

# VAPOR COMBUSTOR

Safely and Reliably Destroying  
Emissions for Cleaner Operations



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



# SAFELY AND RELIABLY DESTROYING EMISSIONS FOR CLEANER OPERATIONS

## **Zeeco: experts in vapor control systems for the terminal market.**

Whether you are loading trucks, rail cars, or marine vessels, you know how vital a reliable, economical vapor control system is to your day-to-day operation.

Zeeco's advanced Vapor Combustor Units (VCU) are designed to be the most reliable, cost-effective means to achieving Volatile Organic Compound (VOC) Destruction Efficiencies (DRE) up to 99.9%.

### **Key features of Zeeco's VCUs**

- USCG certified anti-flashback burners
- Dedicated, Variable Frequency Driven (VFD), air-assisted fan delivers combustion air directly to each burner pack
  - » Better combustion stability
  - » Eliminates smoking
  - » Better control and significantly reduced noise compared to single speed fans
- Burner packs can be staged to meet a wide range of operating requirements
- Automated dampers for more precise control of combustion air, which allows tuning of the VCU for optimal performance
- Designed for minimum pressure drop in order to ensure backpressure on truck rack is less than 18" WC
- Capacities
  - » As low as 3,600 gpm for truck loading
  - » As high as 50,000 bph for marine loading
- Standard emissions
  - » VOC DRE: 98% to 99.9%
  - » NOx: 0.12 to 0.20 lbs./MMBtu
  - » CO: 0.08 to 0.50 lbs./MMBtu
- PLC based control system with HMI

## **Proprietary low-NOx VCU available:**

Emission requirements in certain areas are becoming more and more stringent, particularly regarding NOx emissions. To address this, Zeeco has a proprietary low-NOx VCU that achieves NOx emissions of <0.06 lbs./MMBtu, while still achieving high VOC DRE and low CO emissions.

With units in operation for multiple years, this technology has proven to be reliable, safe, and effective at meeting lower NOx emissions.



*Zeeco's state-of-the-art VCUs*

## **ZEECO® marine vapor control solutions**

Zeeco designs and manufactures marine vapor control systems that are safe, reliable, and compliant with U.S. Coast Guard and the 33 CFR 154.

### **Dock Safety Units (DSU) include:**

- Pressure/Vacuum relief valve
- Filter upstream of detonation arrestor to prevent fouling
- Detonation arrestor
- Enrichment gas system
- Dual O2 analyzer

### **Vapor Blower Skids (VBS) include:**

- Knockout pot with high level alarm
- VFD driven vapor blower
  - » Multiple blowers can be installed for redundancy
- Detonation arrestor

## **Zeeco: your single-point solution servicing and maintaining your vapor control equipment**

With the fastest growing Aftermarket Service team in the industry, Zeeco's field service professionals are highly trained in the service and maintenance of ZEECO Vapor Combustor Units (VCU), Carbon Bed Vapor Recovery Units (VRU), Continuous Emission Monitors (CEM), DSUs, wet and dry vacuum pumps, vapor blowers and all related automations controls. Our team can support all other manufacturer's equipment.

Zeeco's field service professionals take part in the highest level of industry-required safety training and will show up to your site equipped with full PPE. Zeeco is registered with ISNET World, PICs, PECS, DISA, and many other safety regulators.

## **Zeeco has one of the largest fleets of combustion rental systems in industry**

Zeeco has an extensive fleet of portable vapor combustor units for long and short term rentals. Zeeco's trained field service technicians can have your rental unit up and running in no time.



*Zeeco's USCG compliant DSU*



*Zeeco's field service technicians in action*



*Zeeco's Zephyr portable VCU*



## 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.



Visit [zeeco.com/contact](https://zeeco.com/contact) for additional Global Location contact information



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.

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Certification applies to  
Zeeco Headquarters.