



# Oxi.X RC

## Regenerative Thermal Oxidizer

The Oxi.X RC regenerative thermal oxidizer (RTO) from Dürr Megtec delivers simplicity and cost-effectiveness in a two-chamber, single vessel with 99+% VOC destruction. With thermal efficiencies of up to 97%, the Oxi.X RC provides exceptional operating economy. For many applications, this particular regenerative thermal oxidizer will run in a self-sustaining mode with no additional fuel required to destroy VOCs. The product was formerly known as CleanSwitch®.

The Oxi.X RC RTO keeps cleaned air totally separate from dirty process exhaust. The valve utilizes a double-air seal and is the only moving part in the unit. The unique design of this RTO, along with the switch valve, virtually eliminates pressure spikes, resulting in a smooth flow transition between heat recovery chambers. The innovative design makes the Oxi.X RC unit the best solution for pressure-sensitive processes.

### HIGHLIGHTS



Single unit: 20,000 to 90,000 SCFM

VOC destruction efficiency: 99+%

Thermal efficiency: 95 to 97%

Autothermal operation: 3 to 4% LEL

Patented switch valve

Simple, modular design

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### SIMPLE, MODULAR DESIGN

Designed to reduce complexity, the Oxi.X RC RTO provides cost benefits with its flexible, modular design. Units up to 65,000 SCFM are supplied skid-mounted for fast installation time. These units are 99% factory assembled for a simple and economical installation. A climate-controlled, skid-mounted control room is included for easy access to controls in any type of weather.

### PERFORMANCE ADVANTAGES

- Single valve — non-contacting, non-wearing, positive sealing via high-pressure air provides trouble-free operation, resulting in low maintenance costs
- Electric valve drive delivers quiet operation and reliable performance even in severe climate conditions
- Smooth valve switching with negligible pressure fluctuation for better energy efficiency
- Media chamber — positive separation of media beds without metal divider walls
- Ceramic media bake-out for easy removal of organic deposits
- Cost-effective, engineered ceramic heat exchange media beds with low-pressure drop reduces electrical operating costs
- Thermal efficiency up to 97% provides reduced operating fuel costs

### DESIGN FEATURES

- Proven design — over 400 installations since 2000
- Climate-controlled, skid-mounted control room simplifies installation and provides easy access to the controls
- Factory pre-assembled, pre-wired and pre-tested to provide significant savings of time and money during installation and start-up
- Optional secondary heat recovery by air, hot water, thermal oil, steam, electricity generation or adsorption cooling
- Multiple fuel options include natural gas, propane, butane, fuel oil, and gaseous or liquid biofuels
- Optional hot-side bypass system for use in high solvent loading applications



Application of six Oxi.X RC units



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