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.
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 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.
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.

**Combination of partial premix and staged combustion for ultra low NOx**

**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**
To meet the ever increasing demand for efficiency and reduction in greenhouse gases, Power Flame has developed a Low Excess Air version of the CMAX burner. Incorporating many of the basic design features of the standard CMAX burner and adding several internal enhancements, the CMAX 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 CMAX LEA offers the most energy efficient combustion system in the marketplace today!