

Your Diesel Engine Emission Control Just Got Easier!

Diesel engines are widely used for their durability, efficiency, and reliable power output; however, they are also subject to increasingly stringent emissions regulations that require effective control of key pollutants across a wide range of applications.

The MD300™ is a U.S. Environmental Protection Agency (EPA) verified Diesel Oxidation Catalyst (DOC) system engineered for 4-cycle, constant-speed diesel engines ranging from 100 to 750 hp (75-560 kW). It is well suited for applications including power generation, gas compression, co-generation, pumping stations, and irrigation equipment operating under Tier 1, Tier 2, or Tier 3 standards

At the core of the MD300™ is a high-efficiency catalyst system utilizing a temperature-resistant metallic substrate coated with a proprietary precious metal formulation. This advanced design promotes controlled oxidation, enabling effective reduction of carbon monoxide (CO), hydrocarbons (HC), volatile organic compounds (VOCs), and hazardous air pollutants (HAPs), while also reducing particulate matter (PM) through oxidation of the soluble organic fraction (SOF). When optimized for specific engine operating conditions, the system is capable of achieving up to 98% reduction in CO, up to 94% reduction in hydrocarbons (HC), along with associated reductions in VOCs and HAPs, and greater than 24% reduction in PM.*

The MD300™ is designed to deliver consistent performance across a range of operating conditions. Catalytic activity begins at approximately 180°C (360°F), with optimal efficiency achieved at exhaust temperatures above 250-300°C (480-570°F). Performance is influenced by factors such as exhaust composition, catalyst configuration, and engine operation.

Available in both stand-alone and integrated silencer configurations, the MD300™ provides flexible installation options while combining emissions control with industry-standard sound attenuation levels. The system is constructed from mild steel, aluminized steel, or stainless steel to ensure durability and long-term reliability in demanding environments.

An optional data logger enables continuous monitoring of differential backpressure and exhaust gas temperatures across the catalyst, supporting system diagnostics and ensuring compliance with the U.S. Environmental Protection Agency (EPA) Reciprocating Internal Combustion Engines National Emission Standards for Hazardous Air Pollutants (RICE NESHAP).



MD300™ Diesel Oxidation Catalyst

scan and learn



Sold and supported globally, Nett Technologies Inc., develops and manufactures proprietary catalytic solutions that use the latest in diesel oxidation catalyst (DOC), diesel particulate filter (DPF), selective catalytic reduction (SCR), engine electronics, stationary engine silencer, exhaust system and exhaust gas dilution technologies. Our reliable and real-world emission solutions will extend the usable life of existing equipment while allowing you to avoid costly future replacements. We manufacture emission control solutions that are California Air Resources Board (ARB) and the U.S. Environmental Protection Agency (EPA) verified. As the emission control authority, we are here to help you navigate through the hassles and complexities of emission control compliance.

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MD300™ PRODUCT OVERVIEW

How does the MD300™ work?

The MD300™ Diesel Oxidation Catalyst (DOC) system utilizes advanced catalytic technology to promote oxidation reactions within the diesel engine exhaust stream.

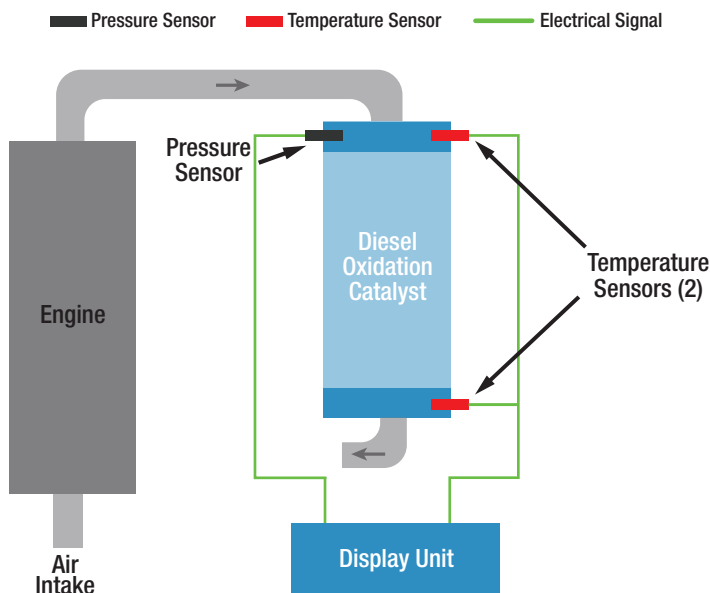
As exhaust gases pass through the catalyst, carbon monoxide (CO) and hydrocarbons (HC) -including related compounds such as volatile organic compounds (VOCs) and hazardous air pollutants (HAPs)- are oxidized into carbon dioxide (CO₂) and water vapor (H₂O). Simultaneously, the system reduces the soluble organic fraction (SOF) of diesel particulate matter (PM), contributing to overall particulate emissions reduction.

Catalytic activity is temperature-dependent. Initial conversion begins at approximately 180°C (360°F), with peak efficiency achieved at elevated exhaust temperatures between 250-300°C (480-570°F). System performance is influenced by engine calibration, exhaust composition, and catalyst configuration.

For enhanced monitoring and operational reliability, the system can be equipped with temperature and pressure sensors, along with an optional data logger that records differential backpressure and exhaust gas temperatures across the catalyst.

** Equality suited to perform on engines up to 3000 kW

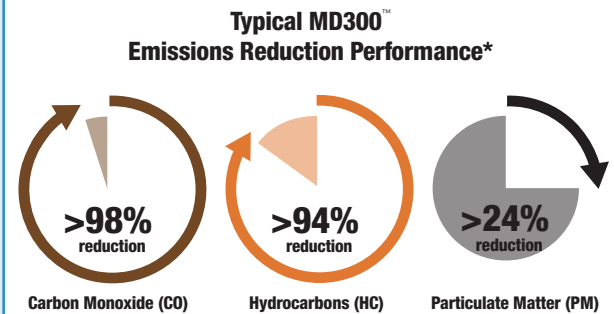
MD300™ System Schematic Drawing



PRODUCT FEATURES

- EPA verified for non-road, constant-speed diesel engines
- Designed for power generation, gas compression, co-generation, pumping stations, and irrigation equipment
- Effective reduction of CO and HC, including associated compounds such as VOCs and HAPs
- Supports reduction of diesel PM through oxidation of SOF
- Simple, robust, and maintenance-free system design
- Available in stand-alone or integrated silencer configurations
- Multiple sound attenuation grades available (industrial, residential, critical, hospital)
- Constructed from mild steel, aluminized steel, or stainless steel
- Optional internal and external insulation
- Optional data logger for monitoring differential backpressure and exhaust temperatures
- Suitable for a wide range of stationary and mobile diesel engine

EMISSIONS REDUCTION PERFORMANCE



*Actual emission reduction performance depends on several factors, including catalyst formulation, engine calibration, exhaust temperature, and operating conditions. With optimized design, properly engineered catalyst systems are capable of delivering higher conversion efficiencies.



...the emission control authority.

Contact Nett Technologies Inc. today at:

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