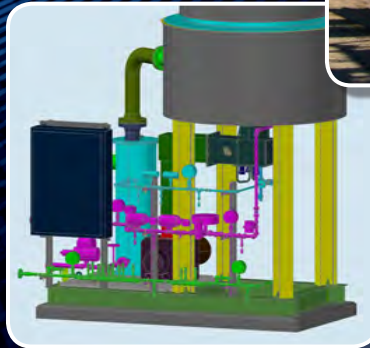
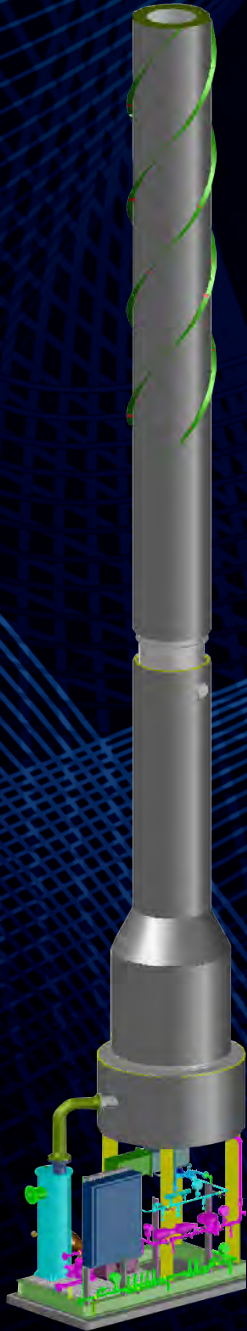




GAS PROCESSING APPLICATIONS

Thermal Oxidizer



COMBUSTION AND ENVIRONMENTAL SOLUTIONS.
PURE AND SIMPLE.®

BURNERS

FLARES

INCINERATORS

PARTS & SERVICE

GAS PROCESSING APPLICATIONS

Thermal Oxidizer

Control Panel



ZEECO high energy pilot burners are fully tested to ensure reliable long term operation in severe service, and can even be ignited and fired while completely submerged underwater.



Custom or off-the-shelf solutions.

Zeeco is a world leader in thermal oxidizer solutions. For decades, our engineers have custom-designed thermal oxidizers for gas processing facilities, petrochemical plants, petroleum refineries, carbon fiber manufacturers, and electronics companies. Zeeco can supply a thermal oxidizer for any gas plant application, including amine treater acid gas, glycol dehydration (BTEX) off gas, and sulfur recovery unit (SRU) tail gas.

Zeeco manufactures the world's largest and most technologically advanced thermal oxidizers. In addition to these large-scale, custom-engineered solutions, Zeeco also offers standardized, off-the-shelf thermal oxidizer solutions. These thermal oxidizers are available on short notice for either purchase or rental.

Why do so many entrust their systems to Zeeco? We have more than 30 years of experience in the field. Over time, we have developed a reputation for excellence in engineering, reliability, and integrity. This excellence translates into proven, reliable, enduring results for our customers – and an opportunity for your company to benefit from our innovation and experience, as well.



Oxidize and economize.

Flaring has long been used for the thermal destruction of continuous waste streams. However, many gas plant operations are literally burning millions of dollars per year on wasteful enrichment gas for their flare systems.

According to the U.S. EPA Title 40 CFR Part 60.18, General Control Device Requirements, "Flares shall be used only with the net heating value of the gas being combusted being 11.2 MJ/scm (300 Btu/scf) or greater if the flare is steam assisted or air assisted. This requires open flame flaring technologies to utilize much greater levels of enrichment gas when compared to thermal oxidation technology in similar, continuous service.

How does this translate to your bottom line? Look at this side-by-side comparison:

Thermal Oxidizer vs. Flare System

(typical results based on a continuous 2 MMSCFD amine treater acid gas flow rate)

	Typical Steam or Air Assisted Flare System	Zeeco Thermal Oxidation System
UTILITY CONSUMPTION		
Fuel gas required for operation	33,000 scfh (enrichment gas)	6,050 scfh (1500°F operation)
Annual fuel gas charge (cost basis = \$4 per 1100 scf)	\$1,050,000	\$193,000
ENVIRONMENTAL EMISSIONS		
Hydrocarbon Destruction Efficiency (DRE), %	<99%	99.99%

As you can see, Zeeco's thermal oxidation system can provide a guaranteed Destruction Efficiency (DRE) of up to 99.9999% - and generate tremendous fuel cost savings that give back to the bottom line year after year.

Typical Gas Processing Applications

- Amine Treater Acid Gas
- Glycol Dehydration System/BTEX Off Gas
- Sulfur Recovery Unit (SRU) Tail Gas
- Tank Vents

Proprietary Design Features

- Zeeco's AR/GS-1 High Energy pilot ignition system – can be successfully ignited and fired even when completely submerged underwater! (While this is not a typical application for our pilot ignition system, it is reassuring to know you can depend on your Zeeco thermal oxidizer pilot to light every time, no matter the weather conditions.)
- Full-color touchscreen interface (HMI) with built-in diagnostic capability
- Optional cellular telephone modem for remote monitoring and assistance

Performance Features

- Destruction Efficiency (DRE) up to 99.9999%
- NO_x emissions ≤ 10 ppm (vd) at 2% oxygen level
- H₂S emissions ≤ 5 ppm (vd) at 2% oxygen level
- NFPA-compliant burner management system (BMS)

Convenience Options

- Standard, off-the-shelf systems are available
- Skid mounting available: No cumbersome field wiring or piping between the thermal oxidizer and fuel rack
- Off-the-shelf 30' & 60' standard stack heights available
- Rental option available
- Rush delivery available

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 get a quick, efficient response. We are lean and efficient, able to make decisions quickly, without bureaucracy and red tape. 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.

Choose Zeeco.

Choose to work with our dedicated, flexible, and innovative team, and you won't be disappointed. Call or email us today to request a quote or to learn more about our proprietary combustion systems.





BURNERS



FLARES



THERMAL OXIDIZERS



PARTS & SERVICE



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