



RACOR®

DATA CENTER POWER GENERATION

Parker



TURBINE FILTERS FOR GENSETS

Increased Efficiency, Capacity, and Reliability

When engines demand heavy-duty, high-capacity water separation and fuel filtration, the Turbine Series is the most complete, efficient, and reliable engine protection you can install. Symbolizing Racor's continuing commitment to the science of filtration, the Turbine Series has established its position as the filter/separator often imitated, but never equaled.

Paired with our famous and genuine Aquabloc® Synergy filters, the Racor Turbine Series is still the preferred brand for fuel filtration and water separation globally.

The Racor V-series Turbine Fuel Filter continues that tradition. Available as single, double, triple assemblies.

The new design adds ports, is less restrictive, and improves water separation.



Triple Turbine and CCV installed on genset

Larger ports decrease restriction, and two (2) inlet and two (2) outlet ports, allow installation in any configuration required to meet fuel delivery needs.

A Shut-off valve is integrated into each individual unit eliminating the need for up stream valves in the fuel delivery line.



751000FV10 Shown

Power Rating/HP/Flow Rate	Required	Provides Back-up
245kw/330hp/60 GPH	500FG02/10/30	75500FG02/10/30
375kw/500hp/90 GPH	900FV10	75900FV10
495kw/665hp/120 GPH	75500FG02/10/30	75900FV10
750kW/1000hp/180 GPH	1000FV10	751000FV10
1500kW/2000hp/360 GPH	751000FV10	791000FV10
2250kW/3000hp/540 GPH	791000FV10	(2X) 791000FV10

TURBINE SERIES FUEL FILTERS



Model	500MA/M	75500MAX/M	900FV10	75900FV10
Max. Flow Rate: (one filter on-line) (two filters on-line)	60 GPH (227 LPH) N/A	N/A 120 GPH (454 LPH)	90 GPH (341 LPH) N/A	N/A 180 GPH (681 LPH)
Height	11.5 in (29.2 cm)	11.5 in (29.2 cm)	17.00 in (43.19 cm)	17.00 in (43.19 cm)
Width	6.5 in. (16.5 cm)	14.5 in. (36.8 cm)	6.54 in. (16.62 cm)	12.76 in. (32.41 cm)
Depth	5.8 in. (13.1 cm)	4.8 in. (12.2 cm)	7.96 in. (20.22 cm)	7.96 in. (20.22 cm)
Weight (approx.): MA/MAM VMA/VMAM	4 lbs (1.8 kg) N/A	4 lbs (1.8 kg) N/A	12.00 lbs (5.44 kg) 12.00 lbs (5.44 kg)	N/A 24.20 lbs (10.98 kg)
Port Size	3/4" - 16 SAE	3/4" - 16 SAE	1-5/16" - 12 SAE	1-5/16" - 12 SAE
Clean Pres. Drop	0.3 PSI (0.02 bar)	0.3 PSI (0.02 bar)	0.3 PSI (0.02 bar)	0.5 PSI (0.03 bar)
Max. Head Pressure	15 PSI (1.03 bar)	15 PSI (1.03 bar)	15 PSI (1.03 bar)	15 PSI (1.03 bar)
Replacement Filter	2010 Series	2010 Series	2040 Series	2040 Series
Overhead Clearance	4.0 in. (10.2 cm)	4.0 in. (10.2 cm)	5.00 in. (12.70 cm)	5.00 in. (12.70 cm)
Ambient Temp Range	-4° to +250° F (-20° to +121° C)			
Max. Fuel Temp	190° F (88° C)			



Model	1000FV10	751000FV10	791000FV10
Max. Flow Rate: (one filter on-line) (two filters on-line) (three filters on-line)	180 GPH (681 LPH) N/A N/A	N/A 360 GPH (1,363 LPH) N/A	N/A N/A 540 GPH (2,044 LPH)
Height	21.95 in (55.74 cm)	21.95 in. (55.74 cm)	21.95 in. (55.74 cm)
Width	6.38 in. (16.20 cm)	12.76 in. (32.41 cm)	19.10 in. (48.52 cm)
Depth	7.97 in. (20.24 cm)	7.89 in. (20.03 cm)	7.89 in. (20.03 cm)
Weight (approx.): VMA VMAM	9.60 lbs (4.17 kg) 9.60 lbs (4.17 kg)	27.40 lbs (12.43 kg) 27.40 lbs (12.43 kg)	37.60 lbs (17.05 kg) 40.60 lbs (18.42 kg)
Port Size	1-5/16" - 12 SAE	1-5/16" - 12 SAE	1-5/16" - 12 SAE
Clean Pres. Drop	0.77 PSI (0.05 bar)	1.00 PSI (0.07 bar)	1.3 PSI (0.09 bar)
Max. Head Pressure	15 PSI (1.03 bar)	15 PSI (1.03 bar)	15 PSI (1.03 bar)
Replacement Filter	2020 Series	2020 Series	2020 Series
Overhead Clearance	10.00 in. (25.40 cm)	10.00 in. (25.40 cm)	10.00 in. (25.40 cm)
Ambient Temp Range	-4° to +250° F (-20° to +121° C)		
Max. Fuel Temp	190° F (88° C)		



FBO FILTERS FOR GENSETS AND PRE-FILTRATION

Comprehensive Fuel Filtration

Maintaining clean fuel means addressing contamination across the entire supply chain, not just at the engine. Combining re-circulating filtration for storage and onboard systems with high-efficiency filters at the dispensing pump can substantially improve fuel cleanliness. Regular monitoring of fuel quality and filter performance is essential to protect sensitive diesel injection systems.

Our fixed-base operator (FBO) filtration line—the Racor FBO Series—stands out for its robust construction, versatile configurations, and ease of maintenance. Its ability to perform multiple filtration functions makes it well suited to sophisticated fuel-dispensing environments. Paired with portable filtration solutions, it delivers a comprehensive approach to maintaining diesel cleanliness across diverse systems.



Bank of FBO-14-DPL assemblies in-use at daytank fueling depot.

Multiple filtration options - Two Sizes 10" & 14", Three cartridge types, coalescer/separator, particulate, and water absorber, are available in four micron ratings, 1, 5, 10, and 25.

Power Rating/HP/Flow Rate	Specifications	Maximum Flow Rates	Clean	Change
	FBO-10	Diesel	Delta P	Delta P
6226kw/8350hp/25 GPM	Particulate Filter	25 GPM (94.6 LPM)	2.5 PSID	15 PSID
4996kw/6700hp/20 GPM	Water Separator	20 GPM (75.7 LPM)	2.5 PSID	15 PSID
4996kw/6700hp/20 GPM	Water Absorber	20 GPM (75.7 LPM)	2.5 PSID	30 PSID
	FBO-14	Diesel	Delta P	Delta P
7456kw/10000hp/30 GPM	Particulate Filter	30 GPM (113.6 LPM)	2.5 PSID	15 PSID
6226kw/8350hp/25 GPM	Water Separator	25 GPM (94.6 LPM)	2.5 PSID	15 PSID
6226kw/8350hp/25 GPM	Water Absorber	25 GPM (94.6 LPM)	2.5 PSID	30 PSID

FBO Assemblies

Part Number	Delta-P Gauge	Filter	Sight Glass	Drain Valve
FBO-10		Order Separately (see below)		•
FBO-10-DP	•	Order Separately (see below)		•
FBO-10-DPL	•	Order Separately (see below)	•	•
FBO-14		Order Separately (see below)		•
FBO-14-DP	•	Order Separately (see below)		•
FBO-14-DPL	•	Order Separately (see below)	•	•
FBO-10-25M	•	FBO 60332	•	•
FBO-14-25M	•	FBO 60341	•	•

Filter Performance

Typical engine fuel contamination levels, established in 1998 by Worldwide Fuel Charter Committee, required cleanliness of 18/16/13 per ISO 4406. Due to technology advances in High Pressure Common Rail injection systems, the new engines manufactured today require cleanliness levels as low as 12/9/6 or better. Injector pressures are exceeding 30,000 psi (2,068 bar) and smaller nozzle openings are driving the requirements.

Coalescer/Separator

Coalescer/separator filters are a two stage element that removes water and contaminants from diesel fuel streams and are the most popular filters.

Particulate Filter

Particulate filters remove contaminants down to one micron. Particulate filters can also be used upstream, before a water separator filter, to extend filter life.

Water Absorber

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

FBO Filter Elements

FBO Assembly	Micron Rating	Coalescer/ Separator	Particulate	Water Absorber
FBO-10	1	FBO 60327	FBO 60330	FBO 60333
	5	FBO 60328	FBO 60331	FBO 60334
	10	FBO 60353	FBO 60354	FBO 60355
	25	FBO 60329	FBO 60332	FBO 60335
FBO-14	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



FBO 60338 coalescer/separator filter.



CCV FILTERS FOR GENSETS

Protects the Environment

Racor Crankcase Ventilation Systems prevent fouling of critical engine components, such as turbochargers and after-coolers, by removing oil contamination from engine bypass gases.

Environmental concerns and legislation to control crankcase emissions have increased significantly. To reduce the total emissions of engines, it is becoming necessary to close the crankcase breather system, routing these gases into the air intake system.

Crankcase blow-by is produced when combustion gases under high pressure are blown past the piston rings into the crankcase. As these blow-by gases pass through the crankcase, they become contaminated. Racor's Crankcase Ventilation System removes these contaminations.



In a closed crankcase filter application, the exhaust from the crankcase filter is routed to the inlet side of the turbo. A regulator in the crankcase filter controls the vacuum in the crankcase to ensure proper operation.



	CCV4500	CCV6000	CCV8000	CCV12000
Maximum Flow Rate	10 CFM (283 LM)	20 CFM (566 LM)	40 CFM (1133 LM)	50 CFM (1416 LM)
Maximum Engine Rating	400 HP (298 KW)	800 HP (597 KW)	1600 HP (1193 KW)	2000 HP (1491 KW)

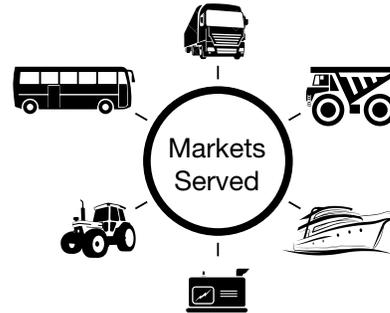
Units can be manifolded to handle higher flow rates.

RACOR PRODUCT GUIDE

Why Racor?

Leading edge technology and continuous innovation.

Racor develops new solutions using ISO, SAE, JIS and other world-recognized testing procedures to conform to any specifications required by our OEM customers. Racor performs on-engine, on-vehicle and laboratory diesel system testing to further the advancement of diesel filtration for today and into the future.



V Series Turbine Filter Increased Efficiency, Capacity, and Reliability.

The Racor Fuel Filter Water Separator Turbine Series is a three-stage filtration system that provides maximum protection of diesel engine components by effectively removing contaminants from fuel.



751000FV10



FBO Filtration Meets the toughest refueling conditions.

Multiple filtration options - Two Sizes 10" & 14", Three cartridge types, coalescer/separator, particulate, and water absorber, are available in four micron ratings, 1, 5, 10, and 25.



FBO-14 Filter



Crankcase Filtration Protects the Environment.

Racor Crankcase Ventilation Systems prevent fouling of critical engine components, such as turbochargers and after-coolers, by removing oil contamination from engine bypass gases.



CCV8000-08L



Aquabloc® Synergy Engineered for Protection.

An engineered blend of distinct media formulations - high-grade cellulose compounded with engineered fibers and materials proven to repel water.



2020V & 2040V Filters



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