

# Your LSI Engine Emission Control Just Got Easier!

Catalytic mufflers provide a cost-effective solution for reducing carbon monoxide (CO), hydrocarbons (HC), and nitrogen oxides (NO<sub>x</sub>) emissions from LPG, CNG, and gasoline-powered engines used in material handling, construction, and generator applications.

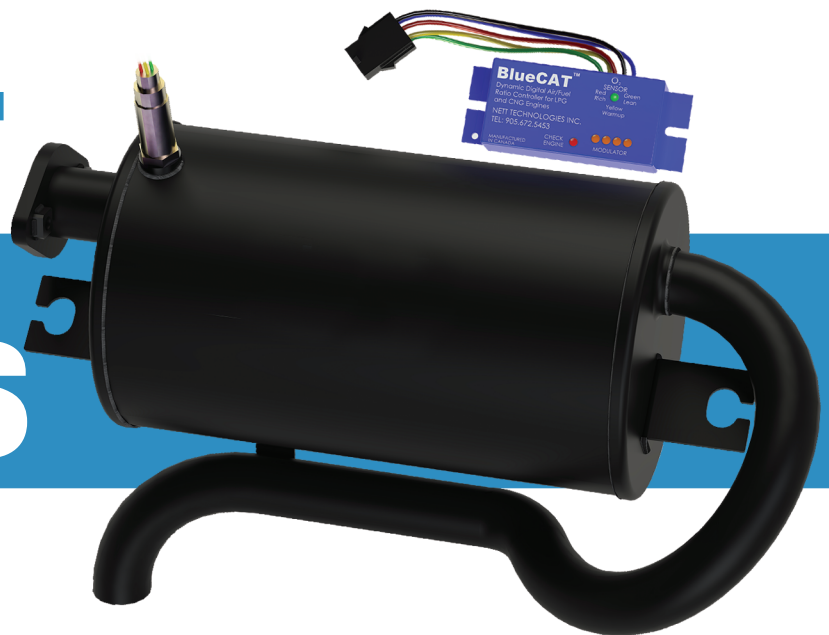
Nett Technologies' BlueCAT™ T-Series is engineered to deliver high-performance emissions control, achieving up to 98% reduction in CO, up to 96% reduction in HC, and up to 99% reduction in NO<sub>x</sub>. This advanced system effectively minimizes harmful exhaust pollutants while supporting cleaner and more efficient engine operation.

The BlueCAT™ T-Series integrates a high-efficiency three-way catalytic converter with an advanced electronic Air/Fuel (A/F) Ratio Controller. Working together, these components maintain optimal engine operation at stoichiometric conditions, maximizing catalyst efficiency, improving fuel economy, and extending engine life.

Designed as a direct replacement for the OEM muffler, the catalytic muffler simplifies installation while reducing space constraints and retrofit complexity. The catalyst is precisely selected based on engine displacement and integrated within the muffler housing to ensure optimal performance.

In addition to superior emissions reduction, the BlueCAT™ T-Series matches or exceeds the noise attenuation performance of the original muffler. With an extensive database of direct-fit designs covering a wide range of equipment and engine types, Nett Technologies provides a reliable and efficient solution for seamless integration across diverse applications.

## BlueCAT™ T-Series 3-Way Catalyst



scan and learn



Sold and supported globally, Nett Technologies Inc., develops and manufactures proprietary emission control solutions that use the latest in 3-way catalytic converters, diesel oxidation catalyst (DOC), diesel particulate filter (DPF), selective catalytic reduction (SCR), engine electronics, stationary engine silencers, 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 ARB and 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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## BlueCAT™ T-Series PRODUCT OVERVIEW

### How does the BlueCAT™ T-Series work?

The BlueCAT™ T-Series utilizes 3-way catalyst (TWC) technology to simultaneously control carbon monoxide (CO), hydrocarbons (HC), and nitrogen oxides (NO<sub>x</sub>) from LPG, CNG, and gasoline-powered engines operating under stoichiometric conditions.

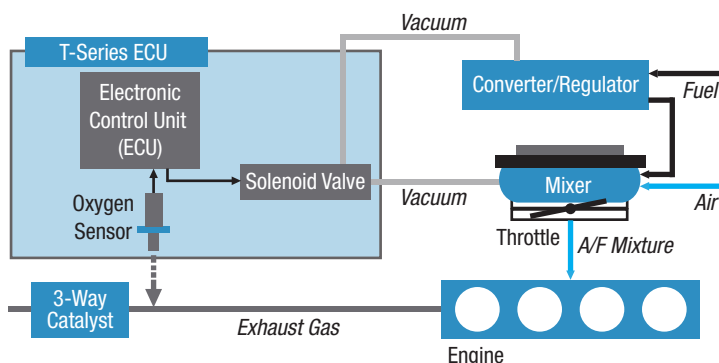
Exhaust gases pass through the catalytic muffler, where a high-performance catalyst promotes simultaneous oxidation and reduction reactions. Carbon monoxide (CO) and hydrocarbons (HC) are oxidized into carbon dioxide (CO<sub>2</sub>) and water vapor (H<sub>2</sub>O), while nitrogen oxides (NO<sub>x</sub>) are reduced to nitrogen (N<sub>2</sub>).

To ensure optimal catalyst performance, the system maintains a precise air-to-fuel ratio through an advanced electronic Air/Fuel (A/F) Ratio Controller. A closed-loop control system, using feedback from an oxygen (O<sub>2</sub>) sensor, continuously adjusts fuel delivery to keep the engine operating at stoichiometric conditions, where maximum conversion efficiency is achieved.

The catalytic converter is fully integrated into a direct-fit muffler, allowing exhaust gases to be treated without additional system complexity. This design ensures uniform gas distribution across the catalyst while maintaining or exceeding original noise attenuation performance.

With continuous monitoring and precise control of engine operating conditions, the BlueCAT™ T-Series system delivers reliable, high-efficiency emissions reduction while improving fuel efficiency and supporting long-term engine performance.

### BlueCAT™ T-Series System Schematics Drawing

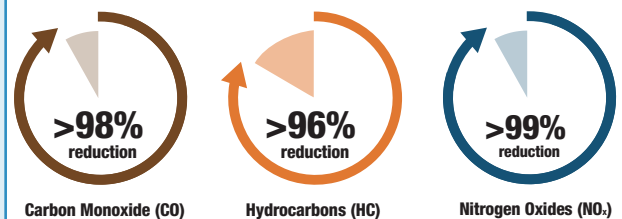


## PRODUCT FEATURES

- Ideal for construction, material handling, mining, on-road, power generation, and utility industries
- Includes an Air/Fuel Ratio controller that maximizes the emissions reduction
- Includes the On-Board diagnostic system that provides constant system monitoring
- Direct-Fit muffler replacement simplifies the installation and saves time
- Matches or surpasses the original muffler in sound attenuation and backpressure characteristics with the addition of superior emissions performance
- Made of heavy aluminized steel to increase the typical life expectancy of its original replacement

## EMISSIONS REDUCTION PERFORMANCE

### Typical BlueCAT™ T-Series Emissions Reduction Performance



Carbon Monoxide (CO)

Hydrocarbons (HC)

Nitrogen Oxides (NO<sub>x</sub>)



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Contact Nett Technologies Inc. today at:

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or visit us online at [www.nettinc.com](http://www.nettinc.com)

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