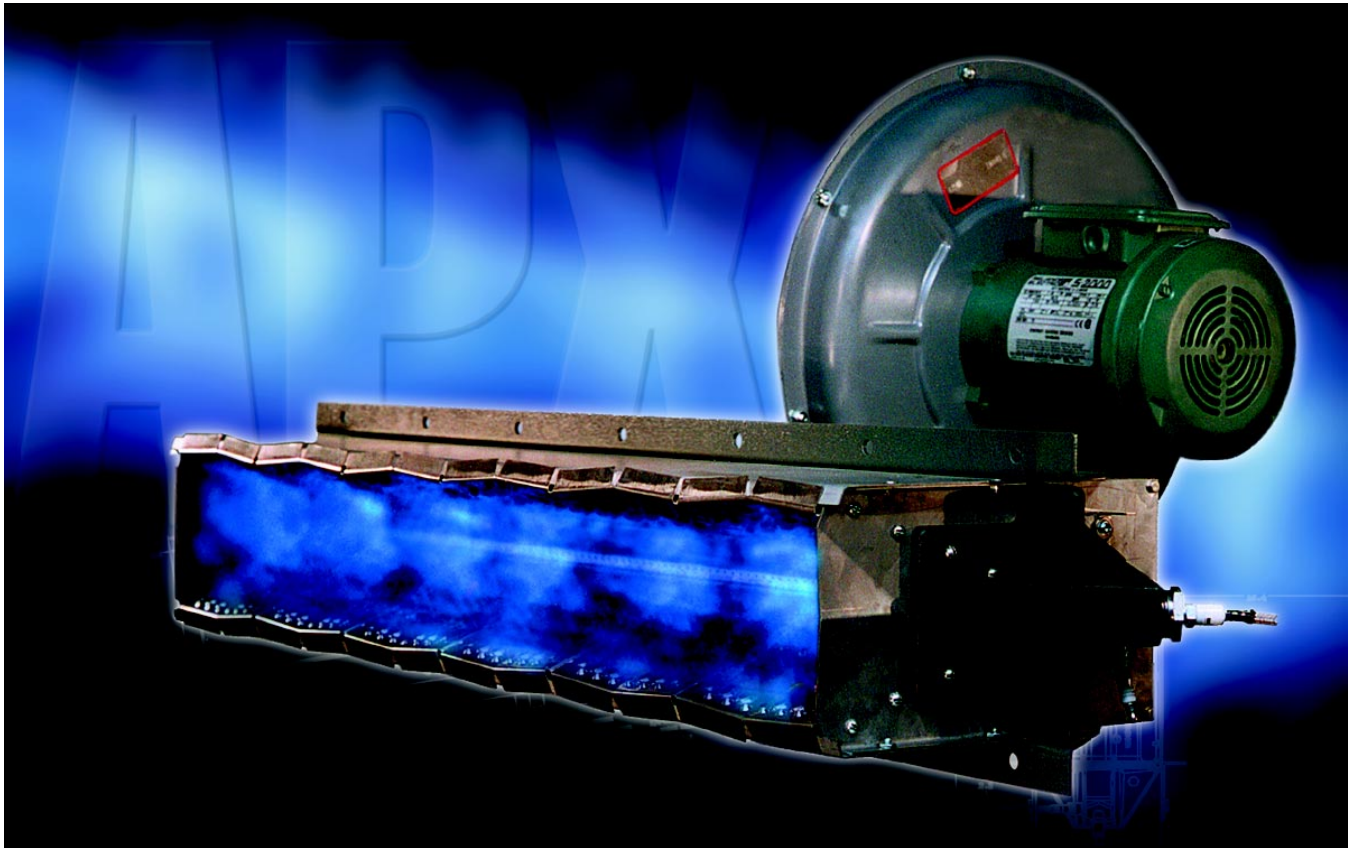


Maxon APX[®] Burners



- **Eliminates leakage** with single-piece, aluminum extrusion body design
- **Cooler oven walls** due to deeper penetration and shorter flame lengths
- **Corrosion-resistant main gas/air body** and durable stainless steel mixing plates
- **Standard burner designed for use with low pressure natural gas, propane or butane**
- **Up to 40:1 turndown**
- **Capacities up to 1MMBtu/hr/ft**
- **Packaged units up to 15 feet in length**



CORPORATION

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Maxon APX® Burners

Design and Application Details

Maxon APX® Burners are packaged nozzle mixing line burners designed for fresh or low temperature recirculated air heating applications.

The APX® Burner is a value engineered design utilizing a single aluminum extrusion for both its air and fuel manifolds. Its single-piece, joint-less body design eliminates burner leakage.

Standard packaged units are available in 0.5 to 15 foot lengths. Maximum firing rate is 1 MMBtu/hr/ft.

The APX® Burner has two wall mounting options: flange mounted on suction side of recirculating fan or slot fired. The burner may also be mounted within a duct for fresh air heating applications or low temperature recirculating applications.

The APX® Burner throttles gas only while obtaining up to 40:1 turndown. Gas and air are fed from the back. A variety of pilots and end plates are available for application flexibility.

Principle of Operation

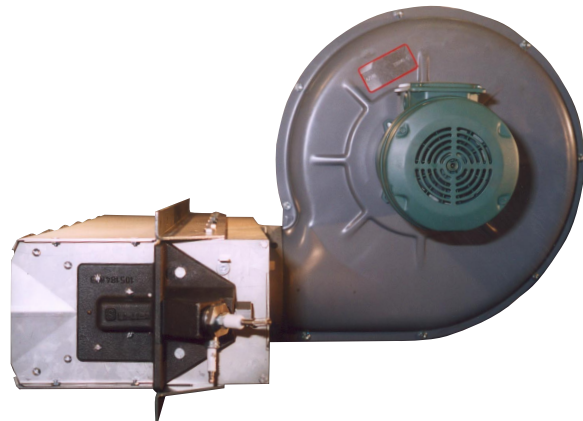
The design of the APX® Burner allows for high turndown ratio without premixing fuel and air at low firing rates. Low emissions are maintained through precise aeration of the flame along its length. This progressive aeration of the flame is achieved with the advanced mixing plate design of Maxon's NP AIRFLO® Line Burner.

Air is supplied by a low horsepower paddle wheel blower mounted directly to the back of the main burner extrusion. Paddle wheel blowers resist particle build-up and provide higher air pressure. The higher air pressure allows for increased flame turbulence as well as uniform air distribution across the length of the burner. The increased turbulence shortens the flame, providing resistance to cross flows.

The APX® Burner is designed so that the flame exits the mixing chamber more than six inches downstream from the mounting flange for suction applications. APX® enables the use of up to 6 inch oven panels without a costly mounting adapter or without risking damage to oven structure from flame impingement.



Back view of APX Burner



View from pilot end plate