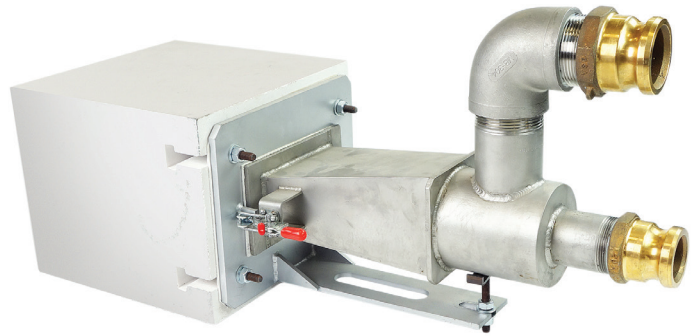


**Capacities:**  
0.5 mm to 20 mm Btu/Hr



## S-GLASS Oxy Flat Flame

*The S-Glass Oxy Flat Flame burner produces a sheet of high luminosity flame to maximize radiant heat transfer to glass furnaces. The modular design allows for a wide variety of oxygen staging to tune flame length to furnace geometry. Available in 5 sizes, the burner can be constructed with or without staging and is available in low nickel construction.*

### How It Works

Selas engineered the Oxy Flat Flame burner for maximum flexibility and optimization of melter operations. The Oxy Flat Flame burner uses natural gas and oxygen flow conditioning to produce an even gas flow throughout the burner tip, creating a well-distributed flame. The Oxy Flat Flame burner utilizes reduced gas velocity and a taller mixture profile to reduce flame

inconsistencies.

Since our burner has lower velocity and a thicker stream of gases, mixing between the inner natural gas core and the surrounding oxygen is delayed, maximizing flame luminosity. The burner can be equipped with or without staging by the addition of a modular staging block.

### Applications

- Tableware furnaces
- Borosilicate operations
- Fiberglass melters
- Larger container furnaces
- Float operations



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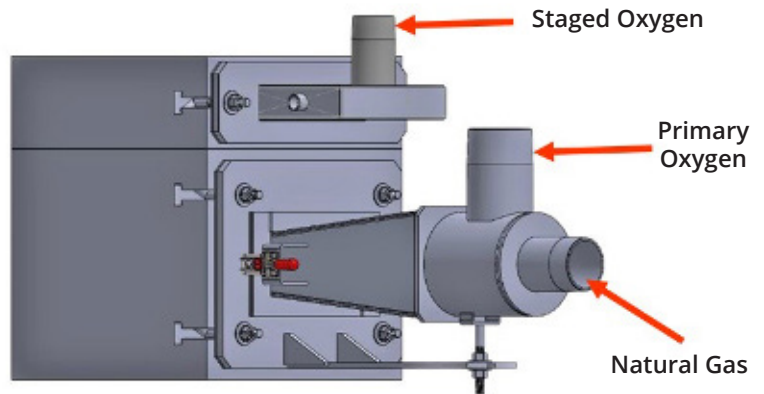
Diverse Combustion Technologies. One Reliable Source.

## Oxy Flat Flame Staged

The Oxy Flat Flame burner series is available in a staged or un-staged options, with the addition of a modular staging assembly. Staging of the Oxy Flat Flame burner stops the crossflow of gas between staging oxygen and the flame. In addition, this separation of the staging from the burner body allows space between the flame, which permits the burner to enhance the delay in mixing, producing improved staging effects.

The Selas Oxy Flat Flame burner contains a more robust construction between the staging and main blocks, eliminating common block cracking common in other designs. This increases burner block life and reduces maintenance.

Model	Capacity mm BTU (kW)	
	Min.	Max.
02500	0.5 (146.5)	2.5 (732.7)
05000	1.0 (293.1)	5.0 (1465.4)
10000	2.0 (586.1)	10.0 (2930.7)
15000	3.0 (879.2)	15.0 (4396.1)
20000	5.0 (1465.4)	20.0 (5861.4)



### Benefits Of Oxy Flat Flame (Not Staged)

High 5 to 1 turndown

Unique oxygen and gas flow conditioning promotes an even well distributed flame.

Improved nozzle design promotes increased radiative heat transfer.

Available in a low nickel option for float furnaces.

### Benefits Of Staged Oxy Flat Flame

High 5 to 1 turndown

Unique oxygen and gas flow conditioning promotes an even well distributed flame.

Staged injector and block are separate from the primary burner promoting long block life and easy maintenance.

Available in a low nickel option for float furnaces.



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