

The WB range of fuel polishing systems

Fuel polishing made simple by WASP PFS Ltd

If you store fuel for more than a few weeks, you need to 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 whilst in storage is vital.

Such fuel contamination can take many forms; in addition to water you must protect your fuel from bacterial infection (the fuel bug), yeast, mould, sediment, and similar foreign matter.

Good housekeeping is the key to maintaining your fuel quality.

A WASP fuel polishing system automates the fuel housekeeping process.

Ranging from 10 to 40 litres per minute, all WASP WB systems have the same key features in common. Simplicity, ease of use and a precise efficient functionality are vital, but above all else, it has to do the job.

These British built systems will clean your fuel automatically, removing water, bacterial infection, sludge solid and semi-solid contaminants from your fuel without fuss.



WB-40-220

BENEFITS OF THE WASP WB RANGE

Fuel cleaning can be quite complex, but the WASP WB range has been specifically designed to ensure this process is made as simple as possible. Our units can control fuel quality in relation to contamination issues, removing water content, biomass, sediment, and similar via our patented 5 stage centrifugal filtration process.

Moreover 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; its intelligence means it will switch itself off and warn the operator of any service requirements.

Simple, foolproof, fuel cleaning.

WB Range Fuel Polishing Systems

Rev 1602

Maintaining optimum fuel quality



WB-40-220-E

PROTECTION FOR YOUR ASSET

Advanced filtration solutions - Low Cost - High Performance

WB-10 range

Model	Flow rate	Power	Weight	Dimension (h w d)
WB-10-24	10 lit/min	24v DC	14kg	700x600x300mm
WB-10-12	10 lit/min	12v DC	14kg	700x600x300mm
WB-10-220	10 lit/min	220v 50hz 1ph AC	18kg	700x600x300mm

Options available for portable (-P) and enclosed (-E) systems

WB-25 range

Model	Flow rate	Power	Weight	Dimension (h w d)
WB-25-24	25 lit/min	24v DC	19kg	700x700x400mm
WB-25-12	25 lit/min	12v DC	19kg	700x700x400mm
WB-25-220	25 lit/min	220v 50hz 1ph AC	21kg	700x700x400mm

Options available for portable (-P) and enclosed (-E) systems

WB-40 range

Model	Flow rate	Power	Weight	Dimension (h w d)
WB-40-24	40 lit/min	24v DC	26kg	700x700x400mm
WB-40-220	40 lit/min	220v 50hz 1ph AC	29kg	700x700x400mm

Options available for portable (-P) and enclosed (-E) systems

Standard features across the ranges

- Fuel cleaning to 10 micron
- Patented centrifugal cleaning process for maximum sludge/biomass removal
- Advanced fuel filter/water separation technology
- Automatic shutdown on any service requirement
- Manual mode
- Automatic timer mode
- Remote control mode
- Simple remote / BMS monitoring
- Programmable timer (daily and weekly modes)
- Continually rated pump
- Fuel conditioning stage
- Visual indication of status
- PLC controlled

More Flexibility?

The WB range is designed to meet your first level needs for fuel polishing. However we do appreciate some locations may require greater flexibility or a finer clean. The WASP W-PFS range is the option to chose if you require multiple tank cleaning, touch screen control, full BMS monitoring, modbus, internet connectivity, 2 micron or lower cleaning and more.

Please ask for details.

WHY CLEAN YOUR FUEL?

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

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

The EU recently saw the introduction of the new EN590 (diesel) fuel regulation. Simply put, this is an increased biodiesel mix and a lowering of the sulphur content to virtually zero. The next change is coming soon, meaning even more biodiesel.

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

Cleaning fuel?

You need **Water And Sediment Protection**.

You need **WASP!**



WB-10-220



WB-25-220



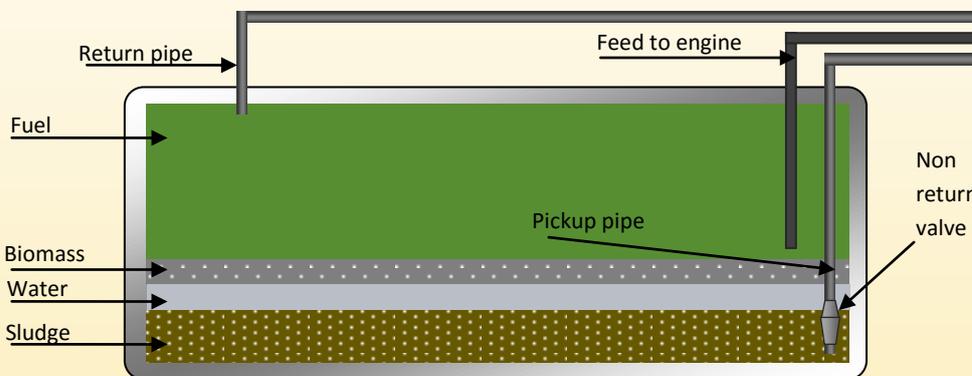
WB-40-220

WHERE AND HOW TO INSTALL

The WB range of products is wall mountable by default (please ask about other options), 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 be right at the bottom of the tank, below the engine feed pipe. Drain points make ideal input feeds to the system.

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 the top of the tank at the same end is acceptable. Apart from that, the list below highlights our recommendations.

- A fused spur is required to power the system (12v DC, 24v DC or 220v 50hz AC).
- Only two pipes are required (input/pickup and output/return)
- We recommend a non return valve on the input pipe
- Alternatively we recommend a foot valve at the tank end of the input pipe



HOW OFTEN TO RUN

We recommend cleaning your fuel at least every 2 weeks. Most customers choose to clean their tanks once per week, with the systems running a couple of hours every day to get to the total run time.

To calculate your run time, take the tank size (in litres) and divide it by the flow rate of the system. Divide by 60 to get a run time in hours, but add 15-20% to allow for recirculation. Running a few hours a day is better than all at once, but the system is continually rated and can be left running 24/7 if needs be.

For example: A WB-10-220 would be set to clean a 5,000 lit tank by running for 2 hours per day, 5 days per week.

APPLICATION AREAS

Long term fuel storage environments that benefit from the WASP 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 at 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 service or even rebuild.

ADVANCED CLEANING MADE SIMPLE

WASP PFS Ltd has specialized in fuel polishing systems and utilizes its expertise in a way no other company can match. In the WB range the utilisation of advanced filtration technology coupled with ease of use and self controlling devices mean fuel cleaning is as simple as it is vital.



A PARTNER YOU CAN TRUST

Understanding of the issues of fuel is at the heart of any WASP system, as is an understanding of what is required not only to keep fuel clean, but how to achieve it with minimal fuss.

We are the market leaders in fuel cleaning technology, and have been supplying fuel cleaning systems for longer than anyone else. We are the largest suppliers in Europe for these systems, and our experience in this market means we are years ahead of other systems in terms of technology, performance and functionality.

Our patented centrifugal cleaning process means we stand out in the market. Then there is the anti-bacterial function, not only do we control and remove the live bacterial content, but we also neutralise any small bacterial matter that is left.

So in summary, our systems are better developed, faster, more efficient and have significantly more functionality than any other in the market today. With functionality like this, it's no wonder we are No. 1 in the industry.

So when it comes to ensuring your fuel is clean, who are you really going to trust?

In our view it's better to be a partner than a supplier; please contact us for more details.



Maintaining optimum fuel quality

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**Designed and
Manufactured
in the UK**



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