

# Maxon Packaged & EBMRV CYCLOMAX<sup>®</sup> Low NOx Burner



*Packaged Version*



*EBMRV Version*

- **Provides clean combustion** with NOx emission levels below 25 ppm (50 mg/m<sup>3</sup>) and CO levels less than 75 ppm (90 mg/m<sup>3</sup>) at 3% O<sub>2</sub>. Lower emissions possible based on specific application. Contact your Maxon sales representative for more information.
- **Nozzle-mixing gas burner** for use with natural gas or propane
- **Packaged version available in 5 sizes** – up to 3,700,000 Btu/hr (1100 kW)
- **EBMRV version available in 4 sizes** – up to 7,400,000 Btu/hr (2200 kW)
- **Packaged version operates on low gas pressure** – 16" w.c. (40 mbar) or less
- **Simple installation, adjustment and start-up**
- **Turndown averages 15:1 (10:1 on smaller sizes)**
- **Designed specifically for oven-type applications** with cross velocities up to 4000 fpm (20 m/s)
- **Packaged version** handles oven conditions from 2" w.c. (5 mbar) suction to 2" w.c. (5 mbar) back pressure
- **EBMRV version** offers good performance with a much wider range of suction or back pressure applications



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## Principle of Operation

The clean-burning design of the Maxon Packaged and EBMRV CYCLOMAX<sup>®</sup> Low NOx Burners produce extremely low emissions of both NOx and CO.

The patented burner nozzle creates a swirling flame within the combustion sleeve. The recirculation pattern allows the burner to produce very low levels of CO and unburned hydrocarbons.

**On the Packaged versions**, the air/fuel shaft maintains the proper air-fuel ratio for low emissions throughout the firing range. For best results, the fuel pressures upstream of the burner should not change by more than 3" w.c. (7.5 mbar) as the burner throttles from high to low fire.

**The EBMRV versions** are field-adjusted to the proper air-fuel ratios by using a Maxon MICRO-RATIO<sup>®</sup> Valve.

The flame is almost completely contained inside the combustion sleeve. The gases exiting the sleeve are essentially those of complete combustion.

**EBMRV versions use Maxon FG Blowers and MICRO-RATIO<sup>®</sup> Valves**, and are capable of doubling the capacity of the Packaged versions.

## Component Identification

