

HOUSINGS

IQ Catalyst


WHY MIRATECH IQ?

- **Patented Design - Perimeter Gasket Sealing**
- **Sensor NPT Ports**
 - Temperature, Pressure, 18mm O₂
- **Low Cost of Ownership**
 - First-Time Permit Certainty
 - Quick & Easy Maintenance
 - High Performance, Long Life, High Value

APPLICATIONS

- **Lean-Burn or Rich-Burn Engines**
 - 200-8000 hp
- **Natural Gas, LPG, Diesel or Dual-Fuel**
 - Gas Compression
 - Power Generation
 - Air Compression
 - Liquid or Petroleum Pumping
 - Irrigation Systems

FEATURES & BENEFITS

- **Flat-top Bonnet™ Element Design Eliminates Blow-By**
- **Easy Grab Handle Simplifies Maintenance**
- **Perimeter Gasket Provides Durable and Reliable Seal**
- **Next™ Element is Virtually Indestructible**
 - Mechanical Locking Foil Resists Damage from Backfires
 - High Turbulence Enhances Catalysts Performance
 - Thermal Durability Delivers Longer Life
 - Free Catalyst Washes for Life Provides Low Cost of Ownership and Peak Performance
- **Catalyst Slots for One or Two Elements Gives Users Flexibility to Improve Emissions Reductions**
- **Standard Catalyst Health Monitoring**
 - Pre & Post Catalyst Temperature
 - Pre & Post Neck Flange Pressure
 - Post Catalyst O₂ Sensing
- **Inlet Screen Provides Surge Protection & Flow Diffusion**

THE SMART CHOICE
Low Cost, High Value Catalyst Reduction

With the MIRATECH IQ catalyst housing, low cost of ownership starts Day One — with design and functional specification to first-time permit certainty and easy installation. And that's just for starters.

With ongoing compliance assured, add in big savings from quick, easy and infrequent maintenance, fewer parts to service and inventory, and long-lasting, hardworking, no-hassle performance month after month.

Bottom line: The IQ is the low-cost, dollar-wise industrial catalyst system for engines running on natural gas, propane, diesel and dual-fuel requiring Non-Selective Catalyst Reduction (NSCR) catalysts.

EMISSIONS REDUCTIONS		
FUEL	REDUCTIONS	CATALYSTS
Rich-burn Natural Gas	Up to 99% NOx Up to 99% CO Up to 99% CH ₂ O Up to 90% VOCs	3-Way Catalyst
Lean-burn Natural Gas Propane or Dual-Fuel	Up to 99% CO Up to 99% CH ₂ O Up to 90% VOCs	Oxidation Catalyst for Gas Engines
Diesel	Up to 98% CO Up to 98% VOCs Up to 30% PM	Diesel Oxidation Catalyst

INSTALLED COMPLIANCE

When a MIRATECH NSCR catalyst is installed, the IQ system cuts a wide range of regulated emissions down to compliance levels: For lean-burn and diesel engines this includes — carbon monoxide (CO), hydrocarbons (HC), volatile organic compounds (VOCs), odor and hazardous air pollutants (HAPs); For rich-burn engines, the 3-way catalyst equipped IQ also ensures compliance with rules for oxides of nitrogen (NOx), carbon monoxide (CO), VOCs, and HAPs.

CONTACT MIRATECH

Quick to install and a breeze to maintain, IQ sets the standard in cost-efficient catalytic performance. Call MIRATECH or get a quote from the website to find out how quickly and easily you can put the IQ or any of the MIRATECH Innovative Emissions Solutions to work for you. www.miratechcorp.com



IQ Housing Paint Process

HOUSINGS IQ Catalyst

THE IQ ADVANTAGE

MIRATECH designs and builds IQ catalyst systems with one objective: minimize the lifetime costs of ownership in a flexible, high-performance, high-value Non-Selective Catalytic Reduction system.

FULL SUPPORT: WHATEVER IT TAKES

When a MIRATECH innovative emissions solution is shipped to your job site, that's the beginning, not the end, of the MIRATECH commitment.

MIRATECH backs every product — and every customer with full support. If there's a question, MIRATECH will answer it. If there's a problem, MIRATECH will fix it — whatever it takes.

MIRATECH stands ready to assist you over the longer haul, too, with a full spectrum of ongoing service contracts, on-site technical support and training programs designed to take emission control issues off your busy agenda. MIRATECH also offers cost-effective, high-value catalyst replacement elements, as well as washing and repair services, through the MIRATECH Catalyst Services program.

BETTER DESIGNED BETTER BUILT

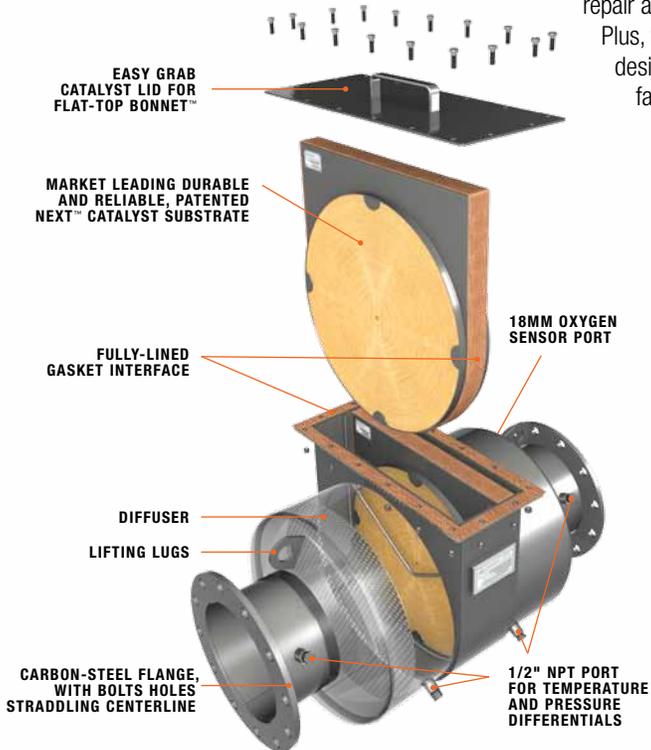
The tough, durable IQ housing is made of A-36 carbon-steel or 304 stainless — your choice — with bolt holes straddling the centerline. Inside the easy-access catalyst lid, you'll find one of a long line of MIRATECH innovations: the Flat-Top Bonnet™ design catalyst element with improved gasket material for a better seal.

Together, these eliminate blow-by, sagging and telescoping, while evening-out pressure across the catalyst surface and maximizing catalyst efficiency. The result? You get more out of your catalyst investment.

Each MIRATECH catalyst element features a multi-layer corrugated metal and flat foil honeycomb structure to prevent nesting. As well, chemisorption catalyst impregnation process produces a long-lasting washcoat that resists catalyst "poisoning." The metal monolith construction along with NEXT® substrate is your assurance of superior mechanical strength and thermal durability.

Bottom-line: MIRATECH catalyst elements work harder and last longer — with lower maintenance, repair and replacement costs along the way.

Plus, the IQ catalyst element Flat-Top Bonnet design includes the "Easy Grab" lift, for faster, easier and safer element handling.



IQ SIZES		
MODEL #	WIDTH	LENGTH
10	10"	28"
12	12"	30"
14	14"	32"
16	16"	34"
18	18"	34"
20	20"	37"
22	22"	41"
24	24"	42"
26	26"	45"
28	28"	45"
30	30"	53"
34	34"	57"
36	36"	61"
38	38"	65"

Pressure Drop: 3-6 "WC

Learn More: Phone · Email · Web · "The Emissions Monitor" Subscription

NSCR · SCR · DPF · Silencers · AFRC · NESHAP CPMS · Field Service · Training · Turnkey



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WHY MIRATECH?

- Advanced Technology
- Product Range: 20 to 20,000+ hp
- Innovative, Cost-Effective, Comprehensive Emissions Solutions
- RICE NESHAP Compliant
- Turnkey Projects
- Unsurpassed Experience & Expertise
- Fast, Responsive, Customer-Focused Service and Support
 - Prevent Non-Compliance Fines
 - Improve Engine & Catalyst Performance
 - Cut Maintenance Costs
 - Maximize Catalyst Life
- Full Service Catalyst Wash & Repair
 - 'Free Wash for Life' on Next® & Vortex® Substrates
- Project Management
- Onsite Services
 - Supervision
 - Technical
 - Skilled
- Product O&M Training
- Replacement Parts

EMISSIONS SOLUTIONS

- Catalysts
 - 3-Way
 - Oxidation (Natural Gas & Diesel)
 - HAPs
 - Selective Catalytic Reduction (SCR)
 - Urea Hydrolysis
- Housings
 - NX
 - IQ
 - CBS
 - CBL
 - Silencer Combinations
 - VX Series
 - RX Series
 - ZX Series
 - Ground Access
- Controls
 - SCR
 - Active DPF
 - Air Fuel Ratio (Rich & Lean Burn)
 - Monitors
 - RICE NESHAP
 - DPF