

Thermal oxidisers

Technology
for a
sustainable future

Thermal oxidation is a well established method of treatment for process exhaust gases containing volatile organic compounds. It can also be very effective in treating organic liquid waste streams contaminated with toxic materials. The process operates in the range of 750 -1100°C.

Maximum efficiency from thermal oxidation systems is achieved when there is:

- Homogeneous distribution of the organic contaminants in the waste stream
- Well balanced oxygen supply to the combustion chamber
- Adequate residence time
- Even temperature distribution within the chamber

ERG can design a system that is appropriate for your requirements including:

- Direct fired oxidation
- Recuperative thermal oxidation
- Regenerative thermal oxidation

By carefully designing the system to cater for the expected inputs, the resulting flue gases can usually be discharged to the atmosphere without further treatment.

Our systems have the following features:

- Up to 2 seconds residence time
- Solvent concentrations up to 40% LEL
- Aqueous or organic liquid and gaseous effluent combustion
- Air flow turndown capability up to 5:1
- VOC, CO, and NO_x emission limit guarantees
- Burner designs that require no additional combustion air
- Secondary heat recovery options
- Gas or oil fired systems

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