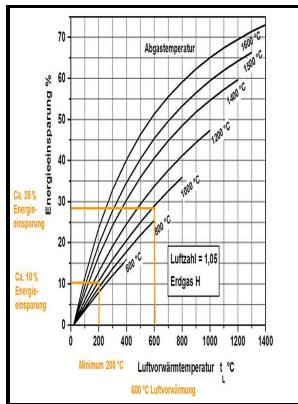


Natural Gas-Air Burner For A Top-Fired Preheater.

s.n - Natural gas burner



Description: -

-Natural Gas-Air Burner For A Top-Fired Preheater.

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Report of investigations (United States. Bureau of Mines) --
5519Natural Gas-Air Burner For A Top-Fired Preheater.

Notes: 1

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Direct Fired vs. Indirect Fired Heaters

Two types of heater designs have been employed for this purpose. Air preheating is helpful in following ways:- -Greater load flexibility -Stabilizing fuel ignition -Improve combustion -Increase thermal efficiency -Decreases fuel combustion -Increase steam generation capacity -Recovery of waste heat from the boiler protects the environment from the pollution. The carbon dioxide is absorbed from the gas, leaving the rest of the contaminants and hydrogen relatively untouched.

High efficiency Ladle pre

There is a great effort to make use of the waste gases, which are in ample supply, as process fuel, but this is not possible with conventional burners, for various reasons aside from lower calorific value. It then flows into the inner burner tube 12 and into the furnace as will be further described.

Petrochemical Industry Enamel Plate Air Preheater Fully Welded Structure

The cooled dirty gas 27 is then conveyed to venturi scrubber 34. Save Money, by being far more fuel-efficient than the traditional pre-heat methods.

Gas Burner

The apparatus comprises a gas line for conveying a process gas through a furnace. While the focus of this article is on reducing NOx formation at the burner, there always is post-combustion control technology, such as selective catalytic reduction SCR , which can reduce NOx emissions to 1 ppm

Low

The flue gas which is the heating medium passes through inside of the tubes whereas the air entering the air preheater passes through outside of the tubes by conduction.

Low

Proprietary design low NOx burners guarantee an excellent homogeneity of temperature distribution inside the ladle. The resulting high level of efficiency means amortization times are less than two years.

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