



# Tail Gas Treatment

## Regenerative Thermal Oxidation

Dürr can provide a tail gas treatment system for all popular biogas upgrading technologies, including water scrubbing, pressure swing adsorption (PSA) and membrane systems.

The systems are designed to handle a wide range of methane content and, in most cases, run fuel-free utilizing the tail gas as the energy source.

### HIGHLIGHTS



- Flameless operation available
- >97% thermal efficiency possible
- Effective odor control

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## Regenerative Thermal Oxidation

### Oxi.X RM

#### REGENERATIVE THERMAL OXIDIZER

The Oxi.X RM, formerly known as Millennium®, regenerative thermal oxidizer (RTO) from Dürr combines cost saving metallurgies with heat recovery capabilities. It comes complete with O<sub>2</sub> sensors to control the necessary dilution air and operates with natural gas injection for additional fuel savings.

Oxi.X RM redefines the economics of clean air compliance in low flow applications. This compact system is designed specifically for the process at flows extending to 80,000 SCFM, while providing the efficiency, effectiveness, and reliability at very affordable capital, installation and operating costs.

### Oxi.X RV

#### FLAMELESS REGENERATIVE THERMAL OXIDIZER

The Oxi.X RV, formerly known as Vocsidizer®, is a flameless regenerative thermal oxidizer developed specifically for tail gas treatment. This system utilizes our patented flameless single-bed thermal oxidation process. It has the ability to operate at lower oxygen levels, down to 3%, compared to burner-based systems. It also has negligible thermal NO<sub>x</sub> generation due to its flameless operating system.

#### ADDITIONAL FEATURES INCLUDE

- Electrically heated operation, which requires no gas injection and the opportunity to run self-sustained
- An operating temperature range of 1,625°F-1,922°F, which ensures efficient destruction
- A compact skid-container system design that minimizes the footprint and site requirements



Oxi.X RM RTO



Oxi.X RV flameless RTO



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