GAS OR OIL BURNERS
OXY-THERM® LE

Low NOx Burner for Glass

- Extremely low NO_x levels with patented oxygen staging design.
- Burns any gaseous fuel, including fuels that may be unstable using air for combustion, and up to a 20% Hydrogen/80% natural gas fuel blend.
- Fuel oil capability ranges from light to heavy fuel oils.
- Quickly convert between gas and oil service by changing the burner nozzle.
- Patented design eliminates flame lofting providing cooler furnace crowns.
- Designed for easy installation and service. OXY-THERM® LE Burner nozzles can be removed during furnace operation, eliminating costly downtimes.
- Dramatically increase available heat by producing higher flame temperatures from burning fuels with oxygen.

TYPICAL EMISSIONS:

OXY-THERM® LE burners utilize a patented oxygen staging technology to reduce the formation of NOx in high temperature furnaces. Through deep staging of the oxidant flow, NOx is controlled to levels typically lower than conventional oxy-fuel burners. By reduction in total flue gas volume, the total mass of NOx created is often lower than air-fuel firing.

APPLICATION

OXY-THERM® LE burners produce dramatic savings in high temperature applications by reducing the total flue gas volume in a furnace. In addition, the higher flame temperature of oxy-fuel firing increases the radiant heat transfer to most applications.

OXY-THERM® LE burners have been successfully applied to glass furnaces, day tanks, incinerators, metal melting furnaces, reheat furnaces, kilns, and many other types of higher temperature applications.

Typical applications in industry include converted regener-ative-type furnaces and melters, unit melters, non-ferrous melting, waste incinerators, smelters, and special applica-tions requiring high temperatures.

Flow control and shut-off valves (available from MAXON) need to conform with the appropriate standards for oxygen service.

Two refractory block materials are available for OXY-THERM® LE Burners. Alumina/zirconia/silica (AZS) burner blocks and zirconia burner blocks may be used with gas fir-ing and oil firing. Extended block versions are only available in AZS material.

OXY-THERM® LE mounted on a glass furnace

OXY-THERM® LE staged flame pattern

Honeywell

MAXON

For more information

The Honeywell Thermal Solutions family of products includes Honeywell Combustion Controls, Honeywell Combustion Safety, Honeywell Combustion Service, Eclipse, Exothermics, Hauck, Kromschroder and Maxon.

To learn more about our products, solutions and services, visit ThermalSolutions.Honeywell.com or contact your Honeywell Sales Engineer.

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