

Fuel Dispensing Filtration

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

Market Application Publication



The Challenge

The county bus fleet was experiencing fuel injection system failures due to water and contamination in their fuel supply. This required ongoing expensive fuel system repairs and unscheduled downtime. This put a strain on their maintenance budget and interfered with 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 county bus fleet resulting in the end of fuel injection issues and reduced maintenance costs.



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The Solution

The FBO-14 fuel filter/water separator was chosen as the solution. One unit installed on the gasoline fuel pump and one unit installed on the diesel fuel pump.

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



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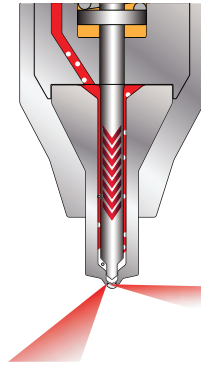
How the Solution Works

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

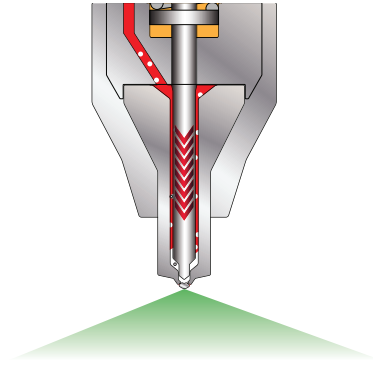
Fuel enters the FBO filter system, where Racor engineered media stops water and particulates. The result is clean, dry fuel being dispensed from the fuel pump. In turn, the cost effective pre-filtration system provides clean, dry fuel to equipment. Several options of elements are available to meet any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



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 |