

ENCLOSED COMBUSTION SYSTEM



BURNERS | FLARES | THERMAL OXIDIZERS | VAPOR CONTROL | RENTALS | AFTERMARKET



Operated as Flare, Incinerator, or VCU



Skid Mounted for Easy Transportation and Setup



Anti-Flashback Burners for Safe Operation

Advanced Combustion Technology.

Zeeco is a global leader in innovative combustion and environmental solutions for complex applications in the refining, production, petrochemical, LNG, power, pharmaceutical, marine and offshore, and biogas industries. For nearly 40 years, Zeeco has designed, manufactured, and delivered engineered systems across the globe. Our extensive knowledge and experience across the industry has been brought together in our latest innovation – **The Zeeco Europe Enclosed Combustion System**. Put Zeeco's decades of experience to work on your most challenging flaring applications.

Enclosed Flame Systems.

Enclosed smokeless flaring of waste gases in populated, tightly controlled, or small footprint plants calls for our proven ZEECO® Enclosed Flare. From low pressure hydrocarbon gas streams to contaminated air streams, our systems provide consistent smokeless operation and high destruction efficiencies whilst satisfying all relevant European Specifications. If your plant space is limited or located near a population center or environmentally sensitive area, the experienced team at Zeeco will custom design an enclosed flare system to minimize visible flaring impacts at the plant boundary. From the ground up, our enclosed flares protect facilities, employees, reputations, and the environment worldwide.

The Zeeco Difference.

Zeeco's Enclosed Flares are available for rent, and conveniently stored at Zeeco's manufacturing facility in Europe. Skid mounted options allow for quick mobilization and easy installation. Our extensive support and service capabilities are at your disposal for any startup, rental, or permanent applications. With our service and support teams strategically located throughout Europe, Zeeco ensures our customers are satisfied and equipment is maintained with local, 24-hour turnaround and support.

Key Applications Include:

- Tank Degasifications (Railcar/Barge/Truck Loading Facilities)
- Vapour Recovery Unit Maintenance & Overhaul
- Enclosed Flaring Capabilities
- Basic Thermal Oxidiser

Design Features:

- Fully certified and compliant CE System
- ATEX controls system
- Skid mounted - no foundations or civil engineering required - therefore no footprint is left
- Wide range of flow rates, including up to 4800 gpm for vapour loading
- Destruction efficiencies up to 99.99% with sample ports for testing
- Full turndown capability
- Smokeless performance from 0% to 100% operation
- Completely hidden flame and zero emitted radiation
- Flame arrestors on inlet for flashback prevention
- Staged air assist by forced draft to facilitate better mixing and stoichiometric combustion at the burner assembly
- Natural draft dampers for chamber combustion air and temperature control of vapour combustor
- Thermowell and thermocouple for temperature monitoring of combustion chamber
- Fully automated controls system for automatic flame ignition and monitoring with electric or solar power
- Can be used as a thermal oxidiser, flare, or vapour combustor to meet local regulations and existing permits

Options Available:

- ZEECO Guardian™ for wireless monitoring and operation
- Assist gas for maintaining internal operating temperatures for high DRE
- Vapour blower for low/no pressure gas operation
- Solar-powered ignition system
- Auto or manual spark ignition
- Knock out drums and instrumentation
- Integrated dock safety system loading applications



ZEECO® Engineered Enclosed Flare



The Zeeco Difference

By concentrating on what we do best, Zeeco has grown into a worldwide leader in combustion and environmental 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.

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Certification applies to
Zeeco Headquarters.



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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.