

FBO Series

Long Life High Performance Diesel Filtration Elements



The Engine & Mobile Filtration Division EMEA (EMFE) have developed a new Aquabloc3D coalescing filtration media representing a technological step change in diesel fuel filtration and water separation. The new elements enables operators to meet the challenges of dealing with increasingly sophisticated fuel, and an ever-more demanding commercial environment. The new FBO elements offer up to 50% longer service life and considerably improved water separation in fuels which contain biodiesels. Furthermore new deaeration features allow the elements to work in suction applications more effectively and efficiently.

What is Aquabloc3D?

Aquabloc3D uses three distinct elements to actively remove impurities, then coalesce or grow large water droplets from emulsified water in the fuel, before a final barrier stage prevents re-entrainment of the water. Aquabloc3D is Parker's newest coalescer media design and is an upgrade which should be offered in preference to Parker's existing coalescers for the FBO Series. The new grade of media also enables a coalescer elements to be used in poor quality fuels, where only an absorber had previously been applied.

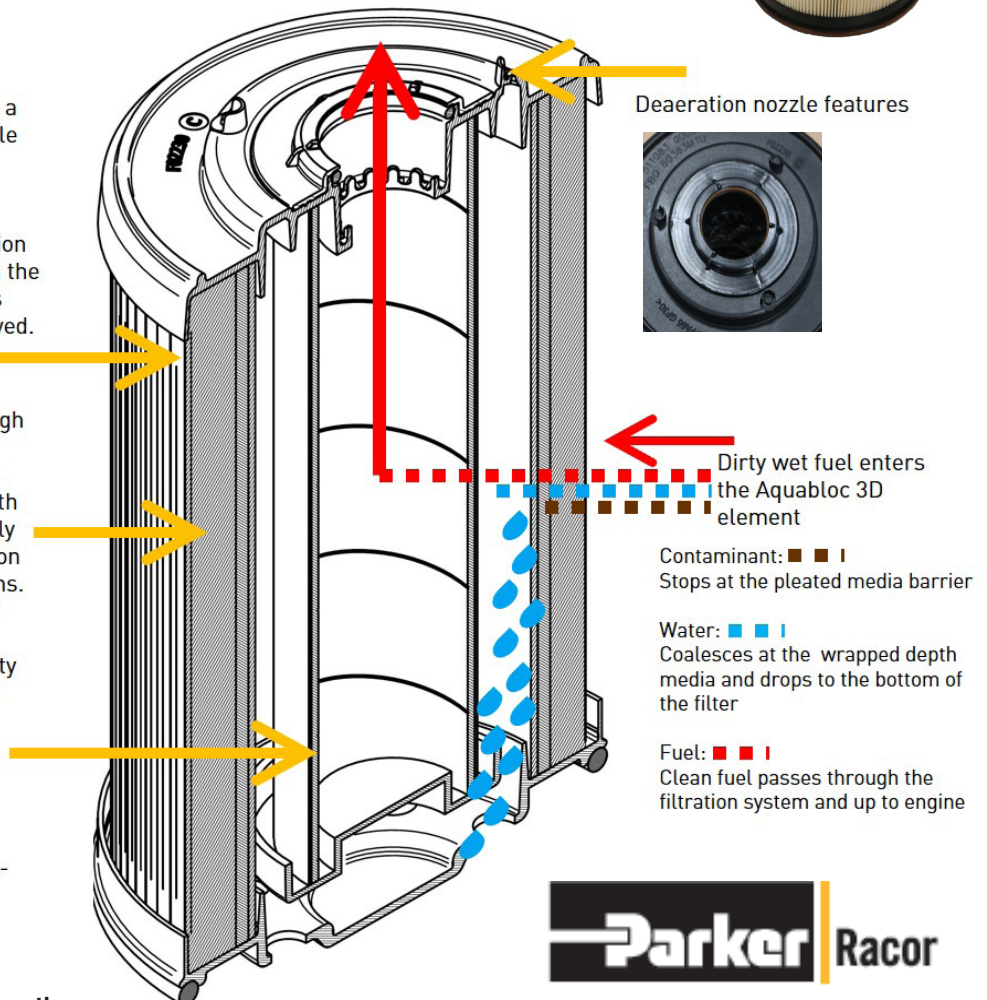


How does it work?

Stage 1:- Firstly, the fuel encounters a high capacity synthetic pleated particle filtration media. This unique pleated design maximises the surface area, whilst ensuring consistent flow, and delivering exceptional particle retention efficiency. As the fuel passes through the pleat pack, larger unwanted particles such as dirt and impurities are removed.

Stage 2:- Next, the fuel passes through multiple wrapped layers of plasma treated coalescer depth media. Here, the partially-filtered fuel interacts with the multi-density coalescer, effectively growing water droplets of >200 micron from emulsified droplets of <5 microns. These large droplets then drop out of the flow stream through gravity, to a collection bowl separating the majority of the emulsified water from the fuel.

Stage 3:- Finally, before the fuel leaves the filter, there is a central hydrophobic woven mesh cartridge which prevents any of the now large droplets from exiting the filter and re-entraining into the fuel stream.



* Part numbering and specification over the page.

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Part numbering and specification:

The table below shows all the FBO replacement elements including the Advanced 3D Coalescer options available to you. Parker would suggest replacing 5, 10 and 25 micron coalescers with the new Aquabloc3D element.

FBO	Micron Rating	Particulate (pre-filter)	Water Absorber	Coalescer / Separator	Advanced 3D Coalescer
10/ FBO-10 (6 X 10 Filter)	1	FBO 60330	FBO 60333	FBO 60327	-
	5	FBO 60331	FBO 60334	FBO 60328	-
	10	FBO 60354	FBO 60355	FBO 60353	FBO 60363
	25	FBO 60332	FBO 60335	FBO 60329	-
14/ FBO-14 (6 X 14 Filter)	1	FBO 60339	FBO 60342	FBO 60336	-
	5	FBO 60340	FBO 60343	FBO 60337	-
	10	FBO 60357	FBO 60358	FBO 60356	FBO 60364
	25	FBO 60341	FBO 60344	FBO 60338	-

Existing Product Offering

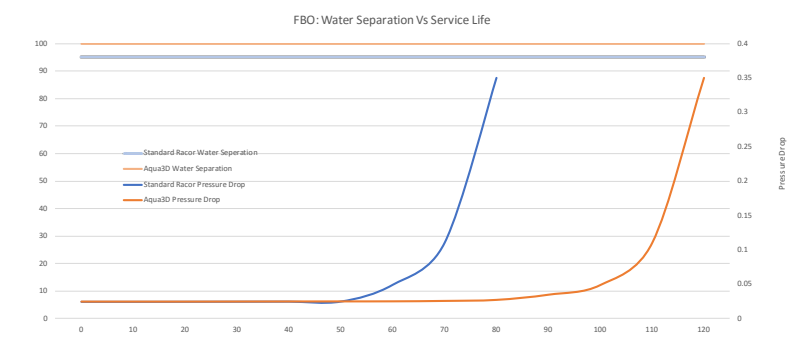
Available NOW

Replace with New Advanced 3D Coalescer elements

Available Oct 2017



The graph below shows that the new Aquabloc3D media used in the FBO elements has improved water separation and also increased dirt holding capacity which extends the service life of the filter.



Product Benefits

- Innovative three stage filtration technology for outstanding fuel purity
- Unique pleated media design ensures effective filtration with maximum flow
- New deaeration features allowing greatly improved usability in suction applications
- Innovative design and proven performance, delivering reduced downtime and maintenance, lower total cost and longer working life
- Direct upgrade alternatives available for many existing installations- just upgrade performance at service

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