

Fuel Dispensing Filtration

FBO Fuel Filter Water Separator
FBO-14 for School Bus Fleet

Market Application Publication



The Challenge

The school bus fleet had a severe problem with water in their fuel causing the need for expensive repairs to their fuel injection systems as well as extended down time. This was a strain on the maintenance budget and their ability to provide bus service for students.

Why Racor was Chosen as the Solution

Racor's FBO-14 was chosen for the ease of service, water removal capability, and ease of installation. The FBO provided a cost effective solution for the school bus fleet resulting in the end of fuel injection issues. The school buses can now stay in service.



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The Solution

The FBO-14 fuel filter/water separator was chosen as the solution.

- Heavy-duty assembly
- No tools required for filter changeouts
- Water separator element
- Sight glass
- Drain valve

Customer Experience

"We are happy we choose the Racor FBO product to solve our water-in-fuel problem at the pump rather than in each of our school bus fuel tanks. We would highly recommend Racor products to anyone that has water in fuel issues. This FBO product has helped to leave out maintenance budget for other repairs and taken the fuel issues out of the daily concern."



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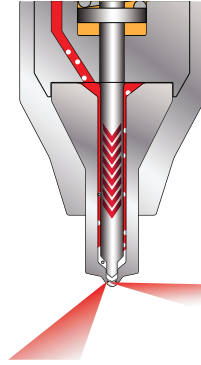
How the Solution Works

Fuel Dispensing is the last stop before fuel is introduced to the engines fuel system.

Fuel enters the FBO filter system, where Racor engineered media stops water and particulates. The result is clean, dry fuel being dispensed from the fuel pump. In turn, the cost effective pre-filtration system provides clean, dry fuel to equipment. Several options of elements are available to meet any diesel fuel filtration requirements.

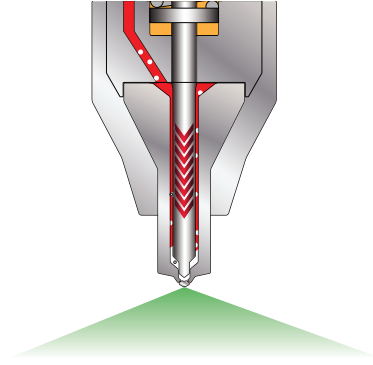
Racor's FBO filter assemblies are designed to meet the toughest refueling conditions and provide for easy cartridge change outs.

Abrasive wear can only be reduced by removing abrasives from the fuel. Pre-filtration is needed to transform cleanliness level of the fuel supply to meet operating requirements of on-board filters.




Clogged Injector

Clogged Injectors can cause uneven fuel dispersement, leading to miss-fires and possible engine failure.



Clean Injector

Filter Cartridge Chart

FBO	Micron Rating	Water Separator	Silicone Treated Filter	Water Absorber
 <p>FBO-14-DPL (6 X 14 Element)</p>	1	FBO 60336	FBO 60339	FBO 60342
	5	FBO 60337	FBO 60340	FBO 60343
	10	FBO 60356	FBO 60357	FBO 60358
	25	FBO 60338	FBO 60341	FBO 60344



Technical Information

Specifications	Maximum Flow Rates			Clean	Change
	Diesel	Gasoline	Kerosene	Delta P	Delta P
Silicone Treated Filter	30 GPM (113 LPM)	75 GPM (284 LPM)	50 GPM (189 LPM)	2.5 PSID	15 PSID
Water Separator	25 GPM (95 LPM)	45 GPM (170 LPM)	30 GPM (113 LPM)	2.5 PSID	15 PSID
Water Absorber	25 GPM (95 LPM)	70 GPM (265 LPM)	55 GPM (208 LPM)	2.5 PSID	30 PSID