

CYPure Diesel Particulate Filter

Model No. CY250122



Product Overview

CYPure Diesel Particulate Filters address the hazards posed by diesel engines operating in enclosed areas, where even short-term exposure can have serious and long term implications to human health.

Even the most modern Diesel Engines produce fine soot particles (PM10's), which although invisible to the naked eye, cause irritation to the eyes, respiratory tract, and in more severe cases are directly linked to lung cancer.

CYPure Diesel Particulate Filters are fully VERT approved, and reduce particulate matter emissions by up to 97%

Assembly and Operating Instructions

The CYPure Diesel Particulate Filter is designed for use with diesel engine vehicles and other diesel powered machinery. The rugged casing is made from Aircraft Grade 1.5mm stainless steel with Tool Grade Aluminium used for the filter base. The casing cover is fastened with a quick-action clasp, allowing fast and easy replacement of the filter cartridge.

The exhaust inlet and exhaust exit connections have an external diameter of 50mm as standard, which can be revised in-house to suit specific applications. The inlet end is axial, and is fixed on to the aluminium end plate.

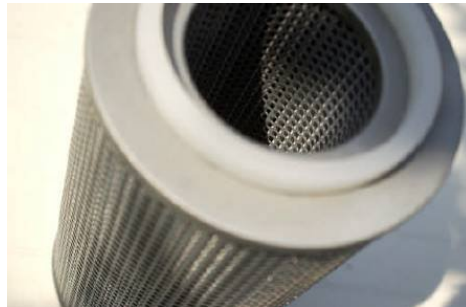
When fitting the CYPure Particulate Filter, care should be taken to ensure that the tubing leading to the filter does not become constricted. The CY Particulate Filter is not a substitute for a silencer; however it does result in improved acoustic damping.

The back pressure switch is set to 145mbar. An LED signal lamp and buzzer provide a visual and acoustic indication that a filter cartridge requires replacement.

Specifications -	Designed for Diesel engines up to 35kW (50 HP), maximum exhaust volume 460 cubic metres per hour.
Service life -	Up to 400 hours, depending on the maintenance and condition of the engine.
Contents List -	Particulate filter including 2 mounting clamps and filter cartridge. Backpressure switch with cable, printed circuit board. LED lamp, silicon breather tube for condensation draining. Connecting flange with gasket and screws.
Exhaust temperature -	Max. 350°C in continuous operation, 400°C for short-term operation, up to 30 min.
Efficiency -	Reduces up to 97% reduction of particulate matter emissions
Dimensions -	Length 440mm (490 mm including connecting flange) Diameter 250mm Overall height with base 275mm
Weight -	Particulate filter complete 16.5 kg, Filter cartridges 3.5 kg

The CYPure Diesel Particulate Filter incorporates a replaceable filter cartridge.
(Product No. CY250123)

- 4-layer filter
- Long life duty cycle
- Non-flammable



Accessories available upon request - Electric by-pass valve, manual by-pass valve, bespoke pipe work and heat shield developed in-house for individual applications.

VERT-Certification B175/12.05

Disposal of used filter cartridges: at Class II above-ground landfill disposal sites - in a tied plastic bag.

CYBRAND
LIMITED

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Case Study

Omega Access Platform

Installation Brief –

Filter to be incorporated into original equipment exhaust system, immediately after silencer, and housed within standard engine space allowing easy access.

Bespoke pipe work developed in-house to allow customer's own engineers to carry out installation on fleet.

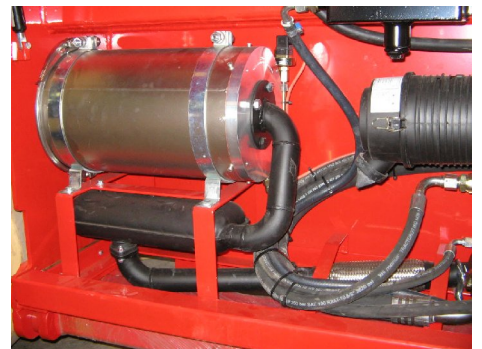
Result –

Up to 97% reduction in Particulate Matter Emissions, allowing sustained use of equipment within an enclosed environment.

References -

Health & Safety Executive publication regarding Diesel Engine Exhaust Emissions, their effects and advice for organisations and individuals:

<http://www.hse.gov.uk/pubns/indg286.htm>



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Case Study

Unic Mini Crawler Crane, model URW-506

Installation Brief –

Filter to be incorporated into the original equipment exhaust system, immediately after silencer, and housed within standard vehicle silhouette.

Bespoke pipe work was developed in-house to ensure filter was positioned away from the full operating area of the outriggers and boom.

A revised warning light and buzzer system was manufactured to customer's specification to ensure operator could differentiate from existing warning systems on the dash panel.

Result –

Free Acceleration Smoke Tests results showed a 94%* reduction in Particulate Matter (*average of 3 separate tests), allowing sustained use of equipment within an enclosed environment.

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