

Fuel Dispensing Filtration

FBO Fuel Filter Water Separator
FBO-14-DPL

Market Application Publication



The Challenge

The Polk County School District maintains a bus fleet. The fleet began experiencing issues with their diesel engine fuel injection systems. This increased service cost as well as maintenance down-time. After inspection, it was discovered that the fuel dispensing pump did not use any type of dispensing filter.

Having access to clean diesel fuel has always been an important way to ensure machine uptime and reduce costly repairs and warranty claims. But in today's diesel engine world, clean fuel has taken on a whole new importance. Modern fuel injection system components are machined to tight tolerances to help boost injection pressures. To avoid injection system damage, efficient fuel filtration throughout the entire delivery stream is a must.

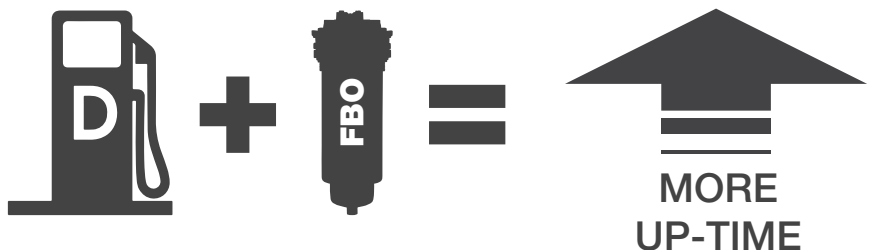


Contact Information

Parker Hannifin Corporation
Racor Division
P.O. Box 3208
3400 Finch Road
Modesto, CA 95353

phone 800 344 3286
209 521 7860
fax 209 529 3278
racor@parker.com

www.parker.com/racor



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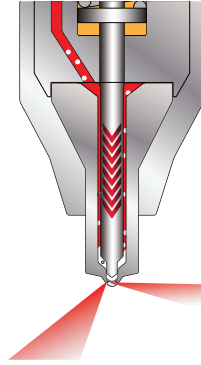
How the Solution Works

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

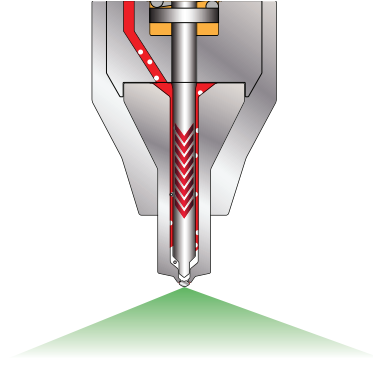
Fuel enters the FBO filter system, where Racor engineered media stops water and particulates. The result is clean, dry fuel being dispensed from the fuel pump. In turn, the cost effective pre-filtration system provides clean, dry fuel to equipment. Several options of elements are available to meet any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