

# Diesel generator emission control has never been easier!

Diesel generators 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™ VOLT 300 is an advanced passive/active Diesel Particulate Filter (DPF) system designed for medium- and heavy-duty diesel engines in stationary applications, delivering reliable and high-efficiency emissions control.

The system integrates a wall-flow DPF with a set of electrical heater elements, allowing automatic self-cleaning (regeneration) without relying solely on engine exhaust temperature. A proprietary catalyst coating on the filter walls lowers the regeneration temperature, enabling passive regeneration under normal operating conditions and reducing the frequency of active regeneration.

When passive conditions are not sufficient, active regeneration is initiated using electric heater coils to raise the exhaust temperature to levels required for safe soot oxidation.

An Electronic Control Unit (ECU) continuously monitors temperature, pressure, and exhaust mass flow in real time, optimizing regeneration cycles and ensuring reliable system performance. The ECU also provides continuous diagnostics and alerts the operator in the event of a system malfunction.

The system delivers up to 99% reduction in particulate matter (PM), up to 96% reduction in carbon monoxide (CO), and up to 94% reduction in hydrocarbons (HC), including associated volatile organic compounds (VOCs) and hazardous air pollutants (HAPs).

Designed for durability, reliability, and ease of integration, the GreenTRAP™ VOLT 300 provides an effective solution for improving emissions performance while extending equipment life and reducing maintenance impact.

## GreenTRAP™ VOLT 300 Active Diesel Particulate Filter



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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™ VOLT 300 PRODUCT OVERVIEW

### How does the GreenTRAP™ VOLT 300 Active DPF work?

The system continuously monitors engine and exhaust conditions to determine when regeneration is required.

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

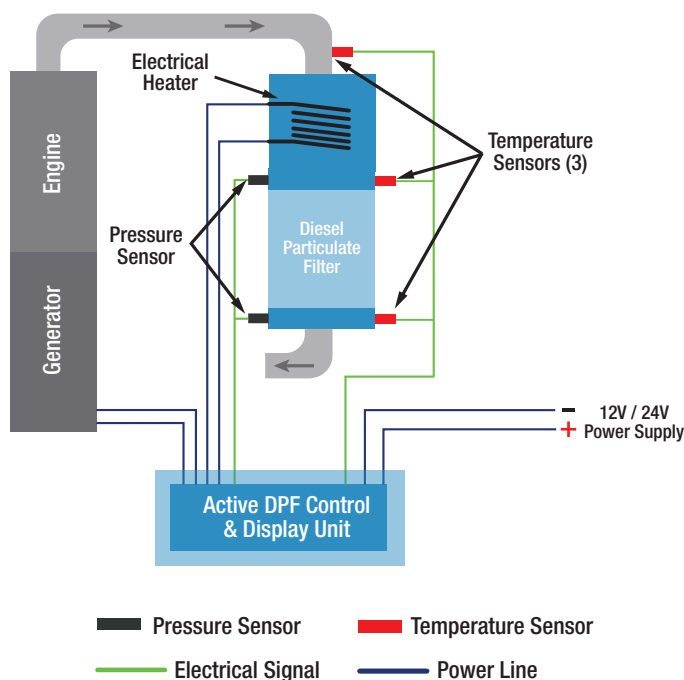
The DPF consists of parallel channels coated with a proprietary catalyst that lowers soot oxidation temperature, allowing passive regeneration during favorable exhaust conditions.

When exhaust temperature is insufficient, active regeneration is automatically triggered. The system uses electrical heater coils to raise the exhaust temperature in a controlled manner, enabling safe oxidation of the accumulated soot.

The ECU evaluates system parameters such as temperature, pressure, and exhaust flow rate to precisely control regeneration timing and intensity.

This electrically assisted regeneration approach allows the system to operate independently of engine load conditions, ensuring consistent and reliable emissions control in stationary applications.

### GreenTRAP™ VOLT 300 System Schematic Drawing

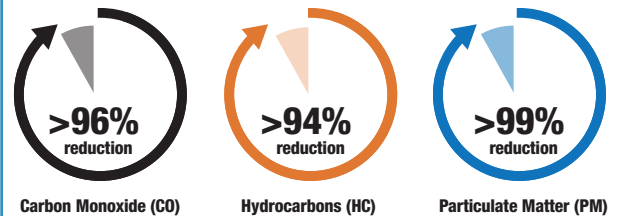


## PRODUCT FEATURES

- Active system with electrically assisted regeneration
- Designed for stationary diesel generator applications
- Computerized controller with customizable alarms and diagnostics
- Maintenance intervals of 2000–6000 hours
- Programmable regeneration profile with data logging capabilities
- Integrated display for real-time system monitoring
- Load measurement feature to prioritize generator demand
- Energy-efficient operation
- Compact design for easy installation in space-constrained environments

## EMISSIONS REDUCTION PERFORMANCE

### Typical GreenTRAP™ VOLT 300 Emissions Reduction Performance



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Contact Nett Technologies Inc. today at:

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