

HEATER ENGINEERING STUDIES

Troubleshooting, Repurposing, Upgrades, & Revamps

ZEECO[®]



WHY MIGHT YOU NEED A HEATER ENGINEERING STUDY?

Today's operators face increasing pressure to extract more value from existing assets—maximizing availability, boosting efficiency, and unlocking additional capacity—while keeping capital spending in check. As a result, many are rethinking how their fired heaters perform against current and future demands. In some cases, a focused burner retrofit delivers fast, cost-effective gains; in others, a full heater revamp provides the greatest long-term return. No matter the challenge, Zeeco's heater team delivers clear, data-driven insight to help you confidently select the right solution and achieve your performance, reliability, and operational goals.

WHAT DOES A HEATER ENGINEERING STUDY LOOK LIKE?

When you request an engineering study, Zeeco gathers and reviews all necessary information and can send a qualified combustion engineer with years of heater experience for a site visit. During the site visit, your specific needs are detailed and recorded while a Zeeco engineer inspects your equipment and understands your plant's process conditions and challenges. A report is then put together with recommendations for specific upgrades and changes to improve heater performance. Depending on the need, Zeeco can also run process simulations or Computational Fluid Dynamics (CFD) analysis to overcome constraints.

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BURNERS | FLARES | THERMAL OXIDIZERS | VAPOR CONTROL | RENTALS | AFTERMARKET | GLOBAL FIELD SERVICES | COMBUSTION ELECTRONICS

SOLVE FOR THE FOLLOWING PROJECTS AND INITIATIVES:

- › NO_x and CO Reduction
- › Fuel change studies
- › New operating conditions
- › Debottlenecking
- › Efficiency improvements
- › Equipment repurposing
- › Heater pulsation
- › Transfer line revamping
- › Safety system upgrades

HOW DOES ZEECO HANDLE HEATER DESIGN CHANGES?

In situations where a full replacement isn't possible, Zeeco can change the design of your heater to meet desired performance requirements. These changes may include modifications to the heater floor to support a more efficient burner or a different layout, replacement of radiant and convection coils to increase capacity or improve efficiency and reduce CO₂ emissions, additional instrumentation for improved heater control, and installation of an air preheat system, forced draft fans, or ductwork modifications to save on fuel usage.



ZEECO Global Field Services



Zeeco Sidefired Industrial Burners

TRUST ZEECO TO DELIVER THE CORRECT SOLUTION

With more than 45 years of experience, Zeeco is known around the world for its industry-leading equipment and service. With more than 30+ locations, seven in-house manufacturing facilities, and subject matter experts stationed around the world Zeeco has the ability to deliver quick solutions that help our customers ensure reliable, safe, and efficient operation of their plant.

ZEECO®

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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.

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Certification applies to
Zeeco Headquarters.