



# DIRECT FIRED AIR HEATER

**COMBUSTION AND ENVIRONMENTAL SOLUTIONS.  
PURE AND SIMPLE.®**

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## **We are the global authority.**

As a worldwide leader in combustion system solutions, Zeeco is the company to trust for your Direct Fired Air Heater system. Our engineers have decades of experience in designing these systems for petroleum refining, power generation and chemical processing facilities around the globe.

Zeeco's experienced engineering team goes the extra mile with each and every Direct Fired Air Heater. Our Combustion Research and Test Facility was the first in the world to become ISO 9001-2000 certified, and our staff strives to stay ahead of rapidly changing emission requirements. With 15 full-scale combustion test furnaces, Zeeco is capable of testing a wide variety of combustion systems under simulated field conditions.

## **The efficient use of heat—exactly when you need it.**

Zeeco's Direct Fired Air Heaters are used in a variety of heating applications. A typical petroleum refinery application is a Fluidized Catalytic Cracking Unit (FCCU). The Direct Fired Heater is primarily intended to be used during startup operations and short-term feed outages to heat the catalyst bed in the regenerator section of an FCCU. Zeeco is an approved supplier of Direct Fired Air Heaters for all of the world's major Fluidized Catalytic Cracking Unit (FCCU) licensors.

## **The Zeeco difference.**

Our only business is the combustion business. By concentrating on what we do best, Zeeco has grown into a worldwide leader in combustion solutions. We are a privately held company whose ownership stays highly involved in daily operations, with upper management comprised of the world's leading combustion experts.

When you call Zeeco, we answer. When you make a request, you receive a quick and efficient response. Our sales, engineering and purchasing groups work hand-in-hand to deliver highly competitive quotes and heroic turnaround times. We stand ready and willing to travel anywhere in the world to discuss upcoming projects firsthand, and to ensure that every existing project runs seamlessly.

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BURNERS



FLARES



INCINERATORS



PARTS & SERVICE

COMBUSTION AND ENVIRONMENTAL SOLUTIONS.  
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# Direct Fired Air Heater

## Typical Performance

- Air outlet temperature: 400 to 1500°F (200 to 800°C)

## Typical Applications

- Catalyst bed heating
- Petroleum refining: Fluidized Catalytic Cracking Units (FCCU)
- Gassification processes
- Drying applications

## Design Features

- Standard sizes available from 5 to 200 MMBtu/hr
- Standard NFPA Burner Management Systems (BMS) are available
- Compact flame length allows for optimal vessel sizing and minimal impact to the plot plan
- Available in any orientation (horizontal, vertical-up, vertical-down)



CERTIFICATIONS APPLY TO ZEECO HEADQUARTERS ONLY.



CERTIFIED  
NBBI



CERTIFIED  
ASME



CERTIFIED  
ASME



REGISTERED  
ISO 9001: 2008

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