

STAGED AIR LOW-EMISSIONS COMBINATION BURNER

AK Series



BURNERS | FLARES | THERMAL OXIDIZERS | VAPOR CONTROL | RENTALS | AFTERMARKET



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



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

Low-NO_x High Performance

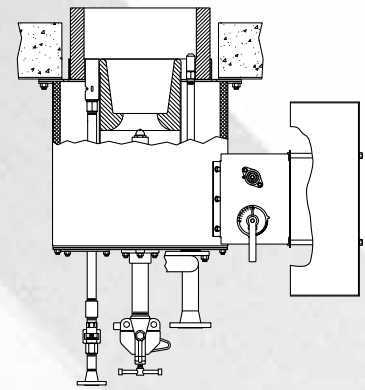
Zeeco's AK staged-air, low-emissions burner features a round flame and is designed to fire on oil, gas, or a combination of oil and gas. This versatility, along with a stable flame over a wide range of conditions and high turndown of 5:1 or greater, makes Zeeco's AK series one of the best-selling process burners in the industry.

Why Choose Zeeco?

Zeeco leads today's global market in the design of combustion and environmental systems. Our engineers offer the experience, knowledge and tools to properly size and design any burner, flare, or incinerator, anywhere. For more than 40 years, Zeeco has designed, manufactured, and delivered production systems across the globe. 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® products and services.

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 dampers for smooth, precise operation
- Plenum mounted or individual wind-box configuration
- Horizontal and vertical mounting configurations
- 310 stainless steel (type HK) gas tips



AK Burner

Design Information

Burner Model	AK Combination Oil & Gas Staged Air Burner
Fuels	Combination Oil & Gas
Description	Round Flame Low Emissions Combination
NOx Reduction Method	Staged Air
Predicted NOx Emissions Range (Natural Draft) with Gas Fired	50 to 95 ppmv
Predicted NOx Emissions Range (600°F / 316°C Air Preheat) with Gas Fired	80 to 160 ppmv
Predicted NOx Emissions Range (Natural Draft) with No. 2 Oil Fired	80 to 120 ppmv
Predicted NOx Emissions Range (600°F / 316°C Air Preheat) with No. 2 Oil Fired	120 to 180 ppmv
Predicted NOx Emissions Range (Natural Draft) with No. 6 Oil Fired	160 to 220 ppmv
Predicted NOx Emissions Range (600°F / 316°C Air Preheat) with No. 6 Oil Fired	215 to 280 ppmv
Combustion Air Induction	Natural, Forced, Induced, & Balanced Draft
Mounting Options	Up-fired and Side-fired
Natural Draft Heat Release Range	1 to 20 MMBtu/hr [0.293 to 5.860 MW]
Forced Draft Heat Release Range	1 to 50 MMBtu/hr [0.293 to 14.650 MW]
Turndown	5:1 Gas & 3:1 Oil
Typical Excess Air Range	10 to 25%

The Zeeco Difference



Our only business is the combustion business. By concentrating on what we do best, Zeeco has grown into a worldwide leader in combustion solutions. We are a privately held company whose ownership stays highly involved in daily operations, with upper management comprised of the world's leading combustion experts.

When you call Zeeco, we answer. When you make a request, you get a quick, efficient response. We are lean and efficient, able to make decisions quickly, without bureaucracy and red tape. Our sales, engineering, and purchasing groups work hand-in-hand to deliver highly competitive quotes and heroic turnaround times. We stand ready and willing to travel anywhere in the world to discuss upcoming projects firsthand, and to ensure that every existing project runs seamlessly.

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Certifications apply to Zeeco Headquarters.



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Choose to work with our dedicated, flexible, and innovative team, and you won't be disappointed. Call or email us today to request a quote or to learn more about our proprietary combustion systems.