

Fuel Dispensing Filtration

FBO Fuel Filter Water Separator
FBO-14-DPL on 2014 IHC Fuel Truck

Market Application Publication



The Challenge

The customer uses bulk fuel trucks to go out to highway construction sites to re-fuel equipment. They were concerned about the quality of the fuel being transported and the need to provide clean/dry fuel to the field equipment. They wanted to make sure they eliminated unnecessary downtime due to bad fuel.

Why Racor was Chosen as the Solution

The customer had been using FBO units on their fuel dispensing pumps with great success and felt that this was the best solution. The fuel truck had small spin-on filters which were replaced with the FBO-14-DPL with a 10 micron element. The customer likes the ease of service, ability to drain water, and extended filter life they are getting from the FBO system. Another great benefit is the decrease in injection related problems on their equipment.

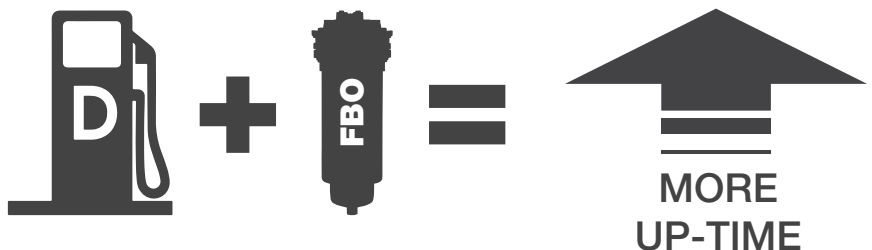


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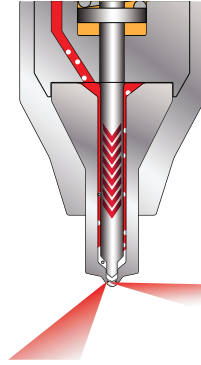
How the Solution Works

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

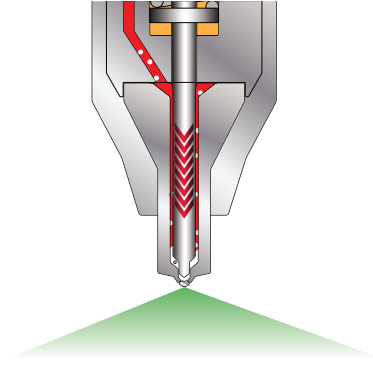
Fuel enters the FBO filter system, where Racor engineered media stops water and particulates. The result is clean, dry fuel being dispensed from the fuel pump. In turn, the cost effective pre-filtration system provides clean, dry fuel to equipment. Several options of elements are available to meet any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

Racors' 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



Clean Injector

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

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