



**Emission  
Solutions**

# RETROFIT SOLUTION. 3-WAY CATALYST.

■ For Rich Burn  
Natural Gas  
Engines.

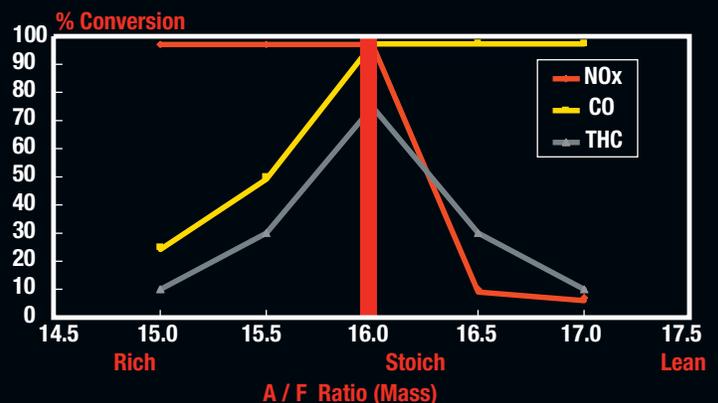
■ Simultaneously reduces NOx, CO,  
and THC emissions and can destroy  
up to 99% of pollutants, including  
Acetaldehyde, Formaldehyde, Acrolein  
and Methanol.



■ Single or multi element  
catalytic converter

■ The substrate design is highly resistant  
to mechanical shock, thermal shock  
and metallurgic erosion.

## 3-Way Catalyst Performance Curve



## Every Solution.

Cummins Emission Solutions is a leader in catalytic exhaust products. With over 2 million units in service today, we deliver products that work through our legacy of technology, our 30 years experience in exhaust engineering and manufacturing and our partnerships with the best suppliers of emission control components in the market today.

Cummins Emission Solutions 3-Way Catalyst single or multi element catalytic converter fits new and retrofit units. **The 3-Way Catalyst uses Johnson Matthey's technology for the 3 way conversion of NOx, CO and THC emissions from natural gas engines. This aftertreatment device can destroy up to 99% of these pollutants, including Acetaldehyde, Formaldehyde, Acrolein and Methanol, by converting them into environmentally safe nitrogen, carbon dioxide and water.**

The converters reduce emissions from rich burn (stoichiometric) natural gas engines that are rated from 49-500 hp and are available in a variety of standard sizes for retrofit or new applications for Cummins and other engine manufacturers.

## Engineered for Performance.

Providing easy access, superior performance, flexibility and availability in a variety of sizes, the 3-Way Catalyst catalytic converter is a smart choice for emissions control. As your needs or as regulations change, compliance is as simple as locking in another element.

States and regions have varying requirements for emissions reductions. This table indicates the 3-Way Catalyst meets a wide range of requirements.

Emissions Reductions in gm / bhp-hr to meet Regional Requirements						
NOx	2.00	1.00	0.60	0.30	0.15	0.07
CO	2.00	1.00	0.60	0.50	0.60	0.60
THC	1.00	0.75	0.60	0.60	0.15	0.15



*Cummins Emission Solutions single or multi-element 3-Way Catalyst sets the industry standard in dependability and performance.*

## The 3-Way Catalyst is fully engineered, tested and provides:

- Simultaneously reduce NOx, CO, and THC emissions and can destroy up to 99% of pollutants, including Acetaldehyde, Formaldehyde, Acrolein and Methanol
- Stainless steel, thin-walled honeycomb catalyst element
- Durable and highly dispersed platinum group metals featuring excellent catalytic activity and poison resistance
- Stainless steel exterior housing
- Quick release clamps for easy maintenance
- Off the shelf availability for the most popular sizes
- An option to include an additional catalyst element as needs or regulations change
- Cummins Emission Solutions dependability

## Technology That Works.

The catalyst element is built with state-of-the-art technology that delivers superior strength and durability by bonding each layer of the catalyst to the other. This creates resistance to element sagging, distortion and unraveling due to engine-induced temperature changes or mechanical stress.

The 3-Way Catalyst's advanced technology and proprietary composition and design of the 3-Way Catalyst ensure maximum performance. The substrate, consisting of a thin-walled stainless steel honeycomb structure, is highly resistant to mechanical shock, thermal shock and metallurgical erosion.

## Connect to a World of Engine Expertise.

Cummins Emission Solutions provides technologies to protect your equipment and keep it running clean and strong. Supported by the Cummins North American distributor network and Cummins worldwide, our systems bring real value to you – from installation through the life of the product. Choose the emission-reduction leader backed by the Cummins' legacy of technology for your complete equipment needs. Choose Cummins Emission Solutions.



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