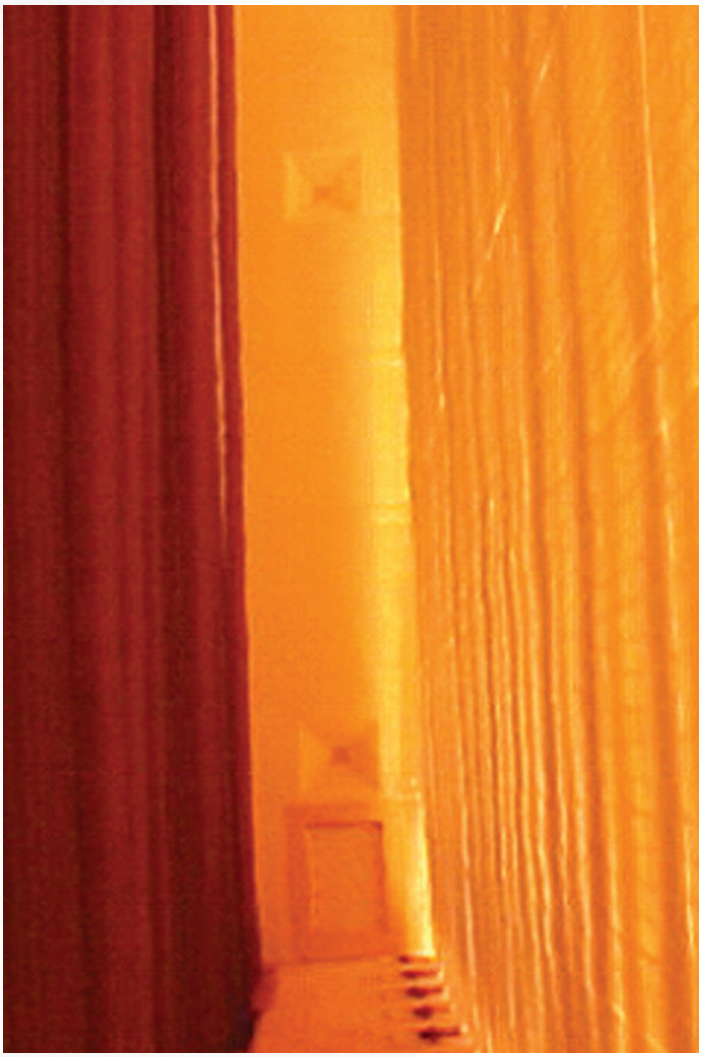
ENHANCED JET FLAT FLAME BURNER

GLSF Series



GLSF Enhanced Jet Burner, Vertically Mounted

GLSF Enhanced Jet Burner, Horizontally Mounted

Description

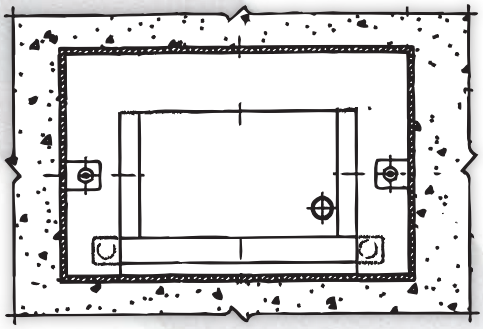
The ZEECO® GLSF Enhanced Jet burner is an ultra-low emissions flat flame burner.

Technology

The above pictures display GLSF flat flame burners in operation in an ethylene cracking furnace. The design allows for flat flame burners to achieve a superior heat flux profile without flame rollover. A major advantage is that the heat flux profile can be changed as required for the specific application with different tip drilling configurations without adversely affecting NOx emissions. This design operates in more than 100 ethylene cracking facilities. Since the heat flux profile can be adjusted for different requirements, the design is also a perfect match for coker, cabin heater, steam super-heater, hydro-cracker and reformer applications.

Design Features

- No flame rollover makes this design superior to competing technologies for ethylene cracking applications
- Great heat flux profile that can be modified for the particular type of application
- Stable flame over a wide range of conditions
- High turndown of 8:1 or greater for most cases
- No stabilization metal used in the burner throat
- Low maintenance cost since gas tip mass is small and exposed into firebox less than 1" (25mm)
- Compact design makes this burner a great choice for retrofit applications
- Reasonable cost and great value
- Combustion air is controlled by gear driven dampers fro precise control
- Bearings are used for the combustion air dampers for smooth, precise operation
- Configurations available: plenum mounted or individual windbox
- Mounting configurations: Horizontal and Vertical
- 310 Stainless Steel (Type HK) gas tips



GLSF Enhanced Jet Flat Flame Burner

Design Information

Burner Model	GLSF Enhanced Jet Burner
Fuels	Gas Only
Description	Flat Flame Ultra-Low Emissions
NOx Reduction Method	Internal Flue Gas Recirculation by FREE-JET Mixing
Predicted NOx Emissions Range (Natural Draft)	30 to 45 ppmv
Predicted NOx Emissions Range (600˚ F Air Preheat)	50 to 80 ppmv
Combustion Air Induction	Natural, Forced, Induced, & Balanced Draft
Mounting Options	Up-fired and Side-fired
Natural Draft Heat Release Range	1 to 14 MMBtu/hr [0.293 to 4.102 MW]
Forced Draft Heat Release Range	1 to 14 MMBtu/hr [0.293 to 4.102 MW]
Turndown	8:1
Typical Excess Air Range	10 to 25%

The Zeeco Difference

By concentrating on what we do best, Zeeco has grown into a worldwide leader in combustion and environmental solutions. We are a privately held company whose ownership stays highly involved in daily operations, with upper management comprised of the world's leading combustion experts.

When you call Zeeco, we answer. When you make a request, you get a quick, efficient response. We are lean and efficient, able to make decisions quickly, without bureaucracy and red tape. Our sales, engineering, and purchasing groups work hand-in-hand to deliver highly competitive quotes and heroic turnaround times. We stand ready and willing to travel anywhere in the world to discuss upcoming projects firsthand, and to ensure that every existing project runs seamlessly.

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