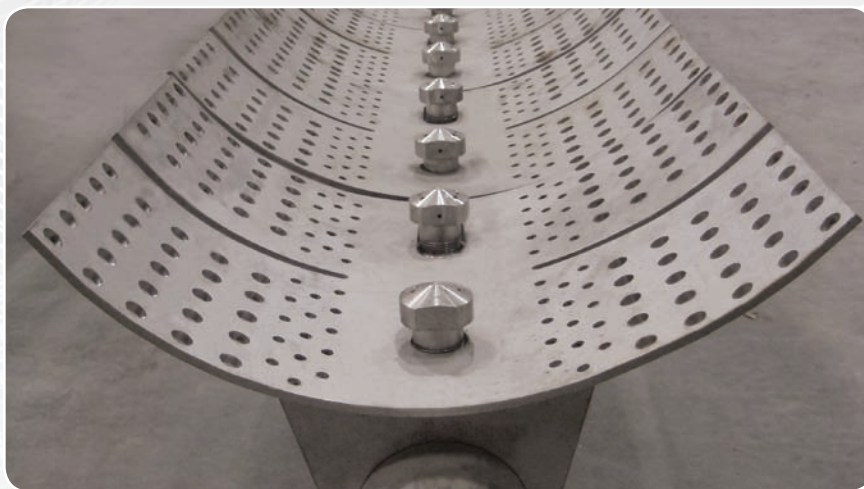




DBI DUCT BURNER

COMBUSTION AND ENVIRONMENTAL SOLUTIONS.
PURE AND SIMPLE.SM

DB Series



ZEECO is a solutions-oriented company that combines proven, innovative technology with our extensive experience in the design, fabrication, and operation of combustion equipment. Reliability is essential for profitable plant operations, so at Zeeco, we use only the highest quality components in order to maximize service life and eliminate unnecessary downtime.



3D DBI Burner

DESCRIPTION

The Zeeco DB Series Duct Burners for HRSG applications.

TECHNOLOGY

Zeeco uses a zone analysis type approach to determine the duct burner inlet conditions in different sections of grid layout. By adjusting the amount of open area in the duct burner wing section in particular zones, the emissions, flame pattern, and heat distribution profile can be better predicted and controlled.



BURNERS



FLARES



INCINERATORS



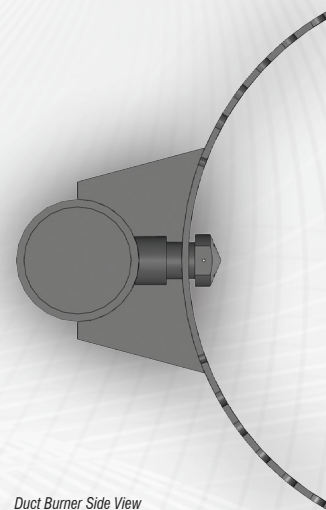
PARTS & SERVICE

COMBUSTION AND ENVIRONMENTAL SOLUTIONS.
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DESIGN FEATURES

- Low emissions duct burner design
- Staging of oxygen content within the wing of the burner for lower NO_x and CO emissions.
- Combustion air induction: fresh air & turbine exhaust
- Custom designed for each application with zone analysis
- Stable flame over a wide range of conditions
- High turndown of 10:1 or greater for most cases
- Compact flame shape
- Great heat distribution profile
- BMS (Burner Management Systems) are also available



Duct Burner Side View

DESIGN INFORMATION

Burner Type: Duct Burner Insert
Burner Model: DBI
Fuels: Gas Only
NO_x Range (TEG) {natural gas fuel}: 0.05 to 0.08 #/MM Btu
Heat Release Range / Linear Foot of Fired Length: 2 to 5 MM Btu/hr
Flame Length @ 2 MM Btu/linear ft 4 ft to 6 ft long
Flame Length @ 3 MM Btu/linear ft 6 ft to 9 ft long
Flame Length @ 4 MM Btu/linear ft 8 ft to 12 ft long
Turndown: 10:1 or greater for most cases
Inlet Velocity Range: 45 ft/sec to 130 ft/sec
Preference: 75 ft/sec

CERTIFICATIONS APPLY TO ZEECO HEADQUARTERS ONLY.



CERTIFIED
NBBI



CERTIFIED
ASME



CERTIFIED
ASME



REGISTERED
ISO 9001: 2008

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