

# Fuel Dispensing Filtration

FBO Fuel Filter/Water Separator  
FBO-14-DPL

## Market Application Publication



### Application

Fuel Dispensing Pumps for the State of North Carolina Department of Transportation.

### Customer Challenge

The customer's fuel dispensing pumps contain bio-diesel and E85 fuels, installed with water absorbing spin-on elements, filtering between 800 to 900 gallons of fuel, before plugging up and shutting down fuel flow. This happens during vehicle fueling, causing a great deal of time to be lost while waiting for a filter changeout.



### Contact Information

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### Why Racor was Chosen as the Solution

The FBO-14-DPL is the best solution because of size, ease of service, ability to drain the water and the differential pressure indicator telling them when to change the filter element. The customer is now getting 13,000 to 15,000 gallons

before change out on the elements. Another advantage is the wide variety of element options. Currently the filtration used is a 5 micron element on their E85 pumps and 10 micron on the bio-diesel pumps.

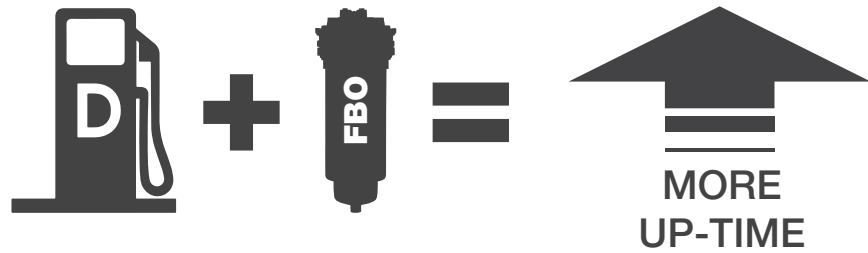


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## The Solution

FBO fuel dispensing FF/WS, part number FBO-14-DPL.

- Heavy-duty assembly
- Water separator element
- Delta P gauge
- Sight glass
- Drain valve




## How the Solution Works

FBO assemblies are specifically designed to meet the filtration requirements for fuel dispensing pumps. The assembly features a “locking ring collar” that allows maintenance personnel to hand loosen the four collar bolts, rotate, and lower the bowl assembly for filter changeouts. No wrenches or other special tools are required, allowing one person to easily change the filter cartridge. Replacement filter options include; water separator (the most popular), silicone treated are used for upstream applications and water absorber absorbs water and filter contaminants.



## Filter Cartridge Chart

FBO	Micron Rating	Water Separator	Silicone Treated Filter	Water Absorber
 <p><b>FBO-14</b> (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
	FBO-14 Diesel	FBO-14 Gasoline	Delta P	Delta P
Silicone Treated Filter	30 GPM (113 LPM)	75 GPM (284 LPM)	2.5 PSID	15 PSID
Water Separator	25 GPM (95 LPM)	45 GPM (170 LPM)	2.5 PSID	15 PSID
Water Absorber	25 GPM (95 LPM)	70 GPM (265 LPM)	2.5 PSID	30 PSID