

SELF RECUPERATIVE AND RADIANT TUBE BURNERS

E-Jector

Flange mounted FGR device used with the TFB and BU recuperator to improve emissions levels by up to 50%.

Overview



The Eclipse E-Jector is a flange mounted emission reduction device for use in radiant tubes. It accomodates diameters of 4 up to 6 with maximum capacities of up to 500,000 BTU/hr (132 kW). E-Jector provides significant reductions in NOx emissions. In field trials, NOx reductions were achieved of more than 50% over existing emission levels. The E-Jector is designed to be used with Eclipse Bayonet style Recuperators allowing for high fuel efficiencies while keeping NOx under control. Every burner system that includes an E-Jector is custom engineered by Eclipse to maximize performance and assure compatibility with the radiant tube.

Specifications

OVERVIEW

Models

- FGR

AIR/EXHAUST/FLUE GAS TEMPERATURES

Maximum Flue Gas Temperature

- 1400 deg F (760 deg C) at Inlet

MECHANICAL DESIGN & HARDWARE DETAILS

Vertical Exhaust Flue Spool

- Minimum 6 in (152 mm) straight spool

COMPONENT/GEOMETRY COMPATIBILITY

Compatible Radiant Tube ID

- 4 to 6 in (102 to 152 mm)

PROCESSING & PERFORMANCE METRICS

Emissions Sampling Tap

- 3/8 in (9.5 mm) tapped connection

Maximum Capacity

- 500,000 Btu/h (132 kW)



COMBUSTION AIR, BLOWER & EMISSIONS SPECIFICATIONS

Typical NOx Reduction

- 40 to 50%

IGNITION, FLAME & SUPERVISION SPECIFICATIONS

Start-up Requirement

- Start system below 350,000 Btu/h until chamber exceeds 500 deg F (260 deg C)

Spark Requirement

- Continuous spark required below 1400 deg F (760 deg C)

CONNECTIONS & INTERFACES

Air Inlet Connection

- 2 in NPT

AIR & COMBUSTION AIR SPECIFICATIONS

Air Outlet Sizes

- 2 in NPSM

INSTALLATION & MOUNTING SPECIFICATIONS

Mounting Types

- Flanged to Radiant Tube Exhaust or Recuperator

DIMENSIONS & SIZE SPECIFICATIONS

Nozzle Sizes

- 21 mm (≤ 350 kBtu/h), 24 mm (≤ 500 kBtu/h)

APPLICATIONS & COMPATIBILITY

Applications

- Flue-Gas Recirculation Device for Eclipse Tube Firing Burner

Filters

▼ CATEGORY

☒ Base Part

▼ TYPE

☒ FGR Device

Part Number	10006510
Description	EDCTR, FGR, ASY, 24 MM NZL
Category	Base Part
Type	FGR Device
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Part Number	10027321
Description	NZL, EDCTR, FGR, ASY, 21 MM BORE
Category	Base Part
Type	FGR Device
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Part Number	10027324
Description	EDCTR, FGR, ASY, 21 MM NZL
Category	Base Part
Type	FGR Device
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Product Number



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