

Your LSI Engine Emission Control Just Got Easier!

The BlueCAT™ 300 is a retrofit emissions control system verified by the California Air Resources Board (CARB) for use on uncontrolled gaseous-fueled Large Spark-Ignition (LSI) engines. Designed for a wide range of industrial applications, including forklift trucks, floor care equipment, aerial lifts, and ground support machinery, the system delivers effective exhaust emissions control while maintaining reliable noise attenuation.

At the core of the BlueCAT™ 300 is a high-performance three-way catalytic converter integrated with an advanced electronic Air/Fuel Ratio Controller. This intelligent system continuously monitors and adjusts engine operation to maintain optimal combustion conditions, enabling efficient emissions control, improved fuel economy, and enhanced engine performance. Precise air-to-fuel ratio management allows for simultaneous reduction of nitrogen oxides (NO_x), carbon monoxide (CO), hydrocarbons (HC), as well as volatile organic compounds (VOCs) and hazardous air pollutants (HAPs).

In practical applications, emission control performance is influenced by factors such as air-fuel ratio stability, catalyst formulation, exhaust temperature, and engine operating conditions. With optimized catalyst design and advanced control strategy, the BlueCAT™ 300 is capable of delivering very high reductions in emissions when properly implemented and tuned for the application. Under favorable operating conditions, the system can achieve up to 98% reduction in carbon monoxide (CO), up to 96% reduction in hydrocarbons (HC), and up to 99% reduction in nitrogen oxides (NO_x), along with significant reduction of VOCs and HAPs. These performance levels represent the system's full capability when engineered, integrated, and optimized for the application.

The BlueCAT™ 300 catalytic muffler is designed as a direct replacement for the OEM muffler, simplifying installation and minimizing downtime. Each system is engineered based on engine displacement and application requirements to ensure proper fit and consistent performance. In addition to superior emissions control, the system matches or exceeds original noise attenuation levels. Nett Technologies also maintains an extensive database of direct-fit designs, enabling seamless integration across a wide range of equipment makes and models.

BlueCAT™ 300 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™ 300 PRODUCT OVERVIEW

How does the BlueCAT™ 300 work?

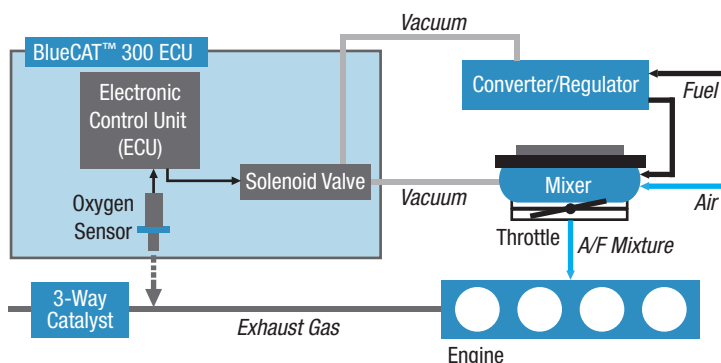
The BlueCAT™ 300 system combines a high-performance three-way catalytic converter with a digital Air/Fuel (A/F) Ratio Controller to deliver effective and reliable emissions control. The system is designed for quick and straightforward installation, with a built-in oxygen sensor port and a fully integrated controller supplied with all necessary wiring and connectors.

During operation, the system continuously monitors exhaust conditions using a zirconium oxygen (O₂) sensor installed in the exhaust stream. This sensor sends real-time feedback to the A/F controller, which automatically adjusts the fuel system through a control solenoid. By doing so, the system maintains the engine at the ideal stoichiometric air-to-fuel ratio, which is critical for efficient catalyst performance.

Once the correct air-to-fuel ratio is achieved, the three-way catalyst enables simultaneous reduction of key pollutants. Carbon monoxide (CO) and hydrocarbons (HC) are oxidized, while oxides of nitrogen (NO_x) are reduced. These reactions convert harmful emissions into harmless gases such as nitrogen (N₂), carbon dioxide (CO₂), and water (H₂O).

The BlueCAT™ 300 Electronic Control Unit (ECU) continuously monitors system performance and provides real-time diagnostic feedback. Built-in indicator lights display system status, including power, sensor activity, and air/fuel ratio control, allowing operators to easily understand system operation. In the event of a malfunction, a warning signal alerts the operator, helping prevent excessive emissions and ensuring consistent, reliable performance.

BlueCAT™ 300 System Schematics Drawing

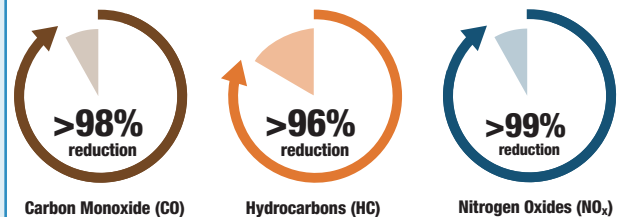


PRODUCT FEATURES

- California Air Resource Board (CARB) verified system
- Ideal for LPG, CNG and gasoline engines used in off-road equipment (e.g. forklifts, tractors, etc.)
- 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™ 300 Emissions Reduction Performance*



*Actual emission reduction may vary with engine, load, and operating conditions. Properly engineered catalyst systems are capable of achieving higher conversion efficiencies than EPA verification values when optimized for a specific application.



...the emission control authority.

Contact Nett Technologies Inc. today at:

Phone: (905) 672-5453 Toll-Free: (800) 361-6388

or visit us online at www.nettinc.com

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