Superior luminous flame
Heat Transfer

Exceptionally Low NOx

Low Oxygen Pressure
Requirement

Simple Installation

Simple low maintenance
Operation

The 5013S produces exceptionally low NOx emissions. It is a combination of a special 5010N-J3 burner and a special 5030-L lance. The 5013S packages these two together to simplify operation, mounting, piping, and installation of the resulting low NOx oxygen burner.

Operation
20% of the theoretical oxygen is supplied to the burner while the remaining 80% oxygen is supplied to the lance. The result is a luminous flame with delayed mixing of fuel and oxygen for exceptionally low NOx production.

The fuel and oxygen tubes can be easily removed from the back of the burner for inspection.

Flame Ignition and Supervision
The burner mounting plate has a rear connection designed to accept a UV scanner. Contact Fives North American for specific application information. If a flame supervision system is not used, the burner must only be operated when the chamber temperature has been verified to be above 1400 F. The 5013S has a pilot or spark ignition system.

Applications
Steel reheat furnaces, in/out furnaces, box forging, car bottom forging, aluminum melters, and other high temperature furnaces can benefit from the 5013S's high quality heating and exceptionally low NOx.

Ordering
Specify oxygen and natural gas flows in scfh. The 5013S burners' orifices are custom-sized to order.

CAPACITIES

| 800 | 2000 | 4.0 | 3200 | 7.0 | 4000 |
| 1200 | 3000 | 8.0 | 4800 | 16.0 | 6000 |
| 1600 | 4000 | 14.0 | 6400 | 27.0 | 8000 |
| 2000 | 5000 | 21.0 | 8000 | 40.0 | 10000 |
| 2400 | 6000 | 29.0 | 9600 | 46.0 | 12000 |

**Patents** 5,267,850 and 5,076,779. Manufactured under license from Praxair Inc.

**WARNING:** All equipment and pipe used with oxygen must be made of suitable materials and properly cleaned for oxygen service. Operating personnel should be trained in safety procedures. Failure to do so could result in accidental injury or death. Contact your oxygen supplier and North American for information.