

Marine diesel emission control, the easy way!

Diesel engines are a reliable and efficient power source; however, particulate matter (PM/soot) and exhaust emissions remain a key challenge in marine environments, contributing to maintenance issues, operational inefficiencies, and reduced onboard comfort.

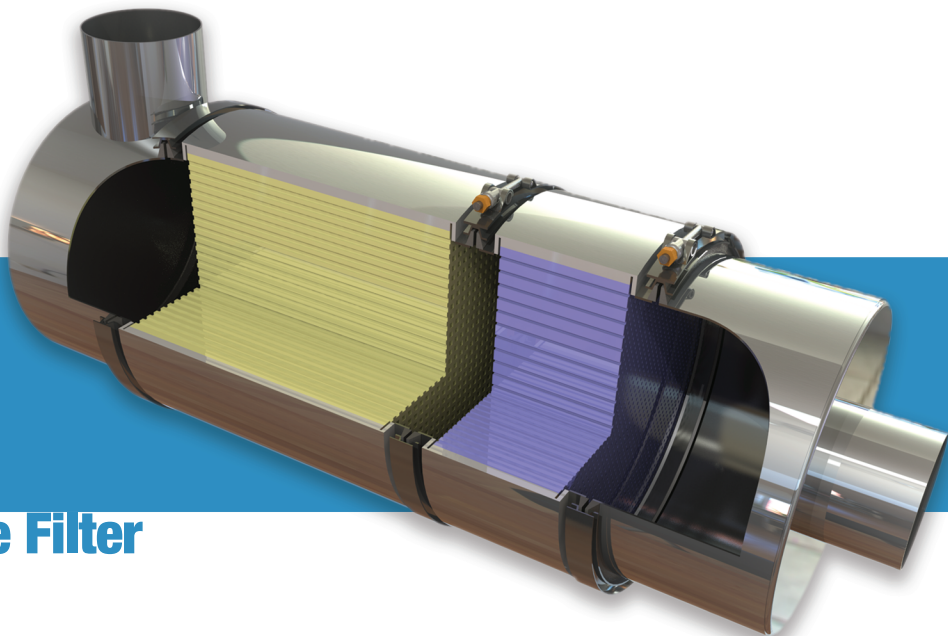
The GreenTRAP™ 320d is an advanced passive Diesel Particulate Filter (DPF) system equipped with an upstream Diesel Oxidation Catalyst (DOC), designed to deliver reliable and high-efficiency emissions control for marine diesel engines.

The system utilizes cordierite wall-flow filter technology to capture particulate matter (soot), while the upstream DOC oxidizes carbon monoxide (CO), hydrocarbons (HC), and aldehydes into carbon dioxide (CO₂) and water vapor (H₂O). A proprietary catalyst coating on the filter walls lowers the soot oxidation temperature, enabling continuous self-regeneration during normal engine operation.

Under favorable operating conditions, accumulated soot is oxidized within the filter without the need for active intervention, ensuring consistent performance and minimal 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).

Customized to fit specific vessel applications, the GreenTRAP™ 320d provides full control over emissions while improving engine efficiency, reducing maintenance requirements, and extending equipment life.



GreenTRAP™

320d

Passive 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 useable 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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...the emission control authority.

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GreenTRAP™ 320d PRODUCT OVERVIEW

How does the GreenTRAP™ 320d Filter work?

Exhaust gases pass through the Diesel Oxidation Catalyst (DOC) and into the wall-flow Diesel Particulate Filter (DPF), where particulate matter (soot) is trapped within the porous filter structure.

The DPF consists of parallel channels separated by thin porous walls, forcing exhaust gases to pass through the walls while trapping particulate matter.

The upstream DOC oxidizes carbon monoxide (CO), hydrocarbons (HC), and aldehydes into carbon dioxide (CO₂) and water vapor (H₂O), improving overall emissions performance.

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

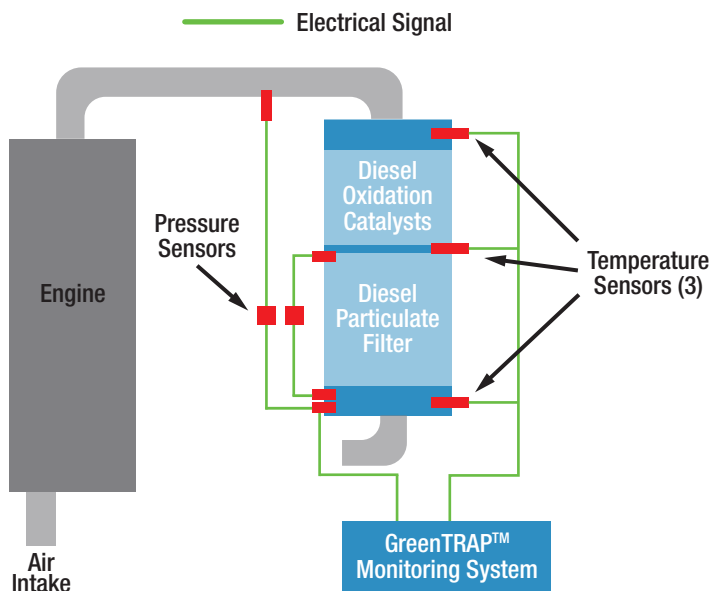
For effective regeneration, exhaust temperatures of approximately 250-300°C (482-572°F) must be maintained for a sufficient portion of operating time, particularly when using ultra-low sulfur diesel (ULSD) fuel.

The system is compatible with various fuel types; however, fuels with sulfur content above 50 ppm require higher exhaust temperatures for effective regeneration.

The DOC core is constructed from high-temperature resistant stainless steel foil with precious metal catalyst coating, housed within a durable stainless steel enclosure.

The system includes a monitoring unit with three temperature sensors and one differential pressure sensor, enabling real-time tracking of DPF backpressure and DOC/DPF inlet and outlet temperatures.

GreenTRAP™ 320d System Schematic Drawing

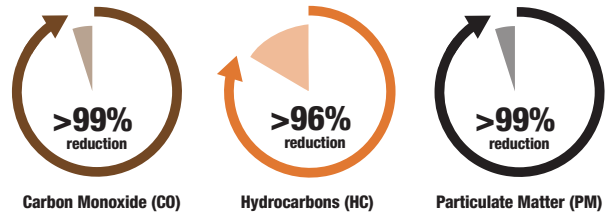


PRODUCT FEATURES

- Passive DOC + DPF system (no active regeneration required)
- Designed for marine engines (50 kW to 450 kW range)
- Cordierite wall-flow filter technology
- Precious metal catalyst-coated DOC core
- Real-time monitoring with temperature and pressure sensors
- Computerized controller with customizable alarms
- Maintenance intervals of 2000 - 5000 hours
- Data logging and performance tracking capabilities
- Colour display for system status and diagnostics
- Internally insulated design (optional external insulation available)

EMISSIONS REDUCTION PERFORMANCE

Typical GreenTRAP™ 320d Emissions Reduction Performance



...the emission control authority.

Contact Nett Technologies Inc. today at:

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or visit us online at www.nettinc.com