



# Oxidation CATALYSTS



## CLEAN SWEEP.

### *Cost-effective, Ongoing Lean-Burn Compliance.*

With lean-burn natural gas, propane or dual-fuel industrial engines, you face tough, twin challenges in exhaust emissions control – with stiff penalties for non-compliance.

Because there's excess air in the lean-burn fuel mix and exhaust stream, bringing oxides of nitrogen down to compliance levels requires a system specially dedicated to the job: **the MIRATECH SCR system.**



►MIRATECH Catalyst Manufacturing  
*Better Designed, Better Built.*

To handle the rest – carbon monoxide (CO), hydrocarbons (HC), volatile organics (VOCs), aldehydes and other hazardous air pollutants (HAPs) and more, your best bet is the **MIRATECH Oxidation Catalyst.**

Available in a wide range of sizes and shapes, the Oxidation Catalyst can be custom-tailored to fit virtually any space requirements, any brand of catalytic converter, and any budget.

For operators in load-variant power generation, gas compression, air compression, water, petroleum or liquids pumping, chillers, and a variety of other applications, it's like a breath of fresh air: an affordable, effective, no-hassle solution in CO, HC, VOCs and HAPs emissions control.

## CONTACT MIRATECH.

The MIRATECH Oxidation Catalyst is the most advanced, comprehensive and cost-effective Non-Selective Catalytic Reduction solution you can buy. To put the Oxidation Catalyst to work in your operation – or to find out more about other MIRATECH Emissions Solutions – simply give us a call. Or visit our website: [www.miratechcorp.com](http://www.miratechcorp.com)

## WHY MIRATECH?

- Advanced Technology
- Cost-Effective, Comprehensive Solutions
- Unsurpassed Experience & Expertise
- Fast, Responsive, Customer-Focused Service & Support
  - Prevent Non-Compliance Fines
  - Improve Engine & Catalyst Performance
  - Cut Maintenance Costs
  - Maximize Catalyst Life

## EMISSIONS SOLUTIONS

- Non-Selective Catalytic Reduction
  - 3-Way Catalyst Systems
  - Oxidation Catalysts
  - HAPs Catalysts
  - Diesel Oxidation Catalysts
- Catalyst Housings
  - MN/MBA
  - IQ
- Catalyst/Silencer Combos
  - QCC/QCH
  - RCS/RHS
- Active Regeneration Soot Traps
- SCR Catalyst Systems
- Nx Analyzers
- Analysis-Controlled Injection Systems
- Air-Fuel Ratio Control Systems
- Service Contracts
- Technical Support & Training
- MIRATECH Catalyst Services
- Replacement Parts

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## PARTNER-PLUS.

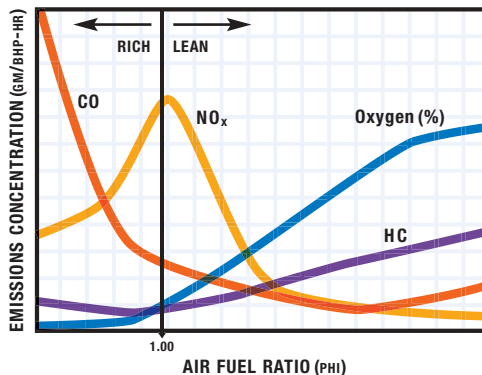
The MIRATECH Oxidation Catalyst gives you a reliable, low-cost, no-hassle solution in lean-burn engine CO, hydrocarbons, VOCs and HAPs. Together with MIRATECH SCR control of lean-burn engine exhaust NO<sub>x</sub>, the Oxidation Catalyst keeps your operation on the right side of the non-compliance fine-line, with easy installation and maintenance, less impact on engine performance, and fewer headaches for you and your people.

## BETTER DESIGNED. BETTER BUILT.

Our patented flat-top "bonnet" design eliminates blow-by and evens-out pressure across the catalyst face. In real-world operation, nothing prevents nesting or resists vibration and shock better than the MIRATECH catalyst's corrugated metal foil construction – with the multi-layered honeycomb design adding durability. Chemisorption catalyst impregnation produces a cost-effective, long-lasting element that resists masking and catalyst "poisoning." And the patented MIRATECH banding and pinning process is your assurance of superior mechanical strength and high-temperature tolerance.

Each element is wrapped in tough, 304 stainless steel for virtual indestructibility, as well as personnel safety. The hard

## UNCONTROLLED EMISSIONS: RICH-BURN & LEAN-BURN ENGINES

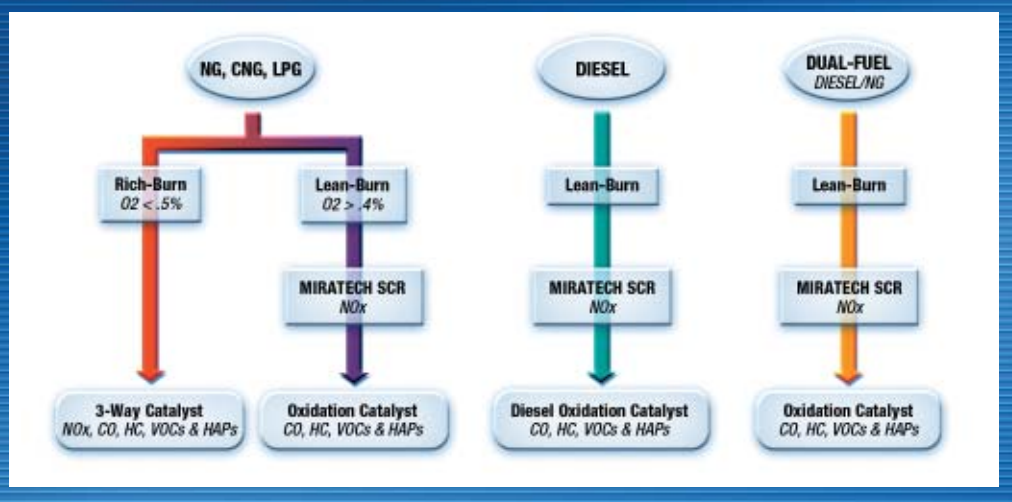


outer band, with its "Easy-Grab" lift-shelf, protects workers from injury and makes element insertion and removal quick and easy.

## MIRATECH REPLACEMENTS.

MIRATECH manufactures replacement elements for our MBA, EQ and IQ catalytic converters, as well as our RCS/RHS Catalyst-Silencer combos. Custom designs to replace elements from other manufacturers – with the hallmark quality, performance and value of MIRATECH Diesel Oxidation, 3-Way and Oxidation Catalysts – are also available.

## MIRATECH CATALYST SOLUTIONS



O<sub>2</sub>: Oxygen / CO: Carbon Monoxide / NO<sub>x</sub>: Oxides of Nitrogen / HC: Hydrocarbons / VOCs: Volatile Organic Compounds / HAPs: Hazardous Air Pollutants

## EMISSIONS SOLUTIONS: CONTACT MIRATECH.

Whatever your emission control needs may be, count on MIRATECH for solutions that pay off in benefits you can literally take to the bank. Contact us by phone, e-mail, or FAX – or simply visit our website: [www.miratechcorp.com](http://www.miratechcorp.com). Ask for your FREE subscription to our useful, fact-filled electronic newsletter, *THE EMISSIONS MONITOR*.



## WHY MIRATECH OXIDATION CATALYSTS?

Cost-Effective, No-Hassle,  
Lean-Burn Compliance:

- CO
- HC
- VOCs
- HAPs

- ▶▶ Better Designed
- ▶▶ Better Built
- ▶▶ Better Value

## APPLICATIONS

- ▶▶ Lean-Burn Stationary Engines  
Natural Gas, LPG, Dual-Fuel
  - Power Generation
  - Chillers
  - Gas Compression
  - Air Compression
  - Water Pumps & Irrigation
- ▶▶ Minimizes Catalyst Cost Of Ownership & Operation
  - Simultaneously Cuts CO, VOCs, Hydrocarbons, Aldehydes & Other HAPs
  - Prevents Non-Compliance Fines
- ▶▶ Quick & Easy Element Insertion & Removal
- ▶▶ Bonnet Design Eliminates Blow-By & Enhances Catalyst Efficiency
- ▶▶ Low Pressure-Drop
- ▶▶ Resists Vibration & Shock
- ▶▶ Minimizes Impact On Engine Performance
- ▶▶ Durable & Long-Lasting
- ▶▶ 304 Stainless Steel Metal Monolith: Virtually Indestructible-And Safer For Workers
- ▶▶ Patented Banded & Pinned Construction:
  - Superior Mechanical Strength & Thermal Durability
- ▶▶ Independent Corrugated & Flat-Foil Construction Honeycomb Design: Prevents Nesting, Masking & "Poisoning"
- ▶▶ One-Year Warranty