

ACTI-TRAP™-F

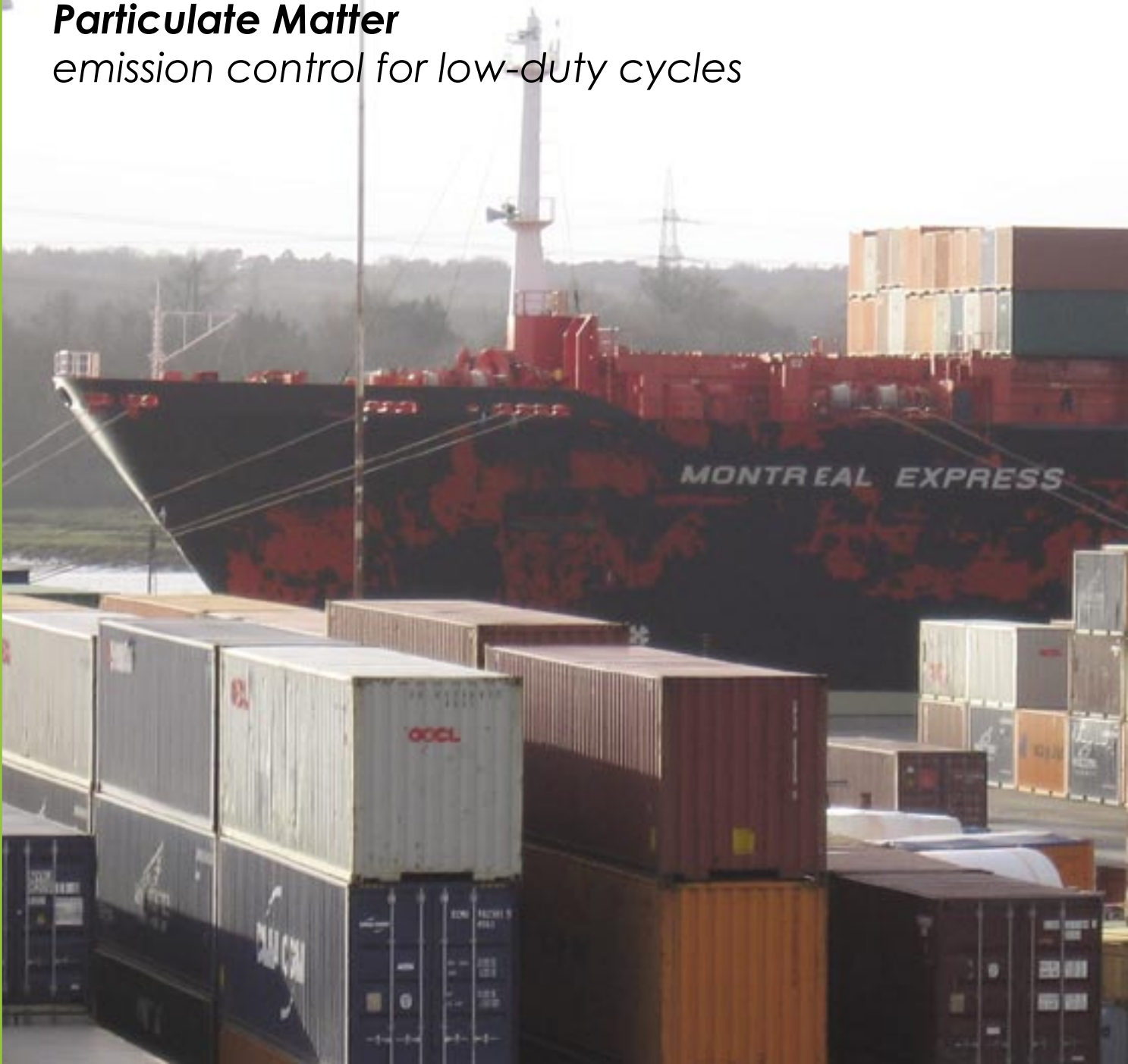
Reducing PM by up to 95%



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Particulate Matter
emission control for low-duty cycles



ACTI-TRAP™-F

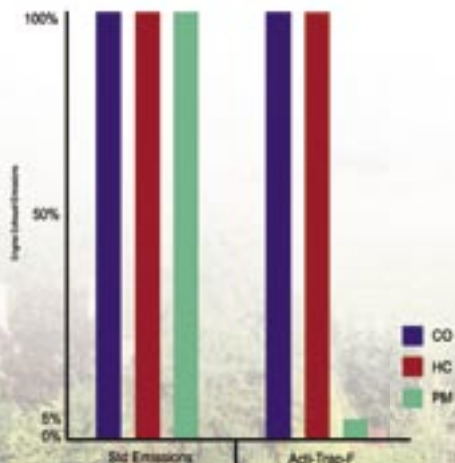
Active Regeneration System

SYSTEM OVERVIEW

Part of the Pyroban Envirosafe Active Regeneration range, Acti-Trap™- F is an exhaust particulate filter system with Active Regeneration, allowing for automatic regeneration of the exhaust filter.

- Acti-Trap - F is designed for diesel powered equipment commonly operating on low-duty cycles and can also be used on vehicles that do not run on ultra low sulphur diesel (ULSD). This includes smaller commercial vehicle, off-highway equipment such as mobile generators and larger vehicles operating light duty cycles.
- Acti-Trap - F is comprised of three primary components; the FBC catalyst dosing system, Satacen 3 and a SiC wall flow filter monitored by a sophisticated electronic control unit (ECU).
- Acti-Trap - F can remove up to 95% of Particulate Matter (PM) in the exhaust gas and can be supplied with optional precious metal catalyst, allowing further emission reductions in Hydrocarbons and Carbon Monoxide by up to 95%.

EMISSION REDUCTIONS



** Acti-Trap-F offers up to 95% reduction in PM together with active filter regeneration*

Acti-Trap-F can be combined with the Pyroban Envirosafe PTX Diesel Catalyst to reduce further emissions in both HC and CO

*** For emission reduction in CO and HC, see Pyroban Envirosafe's Acti-Trap-D*

HOW DOES IT WORK?

The Satacen 3 additive, stored in a separate on-board tank is dosed in precise amounts into the main fuel supply. The FBC additive binds itself to the PM as it is formed during the combustion cycle while any excess additive is returned into the main fuel tank.

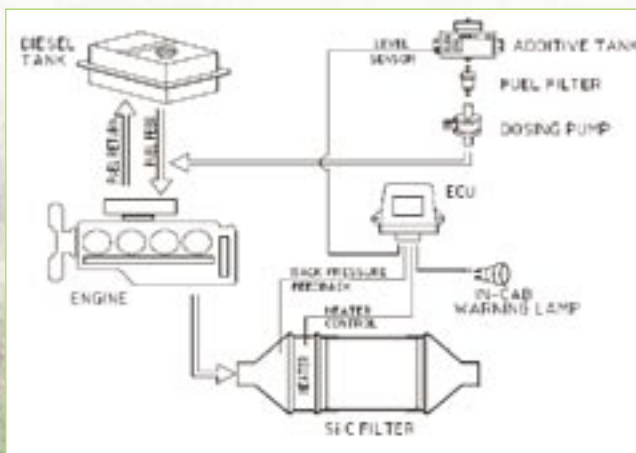
- The system includes a built-in heater in front of the filter to ensure active regeneration takes place should the engine be operating at a lower temperature cycle.
- By monitoring the back-pressure and engine speed, Acti-Trap-F automatically initiates the heater as and when required.

TECHNOLOGY

- The Silicon Carbide wall-flow filter traps PM once it has been catalysed with the Satacen 3 FBC. The particulate is then oxidised within the system filter which is extremely durable, with-standing high regeneration temperatures.
- The active regeneration system is based on a programmable control unit that can be optimised to the engine's duty cycle to ensure a robust filter performance.



(Acti-Trap-F installed onto a mobile generator)



(Diagram showing Acti-Trap-F)

ACTI-TRAP™-F

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KEY BENEFITS & FEATURES

- Acti-Trap-F is an active on-board regeneration system, minimising vehicle downtime, allowing for continuous usage and increased efficiency.
- Acti-Trap-F is designed to cope with higher PM emissions from older engines and vehicles that do not run on Ultra Low Sulphur Diesel (ULSD), offering a complete re-life for older equipment.
- Acti-Trap-F provides a reduction in PM by up to 95% and a further reduction in HC and CO when combined with the PTX diesel catalyst, ensuring the the utmost in exhaust emission reductions.
- The Acti-Trap-F is fully approved by the Energy Saving Trust.
- Acti-Trap-F's ability to run controlled filter regeneration at lower exhaust gas temperatures reduces the risk of high back pressures and subsequently potential filter blocking, common with many older forms of technology.
- The Satacen® 3 additive, stored in a separate on-board tank is dosed directly into the vehicle's fuel supply.
- The ECU controls the heaters needed for active regeneration. Acti-Trap-F's simple, well built design offers outstanding reliability, robustness and performance.



Engine Control Unit (ECU)



SiC Filter



Additive Tank

Protecting people, their investment and our environment

 *Printed on Recycled Paper*

Pyroban Envirosafe Ltd

Unit 4, Littleton Business Park, Littleton Drive, Cannock,
Staffs, WS12 4TR, United Kingdom



T. +44 (0)1543 570048 F. +44 (0)1543 574577 E. envirosafe@pyroban.com W. www.pyroban.com/envirosafe