



CARBON MONOXIDE (CO) BOILER THERMAL OXIDIZER

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

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There are no carbon copies.

As a worldwide leader in thermal oxidizer solutions, Zeeco is the company to trust for your CO Boiler application. Our engineers have decades of experience in designing these systems for petroleum refineries around the globe. We are a supplier of CO Boilers for all of the world's major Fluidized Catalytic Cracking Unit (FCCU) process licensors.

CO Boilers are thermal oxidizers with integral waste heat recovery systems that are used to oxidize carbon monoxide-rich waste gases that are typically generated by Fluidized Catalytic Cracking Units (FCCU) in petroleum refineries. They are traditionally referred to as "Boilers" due to the large quantity of steam that is generated by an integral waste heat recovery system.

Zeeco's experienced engineering group goes the extra mile with each and every ZEECO® CO Boiler. We use advanced Computational Fluid Dynamic (CFD) modeling to simulate your unique, specific process conditions against the actual equipment design, allowing us to predict what cannot otherwise be seen or anticipated, rather than relying only on past experience and traditional design rules.

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. A multi-stream incineration system allows us to test the most complex situations in a controlled environment.

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.
PURE AND SIMPLE.®

Carbon Monoxide (CO) Boiler

Typical Performance

- Residence time = 1.0 seconds
- Operating temperature = 1850°F (1010°C)
- Waste Destruction Efficiency (DRE) > 99.99%

Typical Applications

- Petroleum Refineries: Fluidized Catalytic Cracking Units (FCCU)

Design Features

- Custom engineered thermal oxidizer design guarantees optimal emissions performance.
- Proven internal waste gas injection system ensures flame stability and proper ignition of carbon monoxide waste stream.
- System-based approach provides dependable process control and reliability for the complete incineration and waste heat boiler package.
- Refractory system design provides protection against catalyst particulate abrasion and high operating temperature.



Carbon Monoxide Boilers

CERTIFICATIONS APPLY TO ZEECO HEADQUARTERS ONLY.



CERTIFIED
NBBI



CERTIFIED
ASME



CERTIFIED
ASME



REGISTERED
ISO 9001: 2008

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