

BLUECAT200™

ARB VERIFIED EMISSION CONTROL TECHNOLOGY

The Nett BlueCAT 200[®] emission control system is verified by the California Air Resources Board for retrofit on propane fueled Large Spark Ignition (LSI) engines. These engines are typically used in forklifts, floor care machinery, aerial lifts, ground support equipment, and other industrial applications under the LSI-2 rule at 1.5 g/bhp-hr NO_x+HC, Level 3A.

System Description:

The BlueCAT 200[®] system consists of a 3-way catalytic converter/muffler, and a digital air-fuel ratio controller. The entire system is designed for quick and easy installation

- an oxygen sensor port is built into the converter/muffler
- the self-diagnostic ECU (electronic control unit) comes complete with all wiring and connectors
- comprehensive instructions, refined by hundreds of installations, are included

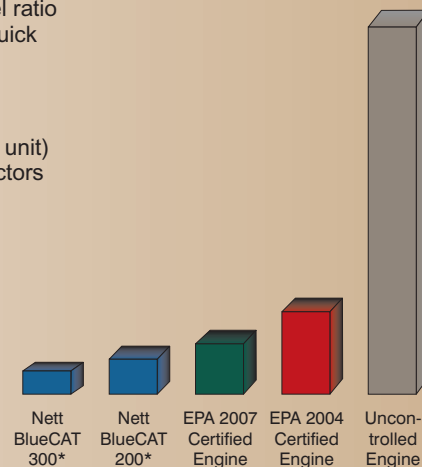
Excellent Noise Attenuation:

The BlueCAT[™] catalytic muffler matches or surpasses the noise attenuation performance of the original muffler.

Direct-Fit Design:

All models are a direct-fit replacement for the original muffler. Installation time and labor costs are reduced to a minimum. Over 5000 muffler designs are available for virtually any application.

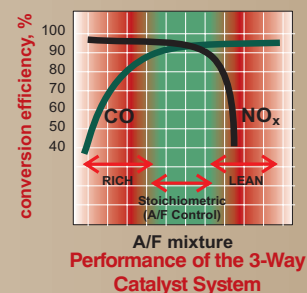
Relative NO_x + HC Emissions (g/bhp-hr)



BLUECAT 200™ CONTROL SYSTEM

The BlueCAT 200[®] air-fuel ratio controller is a closed-loop system and includes a zirconium oxygen (O₂) sensor, fuel system control solenoid and an ECU. The ECU receives a feedback signal from the O₂ sensor and modulates the solenoid to maintain the engine A/F ratio at the stoichiometric point, thereby maximizing catalyst performance.

The fundamental reactions in a 3-way catalyst are between CO (carbon monoxide) and HC (hydrocarbons) on one side and NO_x (oxides of nitrogen) on the other. To achieve high conversions of all three emissions simultaneously, the air/fuel ratio must be at the stoichiometric ratio. Simply, this means the amount of CO and HC are in proportion with the amount of NO_x present in the exhaust – these gases combine to form water, nitrogen and carbon dioxide.



The BlueCAT 200[®] ECU is packaged in a rugged metal enclosure suitable for dash or engine compartment installation. Included on the control unit are self-diagnostic LED indicators which allow for monitoring of its operation. This feature provides a powerful tool for engine operators and service technicians, which minimizes the chances of system malfunction and/or the release of excessive emissions.

Technical data and information regarding the products described in this brochure is believed to be reliable. However, no representation or warranty is made with respect thereto except as made by Nett[™] Technologies Inc. in writing at the time of sale. © 2007 Nett[™] Technologies Inc.

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...the emission control authority.