Diesel engine emission control has never been easier!

Diesel engines are a reliable and efficient power source; however, particulate matter (PM/soot) and exhaust emissions remain a major contributor to environmental and health concerns.

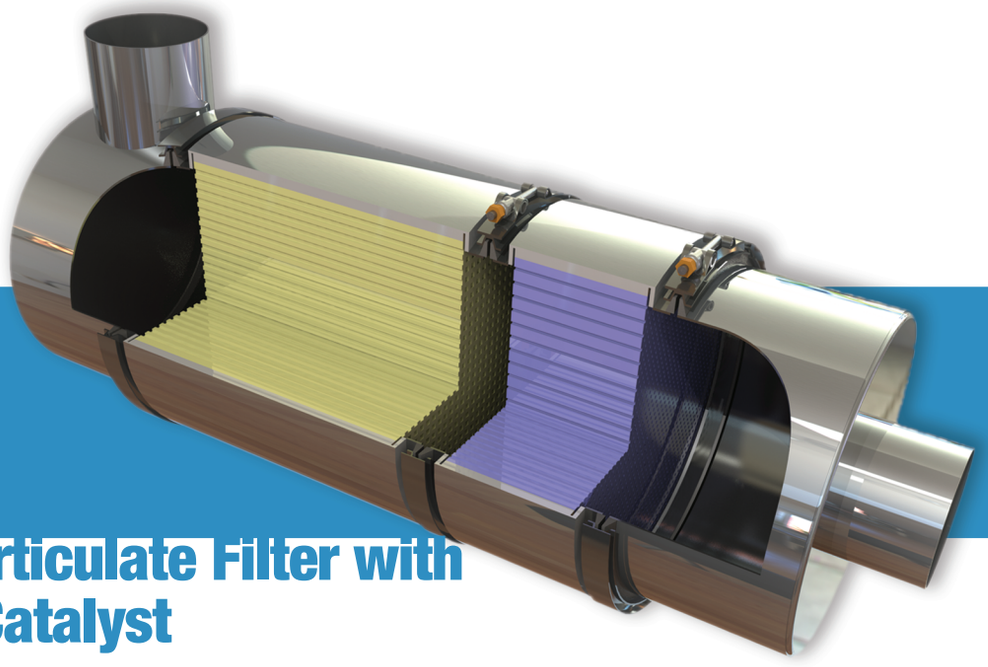
The GreenTRAP™ 100d is an advanced passive Diesel Particulate Filter (DPF) system designed for off-road diesel engines. The system integrates a Diesel Oxidation Catalyst (DOC) upstream of a wall-flow DPF to deliver reliable and high-efficiency emissions control.

The DOC oxidizes carbon monoxide (CO), hydrocarbons (HC), and aldehydes into carbon dioxide (CO_2) and water vapor (H_2O), while the cordierite wall-flow DPF captures particulate matter (soot) within its porous structure. A proprietary catalyst coating on the filter walls lowers soot oxidation temperature, enabling passive regeneration during normal engine operation.

Under favorable operating conditions, accumulated soot is continuously oxidized within the filter without the need for active regeneration, ensuring stable performance and reduced maintenance.

The system delivers up to 99% reduction in particulate matter (PM), up to 99% reduction in carbon monoxide (CO), and up to 96% reduction in hydrocarbons (HC), including associated volatile organic compounds (VOCs) and hazardous air pollutants (HAPs).

Designed for durability and flexibility, the GreenTRAP™ 100d is ideal for off-road applications including construction, mining, and material handling, providing effective emissions control while improving equipment reliability and lifespan.



GreenTRAP™ 100d

Passive Diesel Particulate Filter with 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

GreenTRAP™ 100d PRODUCT OVERVIEW

How does the GreenTRAP™ 100d system work?

Exhaust gases first pass through the Diesel Oxidation Catalyst (DOC), where carbon monoxide (CO), hydrocarbons (HC), and aldehydes are oxidized into carbon dioxide (CO_2) and water vapor (H_2O).

The gases then flow into the wall-flow Diesel Particulate Filter (DPF), where particulate matter (soot) is trapped within the porous filter structure. The filter consists of parallel channels that force exhaust gases through the walls, capturing particles while allowing clean gases to exit.

A proprietary catalyst coating on the filter surfaces lowers the soot oxidation temperature, enabling passive regeneration during normal engine operation.

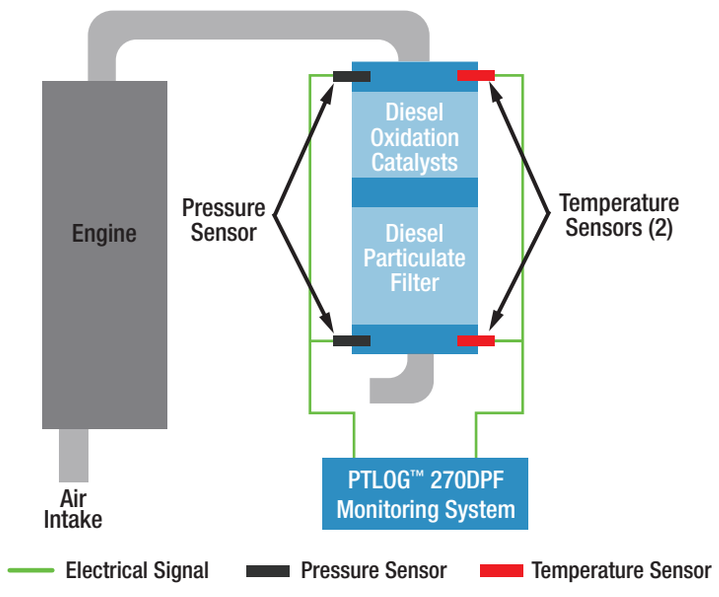
For effective regeneration, exhaust temperatures of approximately 250–300°C (482–572°F) must be maintained for about 25–30% of operating time, particularly when using ultra-low sulfur diesel (ULSD) fuel.

The system can operate with various fuel types; however, fuels with sulfur content above 50 ppm require higher exhaust temperatures for proper regeneration.

The DOC core is constructed from corrugated, high-temperature resistant stainless steel foil coated with precious metal catalyst and housed in a durable stainless steel enclosure.

An optional PTLOG™ 270DPF monitoring system, along with two temperature sensors and one differential pressure sensor, enables real-time monitoring of DPF backpressure and DOC/DPF inlet and outlet temperatures, ensuring reliable and safe operation throughout the system lifecycle.

GreenTRAP™ 100d System Schematic Drawing



PRODUCT FEATURES

- Passive DOC + DPF system (self-regenerating design)
- Designed for off-road diesel engine applications (construction, mining, material handling)
- Cordierite wall-flow filter technology
- Precious metal catalyst-coated DOC core
- Compact design with optional thermal insulation
- Optional computerized controller with alarms and data logging
- Real-time monitoring with temperature and pressure sensors
- Maintenance intervals of 2000-6000 hours
- Stainless steel housing with custom-fit configurations
- Optional bypass valve for operational flexibility

EMISSIONS REDUCTION PERFORMANCE

Typical GreenTRAP™ 100d Emissions Reduction Performance

NETT® TECHNOLOGIES INC.

...the emission control authority.

Contact Nett Technologies Inc. today at:

Phone: (905) 672-5453 **Toll-Free:** 1(800) 361-6388

or visit us online at **www.nettinc.com**

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