Superior luminous flame heat transfer

Exceptionally Low NOx

Low Oxygen Pressure Requirement

Simple Installation

Simple low maintenance Operation

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

**OPERATION**

40% of the theoretical oxygen is supplied to the burner while the remaining 60% 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 has a rear connection that can accept a UV scanner. Contact North American for specific application information. If a flame supervision system is not used, the burner should only be operated when the chamber temperature has been verified to be above 1400 F. The 5013G does not have a pilot or spark ignition system.

**APPLICATIONS**

Glass melters, steel reheat furnaces, aluminum melters, and other high temperature furnaces can benefit from the 5013G’s high quality heating and exceptionally low NOx.

**ORDERING**

Specify oxygen and natural gas flows in scfh. The 5013G burners’ orifices are custom-sized to order.

**CAPACITIES**

<table>
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<th>O₂ scfh</th>
<th>Natural Gas scfh</th>
<th>Natural Gas osig</th>
<th>O₂ scfh</th>
<th>O₂ osig</th>
<th>Total O₂ scfh</th>
<th>Flame length ft</th>
<th>Flame diameter ft (approximate)</th>
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<td>12000</td>
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</table>

**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 Fives North American Combustion, Inc. for information.

**WARNING:** Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., are inherent with any combustion application. Parts of this product may exceed 160°F in operation and present a contact hazard. Fives North American Combustion, Inc. urges compliance with National Safety Standards and Insurance Underwriters’ recommendations, and care in operation.