

Your diesel engine emission control just got 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™ 100 is an advanced passive Diesel Particulate Filter (DPF) system designed for off-road diesel engines, delivering reliable and high-efficiency emissions control.

The system utilizes cordierite or silicon carbide wall-flow filter technology to capture particulate matter (soot), while a proprietary catalyst coating on the filter walls lowers soot oxidation temperature, enabling continuous passive regeneration during normal engine operation.

With optimized catalyst design, the system also reduces carbon monoxide (CO) and hydrocarbons (HC) through oxidation reactions, converting them into carbon dioxide (CO₂) and water vapor (H₂O).

The system delivers up to 99% reduction in particulate matter (PM), up to 98% reduction in carbon monoxide (CO), and up to 95% reduction in hydrocarbons (HC), including associated volatile organic compounds (VOCs) and hazardous air pollutants (HAPs).

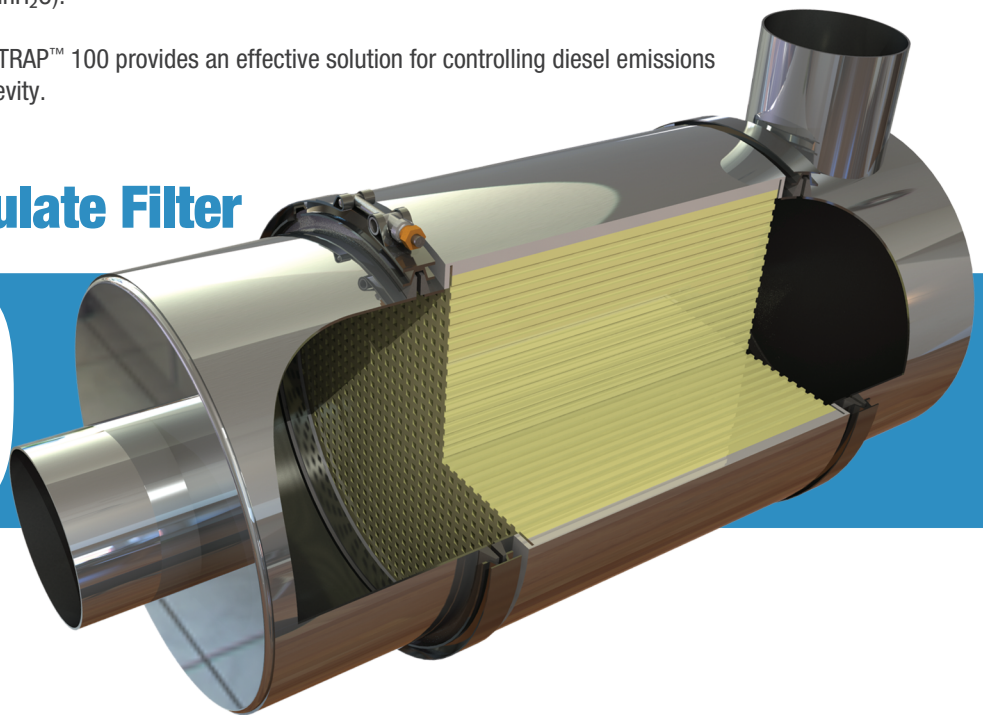
Under optimized operating conditions, properly engineered systems are capable of achieving higher real-world performance than standardized certification test results.

Applications with higher exhaust temperatures and lower engine-out PM enable more efficient regeneration, reduced soot accumulation, and lower exhaust backpressure (typically 5-10 kPa / 20-40 inH₂O).

Designed for durability and adaptability, the GreenTRAP™ 100 provides an effective solution for controlling diesel emissions while improving equipment performance and longevity.

Passive Diesel Particulate Filter

100



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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GreenTRAP™ 100 PRODUCT OVERVIEW

How does the GreenTRAP™ 100 system work?

Exhaust gases pass through the wall-flow Diesel Particulate Filter (DPF), where particulate matter (soot) is captured within the porous filter structure.

The filter consists of parallel channels that are alternately plugged, forcing exhaust gases through porous walls that trap particles while allowing clean gases to pass through.

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

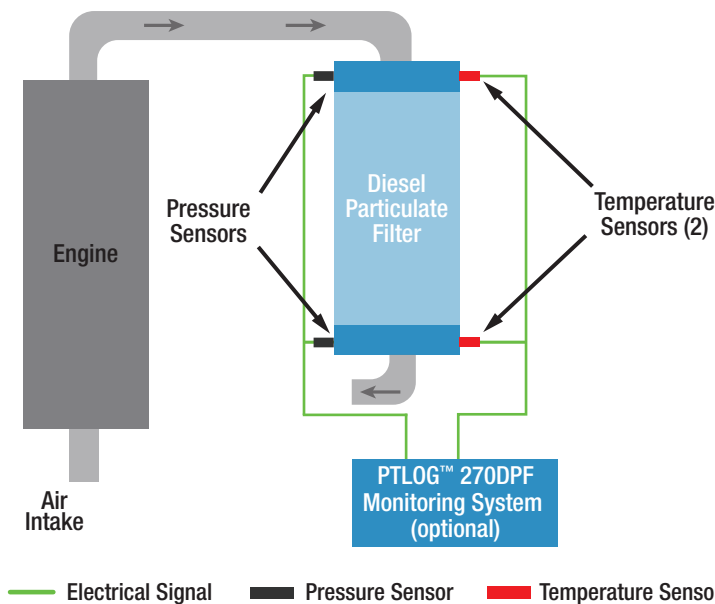
For effective regeneration, exhaust temperatures of approximately 275-300°C (527-572°F) must be maintained for 25-30% of operating time, particularly when using ultra-low sulfur diesel (ULSD) fuel.

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

Under favorable conditions, accumulated soot is continuously oxidized within the filter without the need for active regeneration.

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

GreenTRAP™ 100 System Schematic Drawing

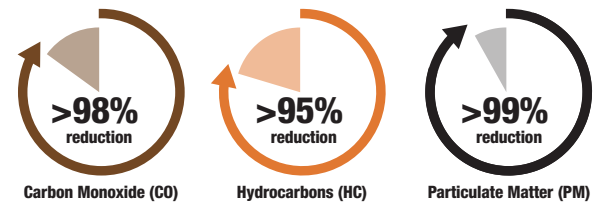


PRODUCT FEATURES

- Passive regeneration system (self-cleaning design)
- Designed for off-road diesel applications (construction, mining, material handling)
- Cordierite or silicon carbide wall-flow filter technology
- Proprietary catalyst coating for low-temperature regeneration
- 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™ 100 Emissions Reduction Performance*



*Actual emission reduction performance depends on several factors, including catalyst formulation, engine calibration, exhaust temperature, and operating conditions. With optimized system design and proper application, catalyst technologies are capable of achieving enhanced conversion efficiencies in real-world environments.



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Contact Nett Technologies Inc. today at:

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