

PARKER BOILER CO.
LOW NO_x BURNER SYSTEM SELECTION IDENTIFICATION GUIDE

Parker uses a variety of premix gas/air mixing & delivery systems for its "L" System boilers. This bulletin presents a brief overview of the different types of systems Parker utilizes. Parker's Low NO_x Systems are typically designed for a 20 or 30 ppm level at 3% O₂, however, special 12 ppm Low NO_x boilers are also provided.

In all cases, a Pre-mixed gas/air is distributed to the burners by a manifold. By precisely controlling the gas/air ratio provided to the burners, Low NO_x emission & efficient clean combustion is obtained.

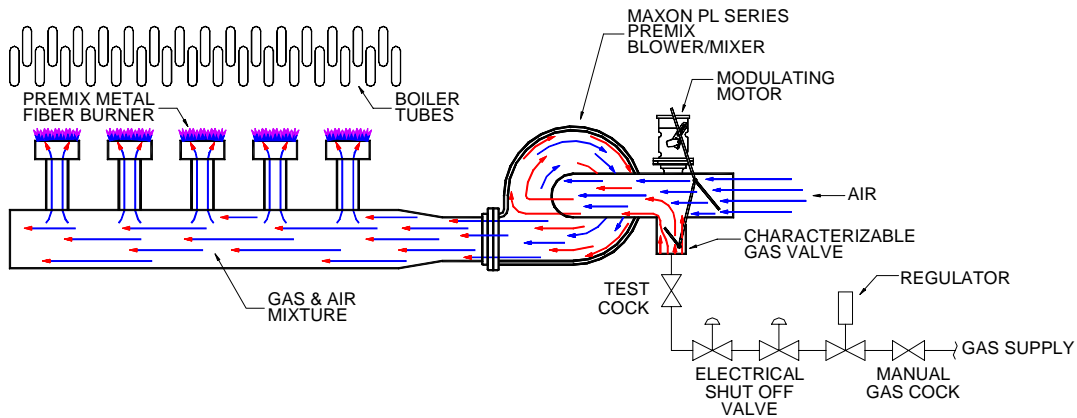
When starting or tuning a Parker Low NO_x Boiler, you must identify the type of system used. Supplemental start-up & tune up sheets provide a checklist for the proper & safe adjustment of the system. Once the system type is identified, refer to the supplemental start-up sheet for that type of system.

SYSTEM 1

Maxon "PL" Series Premix:

Firing: Modulating, 2 stage, or on/off.

Sizes from 69,000 to 6,300,000 BTUH.



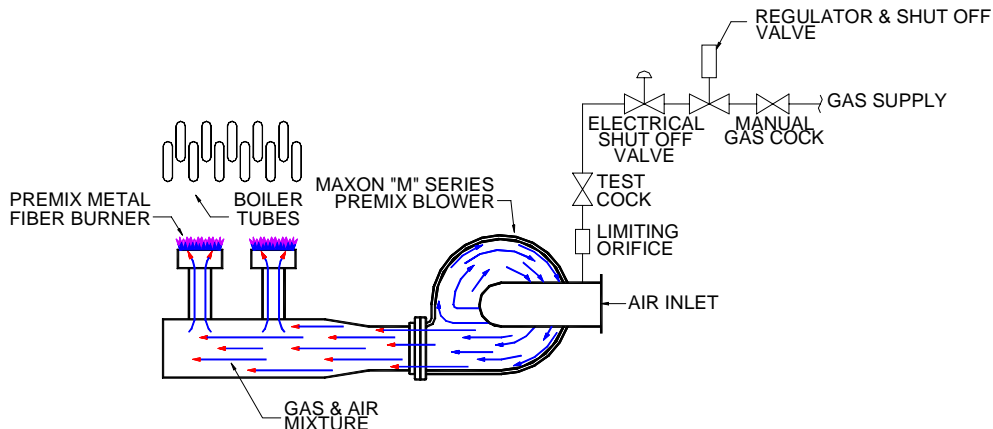
MAXON PL SERIES PREMIX BURNER SYSTEM

SYSTEM 2

Maxon "M" Series Premix Mini-Mixer.

Firing: on/off.

Sizes from 69,000 to 645,000 BTUH.



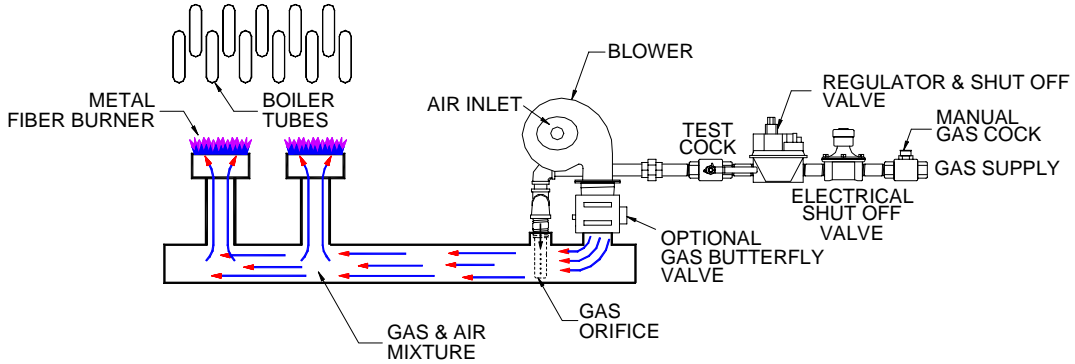
MAXON "M" SERIES MINI MIXER
 PARKER PREMIX BURNER SYSTEM

SYSTEM 3

Post Mix System.

Firing: on/off.

Sizes from 69,000 to 760,000 BTUH.



**POST MIX COMBUSTION SYSTEM
PARKER PREMIX BURNER SYSTEM**

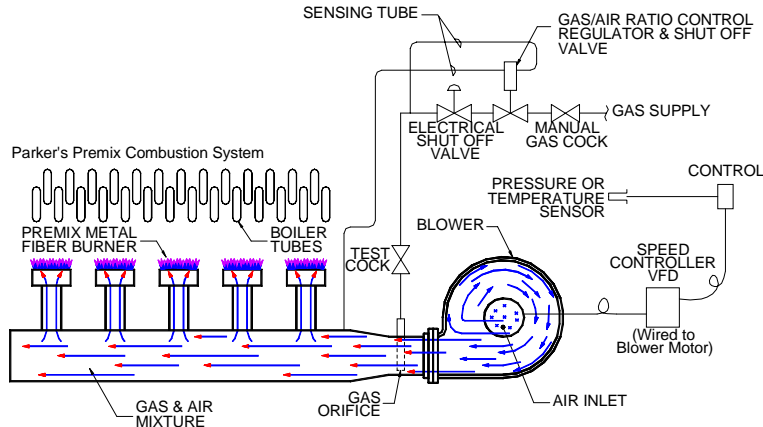
PREMIX.DWG

SYSTEM 4

Variable Speed Drive Fan Post Mix System, Siemens SK70 controller.

Firing: Modulating, 2 stage, or on/off.

Sizes from 69,000 to 6,300,000 BTUH.



**VARIABLE SPEED APPLICATION
POST MIXING "LVFD" SYSTEM
PARKER PREMIX BURNER SYSTEM**

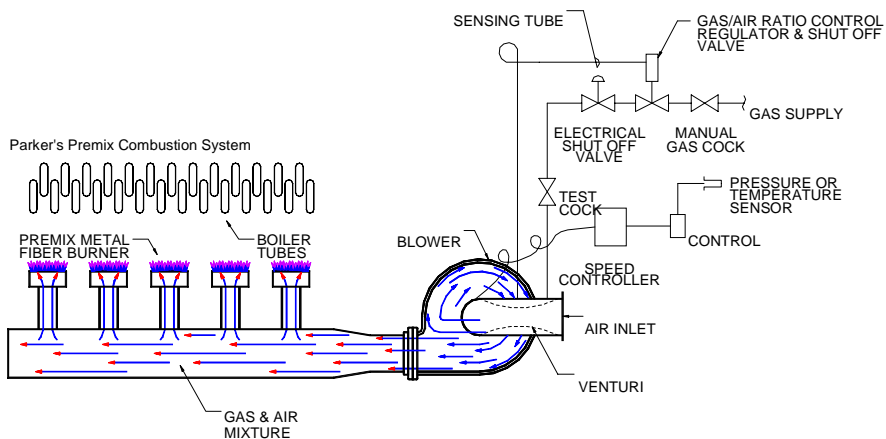
PREMIX3.DWG

SYSTEM 5

Variable Speed Drive Fan Premix System, Honeywell Valve / Venturi.

Firing: Modulating, 2 stage, or on/off.

Sizes from 69,000 to 6,300,000 BTUH.



**VARIABLE SPEED APPLICATION
PRE MIXING "LVFD" SYSTEM
PARKER PREMIX BURNER SYSTEM**