CleanSwitch® Regenerative Thermal Oxidizer (RTO)
High-Efficiency VOC Destruction

www.durr-megtec.com
The CleanSwitch® 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 CleanSwitch® RTO provides exceptional operating economy. For many applications, the CleanSwitch® RTO will run in a self-sustaining mode with no additional fuel required to destroy VOCs.

**Patented Switch Valve**

The CleanSwitch® RTO takes its name from the Dürr Megtec patented switch valve that 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 simple oscillating design promotes uniform air distribution and results in a maintenance-friendly unit.

The unique design of the CleanSwitch® 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 CleanSwitch® RTO unit the best solution for pressure-sensitive processes.

**Simple, Modular Design**

Designed to reduce complexity, the CleanSwitch® 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.
Design Features and Performance Advantages

- Proven design — over 300 installations since 2000
- VOC destruction efficiencies of 99+% to help meet stringent regulatory codes
- Thermal efficiency up to 97% provides reduced operating fuel costs
- 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
- Climate-controlled, skid-mounted control room simplifies installation and provides easy access to the controls
- Smooth valve switching with negligible pressure fluctuation for better energy efficiency
- Factory pre-assembled, pre-wired and pre-tested to provide significant savings of time and money during installation and start-up
- 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
- 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 bio fuels
- Optional hot-side bypass system for use in high-solvent load applications

35,000 SCFM
40,000 SCFM
50,000 SCFM
165,000 SCFM total in three-unit system