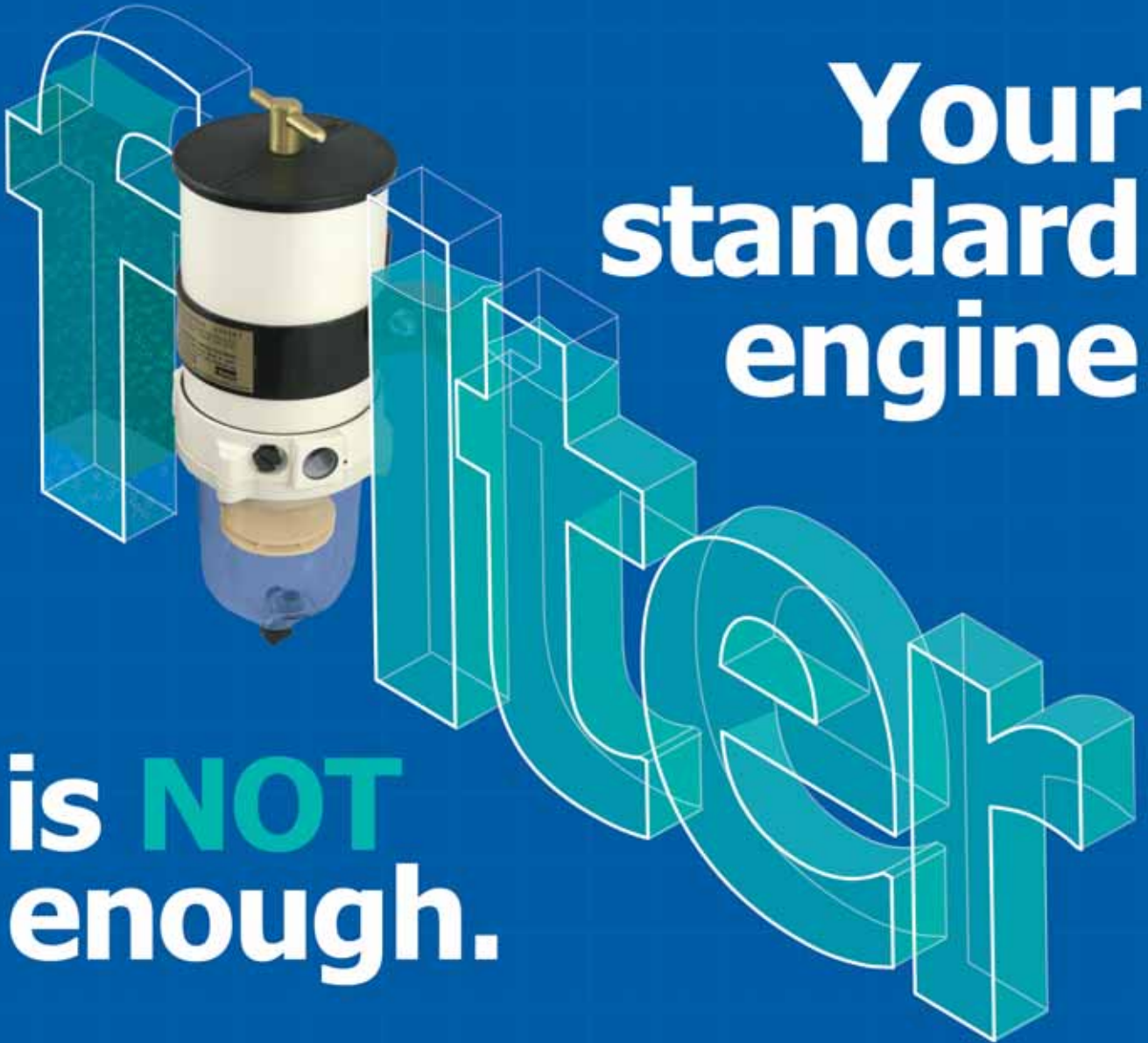


Fuel **Filtration** Solutions

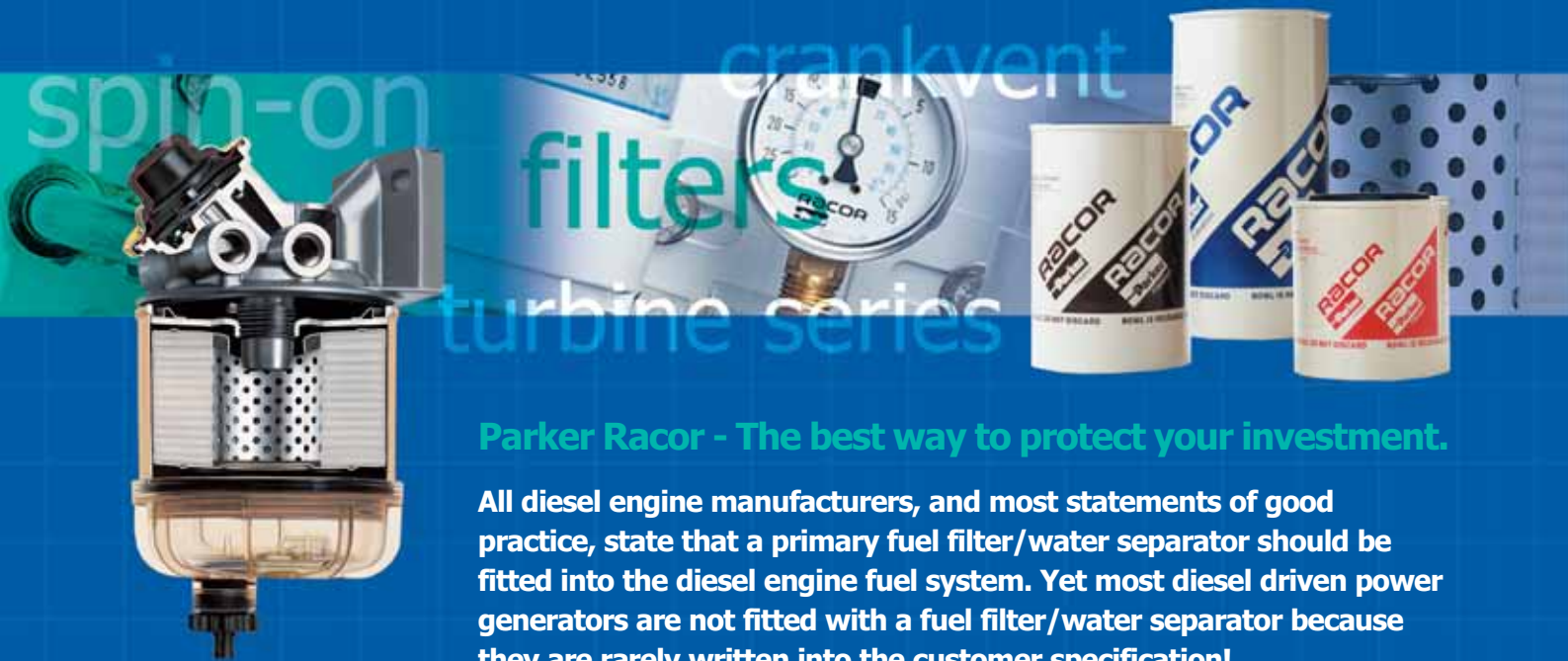


**Your
standard
engine**

**is NOT
enough.**



Fitting a Parker Racor as the primary or secondary filter protects your fuel injection system by removing free water and all particulates down to 2 microns.



Parker Racor - The best way to protect your investment.

All diesel engine manufacturers, and most statements of good practice, state that a primary fuel filter/water separator should be fitted into the diesel engine fuel system. Yet most diesel driven power generators are not fitted with a fuel filter/water separator because they are rarely written into the customer specification!

Take a look at almost any gen-set in the rental business and you will find that the majority are fitted with primary fuel filter/water separators. Look a little further and you will see that almost without exception they are Parker Racor primary fuel filter/water separators. Parker Racor offer the highest reliability at the most effective cost - a fact which has made them the first choice filter in the rental market.

Parker Racor.
The ultimate protection for expensive fuel injection systems.

Three important reasons to fit a fuel filter water separator

- 1** Water in fuel causes **premature failure** of injection system components, by breaking down the lubricity of the fuel and leaving metal parts without any corrosion protection. Water droplets also cause 'pitting corrosion' on springs which causes a weak spot and stress focus point.
- 2** At the high pressures in modern fuel injection systems (up to 2000 Bar.g.) water turns to steam, this increases the pressure at the injector nozzle, which causes **premature failure**.
- 3** Dirt in fuel causes **wear and scratches** on finely machined parts, manufacturers on-engine filters do not offer the required degree of protection against particles in the 2 μ to 10 μ range.

How does the Water Separation work?

Primary separation is achieved simply by bringing the fuel into a larger volume vessel which slows the flow rate down and enables the water to drop out, the fuel is then 'polished' by the hydrophobic Aquabloc media that has a surface coated with a 'coalescing' coating that can take the water content down to less than 30ppm.

CALL +44 (0) 121 511 0400 to find out which Parker Racor filter is best for you.



Parker Racor Turbine Series diesel fuel filters

Parker Racor Turbine Series fuel filter water separators have been protecting engines from water, particulate and other contaminants for over 30 years. They feature a patented three stage process:

- 1. SEPARATION.** The turbine centrifuge separates solids and "free" water through centrifugal action. Although the turbine series has no moving parts - over 30% of contaminants are removed at this point.
- 2. COALESCING.** Smaller water droplets and solids coalesce on the specially designed conical baffle and fall to the collection bowl.
- 3. FILTRATION.** Engines benefit from nearly 100% water separation and fuel filtration with Parker Racor proprietary **Aquabloc** water repelling media. (The filter media is available in a choice of 2, 10 or 30 microns.)

The fuel filters are easily changed by hand - by simply unscrewing the 'T' handle (by hand), then remove the element using its own handle. Then replace the element.

The **Turbine Series** are available with a see-through bowl which will not discolour from contact with alcohol or UV light. Metal bowls are also available for hazardous locations.

Parker Racor Spin-On Series diesel fuel filters

The **Parker Racor** diesel **Spin-On** series feature a variety of compact sizes to fit inside cramped engine compartments. All units in the **Spin-On** range feature replaceable filters and contaminate collection bowls except for the high-pressure 110 A.

Parker Racor elements use high capacity **Aquabloc** (tm) filter media, which effectively removes water & solid contamination. The filter media is available in a choice of 2, 10 or 30 microns.

The **Spin-On** series utilize a reusable see-through bowl, allowing full water visibility which will not discolour from contact with alcohol or UV light. Every filter in the series features a leak proof, positive seal drain which makes removal of collected water a simple process by hand.



Parker Racor CCV (Crankvent ventilation) emission filters



Parker Racor Crankcase Filtration Systems offer an effective means to filter emissions and prevent atmospheric pollution. These emissions not only pollute the air in the engine room and environment but they also contribute to increased maintenance costs.

Crankcase emissions are a result of high pressure "blow-by" around piston rings, which either escapes into the engine compartment or is ingested into the engine closed systems. Escaped emissions - an oil mist, can accumulate on engine components, compartment surfaces and equipment creating not only increased time cleaning, but creates possible safety hazards along with fuel for potential fires.

Emissions can contribute to increased engine maintenance costs as oily residues build up on critical components such as radiator cores, turbocharger blades, intercoolers and air filters. These residues act as a magnet for dust, grit and other airborne contaminants resulting in a build-up of unacceptable contamination.

Typical applications for Parker Racor filters:





IPU GROUP Engine Filtration Division

IPU Group is a specialist diesel engine product sourcing team providing customers with a one stop sourcing service with expert engineering support. IPU Group are established representatives of three market leading industry brands; Parker Racor (Diesel Fuel filters), Kim Hotstart (Engine heaters) and Cowl. Other products include crankcase ventilation systems, battery heaters, tank heaters, dc solenoids, Farr air filters, oil heaters, compact engine silencers, emission control products and engine noise reduction systems to name just a few.

Other divisions include:

- Engine Starting
- Engine Control
- Engine Heating
- Engine Silencing
- Cable Crimp Technology
- Single Sourcing

Useful contact numbers

IPU Engine Filtration

Andrew Whitehouse
Divisional Director

Office: +44 (0) 121 511 0400
 Fax: +44 (0) 121 511 0441
 Mobile: +44 (0) 7989 678317
 Email: andrew.whitehouse@ipu.co.uk

Paul Osborne
Internal Sales Manager

Office: +44 (0) 121 511 0400
 Fax: +44 (0) 121 511 0441
 Email: paul.osborne@ipu.co.uk

Jonathan Hickman
Sales Engineer

Office: +44 (0) 121 511 0400
 Fax: +44 (0) 121 511 0441
 Mobile: +44 (0) 7989 678325
 Email: jonathan.hickman@ipu.co.uk

Visit our Group website www.ipu.co.uk

IPU Group, Churchbridge, Oldbury,
 West Midlands, B69 2AS England
T: +44 (0) 121 511 0400 **F:** +44 (0) 121 511 0401
E: ipu@ipu.co.uk www.ipu.co.uk



2003/372