

PRIMEFIRE FH BURNERS



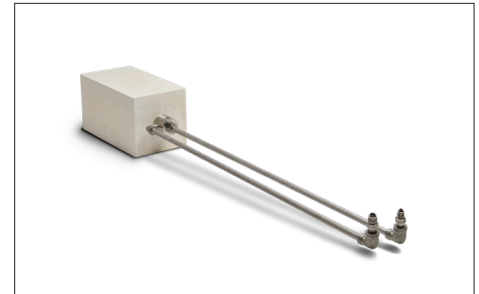
Next generation glass forehearth technology with a patent-pending burner/block design that provides a maintenance free, long lasting product for container, e-glass, and wool glass making applications.

SIGNIFICANT REDUCTIONS IN EMISSIONS AND FUEL CONSUMPTION.

The Honeywell Next Gen Primefire FH burner is a patent-pending oxygen-fuel burner for fiberglass forehearth applications. The oxygen nozzles are manufactured with AISI 304 or better stainless steel for improved temperature resistance. The burner and block have been re-designed for optimal performance, a cooler operating temperature, minimal maintenance, and extended burner life. The burner fires natural gas or a Hydrogen-Natural Gas blend (up to 20% H₂/80% NG), and can be sized for a variety of capacity requirements. The nozzle-mix burner design utilizes separate oxygen and fuel inlets. The burner and burner block can be designed as a direct retrofit to existing air-fuel equipment.

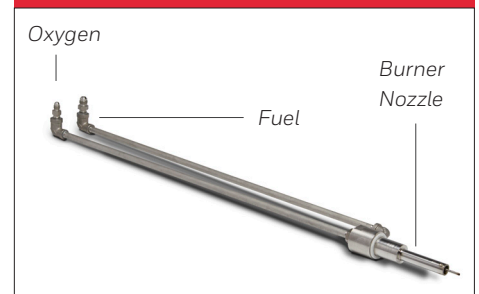
BENEFITS OF OXYGEN-FUEL IN GLASS FOREHEARTHS (VS. AIR-FUEL)

- 80% reduction in NO_x emissions.
- 60% reduction in fuel consumption.
- Improved temperature homogeneity throughout the glass.
- Fewer total burners required.
- Reduced maintenance.
- Reduced safety issues.
- Ease of set-up and operation.
- No blowers required for the combustion process.



BENEFITS OF THE NEXT GENERATION PRIMEFIRE FH

- 50% longer burner/block life
- Maintenance free
- Ideal flame length for given capacity
- No glass residue/buildup on nozzles
- Patent pending burner/block combination for ideal performance
- Can fire up to a 20% Hydrogen and 80% Natural Gas fuel blend



TYPICAL BURNER SPECIFICATION (NATURAL GAS)				
Burner Model	Fuel Flow Rates		Max. Capacity*	
	Nm3/hr	SCFH	Btu/hr	kW
Primefire FH017	0.13-0.45	5-17	17000	5.0
Primefire FH035	0.24-0.99	9-35	35000	10.3
Primefire FH050	0.37-1.42	13-50	50000	14.6

TYPICAL BURNER SPECIFICATION (20% HYDROGEN / 80% NATURAL GAS BLEND)				
Burner Model	Fuel Flow Rates		Max. Capacity*	
	Nm3/hr	SCFH	Btu/hr	kW
Primefire FH017	0.15-0.51	5.8-19.7	17000	5.0
Primefire FH035	0.27-1.06	10.4-40.5	35000	10.3
Primefire FH1350	0.39-1.50	15-57.9	50000	14.6

* Based on Natural Gas 1000 Btu/Cubic Foot (gross calorific value). Gases with higher calorific values may require special nozzle sizing. Contact Eclipse for more information.



For more information

The Honeywell Thermal Solutions family of products includes Honeywell CombustionControls, Honeywell Combustion Safety, Honeywell Combustion Service, Eclipse, Exothermics, Hauck, Kromschroder and Maxon. To learn more about our products, visit ThermalSolutions.Honeywell.com or contact your Honeywell Sales Engineer.

Honeywell Process Solutions

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We reserve the right to make technical modifications in the interests of progress.

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