

Solutions for microSCR Applications for NO_x Reduction



WAHLCO Fully Integrated microSCR Systems

- Catalyst Modules
- Ammonia Delivery System
- Modeling & System Optimization
- Testing & Performance Guaranty

WAHLCO *micro*SCR

In response to EPA regulations affecting small scale industrial boilers, process heaters, generators, and burner equipment, WAHLCO is offering fully packaged NO_x and CO reduction equipment for these applications. WAHLCO can provide components or turnkey installations with our standard designed SCR systems to meet latest emission requirements.

Our expertise and focus is in microSCRs for industrial applications including:

- IC Engines and Small Turbines
- Package Boilers
- Process Heaters
- Furnaces
- Small Generator Packages
- Steam Cogeneration

WAHLCO microSCR designs allow for:

- High Quality Standards
- Low-Cost Base Models
- High Reliability
- Simple design
- Easy Installation
- Low Utility Costs
- Flexibility and Options for Custom Design

WAHLCO provides the following benefits:

- Fully integrated Ammonia and SCR system
- Sole Sourced Equipment
- Capabilities in all Ammonia Types: Anhydrous, Aqueous, and U2A[®] (Urea to Ammonia Conversion)
- Custom Engineering to Suit Each Application and Location
- Vertical and Horizontal Arrangements
- CFD & Scaled Model Offered as part of the SCR package
- Servicing: EPC Companies, Direct Utility, Refineries, other Industrial & Commercial Companies
- Meets AQMD PROPOSED RULE 1109.1

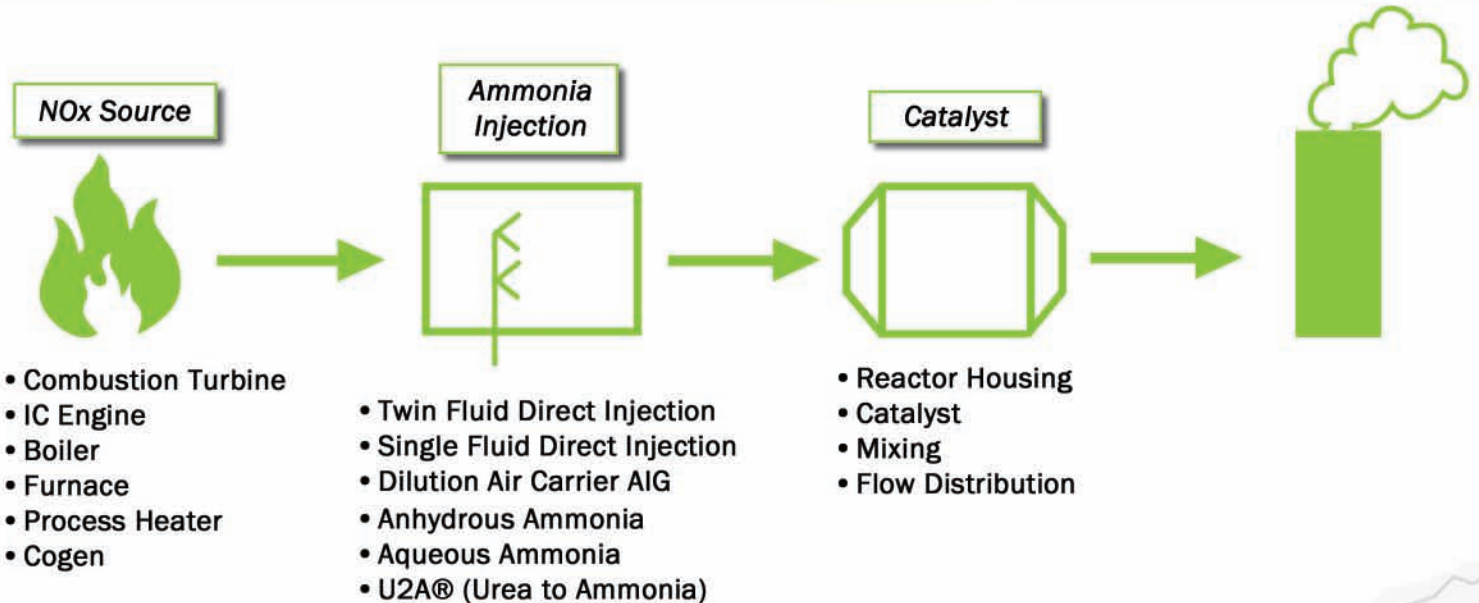


Ammonia Vaporizer Skid



SCR Catalyst

microSCR System



microSCR System Options

- System Design and Modeling
- Catalyst and Reactor Housing
- Truck Unloading Station
- Ammonia Storage Unit
- Ammonia Forwarding Pumps
- Ammonia Flow Controls
- Steam or Electric Ammonia Vaporization
- Dilution Air Blowers
- Ammonia Injection Grids
- Direct Reagent Injection Systems (no vaporization)
- Ammonia Direct Injection Lances
- Field Service and Aftermarket Support

Ideal candidates for the WAHLCO microSCR Systems:

- Reduction efficiencies required above 75% and up to 90+%
- Size range of 250,000 lb/hr or below of flue gas capacity
- Diesel, Natural Gas, Liquefied Petroleum Gas, Landfill Gas, Coal, or Biomass
- Standard range of approximately 450-750 °F exhaust gas temperature
- High temperature range option up to 950 °F

WAHLCO, Inc.

WAHLCO is a premier company specializing in the design and fabrication of flue gas conditioning (FGC), NOx control, and ammonia handling equipment for utilities, independent power producers, oil & gas refineries, pulp & paper mills, cement plants, and steel mills.

For over 40 years, WAHLCO has been supplying innovative air pollution control solutions to meet the needs of utility and industrial customers worldwide.

With over 500 installed systems in more than 17 countries, WAHLCO has become a world leading supplier of environmental equipment.

Environmental Systems for Air Pollution Control:

- Ammonia Systems
- NOx Reduction Systems
- Flue Gas Conditioning
- Thermocouple Arrays
- Tubular Electric Heaters
- Industrial Equipment



Markets

Small Industrial Boilers



- Airports
- Cogen facilities
- Correctional facilities
- Food processing
- Hospitals
- Hotels / resorts
- Independent power producers
- Laundry / dry cleaning facilities
- Oil and gas
- Pulp and paper
- Universities



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