

Turbine Series

Turbine Series



All Racor filter materials and seals are compatible with ultra-low sulphur diesel (ULSD) fuel and B2 to B20 Biodiesel. See Racor bulletin 7679.



And more...

Turbine Series Electric Primer Pump

The Turbine Series Electric Primer Pump Kits can be retrofitted to many of the Racor 900 or 1000 series fuel filters already in service. The Filter Pump is an innovative and proprietary system consisting of a pre-screen filter, a flow bypass circuit and a roller cell pump powered by a DC motor. When the switch is activated the fuel is drawn into the pre-screen and then pumped through the housing, refilling the unit with fuel. When not in use the Filter Pump system is bypassed and the Racor fuel filter/water separator functions normally.

The RKP1912, 12V DC Kit, contains a traditional brushed motor design. The RKP1924, 24V DC Kit, contains innovative brushless motor technology.

The use of this primer pump kit allows the operator to easily re-prime the Racor Filter/Separator directly from the fuel storage tank with no mess

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Turbine Series filter assemblies are designed to be installed on the vacuum side of the fuel transfer pump for best efficiency and protect precision engine components from dirt, rust, algae, asphaltines, varnishes, and especially water, which is prevalent in engine fuels. They remove contaminants from fuel using the following legendary three stage process:

Stage One: Separation

As fuel enters the filter assembly, it moves through the centrifuge and spins off large solids and water droplets which fall to the bottom of the collection bowl.

Stage Two: Coalescing

Small water droplets bead-up on the surface of the conical baffle and cartridge element. When heavy enough, they too fall to the bottom of the bowl.

Stage Three: Filtration

Proprietary Aquabloc^{II} cartridge elements repel water and remove contaminants from fuel down to two micron (nominal). They are waterproof and effective longer than water absorbing elements.

Features and Benefits

- Available in several sizes to fit any application.
- Heavy duty construction.
- Installs quickly.
- Available in 2, 10, and 30 micron.
- Easy to service.
- Clear collection bowl.
- Self-venting water drain.

Optional accessories may include: water detection kits, 12 or 24 volt dc heaters, heavy-duty fuel hose and fittings. see Accessories section.

Turbine Series

Turbine Series Overview



Specifications	500FG	900FH	1000FH
Maximum Flow Rate: (one unit online) (two units online) (three units online)	60 GPH (227 LPH) N/A N/A	90 GPH (341 LPH) N/A N/A	180 GPH (681 LPH) N/A N/A
Port Size (female threads)	3/4"-16 UNF (SAE J1926)	7/8"-14 UNF (SAE J1926)	7/8"-14 UNF (SAE J1926)
Min. Service Clearance: (above assembly) (below assembly)	5.0 in. (12.7 cm) 2.0 in. (5.1 cm)	7.5 in. (19.1 cm) 2.0 in (5.1 cm)	10.0 in. (25.4 cm) 2.0 in. (5.1 cm)
Replacement Element: (2 micron) (10 micron) (30 micron)	(1 Per Assembly) 2010SM-OR 2010TM-OR 2010PM-OR	(1 Per Assembly) 2040SM-OR 2040TM-OR 2040PM-OR	(1 Per Assembly) 2020SM-OR 2020TM-OR 2020PM-OR
Height	11.5 in. (29.2 cm)	17.0 in. (43.2 cm)	22.0 in. (55.9 cm)
Depth	4.8 in. (12.2 cm)	7.0 in. (17.8 cm)	7.0 in. (17.8 cm)
Width	5.8 in. (14.7 cm)	6.0 in. (15.2 cm)	6.0 in. (15.2 cm)
Weight (dry)	4.0 lb (1.8 kg)	6.0 lb (2.7 kg)	10.0 lb (4.5 kg)
Clean Pressure Drop	0.25 PSI (1.7 kPa)	0.30 PSI (2.1 kPa)	0.43 PSI (3.0 kPa)
Maximum Pressure¹	25 PSI (1 bar)	25 PSI (1 bar)	25 PSI (1 bar)
Water In Bowl Capacity: (per bowl)	3.7 oz (109 ml)	10.3 oz (305 ml)	10.3 oz (305 ml)
Available Options:² (water detection kit) (12 or 24 volt dc heater) (vacuum gauge)	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes
H₂O Removal Efficiency	99%		
Operating Temperature	-40° to +255°F / -40° to +124°C		

¹ Pressure installations are applicable up to the maximum PSI shown. Vacuum installations are recommended.

² Not for use on gasoline applications.

Note: Units with 1/2" NPT ports are available, contact the factory.

Turbine Series

Turbine Series Overview



Specifications	75500FGX	75900FHX	751000FHX
Maximum Flow Rate: (one unit online) (two units online) (three units online)	60 GPH (227 LPH) 120 GPH (454 LPH) N/A	90 GPH (341 LPH) 180 GPH (681 LPH) N/A	180 GPH (681 LPH) 360 GPH (1363 LPH) N/A
Port Size	3/4''-16 UNF (SAE J1926 female threads)	7/8''-14 UNF (SAE J514 male threads)	7/8''-14 UNF (SAE J514 male threads)
Min. Service Clearance: (above assembly) (below assembly)	5.0 in. (12.7 cm) 2.0 in. (5.1 cm)	7.5 in. (19.1 cm) 2.0 in (5.1 cm)	10.0 in. (25.4 cm) 2.0 in. (5.1 cm)
Replacement Element: (2 micron) (10 micron) (30 micron)	(2 Per Assembly) 2010SM-OR 2010TM-OR 2010PM-OR	(2 Per Assembly) 2040SM-OR 2040TM-OR 2040PM-OR	(2 Per Assembly) 2020SM-OR 2020TM-OR 2020PM-OR
Height	11.5 in. (29.2 cm)	17.0 in. (43.2 cm)	22.0 in. (55.9 cm)
Depth	9.5 in. (24.1 cm)	11.0 in. (27.9 cm)	11.0 in. (27.9 cm)
Width	14.5 in. (36.8 cm)	18.8 in. (47.8 cm)	18.8 in. (47.8 cm)
Weight (dry)	17.0 lb (7.7 kg)	23.0 lb (10.4 kg)	30.0 lb (13.6 kg)
Clean Pressure Drop	0.7 PSI (4.8 kPa)	1.7 PSI (11.7 kPa)	3.7 PSI (25.5 kPa)
Maximum Pressure¹	25 PSI (1 bar)	25 PSI (1 bar)	25 PSI (1 bar)
Water In Bowl Capacity: (per bowl)	3.7 oz (109 ml)	10.3 oz (305 ml)	10.3 oz (305 ml)
Available Options:² (water detection kit) (12 or 24 volt dc heater) (vacuum gauge)	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes
H₂O Removal Efficiency	99%		
Operating Temperature	-40° to +255°F / -40° to +124°C		

¹ Pressure installations are applicable up to the maximum PSI shown. Vacuum installations are recommended.

² Not for use on gasoline applications.

Note: Units with 1/2'' NPT ports are available, contact the factory.



01422 377367



enquiries@prosep.co.uk

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Prosep Filter Systems Ltd
Unit G19, River Bank Way,
Lowfields Business Park,
Elland, West Yorkshire
HX5 9DN

Phone: 01422 377367
email: sales@prosep.co.uk
www.prosep.co.uk



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