

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 key contributors to environmental and health concerns.

The GreenTRAP™ NOVA 100 is an advanced active Diesel Particulate Filter (DPF) system designed to control particulate emissions from diesel engines in off-road applications, delivering reliable and high-efficiency emissions reduction.

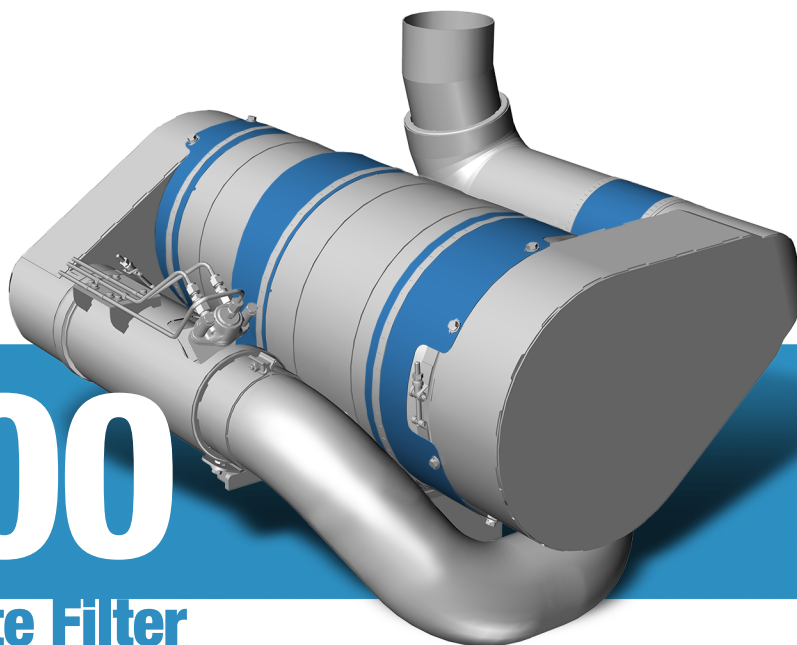
The system integrates a Diesel Oxidation Catalyst (DOC) upstream of a wall-flow DPF to effectively capture and remove soot from the exhaust stream. A proprietary catalyst coating on the DPF walls lowers the regeneration temperature, allowing passive regeneration during normal engine operation.

When exhaust temperatures are insufficient, active regeneration is automatically initiated through controlled hydrocarbon (fuel) injection over the DOC, increasing exhaust temperature to safely oxidize accumulated soot.

An Electronic Control Unit (ECU) continuously monitors key parameters including temperature, pressure, exhaust flow, and soot loading to optimize system performance and trigger regeneration when required.

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

Designed for durability, reliability, and ease of integration, the GreenTRAP™ NOVA 100 provides an effective solution for improving emissions performance and extending the operational life of diesel equipment.



GreenTRAP™ NOVA 100 Active Diesel Particulate Filter

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
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...the emission control authority.

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GreenTRAP™ NOVA 100 PRODUCT OVERVIEW

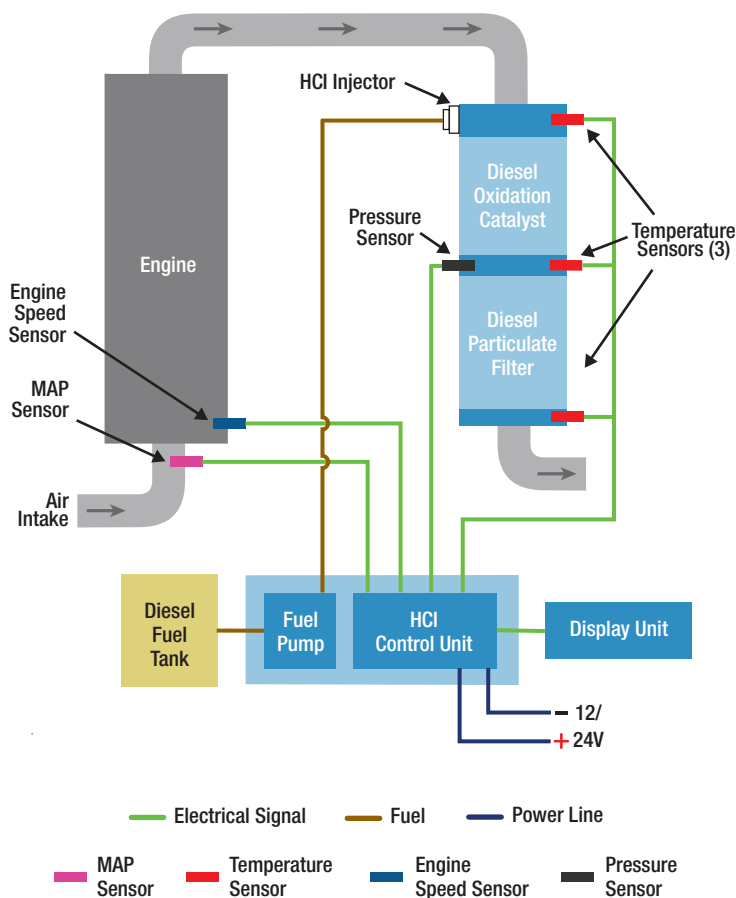
How does the GreenTRAP™ NOVA 100 work?

The GreenTRAP™ NOVA 100 system registers and measures various engine and system parameters in order to determine exactly when to activate the regeneration cycle.

Regeneration is activated by injecting a precise amount of diesel fuel into the exhaust line which is then oxidized by a Diesel Oxidation Catalyst (DOC). The exothermic reaction within the DOC raises the exhaust temperature to the Diesel Particulate Filter (DPF) regeneration criterion level. The heated exhaust gas oxidizes the particulate matter (soot) accumulated on the particulate filter monolith. The estimated volume of soot trapped within the filter is calculated based upon the exhaust flow, engine load, back pressure, exhaust temperature, and the Soot Load Index (SLI).

The GreenTRAP™ NOVA 100 Electronic Control Unit (ECU) continuously monitors and measures the performance of all system sensors and components. Built-in safety features will avoid soot overload, system high back pressure or temperature at all time. In addition, the on-board diagnostic unit will inform the operator of system status and potential issues via the dashboard indicator.

GreenTRAP™ NOVA 100 System Schematic

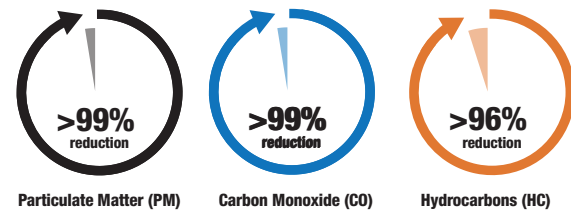


PRODUCT FEATURES

- Active regeneration system independent of exhaust temperature variations
- On-the-go regeneration for uninterrupted operation
- Compact design for installation in tight engine compartments
- Durable construction with low noise operation
- Optional controller with customizable alarms and data logging
- Maintenance intervals of 2000–6000 hours
- Stainless steel housing with custom-fit configurations available

EMISSIONS REDUCTION PERFORMANCE

Typical GreenTRAP™ NOVA 100 Emissions Reduction Performance



...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