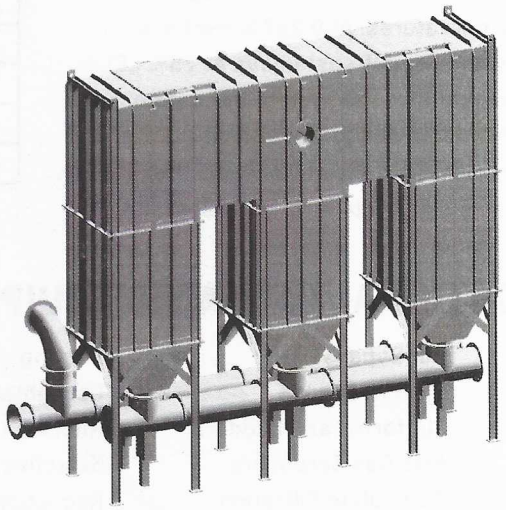
REGENERATIVE THERMAL OXIDIZERS

4700 South Garnett Road | Tulsa, OK 74146 USA | +1 (918) 258 8551 | zeeco.com

EFFICIENT EMISSIONS CONTROL

When compliance matters and efficiency counts, Zeeco's Regenerative Thermal Oxidizers (RTO) deliver. Engineered for industries handling dilute VOC emissions, our RTOs destroy pollutants with exceptional thermal efficiency, all while reducing operating costs and supporting environmental goals.



WHY CHOOSE AN RTO?

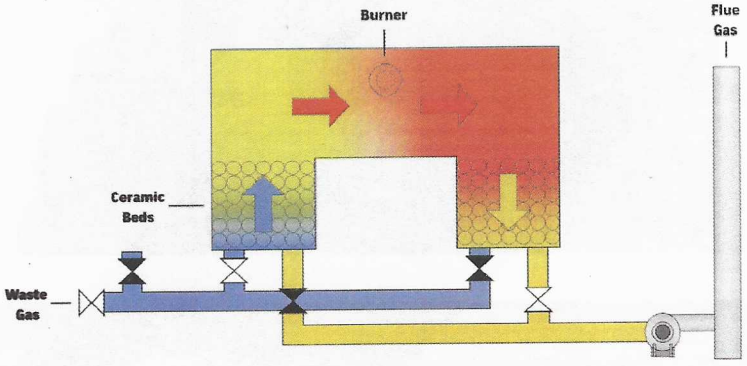
Regenerative Thermal Oxidizers are ideal for handling low-concentration, high-volume air streams where other combustion systems fall short. By capturing and reusing heat, RTOs reduce fuel needs while maintaining destruction removal efficiencies (DRE) of 99% or more.

KEY FEATURES AND BENEFITS:

- >99% Destruction Removal Efficiency
- 97% Thermal Energy Recovery (TER)
- Low NOx and CO Emissions Limits
- Low-Maintenance Design
- Advanced Controls
- Standardized Modular Configurations (1,000 –100,000 Nm^3/hr)
- Multi-chamber Designs
- Custom Configuration

HOW THEY WORK

Regenerative Thermal Oxidizers destroy VOCs by heating waste gases to 850°–1,150°C (1,562°–2,102°F) in a high-temperature combustion chamber. As the gases pass through ceramic beds before and after combustion, heat is absorbed and then transferred to incoming air, significantly reducing fuel use. A valve system periodically reverses the airflow to maintain up to 97% thermal energy recovery. Once stable temperatures are reached, autothermal operation can begin, eliminating the need for continuous fuel when VOC concentrations are above 3.5g/Nm^3, depending on waste gas composition.



INDUSTRIES THAT USE RTOs

CHEMICAL & PETROCHEMICAL PLANTS

PAINT, COATING, & PRINTING FACILITIES

SEMICONDUCTOR & ELECTRONICS MANUFACTURING

FOOD & BEVERAGE PROCESSSING

PHARMACEUTICALS & HEALTHCARE PRODUCTION