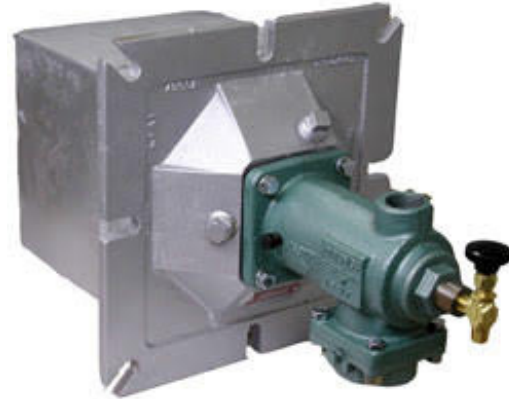


Capacity Range:

**350,000 to 5,600,000 BTU/hr. (oil),
320,000 to 5,150,000 BTU/hr. (gas)**



High Velocity Single Tunnel Dual Fuel Burners

Nozzle-mixing high velocity burner which will burn most gaseous fuels as well as light distillate oils.

How It Works

The Hot Shot Dual Fuel (HSDF) series is a nozzle-mixing high velocity burner which will burn most gaseous fuels as well as light distillate oils. With either fuel being used the products of combustion are high velocity gases which provide fast penetration and improved temperature uniformity to the work in a furnace. As a

result, greater efficiency is obtained and greater fuel savings realized. Being able to switch from one fuel to another without interruption gives the user great versatility in areas where gaseous fuels may be curtailed. The HSDF series will operate on ratio and with excess air or gas for additional versatility.

Applications:

- Periodic Kilns – Shuttle Kilns – Tunnel Kilns
- Large Carbottom Furnaces – Heat Treating – Stress Relieving
- Ladle Heating – Impingement Heating – Reverberatory Furnaces



Diverse Combustion Technologies. One Reliable Source.

Operating Principles

The Selas Hot Shot Dual Fuel Tunnel burner operates on most gaseous fuels as well as light distillate oils, and delivers 320,000 to 5,150,000 BTU/HR at 20 oz. air pressure at the burner (gas) and 350,000 to 5,600,000 BTU/hr. (oil). It is available in five sizes from 1-1/2" to 6" NPT air connections. With a turndown of 10:1 (gas) and 8:1 (oil) the HSDF is suitable for wide process variability. It produces excess air of 300% (without pilot) and excess fuel of 40% (without pilot, gas only). The burner assembly includes pilot, flame monitoring and site (site glass optional). The refractory block includes steel or alloy block casing for installation in fiber-lined furnaces.

Features	Benefits
High-Velocity: 250 ft./sec.	Fast penetration, good temperature uniformity
High velocity output creates high recirculation rate	Greater efficiency and fuel savings
Turndown 10 to 1	Excellent thermal load variability
Flanged air/gas connections	Simplifies installation
Burners can operate with excess air or fuel	Added versatility in process applications



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