



The Ceilcote Air Pollution Control NOx Removal (DeNOx) System is a tested means of removing both nitric oxide and nitrogen dioxide, plus the usual accompanying acids, from industrial process exhaust streams. The DeNOx System uses a multi-stage, wet chemisorption and packed tower technology for combination oxidation and/or reduction of the nitrogen compounds to eliminate the characteristic brown plume of NO₂ and oxidized NO. The fully automated system handles fluctuations in the inlet NOx concentration to optimize chemical usage.

BENEFITS

- Tested performance to levels less than 10 ppmv for both NO and NO₂.
- Eliminates visible emissions (brown plume) entirely.
- Simultaneous removal of other acid gases such as HCl, HF and HNO₃.
- Unlike other systems which use stack monitoring for control, the DeNOx System has an automated control arrangement designed to optimize chemical

usage and to allow for quick response to process upsets.

- Utilizes readily available commercial chemicals.
- Requires minimum maintenance.

FEATURES

- Proprietary scrubbing chemical removes NO₂ with up to 99% efficiency.
- Scrubbers are packed with our proprietary and uniquely efficient Tellerette® Tower Packing.
- Systems are state-of-the-art automated control systems that provide optimum response time to properly handle wide variations in contaminant loads.
- All equipment is constructed of corrosion resistant fiberglass reinforced plastic (FRP) to provide maximum service life.
- Complete systems can be provided including structural steel, access platforms, duct, fan stack, instrumentation and controls.

- Can be added to existing scrubbing equipment to meet new environmental regulations.

OPTIONAL FEATURES

- System designs can be customized for removal of NO₂ only, or both NO and NO₂, by varying the number of scrubbing stages.
- Systems range from two-stage to five-stage designs and can incorporate a prescrubber to recover acid or minimize chemical usage.

HIGHLIGHTS

Each DeNOx System has a full process warranty based on our extensive and respected in-house pilot testing and development. We provide substantial project support through our factory-trained technicians who are available for installation assistance, start-up and training. Service contracts for periodic inspection and maintenance are also available.

APPLICATIONS

For pickling and any chemical process where nitric acid works on metal and produces NOx, including the following industries and usages:

- Stainless steel and alloy production
- Semiconductor water production
- Specialty chemical processing
- Catalyst production
- Combustion



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