Regenerative Thermal Oxidizer (RTO)

Most efficient oxidizer design and best suited for high volume low concentrations

RTO Description
- VOC-laden process air enters the RTO through the inlet manifold
- Poppet valves direct this gas into the first energy recovery chamber where it is pre-heated
- The VOCs are oxidized in the combustion chamber at a typical temperature of 1500°F
- The hot gas exits the combustion chamber through the second energy recovery chamber where the heat is absorbed by the ceramic heat exchange media
- Poppet valves direct this clean gas to the clean air stack
- The airflow is reversed by the poppet valves an average of every 120 seconds
- An optional VOC compensation or puff capture chamber may be added to accumulate the bypassed process air stream during the valve reversal
- The heat recovery efficiency of the system is up to 95%
- The VOC destruction efficiency of the system is typically 98%, 99% achieved with the addition of the optional VOC compensation chamber.

Product Features and Benefits
- Volatile Organic Compounds (VOC) destruction efficiency up to 99%
- Heat recovery efficiency up to 95% lowers fuel consumption
- Structured and random ceramic heat transfer media
- Standard two tower design is an economical solution for most air pollution control needs. Custom tower design available based on application
- Typical unit sizes - 1,000 to 100,000 scfm
- Skid mounted units up to 10,000 (scfm) offer cost effective and turnkey installation
- Quality components provide long life expectancy, reliable operation, and low maintenance
- Optional Features include:
  - Recirculation
  - Hot side bypass
  - VOC compensation (puff capture) chamber
An Emissions Technology Company, has a diversified base with five (5) major business units:

- Catalyst
- Industrial
- Exhaust
- Power Emissions
- Contract Manufacturing

CCC’s products use patented technology to reduce the output of NOx, CO, PM and VOCs that are harmful to the environment and its inhabitants.

Catalytic Combustion Corporation is skilled and experienced at understanding complex air quality requirements and providing customized solutions for customers. With headquarters in Bloomer, Wisconsin, CCC has grown to encompass more than 100,000 sq. ft. of manufacturing and office space along with support offices for field operations throughout North America. Catalytic Combustion is ISO 9001 Certified.

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