NanoNO$_x$



PREFERRED
UTILITIES MFG CORPORATION
"People. Products. Results."

FUEL TURN DOWN

CAPABLE OF 20:1 TURN DOWN ON NG & 8:1 ON FUEL OIL. DEPENDING ON THE FUEL AVAILABLE PRESSURE.

MULTI-FUEL CAPABILITY

DESIGNED FOR FLEXIBILITY, THESE BURNERS CAN OPERATE ON MULTIPLE FUEL TYPES, INCLUDING NATURAL GAS, OIL, AND RENEWABLE BIOFUELS, MAKING THEM ADAPTABLE TO A WIDE RANGE OF APPLICATIONS.

ENGINEERED & FABRICATED TO

STRENGTHEN AMERICAN INDUSTRY AND QUALITY WHILE AVOIDING THE RISKS AND RISING COSTS LINKED WITH INTERNATIONAL MANUFACTURING.

ULTRA-LOW NOX EMISSIONS

CAPABLE OF ACHIEVING SUB-9 PPM NOX EMISSIONS WITH FGR, OPERATING AT 25% TO 100% MCR AT 3% O_2.

COMPACT DESIGN

ALLOWS FOR EASY INSTALLATION AND INTEGRATION WITH EXISTING SYSTEMS, MAKING IT IDEAL FOR RETROFITS AND TIGHT PLANT ENVIRONMENTS.

NO AIR FILTERS REQUIRED

HELPS LOWER MAINTENANCE AND OPERATIONAL EXPENSES.



(203) 743-6741

www.preferred-mfg.com



FEATURES

High Turndown Ratios: Offering a turndown ratio of up to 20:1 due to the burner's dual-zone design, the NanoNOx burner allows for better flame control and fuel efficiency, even at lower firing rates. We can design up to an 8:1 turndown ratio for light oil firing as well.

Fuel Train Piping Design: Natural gas trains can be mounted on the burner/windbox or supplied on a piping rack, designed to comply with B31.1 (power piping code) or B31.3 (process piping code) and built per NFPA 85 standards.

Combustion Air Fan: Available with windbox-mounted or remote floor-mounted forced draft fans, featuring TEFC premium efficiency motors and silencers to meet the 85 dBA industry noise standard.

FGR Compatibility: The NanoNOx burner integrates Flue Gas Recirculation (FGR) to help achieve low NOx emissions while maintaining combustion stability and efficiency.

Energy Efficiency: Optimized for minimal excess oxygen levels (2.5% to 3% O_2), these burners enhance combustion efficiency, providing fuel savings and reduced operating costs.

Advanced Control Systems: Fully compatible with Preferred's BurnerMate Universal (BMU) and other advanced control systems, providing precise management of fuel and air, monitoring, and control for multiple fuel configurations. Available with parallel positioning or fully metered control, as well as PLC BMS/CCS control panels.

Fuel: Designed for use with natural gas and light fuel oil.

OVERVIEW

Ultra-Low NOx Solutions for Emissions Control, Preferred's NanoNOx burners are designed to achieve ultra-low NOx emissions while maintaining high operational efficiency. Ideal for industrial and process applications, they meet strict emissions standards without sacrificing performance.

Engineered for 9 ppm NOx emissions, NanoNOx burners operate with flue gas recirculation (FGR), making them easier to maintain and more efficient without any moving parts.

These burners are versatile, compatible with various fuels such as natural gas, biogas, and propane, and can be used in single-burner and multi-burner configurations.

NanoNOx technology excels in environments with stringent emissions requirements, offering reliable solutions for both new installations and retrofit projects. It ensures ultra-low emissions and high efficiency.

In addition to lowering NOx emissions, NanoNOx burners contribute to overall plant sustainability by reducing carbon footprints and helping facilities meet evolving environmental regulations. Their ability to integrate seamlessly into existing systems makes them a cost-effective solution for retrofits, while their advanced design supports long-term operational stability. Whether you're upgrading older equipment or planning a new installation, NanoNOx burners provide a future-proof approach to emissions control.



ALSO AVAILABLE:

Fuel Oil Handling Systems
Fuel Gas Blending Systems
SCADA & SMART Monitoring Systems
Auxiliary Balance of Plant Controls
Instrumentation
Nuclear Outage Solutions

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