LEADING IN
PRODUCTION
EFFICIENCY

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Oxi.X RM

Regenerative Thermal Oxidizer

Regenerative thermal oxidizers (RTOs) from Dürr offer proven volatile organic compound (VOC) destruction performance capabilities and a range of operating cost advantages for low-flow process applications. The Oxi.**X** RM RTO, formerly known as Millennium®, redefines the economics of clean air compliance when compared with other VOC control technologies typically deployed in high-flow process applications. This unique, compact system can meet the needs of a wide variety of industrial applications at flows extending to 20,000 SCFM. This particular RTO combines operating efficiency, destructive effectiveness and overall reliability with very affordable capital, installation and operating costs.

The system features integrated ductwork, individual poppet valves, and a unique, single-box configuration. These features save on both capital and installation costs. The compact, space-saving unit offers considerable installation flexibility. Systems for either indoor or outdoor placement are available, and the relatively light weight of the Oxi.**X** RM RTO easily permits rooftop installation.

HIGHLIGHTS

- Flow capacity: Up to 20,000 SCFM
- VOC destruction: Typically 98-99%
- Thermal efficiency: Up to 97%
- System fan: Forced draft w/VFD
- Optional secondary heat recovery possible

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SUPERIOR FUEL EFFICIENCY

The system delivers thermal efficiencies up to 97 percent. Even at relatively low solvent concentrations, the system can sustain thermal conditions with the heat released during VOC oxidation, thereby requiring no additional fuel.

REGULATORY COMPLIANCE

The small, entrained volume of the Oxi**.X** RM RTO holds VOC puffs to a minimum. The standard system can achieve up to 98 percent VOC destruction, which is sufficient to meet most clean air requirements. For higher cleanup rates, a VOC capture system is available. This option can be ordered as original equipment or field-installed at a later date.

FAST, SIMPLE INSTALLATION

The system is preassembled, prewired, prepiped and pretested at the factory. All units ship on commercial trucks. Installation and start-up time is kept to a minimum, typically requiring less than one week. Turnkey installations are available.

OPERATIONAL RELIABILITY

The Oxi**.X** RM RTO practically operates by itself. In standard configuration, the only moving parts are two reinforced poppet-style valves. An advanced electronic control system automatically tunes the system for high VOC destruction rates with maximum fuel efficiency.

REMOTE SUPPORT

The Track and Monitor package offers operators analysis and troubleshooting support via the connected gateway. The package features services that support daily work, including secure remote access, real-time monitoring and custom data analysis. This security-certified solution is compatible with corporate networks and avoids network interference.

PERFORMANCE FEATURES

- Energy-efficient variable frequency drive (VFD)
- Low pressure drop ceramic media
- Purge/idle makeup air damper
- Recirculation systems
- Hot-side bypass
- Secondary heat recovery plant energy requirements

The Oxi.**X** RM RTO offers the economic advantages of regenerative thermal oxidation exclusively for low-flow process applications.

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