



POWER ELECTRICS
GENERATORS

Advanced Fuel Cleaning Systems

Power Electrics offers a range of advanced fuel cleaning systems and this brochure highlights the WB Range which ensures your fuel is kept in optimum condition and your application is protected from fuel contamination issues



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Introducing the WB range of fuel cleaning systems

If you store fuel for more than a few weeks at a time, you should have an effective fuel management system in operation. Fuel infection from water or other foreign matter can damage or destroy an engine, so maintaining its quality in storage is vital.

Such fuel contamination can take many forms, however, in addition to water you must protect your fuel from bacterial infection, yeast, mould, sediment and similar foreign matter. Good housekeeping is the key to maintaining your fuel quality.

With a flow rate ranging from 10 to 40 litres per minute, all Power Electrics WB systems are designed for ease of use. Built in Britain, the WB Range will clean your fuel automatically without the fuss.

Model Specifications for the WB Range

Model	Flow Rate	Power	Weight	Dimension (h w d)
WB-10-24	10 l/min	24v DC	16kg	650x530x240mm
WB-25-24	25 l/min	24v DC	19kg	650x530x240mm
WB-40-24	40 l/min	24v DC	26kg	600x650x400mm
WB-10-220	10 l/min	220v 50hz 1ph AC	18kg	650x530x240mm
WB-25-220	25 l/min	220v 50hz 1ph AC	21kg	650x530x240mm
WB-40-220	40 l/min	220v 50hz 1ph AC	29kg	600x650x400mm

Standard features of the range

- + Fuel cleaning to 10 micron
- + Patented centrifugal cleaning process for maximum sludge/biomass removal
- + Advanced fuel filter/water separation technology
- + Automatic shutdown on service requirement
- + Manual and Automatic modes
- + Simple remote monitoring
- + Programmable timer
- + Continually rated

Why Clean your Fuel?

Fuel (EN590 derivatives diesel, gas oil, MDO and similar) is susceptible to many different infections.

- + Water
- + Bacterial content
- + Sediment
- + Waxes
- + Oxidisation
- + Yeast
- + Asphaltines
- + Gums
- + Sludge
- + Mould
- + Biofilms

2011 saw the introduction of the new revision of the EN590 fuel regulation. In simple terms, this allows for an increased biodiesel mix and a lowering of the sulphur content to virtually zero.

Biodiesel can be great as a sustainable fuel, but it is short lived hygroscopic and very easily infected with bacteria, biomass, sediment and worst of all water. The new ruling makes fuel polishing even more vital.



Designed and built in the UK

Application Areas

Long term fuel storage environments that benefit from the Power Electrics WB Range of fuel polishing systems:

- + Data Centers
- + Banks
- + Hospitals
- + Power Generation
- + Marine
- + Agriculture
- + Standby Generators

Why wait until the lights go out?

Fuel contamination in a generator fuel tank can have a dramatic effect on your business continuity plans. This contamination should be caught by the primary filters, but the most common type (bacteria) is typically a large biomass quantity that will rapidly block filters and, if left uncontrolled, can double in population every 20 minutes.

Worse still, if the filters are not able to cope, or are not water separators, this contamination is likely to find its way to the injectors. In which case the most likely outcome is a costly engine repair.



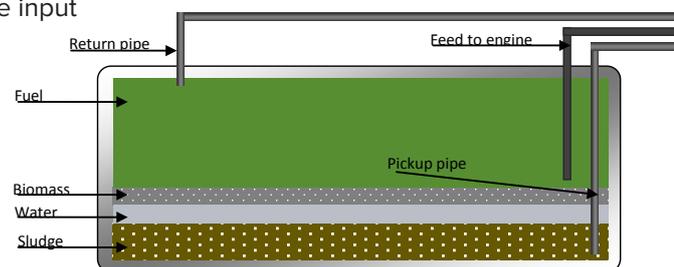
Benefits of the WB Range

Fuel cleaning can be quite complex, but the Power Electrics WB Range has been specifically designed to ensure this process is made as simple as possible. The WB Range can control fuel quality in relation to contamination issues, removing water content, biomass, sediment, and similar via our patented 5 stage centrifugal filtration process. Contamination is typically drained from the unit rather than just relying on replaceable media; extending service intervals and reducing costs. The system is electronically controlled and monitored, and its intelligent operation means it will switch itself off and warn the operator of any service requirements.

Where and how to install

The WB range of products is wall mountable by default and should be installed close to the fuel tank or tanks it is cleaning. In any typical fuel tank, the pipe feeding fuel to the engine is not at the bottom, however to successfully clean fuel, the pickup pipe going to the WB unit should ideally be right at the bottom of the tank, below the engine feed. The return pipe from the WB unit should ideally be at the top of the tank at the opposite end to the pick up; if this is not possible it can be placed above the pick up. In addition the list below highlights our recommendations.

- + Power Supply - 24v DC or 220v 50hz 1ph AC.
- + Only two pipes are required (input/pickup and output/return).
- + Non return valve on the input pipe or foot valve on the input pipe.
- + Alternatively we recommend a foot valve at the tank end of the input pipe.





A partner you can trust

Power Electrics is one of the largest independent diesel generator specialists in the UK and is a key partner to many of our customers. Founded in 1963 and still run by the same family, we continue to grow on the solid foundations and values established nearly 50 years ago.

Our fuel polishing systems take the headache out of fuel storage. Designed to be faster, more efficient and have significantly more functionality than any other similar product on the market.



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