

# Your diesel engine emission control just got easier!

Diesel engines are an excellent power source, with the exception of their emissions. Diesel Oxidation Catalysts (DOCs) are catalytic converters designed specifically for diesel powered engines and equipment in order to reduce emission levels of carbon monoxide (CO), hydrocarbons (HC) and particulate matter (PM) from the diesel exhaust.

Nett Technologies' MD300™ is a high performance DOC verified by Environmental Protection Agency (EPA) for off-highway constant speed diesel engines. Same technology however can be used for any variable speed diesel engine. MD300™ consists of a high temperature resistance stainless steel foil coated with a precious metal catalyst in order to effectively reduce the emissions of CO greater than 97%, HC greater than 87% and PM greater than 23% from the engine exhaust.

MD300™ is simple, inexpensive, maintenance free and suitable for all types and applications of diesel engines. The product is offered in direct-fit OEM muffler replacement or universal-fit designs. MD300™ is very durable and can withstand telescoping or other deformations experienced by some other metallic substrates. It's designed to last for the life-span of the engine.

With its high performance and low cost, the Nett Technologies' MD300™ is an ideal solution to your emission reduction needs.



## 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.

**NETT**  
TECHNOLOGIES INC.  
...the emission control authority.

[www.nettinc.com](http://www.nettinc.com)

## MD300™ PRODUCT OVERVIEW

### How does the MD300™ work?

MD300™ is US Environmental Protection Agency (EPA) verified for use on 4 cycle, constant speed, compression ignition engines rated at 100-750 hp (75-560\* kW). Applications include power generation, gas compression, co-generation, pumping stations and irrigation equipment certified to Tier 1, Tier 2 or Tier 3.

MD300™ oxidizes carbon monoxide, hydrocarbons, and aldehydes contained in diesel exhaust to non-toxic compounds: carbon dioxide and water vapor. The catalyst formulation provides a 97%+ reduction of carbon monoxide (CO) and an 87%+ reduction of hydrocarbons (HC) in all applications with medium to high exhaust temperatures. The catalyst also oxidizes the soluble organic fraction (SOF) of diesel particulate matter (DPM), resulting more than 23% reduction of DPM.

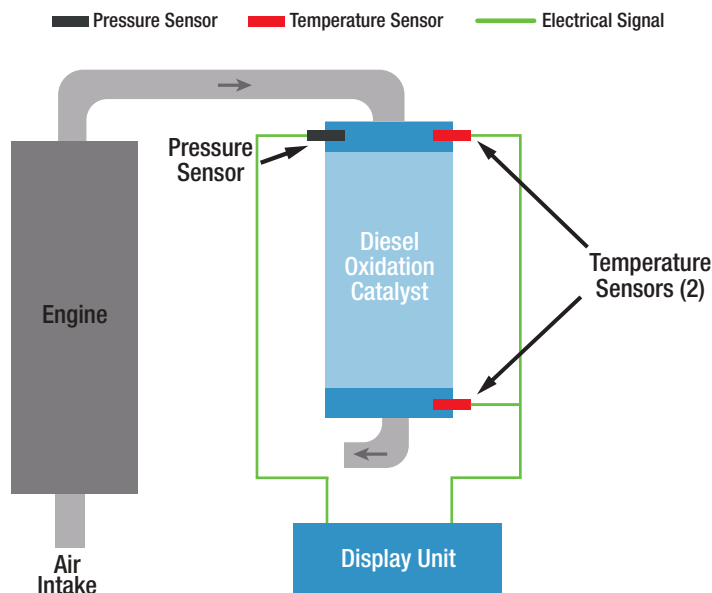
The emission performance depends on the catalyst size, exhaust temperature, and raw exhaust composition. A minimum temperature of about 180°C (360°F) is required for conversion. Best catalyst performance occurs at temperatures above 250-300°C (480-570°F).

MD300™ is available in either stand-alone or silencer configurations. Stand-alone designs are universal-fit units for controlling exhaust emissions only. Silencer configurations pair the DOC emissions control unit with silencers available in industry-standard sound-attenuation grades (industrial, residential, critical, hospital, etc.). Models are available in heavy-gauge mild, aluminized and stainless steel materials.

With the addition of a data logger, which is used for displaying and recording differential backpressure and exhaust gas temperatures across the catalyst, this product is fully compliant with the EPA's National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) regulations.

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

### MD300™ System Schematic Drawing

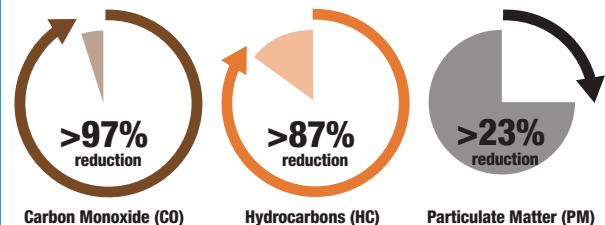


## PRODUCT FEATURES

- Internally and externally insulated (optional)
- Verified for non-road constant speed engines (power generation, gas compression, co-generation, pumping stations and irrigation equipment), though the technology is equally suited for variable speed engines in any off or on-road applications
- Simple and durable design, inexpensive and maintenance free
- Available in either stand-alone or silencer configurations
- Optional Data Logger unit, which displays and records differential backpressure and exhaust gas temperatures across the catalyst

## EMISSIONS REDUCTION PERFORMANCE

### Typical MD300™ Emissions Reduction Performance



Carbon Monoxide (CO)

Hydrocarbons (HC)

Particulate Matter (PM)



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Contact Nett Technologies Inc. today at:

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