

MODEL CMAX	GAS	1,260,000 –
FORCED DRAFT	AND OIL	92,400,000
BURNERS		BTU/HR

Power Flame® CMAX BURNERS



Power Flame's Versatile High Capacity Gas / Oil Burners provide Ultimate Energy Savings and Emission Reductions

Power Flame has developed a complete family of CMAX burners offering state-of-the-art technology for maximum combustion efficiency, operating performance, and ultra low NOx when firing a wide variety of gaseous and liquid fuels. Originally designed for today's fire tube boiler, the CMAX is just as effective firing commercial and industrial water tube boilers.

Whether you need a traditional gas or oil burner, low NOx, ultra low NOx or low excess air for maximum boiler efficiency – we have a CMAX burner to suit your specific requirements.



CMAX



Low Excess Air CMAX



Ultra CMAX



Unique firing head produces stable combustion over wide turndown.

Type CMAX

An essential design feature and basis for all its derivatives, the CMAX burner utilizes a unique firing head design that provides stable combustion over a wide turndown range (up to 10.1 on gas and 8:1 on oil).

The low NOx version using induced flue gas recirculation provides minimal emissions on gaseous and liquid fuels.

The easy access door on the burner blast tube allows

maintenance of the firing head components without disturbing the fuel piping or electrical connections. The bottom-entry, centrally located gas manifold connection facilitates left or right hand configurations.

The modular concept that is inherent with all Power Flame burners produces added flexibility for a wide range of optional features. All packaged combustion systems are factory fire-tested to ensure cost effective installation and start-up.

Low Gas Pressure Firing Head

Adds flexibility for low gas pressure applications and minimizes blower horsepower

Circular Furnace Opening

No special cutting of combustion chamber front plate

Adjustable Firing Head

Produces optimum fuel-air mixture within the primary combustion zone

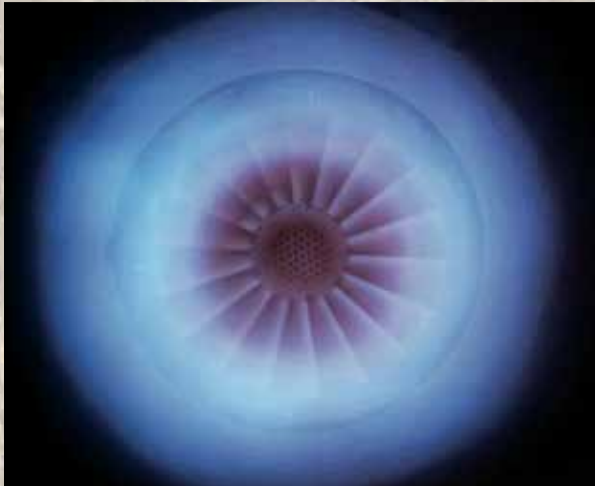
Total Access Panel

Swing out, easily removable top and front panels give total access to circuit board mounted operating controls and Alpha System™ LED Indicators & Switches



Power Flame's
Versatile High Capacity
Ultra Low NOx
Gas / Oil Burner

MODEL UCM	GAS	8,400,000 –
FORCED DRAFT	LIGHT OIL	25,200,000
BURNERS		BTU/HR



Combination of partial premix and staged combustion for ultra low NOx

Ultra CMAX

The Ultra CMAX offers state-of-the-art dual fuel technology for minimal NOx emissions (under 9 PPM on natural gas), maximum combustion efficiency and operating performance when firing all types of gaseous fuels and light oils.

Designed specifically for today's fire tube boilers, the Ultra CMAX burner utilizes an advanced firing head that combines fuel staging and premixing to provide stable combustion over a wide turndown range (5:1 on gas and oil).

Moderate amounts of induced flue gas recirculation provide minimal emissions on gaseous and liquid fuels.

The easy access door on the burner blast tube allows maintenance of the firing head components and facilitates a quick changeover from gas to oil firing without disturbing the fuel piping or electrical connections. The bottom-entry, centrally located gas manifold connection allows left or right hand configurations.

The burners are available with a wide range of optional features and parallel positioning combustion control systems. Our factory fire-test ensures cost effective installation and start-up.

Premix Firing Head

Produces optimum fuel-air mixture within the primary combustion zone and minimizes blower motor horsepower

Linkageless Controls

State-of-the-art electronic controls accurately maintain fuel air ratios throughout the firing range for optimum performance. Standard on all burner sizes.

Optional NEMA 4 control panel and touch screen display with custom graphics

MINIMIZE GREENHOUSE GASES • REDUCE MAINTENANCE COSTS

Power Flame

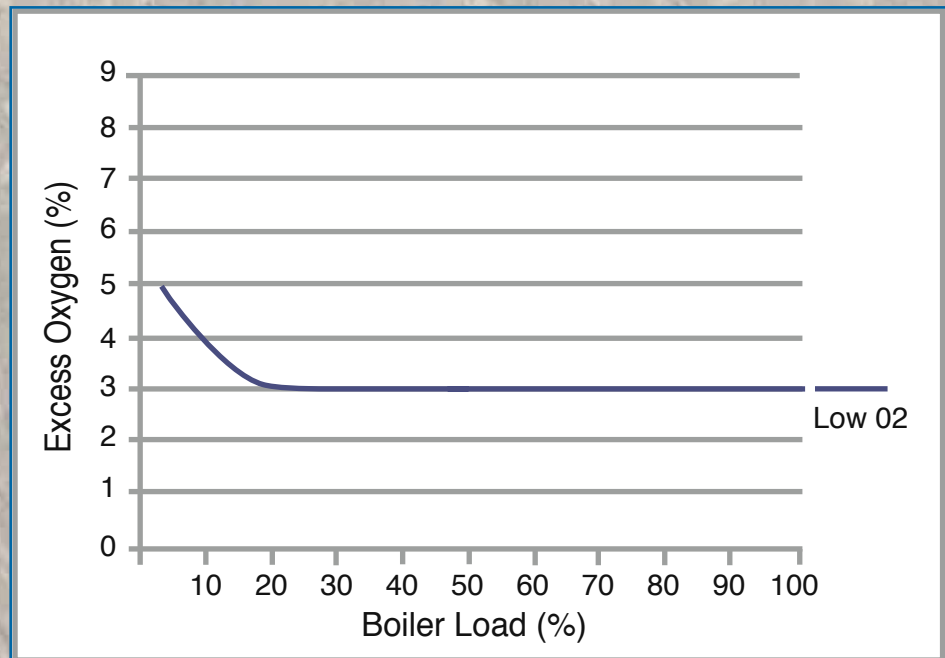
The Power to Manage Energy

MODEL CM-LEA GAS 1,260,000 –
FORCED DRAFT AND OIL 92,400,000
BURNERS BTU/HR

LOW EXCESS AIR C_{MAX}

Power Flame's
Versatile High Capacity
Energy Saving
Gas / Oil Burner

To meet the ever increasing demand for efficiency and reduction in greenhouse gases, Power Flame has developed a Low Excess Air version of the C_{MAX} burner. Incorporating many of the basic design features of the standard C_{MAX} burner and adding several internal enhancements, the C_{MAX} burners are capable of maintaining 3% excess oxygen levels over a 5:1 turndown on gas with less than 50ppm CO. Combined with the reduced blower motor horsepower, state-of-the-art parallel positioning control systems with oxygen trim and VFD control – the C_{MAX} LEA offers the most energy efficient combustion system in the marketplace today!



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