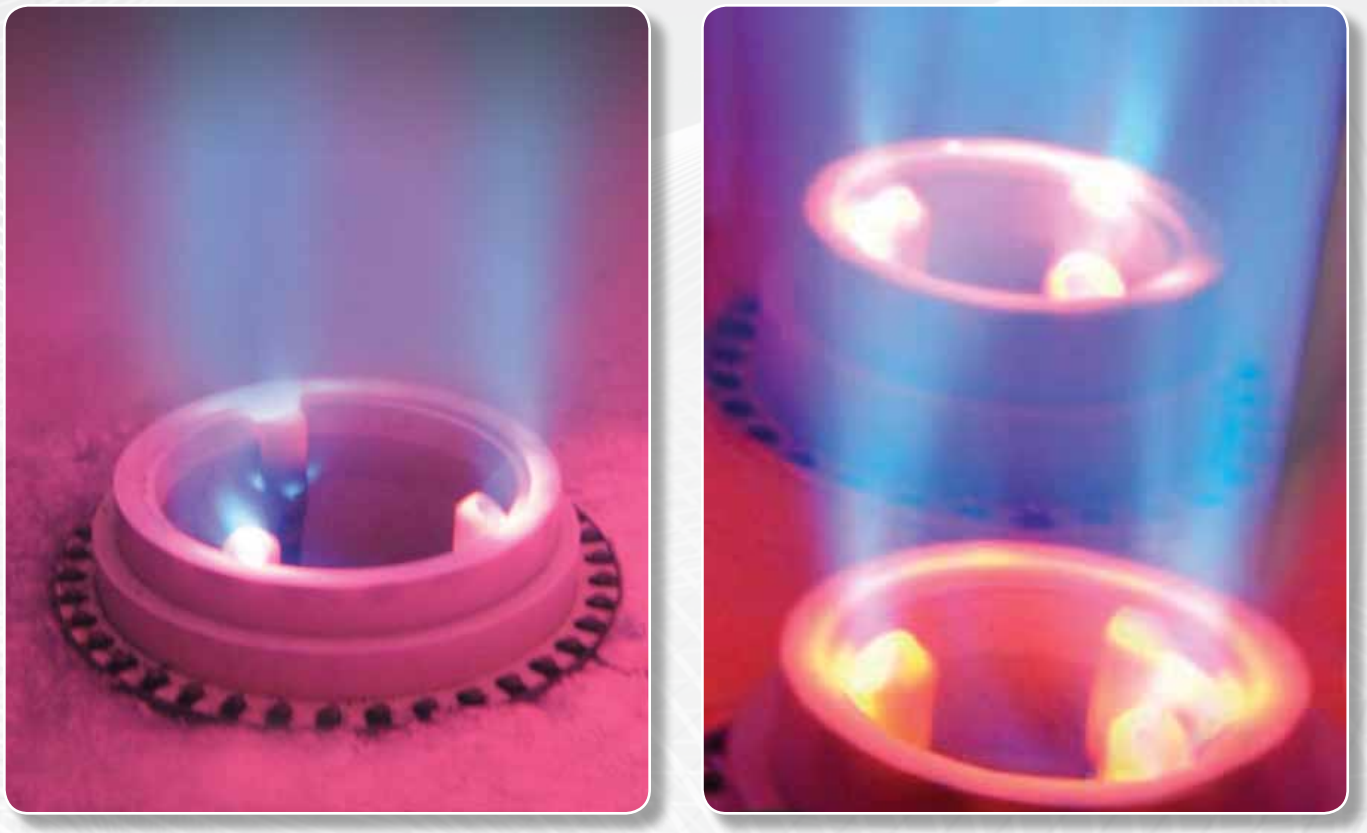
FREE-JET NEXT GENERATION ULTRA LOW NOx BURNER

COMBUSTION AND ENVIRONMENTAL SOLUTIONS.
PURE AND SIMPLE.®

GLSF Series



GLSF Free-Jet Gas Burners

DESCRIPTION

The ZEECO® GLSF Free-Jet burner is a next generation ultra-low emissions round flame burner.

TECHNOLOGY

The above pictures show GLSF Free-Jet round flame burners in operation. The design uses the free-jet method of mixing the fuel gas ejected from the gas tips with the surrounding inert products of combustion which dramatically lowers thermal NOx production. In addition to superior NOx reduction performance, the design offers a great turndown, typically 10:1 or more and each tip only has one large firing port.


BURNERS


FLARES


INCIDENTERS


PARTS & SERVICE

COMBUSTION AND ENVIRONMENTAL SOLUTIONS.
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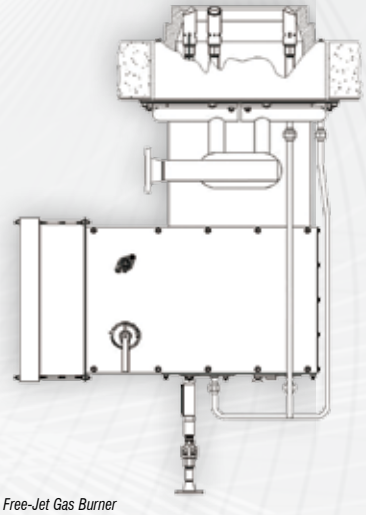
Free-Jet Next Gen Ultra Low NOx Burner

DESIGN FEATURES

- Stable flame over a wide range of conditions
- High turndown of 10:1 or greater for most cases
- No stabilization metal used in the burner throat
- Tips have only a single firing port and do not require a small ignition port
- Low maintenance cost since tip mass is small and exposed into firebox less than 1" (25 mm)
- Low maintenance cost since the tips do not have small ignition ports which are prone to plug
- Compact design makes this burner a great choice for retrofit applications
- Low probability of flame interaction since the burners are smaller and gas is not swirled
- Superior heat flux profile
- 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 wind-box
- 304 Stainless Steel fuel gas risers
- 310 Stainless Steel (Type HK) gas tips



Typical Free-Jet Gas Burner

DESIGN INFORMATION

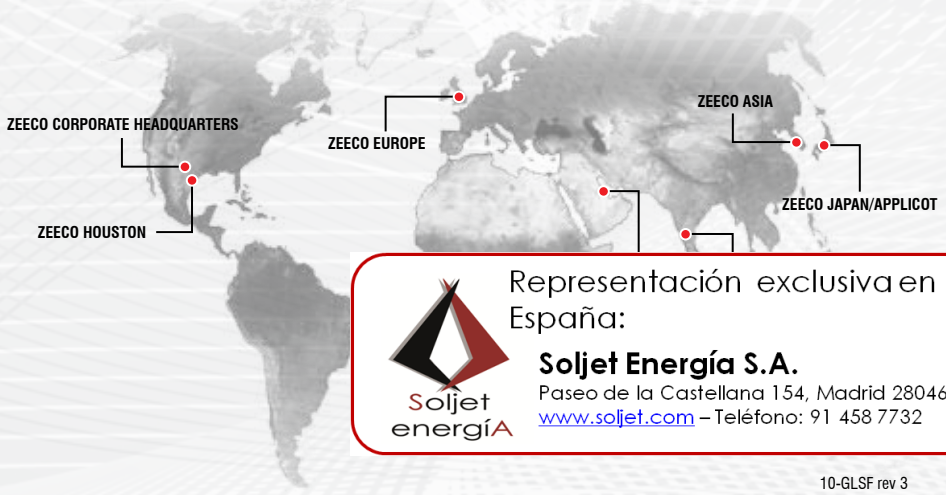
Burner Model:	GLSF Free-Jet Burner
Fuels:	Gas Only
Description:	Round Flame Next Generation Ultra-Low Emissions
NOx Reduction Method:	Internal Flue Gas Recirculation by Free-Jet Mixing
Predicted NOx Emissions Range (Natural Draft):	6 ppmv to 20 ppmv
Predicted NOx Emissions Range (600° F Air Preheat):	10 ppmv to 25 ppmv
Combustion Air Induction:	Natural, Forced, Induced & Balanced Draft
Mounting Options:	Up-fired and Side-fired
Natural Draft Heat Release Range:	1 MM to 20 MM Btu/hr [0.293 to 5.86 MW]
Forced Draft Heat Release Range:	1 MM to 50 MM Btu/hr [0.293 to 14.65 MW]
Turndown:	10:1
Typical Excess Air Range:	10% to 25%

CERTIFICATIONS APPLY TO ZEECO HEADQUARTERS ONLY.

CERTIFIED NBBI | CERTIFIED ASME | CERTIFIED ASME | REGISTERED ISO 9001: 2008

Zeeco Corporate Headquarters
22151 East 91st Street
Broken Arrow, Oklahoma 74014 USA
Phone: +1.918.258.8551
Fax: +1.918.251.5519
E-mail: sales@zeeco.com

zeeco.com



Representación exclusiva en España:

Soljet Energía S.A.
Paseo de la Castellana 154, Madrid 28046
www.soljet.com – Teléfono: 91 458 7732