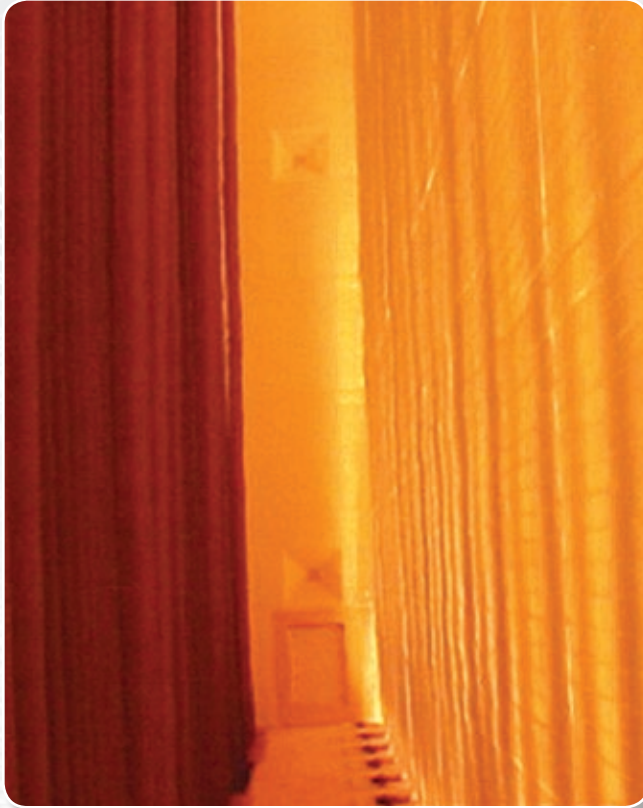




ENHANCED JET FLAT FLAME BURNER

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 NO_x 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.



BURNERS



FLARES



INCINERATORS

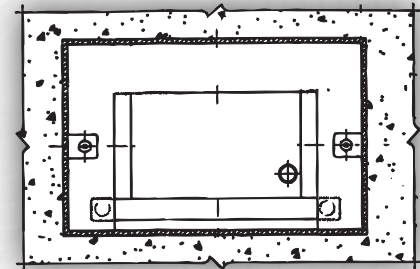


PARTS & SERVICE

Enhanced Jet Flat Flame Burner

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" (25 mm)
- Compact design makes this burner a great choice for retrofit applications
- Reasonable cost and great value
- Combustion air is controlled by gear driven dampers for 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
NO _x Reduction Method:	Internal Flue Gas Recirculation by Free Jet Mixing
Predicted NO _x Emissions Range (Natural Draft):	30 to 45 ppmv
Predicted NO _x 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%

ZEECO® combustion and environmental solutions are designed and manufactured to comply with applicable local and international standards as defined by our customers.



REGISTERED
ISO 9001:2008

CERTIFICATION APPLIES TO ZEECO HEADQUARTERS ONLY.

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