



STAGED AIR LOW EMISSIONS COMBINATION BURNER

COMBUSTION AND ENVIRONMENTAL SOLUTIONS.
PURE AND SIMPLE.®

AK Series



*AK Staged Air Low Emissions Combination Burner
Operating on Gas Only*



*AK Staged Air Low Emissions Combination Burner
Operating on Oil Only*

DESCRIPTION

The ZEECO® AK Staged Air Low Emissions Burner is a round flame combination oil and gas burner. The design allows for gas firing, oil firing, or combination oil and gas firing with low NO_x emissions. The burner provides proven low NO_x technology while providing a quality flame pattern.

WHY CHOOSE ZEECO?

Zeeco leads today's global market in the design of combustion equipment. Our engineers have the experience, knowledge, and tools to properly design your burner equipment. ZEECO burners have been operating around the globe for over 30 years. Our philosophy of providing customers with superior quality, on-time shipments, and competitive pricing is the cornerstone of our success. Let us put our experience to work for you. Call or email us today to learn more about the full line of ZEECO burner products and replacement components for your new or existing burner system.



BURNERS



FLARES



INCINERATORS



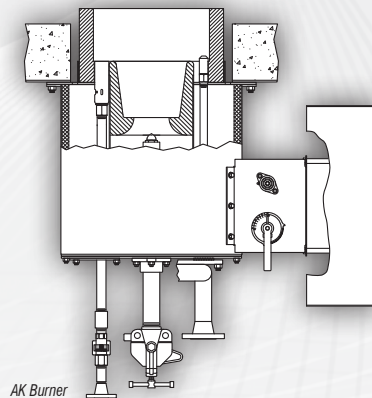
PARTS & SERVICE

COMBUSTION AND ENVIRONMENTAL SOLUTIONS.
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Staged Air Low Emissions Burner

DESIGN FEATURES

- Stable flame over a wide range of conditions
- High turndown of 5:1 or greater for most cases
- No stabilization metal used in the burner throat
- Low maintenance cost since tip mass is small and exposed into firebox less than 1" (25 mm)
- Reasonable cost and great value
- Combustion air dampers are controlled by gears for precise control
- Bearings are used for the combustion air damper shafts for smooth, precise operation
- Plenum mounted or individual wind-box configurations
- Horizontal and vertical mounting configurations
- 310 Stainless Steel (Type HK) gas tips



DESIGN INFORMATION

Burner Model:	AK Combination Oil & Gas Staged Air Burner
Fuels:	Combination Oil & Gas
Description:	Round Flame Low Emissions Combination
NO _x Reduction Method:	Staged Air
Predicted NO _x Emissions Range (Natural Draft) with Gas Fired:	50 ppmv to 95 ppmv
Predicted NO _x Emissions Range (600°F/316°C Air Preheat) with Gas Fired:	80 ppmv to 160 ppmv
Predicted NO _x Emissions Range (Natural Draft) with No. 2 Oil Fired:	80 ppmv to 120 ppmv
Predicted NO _x Emissions Range (600°F/316°C Air Preheat) with No. 2 Oil Fired:	120 ppmv to 180 ppmv
Predicted NO _x Emissions Range (Natural Draft) with No. 6 Oil Fired:	160 ppmv to 220 ppmv
Predicted NO _x Emissions Range (600°F/316°C Air Preheat) with No. 6 Oil Fired:	215 ppmv to 280 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 5.860 MW]
Forced Draft Heat Release Range:	1 MM to 50 MM Btu/hr [0.293 to 14.65 MW]
Turndown:	5:1 Gas & 3:1 Oil
Typical Excess Air Range:	10% to 25%

CERTIFICATIONS APPLY TO ZEECO HEADQUARTERS ONLY.



CERTIFIED
NBBI



CERTIFIED
ASME



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ASME



REGISTERED
ISO 9001: 2008

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