

Maxon Product Overview

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BOONYIUM AND ASSOCIATES LIMITED

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MAXON
A Honeywell Company

Advanced Controls

for clean, efficient combustion

SMARTLINK® Intelligent Valve System

Electronically links several actuators to user's process controller to optimize fuel efficiency and meet stringent emissions standards.

Repeatable accuracy to 0.1 degree. Sizes from 1" to 16"; cast iron, carbon steel and brass body options.



SMARTLINK® METER

Offering highly-accurate, repeatable measurement for fuel, air and combustion streams. Displays instantaneous standard rate and totalized flow without calculations or moving parts. FM approved for Hazardous Locations, and certified Class I, Division 2 Groups A,B,C, and D and Class I, Zone 2, Group IIC.

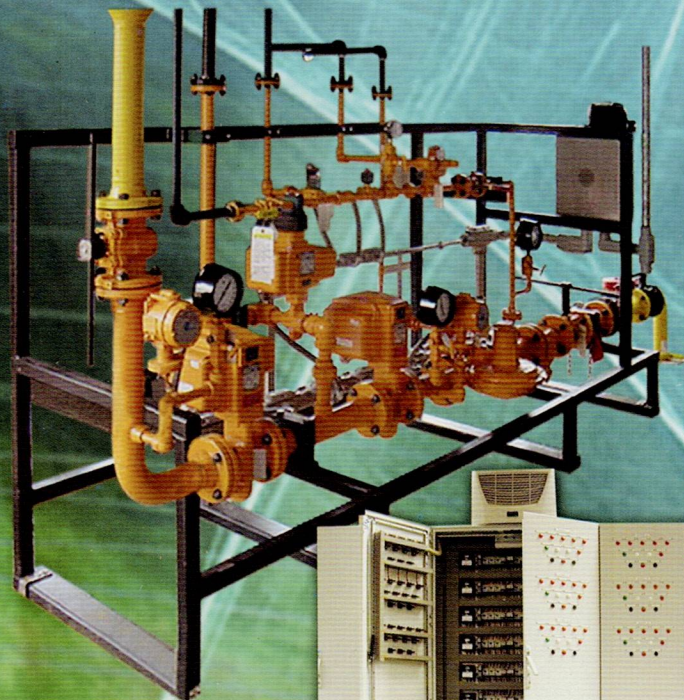
SMARTFIRE® Intelligent Combustion Control System

SMARTFIRE® is a turnkey, intelligent, mass flow air/fuel ratio control system for use with Maxon's burners, especially those designed for low emission applications.

SMARTFIRE® minimizes emissions, maximizes efficiency, and simplifies burner operation.

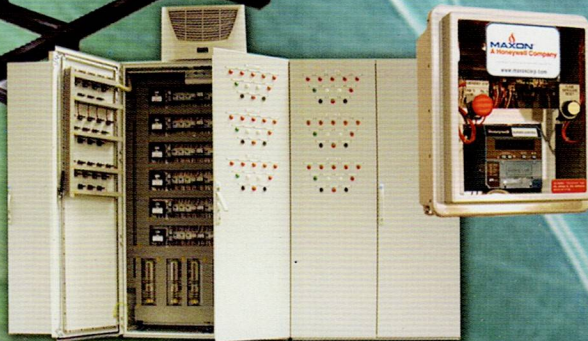


MAXON®
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PIPE TRAINS & ENGINEERED SYSTEMS

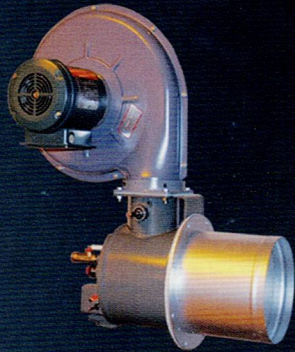
To reduce installation labor, pre-piped gas trains are available in .75" to 8" Sizes, each engineered for efficiency and safety. Can be specified to meet custom requirements. Available to meet the latest fuel gas piping codes and are pressure-tested before shipment. For even greater efficiency, consider a complete Maxon Combustion System.



CONTROL PANELS

Maxon control panels are designed to assure safe and efficient control of your combustion system. **Mini Panels** provide basic functions. **Intermediate Panels** incorporate basic functions with current proportioning temperature control and a high temperature limit. The **Combustion Control Panel System** provides all combustion control functions. Custom panels also available.

Low Temperature burners



OVENPAK® LE

Direct-fired, clean combustion with low NOx and CO. Compact design for easy installation. Offers exceptional turndown in both packaged (50:1) or EB (100:1) versions, with capacities up to 6.5 MBtu/hr.



MODEL 400 & 500 OVENPAK®

For process air heating, providing clean combustion. Heat release to 16,500,000 Btu/hr. Internal fuel/air proportioning system simplifies adjustment.



M-PAKT® Ultra-Low Emission Burner

Near zero pollutants and reliable performance in a convenient packaged burner.



TUBE-O-FLAME®

All-metal design for indirect or immersion-tube firing. Nominal heat release to 5,000,000 Btu/hr. Tamper-proof internal linkage simplifies set-up and commissioning.



TUBE-O-THERM®

Indirect firing into small-bore immersion tubes. Allows uniform heat transfer while producing faster bring-up times. Several sizes up to 8,500,000 Btu/hr.

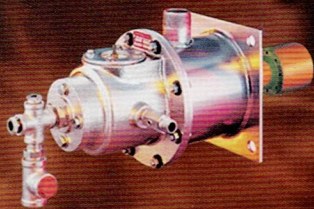


XPO™

Ultra-low emissions and optimal fuel usage for solution-backed, indirect heating. Single digit NOx at 30% excess air. Capacities up to 3MBtu/h with 4:1 turndown ratio. Retrofits easily into existing applications.

VALUPAK®

An economical choice for ovens and dryers requiring high turndown up to 40:1.

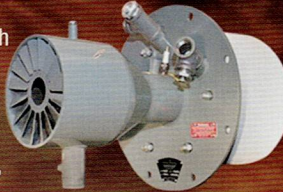


UNI-RAD®

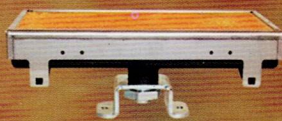
Pulse-fired radiant tube burner system. Provides fuel savings from 30% to 50% combined with increased tube life, improved temperature uniformity and improved production quality.

KINEDIZER® LE

Low emissions through state-of-the-art low NOx firing. Rugged design for oxidizers, process heaters, kilns, furnaces, dryers, waste incineration and other high temp applications. Wide range of capacities with turndowns as high as 20:1. For natural gas, propane or other fuel gases.



High temperature burners



RADMAX® Radiant Burner

Uniform, high-intensity radiant energy with single digit NOx at face temps of 1050°F to 1650°F. Robust, compact design with cast iron and stainless steel design; requires no tools for routine maintenance.



OPTIMA®

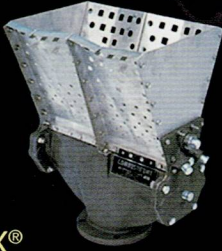
Extremely clean, reliable heat with ultra low NOx and CO on a variety of fuels. Large capacity heat releases with a compact, robust flame geometry. Configurable for dryers, air heaters, ovens, kilns, process heaters, paper machines, and more.



OXY-THERM® Family

Oxy fuel combustion with lower NOx for higher efficiencies in heat-intensive processes. Available for gas, oil, or solid fuels, with a variety of flame patterns and geometries.

Line and Duct burners



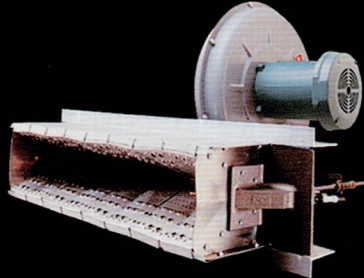
LO-NOX®

Provides direct-fired, in-the-duct, process air heating with greatly reduced generation of NOx. Modular burner design for improved temperature uniformity.



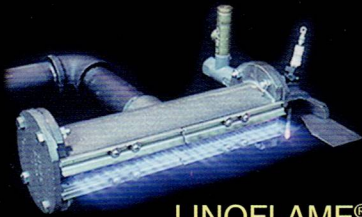
CROSSFIRE®

Nozzle mixing line burner for use with low pressure natural gas. High firing capacity up to 2,500,000 Btu/hr/ft with extremely low emissions of NOx and CO.



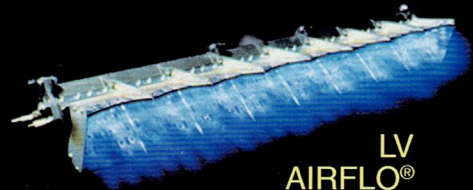
APX® Burner

Nozzle mixing line burner for low pressure natural gas, propane or butane. Capacities up to 1,000,000 Btu/hr/ft; turndown up to 40:1.



LINOFLAME®

Modular cast iron body, no ignition rails. Two styles available for on-ratio heat release to 600,000 Btu/hr/ft. Useful for air heating, flame treating, and laminating.



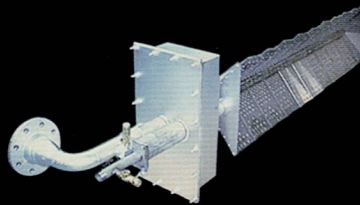
LV AIRFLO®

For in-duct air heating applications requiring varying air volumes and low pressure drops. Modular design, capacities to 2,500,000 Btu/hr/ft, inlet temperatures to 1200°F.



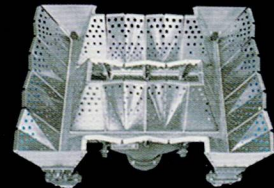
NP/RG AIRFLO® Burner

Modular raw gas burners for make-up or process air heating. Choose from Series NP or RG. Capacities to 1,000,000 Btu/hr/ft.



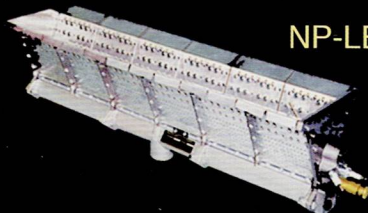
HC AIRFLO®

Provides low NOx and CO emissions and high capacity (up to 7,000,000 Btu/ft) in low O₂/low pressure drop process air streams. Available in sizes up to 14 feet in fired length.



COMBUSTIFUME®

Modular design for pollution control through direct-fired thermal incineration. For raw-gas or partial-premix systems.

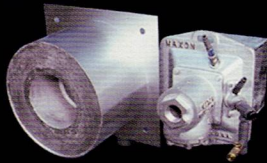


NP-LE AIRFLO®

Low NO₂ and CO production for direct-fired make-up air applications. Capacities up to 750,000 Btu/hr/ft air make-up; 1,000,000 Btu/hr/ft process heating with high turndown.

Burners, Control Valves, and Safety Shut-off Valves

WIDE-RANGE®



For furnace and air heating applications with on-ratio heat release to 13,500,000 Btu/hr. Positive flame retention and broad turndown.



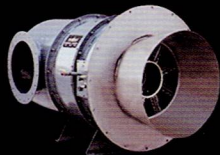
VORTIFLARE®

Radial flame refractory block burner to reduce hot-spotting and eliminate flame impingement. Nominal heat release to 840,000 Btu/hr on gas or oil.



RAMFIRE®

High-velocity refractory block burner. Heat release to 800,000 Btu/hr. Exit velocities to 550 fps. Operate on-ratio or with excess air.

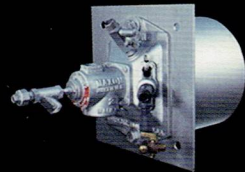


MEGAFIRE®

Packaged heating system, heat releases up to 45,000,000 Btu/hr. Compact size, energy efficient, low horsepower requirements, for combination firing of natural gas, propane, and #2 fuel oil.

KINEMAX®

Medium velocity refractory block design gives discharge velocities to 275 ft/sec. Nominal heat release of up to 8,400,000 Btu/hr. Capable of on-ratio, excess fuel or excess air firing on gas or oil.

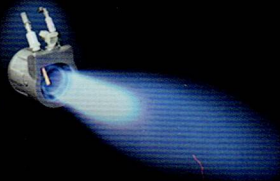


MULTIFIRE®

For furnace and air heating applications with nominal heat release to 17,500,000 Btu/hr. High-temperature refractory block design. Torch-type flame. For gas or oils.

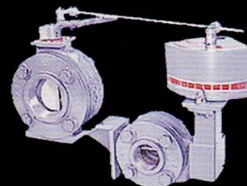
STICKTITE™

For open-port firing. 68 versions for on-ratio heat release to 15,000,000 Btu/hr at 10" wc mixture pressure.



MICRO-RATIO® CONTROL VALVES

MICRO-RATIO® Valve assemblies consist of an air butterfly valve mechanically linked to one or more SYNCHRO Fuel Control Valves. Sizes up to 18" for air, 12" for gaseous fuels, 1" for liquid fuels.



8000 SERIES AIR ACTUATED VALVES

Integral control and powerful closing spring for reliable shut-off. Compact design; cast iron, carbon steel or stainless steel bodies; many trim options available. 3/4" to 6" diameter line sizes. Actuator rated for NEMA 1, 3, 3S, 4 & 12. FM, CSA, and CE approved. 8000 gas valves are SIL-3 rated.



GENERAL PURPOSE AND HAZARDOUS DUTY ELECTRO-MECHANICAL SHUT-OFF VALVES

Electrically actuated shut-off and vent valves. 3/8" through 6" diameter line sizes, high C, flow factors, line pressures up to 600 PSIG. Manual and automatic versions. Factory Mutual, CSA, UL and CE approved; Canadian registration on all valve bodies. Hazardous location valves approved for Non-incendive Class I, Division 2 areas.

