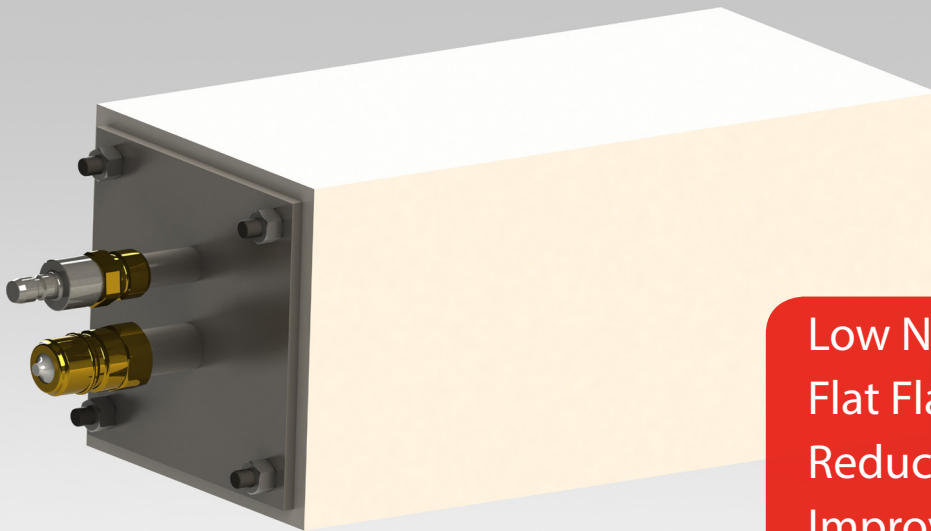


# Split Stream - Forehearth Burner



Low NO<sub>x</sub>  
Flat Flame shape  
Reduced fuel consumption  
Improved homogeneity  
Easy set-up and operation  
NO premix of gas and oxygen

The SPLIT STREAM Burner is a patented Oxygen Forehearth Burner utilizing two colliding streams to provide a flat flame shape. The objective of the Forehearth burner is not to heat the glass but to maintain its temperature on the sides of the Forehearth. If the glass is allowed to cool on the edges, an uneven flow profile will result which can lead to glass quality problems. Additionally cold glass reheated can generate a bubble which also affects glass quality. The SPLIT STREAM Burner can project its heat across the Forehearth to the far wall edge and have a moderate effect on the middle of the glass stream.

Since the Oxygen and Fuel is mixing only after the block, this type of burner full fills highest safety standards and can be regulated

easily by manual valves or in a group. Anyway, as this burner does not premix fuel and oxygen, it is possible to switch off individual Burners. The Burner Block can be designed for a direct retrofit for existing air-fuel Forehearth burners.

Hotwork and UAS specialised in supply of auxiliary equipment, including full gas control stations, furnace control system (DCS), full automation, exhaust gas analysis and Oxygen probes as well as tuning, supervision and commissioning services worldwide.

This view is from the side and shows the flat flame shape. It's a 25,000 BTUs (7.3kW) with a flame 150mm long and 75mm wide.





This set up shows the opposed firing, it will create a hot spot in the centre. The outer edge stay cooler in comparison to the centre.



This set up shows the staged firing, it will project the heat across the forehead to the wall edges. The centre is considerably cooler.

Type	Capacity		Fuel flow rate	Fuel flow rate
	kW	BTU/hr	Nm <sup>3</sup> /h	SCFH
<b>SPLIT STREAM 5</b>	5	17,000	0.1 - 0.5	3.5 - 17
<b>SPLIT STREAM 7</b>	7	25,000	0.2 - 0.7	7 - 25
<b>SPLIT STREAM 10</b>	10	35,000	0.25 - 1.0	9 - 35
<b>SPLIT STREAM 15</b>	16	54,000	0.3 - 1.5	12 - 50

Features:

- Option to switch off Burners at NO risk of back firing
- Improved temperature homogeneity of the glass
- Low maintenance
- Easy to set up and handle, as there is no pre-mixing of Oxygen and fuel
- No blowers required for the combustion

*Swiss Quality and German Reliability .... complete engineering and supply*



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