FB0-10 and FB0-14

Fuel Filter/Water Separator For High-Flow Applications



These versatile housings have three filter options to meet various requirements: a fuel filter/water separator, a silicone treated filter, and a water absorber. For fuel dispensing applications the fuel filter/water separator filter is recommended.

FBO-10 and FBO-14 filter assemblies are designed to meet the toughest hydrocarbon refueling conditions and designed for easy cartridge changeouts.

The FBO assembly can be used on mobile refuelers or installed in refueling cabinets. The FBO unit can also be used for diesel fuel dispensing pumps, as a primary fuel filter/water separator for large diesel engines, or as bulk fuel handling, fuel transfer, and other higher flow applications.



Contact Information

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Product Features

- Die-cast aluminum head
- Steel filter bowl assembly
- Powder coated components
- Mounting bracket
- Locking ring collar "no V-clamps"
- 1.5" NPT inlet and outlet
- Viton[®] seals for compatability to various fuels

Note: Viton[®] is a registered trademark of DuPont[™]

- Designed to withstand a max pressure of 150 PSI (10 bar) and a max temperature of 240°F (115°C)
- Manual drain valve (1/4" NPT)
- Manual vent valve
- Sight glass (1/2" NPT)
- 120 volt AC explosion proof heater option available
- Wide variety of accessories, filters and applications available



Application

FBO assemblies are specifically designed to meet the filtration requirements of today's high pressure common-rail diesel injection systems. The unit is used for fuel dispensing pumps or as a primary fuel filter/water separator on large diesel engine applications.

FBO-10 and FBO-14 filter assemblies were designed to meet the toughest conditions and offer ease of filter change outs. The FBO assembly can flow from 10 GPM (38 LPM) to 75 GPM (284 LPM), depending on which model, filter, and type of fuel to be filtered.

The assembly features a "locking ring collar", which attaches the filter housing to the aluminum die

cast filter head with four bolts. The slotted "locking ring collar" allows maintenance personnel to hand loosen the four collar bolts, rotate, and lower the bowl assembly for filter changeouts.

With a new filter cartridge installed, simply raise the bowl and rotate into position on the locking ring and hand tighten evenly (evenly torquing the 4 closure bolts to 100 lb-in is highly recommended).

The closure hardware consists of stainless steel nuts, bolts, and washers with metal hand knobs for ease of maintenance. No wrenches or other special tools are required, allowing one person to easily change the filter cartridge (no V-band clamps

are used).

Biodiesel Filtration

FBO assemblies are great for biofuel applications because of ease of service, rugged construction, and the optional electric heater.

Biodiesel is known to attack certain synthetic rubber compounds so Viton o-rings are used to prevent o-rings from swelling, softening, shrinking, or hardening.

Racor recommends using a thermostatically controlled electric heater in the head and/or filter bowl to help avoid biofuel waxing and gelling. Pour point suppressants and biocides are necessary for reliable operation.



FBO Comercial Application



FBO Commercial Application



FBO Commercial Application

New Additions

New to the FBO family of filters are the Racor heavy duty Fuel Recycler Cart and the FBO Duplex Stand. The filter cart polishes, cleans up, and recycles old or contaminated fuel. It can be used in preventative maintenance as a servicing unit. The all aluminum construction keeps it lighter for mobility purposes, while being durable and corrosion resistant for many years of operation.

By popular demand FBO Duplex Stand was designed with continuos duty applications in mind. The Duplex Stand assembly allows the isolation of one filter at a time for servicing while the engine is running.

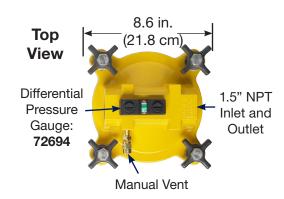




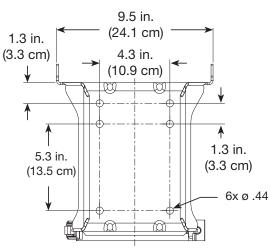
Technical Information

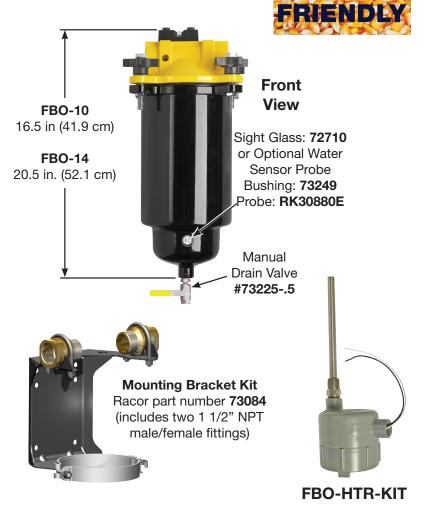
Specifications		Clean	Change		
FBO-10	Diesel	Gasoline	Kerosene	Delta P	Delta P
Silicone Treated Filter	25 GPM (95 LPM)	53 GPM (200 LPM)	35 GPM (132 LPM)	2.5 PSID	15 PSID
Water Separator	20 GPM (76 LPM)	32 GPM (121 LPM)	21 GPM (79 LPM)	2.5 PSID	15 PSID
Water Absorber	20 GPM (76 LPM)	45 GPM (170 LPM)	35 GPM (132 LPM)	2.5 PSID	30 PSID
FBO-14	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

FBO Mounting Information



Mounting Bracket Hole Pattern

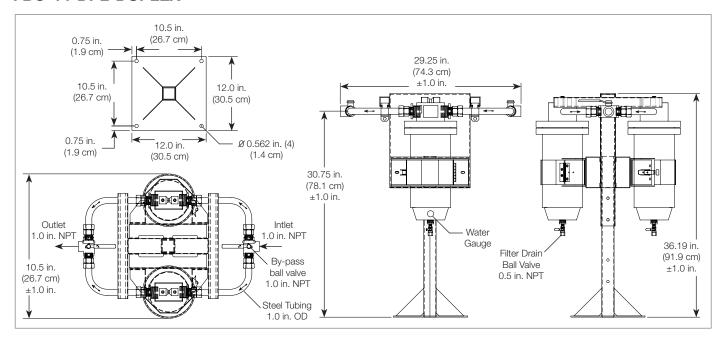




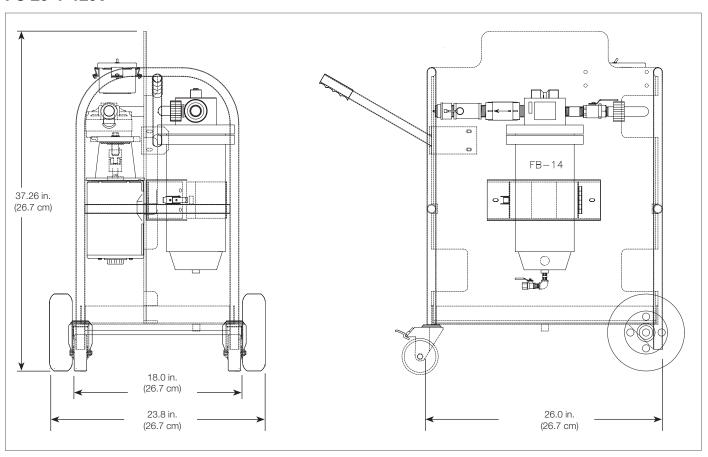
BIOFUEL

FBO Details

FBO-14-DPL-DUPLEX



FC 20-1-120V



Replacement Filters

Filters are used to protect the OEM supplied fuel system.

Water Separator

Water separator filters remove water and contaminants from hydrocarbon fuel streams and are the most popular filters.

Silicone Treated

Silicone treated fuel filters remove particle contaminants down to one micron.

Silicone filters can also be used upstream, before a fuel filter/water separator, to extend filter life.

Water Absorber

Water absorber filters absorb water and filter out contaminants from diesel fuel and other hydrocarbon streams.



Filter Cartridge Chart

FB0	Micron Rating	Water Separator	Silicone Treated Filter	Water Absorber
:	1	FB0 60327 FB0 60360 ²	FB0 60330	FB0 60333
W .	5	FB0 60328	FB0 60331	FB0 60334
FBO-10	10	FB0 60353	FB0 60354	FB0 60355
(6 X 10 Element)	25	FB0 60329	FB0 60332	FB0 60335
	1	FB0 60336 FB0 60361 ²	FB0 60339	FB0 60342
- 1	5	FB0 60337	FB0 60340	FB0 60343
FBO-14 ¹	10	FB0 60356	FB0 60357	FB0 60358
(6 X 14 Element)	25	FB0 60338	FB0 60341	FB0 60344

¹ 72951 Monitor Adapter Plate enables the FBO-14 to take five, RMO-210-4 monitor elements.

² API/EI 1581 5th Edition filters are certified for jet fuel applications.

How to Order

Below is a guide to help order a FBO assembly with the accessories you need.

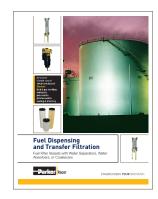
Assembly	Filter Cartridge (see previous page)	Delta P Gauge	Sight Glass	Drain Valve	Mounting Bracket
FB0-10	Order Separately				
FBO-10-DP	Order Separately	Χ			
FBO-10-DPL	Order Separately	Χ	Χ	Χ	
FB0-10-25M	FB0 60332	Χ	Χ	Χ	
FB0-10-HTR ¹	Order Separately	Χ	Χ	Χ	
FB0-14	Order Separately				
FB0-14-DP	Order Separately	Χ			
FBO-14-DPL	Order Separately	Χ	Χ	Χ	
FB0-14-25M	FB0 60341	Χ	Χ	Χ	
FB0-14-HTR ¹	Order Separately	Χ	Χ	Χ	
FB0-14-BKT-10F	FB0 60357	Χ	Χ	Χ	Χ
FB0-14-BKT-10FW	FB0 60358	Χ	Χ	Χ	Χ
FB0-14-BKT-10FWS	FB0 60356	Χ	Χ	Χ	Χ
FB0-14-BKT-25F	FB0 60341	Χ	Χ	Χ	Χ
FB0-14-BKT-25FW	FB0 60344	Χ	Χ	Χ	Χ
FBO-14-BKT-25FWS	FB0 60338	Χ	Χ	Χ	Χ
FB0-14-DPL-DUPLEX	Order Separately	X	X	Χ	

¹Note: Includes 120 volt AC explosion proof heater for stationary applications only.

Additional Information



The Racor mobile fuel polishing cart (FC-20-1-120V or FC-20-1-120V-KIT) are built with the robust FBO-14-DPL technology and are stocked and available. See brochure # 7872 for more details.



For more information of filtration in fuel dispensing applications, see brochure # 7648.



Additional information is available for high flow fuel filtration application in brochure # 7537.