

AQUEOUS REGENERATIVE THERMAL OXIDIZER

METHOD OF ABATEMENT

Some of the harshest pollution control applications are in the rendering field of the food processing industry. The waste stream can contain odors, ammonia, fats, grease, water and other vapors, and even particulate matter, all in a wide-ranging mix. GCES' custom designs systems to handle these difficult processes based on each facilities waste output and goals. Included in our solution is the Aqueous RTO wastewater destruction system with capabilities that allow for processing of both air and water pollution simultaneously. The process is controlled through metered injection of the water into a pre-heated inlet stream into the oxidizer for complete destruction using the standard oxidation process.



ADVANTAGES

- Capable of handling vapor heavy streams
- Compared to other emission control technologies, Regenerative Thermal Oxidizers (RTO) are particularly reliable and carry a low operating cost
- This high energy efficiency comes in at around 95% and even, in some circumstances, up to 99%, greatly reducing fuel consumption
- Preferred method of oxidation, because of its variety of uses and applications
- Design simplicity
- Durability
- No metal expansion issues
- High thermal efficiency
- Achieve high levels of VOC destruction, to keep processes well below required DRE emission levels
- Low NOx operation
- Perfect solution for continuous operation
- Several customizable options, based on specific output and applications, often allowing for a reduction in cost.
- Eliminates as much as 99% of VOCs, which meets all EPA requirements for MACT, RACT, BACT, and LAER