Removing Particulate Matter from Diesel Engines has Never Been Easier!

Nett Technologies’ VorTEQ™ 100 is an active diesel particulate filter (DPF) system that is designed to control particulate emissions from diesel engines in off-road applications. The VorTEQ™ 100 is an active system that is not dependent on exhaust gas temperature and is a practical diesel particulate control solution for diesel engines between 65hp to 300hp. The VorTEQ™100 is an on-board regeneration system that requires no external power and is suitable for retrofitting a wide range of engines which are not factory fitted with a diesel particulate filter.

Nett Technologies designed the VorTEQ™100 active DPF system to effectively control diesel particulate matter emissions from diesel engines in construction machinery, such as; backhoes, forklifts, excavators, loaders, etc. Using its on-board display unit, the flexible VorTEQ™ 100 active DPF system performs regeneration during machine rest periods.

Using the VorTEQ™100 active DPF system, regeneration is possible even when the exhaust gas temperature is low (80 - 200°C). The system utilizes a wall-flow monolith substrate to capture the soot produced by diesel engines. The filter is regenerated using a diesel fuel burner, which periodically increases the filter temperature to a level necessary to oxidize the collected particulates. The VorTEQ™ 100 active DPF system typically provides 95%+ reduction in diesel particulate matter emissions and total elimination of black smoke.
An active DPF system designed to control particulate matter emissions from diesel engines using a burner for periodic regenerations.

- Not dependent on variations in exhaust gas temperature - ideal for cold engine applications.
- Engineered to work on engines between 65hp to 300hp with a displacement no greater than 11.0L.
- Functional on certified engines with a PM emission level between 0.01g/bhp-hr and 0.2 g/bhp-hr.
- Sulphur level tolerable, also compatible with ultra low sulphur diesel (ULSD) and B20 biodiesel blend (20% biodiesel by volume).
- On-board display with real-time analytics. Real time display of DPF status, back pressure, temperatures, regeneration schedule and vital performance statistics.
- Reliable and economical with a long filter life.
- Engineered to install into tight engine compartment.
- No external power required to operate.
- Alerts operator when regeneration is required (audible and visual alarms).

The particulate matter filtration efficiency of the system typically exceeds 95%. The filtration efficiency of the elemental carbon fraction of diesel particulates (soot) is 95-99%.

Typical VorTEQ™ 100 Emissions Reduction Performance

Filtration Efficiency (%) vs Soot Loading (g), 10.5”x12” Filter

...the emission control authority.

Contact Nett Technologies Inc. today at:
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