



## clean air power aftertreatment technologies

cost effectively meets or exceeds  
strict emissions regulations

**C**lean Air Power, a leader in developing emissions reduction technology for more than 30 years, provides a full line of emissions reduction solutions to help you to meet or exceed emission regulations with cost efficient catalyst/silencer solutions.

### **DeNOx SCR Silencer**

*for diesel, lean burn gas & Dual-Fuel engines*

The DeNOx SCR Silencer utilizes Selective Catalytic Reduction (SCR) technology. It employs ammonia or urea injection with a catalyst formulated for high reduction of NOx. An oxidation catalyst is typically incorporated to reduce other pollutants, such as carbon monoxide (CO), unburned hydrocarbons (HCs), volatile organic compounds (VOC's), and hazardous air pollutants (HAPs).

### **Three-Way DeNOx Silencer**

*non-selective catalytic reduction (NSCR)*

*for rich burn gas engines*

Clean Air Power's Three-Way DeNOx Silencer uses Non-Selective Catalytic Reduction (NSCR) technology. Exhaust emission control is dependent on an engine air/fuel ratio controller that maintains the oxygen content within a tight operating window to achieve high conversion of NOx, CO, and other pollutants. The air/fuel ratio controller can be supplied by Clean Air Power or a third party controller can be used. Certain models have an integral backfire port to minimize damage from engine backfires.

### **DeSOPH Silencer Oxidation Catalyst**

*for diesel engines*

The DeSOPH silencer utilizes an oxidation catalyst to destroy smoke, odor, particulates and hydrocarbons in diesel engine emissions. Carbon monoxide and HAPs, such as formaldehyde are also destroyed. Our oxidation catalysts are extremely durable and cost effective. This is a passive system with no reagents or moving parts.

### **DeCOHx Silencer Oxidation Catalyst**

*for lean burn gas engines*

The DeCOHx Silencer utilizes an oxidation catalyst to remove carbon monoxide and hydrocarbons, including VOCs, and HAPs. Certain models have an integral backfire port to minimize damage from engine backfires.

### **Integrated Catalyzed Particulate Filter (CPF) and Silencer**

*for stationary diesel engine*

Although diesel particulates are only about 100 nanometers in size, they pose a serious health risk. Governments are now taking action against the effects of particulate emissions and mandating that diesels either produce less soot or stop service altogether. When particulate reduction is the primary concern, the CPF silencer is an excellent choice. Unlike active systems, which require the introduction of a heat source to burn diesel particulate, the CPF is a passive system with the advantage of precious metal catalyst to burn the particulate at comparatively low exhaust temperatures. Integrating the particulate filter and silencer allows the engine backpressure to remain below the manufacturer's maximum allowable limit, when properly applied. The CPF also reduces smoke, odor, hydrocarbon, carbon monoxide and some HAP emissions.



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*A full line of  
emissions reduction solutions  
to address widespread  
health and environmental  
issues.*

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### features

- **Meets or exceeds emissions regulations** – significantly reduces emissions to comply with federal EPA, state, and other air quality district regulations.
- **Easy, inexpensive installation** – flexible designs contribute to optimization of the exhaust system for lower installed cost.
- **Long life** – robust housing design extends product life.
- **Reduced maintenance costs** – housings are typically not replaced when a replacement catalyst is required. Replacement catalysts are available at a fraction of the cost of new converters from competitors and can often be repaired or cleaned to extend service life.
- **Two year performance warranty** – comprehensive performance warranty and reliable customer service makes Clean Air's aftertreatment products the reliable answer to your compliance needs.
- **Superior material selection and construction** – materials are selected based on each application to ensure durability and high performance.
- **Superior noise reduction** – catalytic silencer products are offered in industrial, residential, hospital grade or custom silencing levels.

### technical specifications

	CPF Silencer	DeSOPH Silencer	DeCOHx Silencer	DeNOx SCR Silencer (with integrated oxidation catalyst)	3-Way (NSCR) DeNOx Silencer
Fuel	diesel	diesel	lean-burn gas	diesel, lean-burn gas and Dual-Fuel	rich-burn gas
PM reduction	70% - 90%	✓	N/A	✓ (diesel and Dual-Fuel only)	N/A
HC reduction (non-methane, non-ethane hydrocarbons)	✓	up to 70%	up to 70%	up to 70%	up to 70%
HAP & aldehyde reduction	✓	up to 98%	up to 98%	up to 98%	up to 98%
CO reduction	✓	up to 98%	up to 98%	up to 98%	up to 99%
NOx reduction	N/A	N/A	N/A	up to 98%	up to 99%
VOC reduction	✓	up to 70%	≤ 70%	up to 70%	up to 70%
Odor reduction	✓	✓	N/A	✓ (diesel and Dual-Fuel only)	N/A
Smoke reduction	✓	✓	N/A	✓ (diesel and Dual-Fuel only)	N/A
Integrated silencer	✓	✓	✓	✓	✓
Vertical design option for reduced footprint and/or lower pressure drop	N/A	✓	✓	✓	✓
Multiple end connection configurations available	✓	✓	✓	✓	✓



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