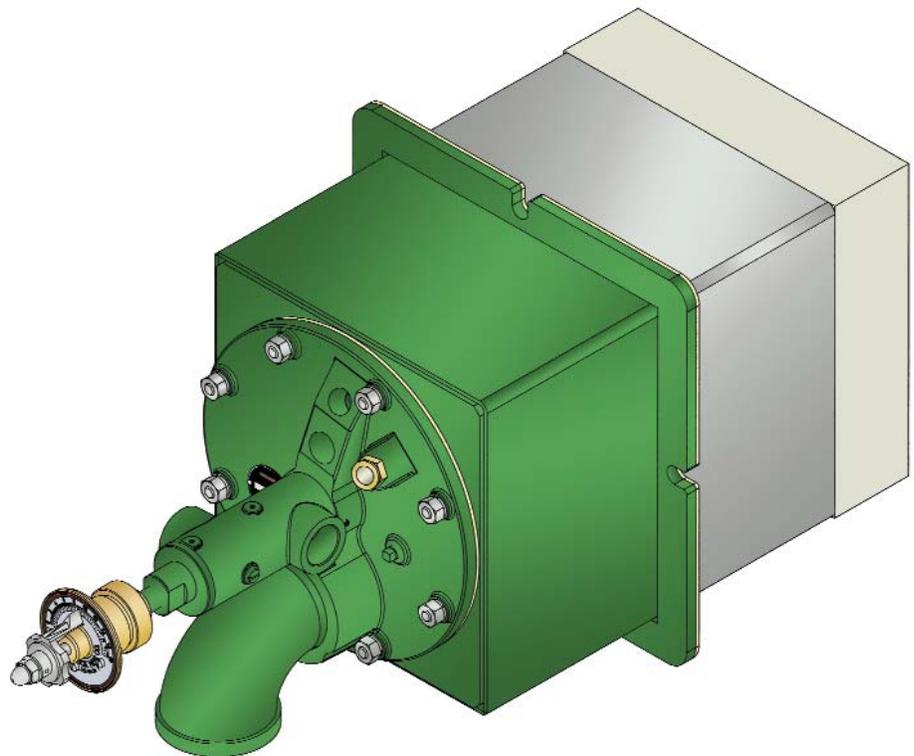


Features

- Alloy encased refractory tile
- Available with flange, lugs or slip-in mounting
- Reliable gas pilot ignition
- Integral air orifice
- Equipped with Hauck self-cleaning micro oil valve
- UV flame supervision option

Benefits

- Combination gas/oil flexibility without loss of performance
- High exit velocity for temperature uniformity
- Easy installation
- Excellent stability firing gas or oil



The SVC Super VersaTile Combination burner is designed for applications that require dual fuel flexibility without sacrificing the advantages of combustion gas recirculation, increased efficiency and improved temperature uniformity resulting from high exhaust gas exit velocity. Designed to fire on light fuel oil through No. 2 or any clean industrial fuel gas, the SVC is available in sizes ranging from 400,000 to more than 2,200,000 Btu/hr (117 to 645 kW).

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Combustion Excellence Since 1888

SVC

SUPER VERSATILE COMBINATION BURNER
HIGH VELOCITY SQUARE REFRACTORY TILE



ADVANTAGES OF THE SVC

Improved Temperature Uniformity Through High Exhaust Gas Velocity

Alloy Encased Self-Supporting Refractory Tile

Excellent Stability Firing Gas or Oil Over Entire Operating Range

The SVC burners offer a rugged design with no reduction in performance or efficiency seen in conventional dual fuel high velocity burners. The alloy encased refractory tile ensures that the burner is self-supporting even in a soft wall application. Mounting options available include a flange, lugs, or slip-in arrangement. Each burner also includes a Hauck self-cleaning micro oil valve that functions as an oil limiting valve.

The SVC will fire any clean industrial fuel gas with a higher heating value of 500 Btu/scf (19.7 MJ/nm³) or greater or light fuel oil through No. 2. The air staging design results in reduced NOx emissions compared to conventional dual fuel high velocity burners.

APPLICATIONS

- **Heat Treating**
- **Tunnel Kilns**
- **Forging**
- **Reheating**

The SVC will operate over a very wide range of air pressures and air/fuel ratios. Firing gas, excess air limits at 16 osig (6900 Pa) range from 1200 to 4000%. Firing No. 2 fuel oil, excess air limits at 16 osig (6900 Pa) range from 240 to 390%.

SVC burners can be operated in low or high temperature furnaces up to 2400°F (1320°C). The burner is designed for ignition using a gas pilot. A UV flame scanner can be accommodated on the burner backplate.

Burner control firing No. 2 oil can be achieved by cross-connected ratio control. Gas firing can be by pulse firing, cross-connected ratio or fuel only control.