

TriOx

Triple Air Staged Ultra Low NOx Burner



Features

- Ultra low NOx emissions of 20 ppm or less
- Invisiflame™ mode offers visible flame throughout entire operating range
- Designed for low excess air operation (5%)
- Cold or preheated air up to 900°F (480°C)
- Higher preheat versions available up to 1700°F (925°C); Consult Hauck
- Direct spark or pilot ignition
- 10:1 on ratio turndown

Benefits

- Low excess air operation for maximum fuel efficiency
- Excellent flame safety with constant visible flame
- Low CO emissions including on cold start
- Ultra low NOx even with high temperature preheated air



Hauck's TriOx burner is ideally suited for aluminum furnaces, steel reheat furnaces, thermal fluid heaters, and other high temperature heat processes requiring ultra low NOx emissions. The burner's three-staged air injection maximizes production efficiency while minimizing NOx and CO emissions. Low excess air operation (5%) results in outstanding fuel efficiency. The TriOx fires any clean industrial fuel gas with a higher heating value of 500 Btu per cubic foot (19.7 MJ/nm³) or greater with ambient or preheated combustion air.

HAUCK MANUFACTURING COMPANY

P.O. Box 90
Lebanon, PA 17042
Phone: 717-272-3051
Fax: 717-273-9882
www.hauckburner.com

Combustion Excellence Since 1888

TriOx

TRIPLE AIR STAGED ULTRA LOW NOx BURNER



ADVANTAGES OF THE TriOx

The TriOx burner is ideally suited for industrial heat processes in excess of 1600°F (870°C) requiring ultra low NOx emissions of 20 ppm or less. With its low excess air operation (5%), the TriOx offers maximum efficiency throughout its entire operating range. The burner's 8" w.c. (1990 Pa) air pressure design makes it well-suited for preheated air applications. Consult Hauck for special versions capable of firing preheated air greater than 900°F (480°C).

Capacities range from 3 to more than 21 MM Btu/hr (880 to 6155 kW). Nominal burner air supply pressure is 8" w.c. (1990 Pa). Nominal gas supply pressure required is 12" w.c. (2990 Pa) or less. Consult Hauck for mounting options and field installation recommendations.

Low Excess Air Operation for Maximum Fuel Efficiency

Excellent Flame Safety with Visible Flame Throughout Entire Operating Range

Low NOx and CO Emissions

In addition to its operating efficiency, the TriOx offers excellent flame safety. When operating in the *Invisiflame™* mode, the burner still produces a visible, scannable pilot flame. UV flame supervision is available on all burners.

The TriOx features a single air connection and a single low pressure gas connection.

The burner design and performance characteristics were optimized using FLUENT® computational fluid dynamics (CFD) software.

