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

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 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%

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

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