



ENGINE INTAKE + ON VEHICLE DPF TECHNOLOGY

"BEST IN CLASS CARBON CLEANING SOLUTIONS IN THE WORLD"



AUTOMOTIVE ENVIRONMENTAL TECHNOLOGY
WWW.CARBON-CLEAN.CO.UK

Engine Intake + DPF Reconditioning System

Introducing a new on-car DPF treatment which can be performed in any garage or by the road-side without any need for DPF removal.

Our engineers have carefully developed the system to combat various challenges by enabling the unit to be operated via a smartphone app whilst sat in the driver's seat, plus the pump unit now allows the recon fluid to be contained and supplied in larger quantities.



Key Benefits

- Controlled via free app. Smartphone or tablet 
- Specially formulated DPF reconditioning fluid 
- Single person operation 
- Perfect for mobile operatives 
- Service twin turbos in single operation 
- Suitable for any Diesel engine 

Vehicle type:  EURO 4  EURO 5  EURO 6  

DPF Reconditioning Fluid

Our specially designed recon fluid targets the carbon built-up in the DPF filter.



System Description

The system has a small calibrated nozzle that enables it to be fitted to any air intake.

The operator selects the engine size and maximum revs of the engine via the app. The app indicates the appropriate engine revs and shows a time bar for the engine run duration for each application.

The pump unit has the added advantage of being able to run the DPF recon fluid through as part of the process and can also be configured to spray through two intakes simultaneously, ideal for twin turbo / twin inlet engine configurations.

DPF Condition Analyser

There were very few ways to check the DPF without some high-tech equipment, awkward to access measurement of differential pressure sensors, or taking it off altogether for a visual inspection. We strongly recommend regular DPF checks on diesel engines.

Even if the DPF warning light doesn't appear on the dashboard, the actual DPF may be partially blocked causing various issues to your engine. This new tool takes up to three exhaust samples, whilst the engine is running at idle, and measures the mass of the particulates that have passed through the DPF. In this way the operator is given a measurement, with an indication of the condition.

Key Benefits

-  Effortless efficiency test of DPF at idle
-  Tool can be operated via free app for tablet or smartphone
-  Provides evidence of working efficiency
-  Test and measure impact of on-car/off-car services
-  Test a vehicle in under a minute
-  Store all test data
-  Single user operation

Condition Analyser Checking a DPF



DPF Condition Analyser inserted into car



Air Intake / Engine / Turbo Reconditioning Fluids

Introducing our patented formulas which are applied through the pump system. This removes surface layers of stubborn soot and carbon deposits. Suitable for Petrol and Diesel engines to offer quick carbon removal, within a workshop or at mobile locations like the roadside. We've specifically created a formula depending on your fuel system.



Carbon Build Up

Despite technology improving, turbo diesel engines still produce carbon and soot deposits causing the variable vane mechanism inside the turbo charger to stick. This results in an erratic response, over/ under boost faults, limp home mode and poor performance.

Carbon Clean's treatment on Petrol/ Gasoline engines can minimise these soot and carbon deposits which accumulate on the back of the inlet valves on Direct Injection Gasoline engines (GDI). These deposits can build up because there is no "fuel backwash" on the valves as the fuel is injected directly on the cylinder.

If untreated, these deposits will restrict the flow of air, causing the engine to run rich, lumpy and give a significant drop in power and fuel economy.

Overall Technical Specification

Dimensions
520mm H x 650mm W x 280mm D (including sample hose).
Stand footprint 270mm x 270mm.

Weight
8.13 kilos.

Stand height adjustment
150mm - 450mm.

Sample hose
500mm long x 30mm diameter J20 R3 rubber. 500mm extension with coupler

Ambient operating temperature.
0° C - 40° C.

Measurement unit Technical Specification

Operation Principle
Measurement of Pm Using light scattering

Current consumption
4A at 12V DC maximum. Average current is largely determined by ambient temperature.

Particle size range
0.30µm to >10µm. Sensitivity is reduced by 50% at 0.30 µm

Sensor life
Approximately 1500+tests. Sensor life is dependent on cumulative exposure.

User controls
START button

Injected into the air intake without turbo removal



Cures Limp mode, check engine faults



Significantly reduces engine smoke



Frees stuck turbocharger nozzels/ vanes



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