

SCR™

Selective Catalyst Reduction System.
NOx control for diesel and natural gas
engine applications.

↓ NOX ↓ CO ↓ VOCs ↓ HCs ↓ HAPs ↓ PM10



DUAL-FUEL & LEAN-BURN

PRODUCT ADVANTAGE

Where NOx control is a challenge, MIRATECH® delivers the best SCR system, service, and product support for both diesel (Tier 4) and natural gas engine applications.

DESIGN, DELIVER, SUPPORT

Experience. With more than 2,000 units installed worldwide in water pumping, gas compression and power applications, MIRATECH brings unsurpassed technical expertise and over two decades of real-world experience to every MIRATECH SCR project. If there's a problem—or a potential problem—MIRATECH probably has already solved it. If a new issue arises, no one will get to the bottom of it faster.

WORLD-CLASS TECHNOLOGY

MIRATECH, an acknowledged world leader in the field, provides all the benefits of best available control technology.

- Consistently sets the standard for Best Available Control Technology (BACT)
- User-friendly communication and control technology connects to any building's communication systems
- U.S.-based Service & Support
- Fast-response field service & technical support
- Replacement components stocked in Tulsa, OK
- In-house engineering & custom product support

SCR™: SELECTIVE CATALYST REDUCTION SYSTEM



SCR INSTALLATION

EMISSIONS: CONTROLLED

MIRATECH's SCR catalytic converters reduce regulated exhaust pollutants for stationary reciprocating diesel, dual-fuel and lean-burn natural gas engines. These pollutants include oxides of nitrogen (NOx), carbon monoxide (CO), and unburned hydrocarbons (HC) comprising Hazardous Air Pollutants (HAPs) and Volatile Organic Compounds (VOCs). The MIRATECH SCR systems work in two efficient stages: the NOx Reduction Stage and the Oxidation Stage for CO and HC reduction. Both stages work together, drastically reducing harmful emissions to satisfy the strictest regulatory requirements. In the mixing section, either ammonia or aqueous urea is injected into the exhaust stream. Urea is often used instead of ammonia, as urea is less toxic, easier to transport and store, and allows easier permitting. Urea in this system is hydrolyzed and breaks down in the exhaust stream to form ammonia.

COMPLIANCE AND MORE

Most important of all, MIRATECH's SCR solutions give you assured compliance with less cost, less disruption of your operation and full support you can count on over the long haul. Using MIRATECH's SCR system, with microprocessor controlled hardware in the control panels, you won't have to deal with complex control panel assembly. MIRATECH's SCR systems give you a choice of reactant, ammonia or urea, for efficient atomization. And MIRATECH's SCR gives you a level of operations control that's simply unique to the industry.

WHY THE MIRATECH SCR SYSTEM?

- NOx Reduction for Tier 4 Compliance
- Up to 99% NOx Reduction
- Noise Reduction up to 52 dB(A)
- U.S.-Based Service & Support
- Global Experience

APPLICATIONS

- Stationary Reciprocating Engines
 - Lean-burn natural gas
 - Diesel and dual-fuel
- Power Generation
- Gas Compression
- Greenhouse CO2 Augmentation

NEED EMISSIONS AND ACOUSTIC SOLUTIONS?

Since 1992, MIRATECH has been at the forefront in helping industries handle emissions and acoustic standards. Whatever your emissions needs may be, count on us for solutions. Just give us a call, **1-800-640-3141**, or visit our website at **MIRATECHcorp.com**.

FEATURES & BENEFITS

2-Stage SCR System

- NOx reduction & oxidation NOx, CO, HC, HAPs, VOCs

3-Stage: SCR + DOC/DPF

- NOx, CO, HC, VOC, HAPs, PM

Efficient Reactant Atomization

- Urea or ammonia reductant
- Purge lines & air-assisted injection nozzle
- Designed for serviceability

Designed for Durability

- Carbon or stainless steel housing
- Aluminum or galvanized insulation sheathing
- Simple, quick bulkhead connections for wiring & plumbing

Designed for Ease of Use

- Advanced, user-friendly controls
- Safety shutdown & alarm controls
- Data & storage transfer
- Network communications