RACOR®

Marine Filtration Products

- Fuel
- Air
- Oil
- Hydraulic
- Water
- Coolant

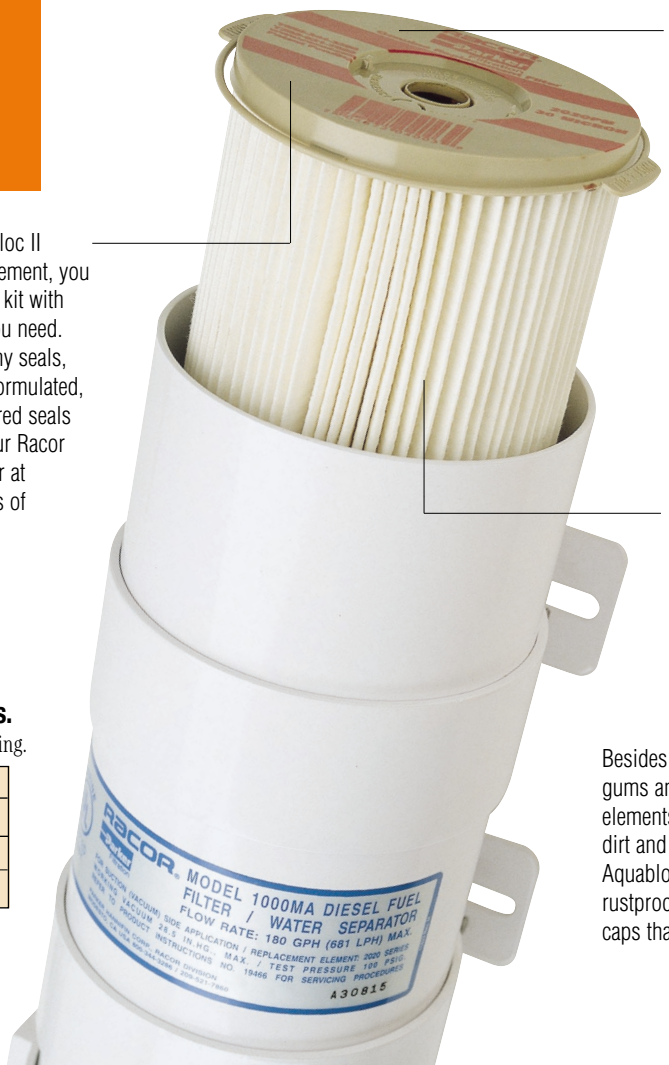
Parker

A single valve on all of the double manifold MAX models isolates one filter/separator for service while the other keeps operating. This way, you keep running while draining contaminants from the collection bowl or while changing filter elements.

Legendary Diesel Fuel Filtration

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. Models which include an aluminum bowl or stainless steel shield meet ASTM FS1201 certification, are UL-listed, American Bureau of Shipping, Veritas, Det Norske Veritas, ISO 10088 and U.S.C.G. accepted. For severe service, all-metal bowls should be specified.

With an Aquabloc II replacement element, you get a complete kit with all the seals you need. And not just any seals, but specially-formulated, Racor-engineered seals that ensure your Racor Filter/Separator at optimum levels of performance.



For convenience, end caps are color-coded for easy identification and application – red for 30 micron primary filtration, blue for 10 micron primary or secondary and brown for 2 micron secondary/final filtration

An internal shut-off valve in the 900 and 1000 series safeguards your engine from inferior will-fit elements

Aquabloc II media is a blend of high grade cellulose compounded with engineered fibers and a special chemical treatment. Water won't even cling to the element. Aquabloc II repels it.

Besides removing asphaltenes, gums and varnishes, Aquabloc II elements filter tiny particles of dirt and algae from fuel. Aquabloc II elements are rustproof – with polymer end caps that won't ever corrode.

Order Genuine Aquabloc II Replacement Elements.

Be sure to specify both the size of element and the micron rating.

MODEL	500	900	1000
2 Micron	2010SM-OR	2040SM-OR	2020SM-OR
10 Micron	2010TM-OR	2040TM-OR	2020TM-OR
30 Micron	2010PM-OR	2040PM-OR	2020PM-OR

S = Secondary/Final 2 micron (Brown end cap)
T = Primary or Secondary/Final 10 micron (Blue end cap)
P = Primary 30 micron (Red end cap)

The Inside Story

1 As fuel enters, it moves past the internal check valve then through the turbine centrifuge where it flows in a spiraling direction, spinning off large particulates and water droplets. Being heavier than fuel, they fall to the bottom of the collection bowl.

2 Smaller water droplets bead-up along and on the sides of the internal components and on the surface of the Aquabloc© II element. When heavy enough, they too fall into the high capacity bowl to be drained as needed.

3 Besides repelling water and tiny solids, asphaltenes, algae and rust are filtered from fuel by the Aquabloc© II element. Because Aquabloc© II elements are waterproof, they remain effective longer.

1606B Gauge

RK20726 Water Alarm/
RK21069 Water Probe

RK19492
UL Listed Drain Valve

500 MA

900 MA

1000 MA

75/500 MAX

75/900 MAX

75/1000 MAX

MODEL	500 MA	900 MA	1000 MA	75/500 MAX[1]	75/900 MAX[1]	73/1000 MA[1]	75/1000 MAX[1]	77/1000 MA[1,2]	79/1000 MA[1]
Maximum Flow Rate	60 gph 227 lph	90 gph 341 lph	180 gph 681 lph	120 gph 454 lph	180 gph 681 lph	360 gph 1363 lph	180/360 gph 681/1363 lph	540 gph 2044 lph	360/540 gph 1363/2044 lph
Height	11.5"/292 mm	17"/432 mm	22"/559 mm	11.5"/292 mm	17"/432 mm	22"/559 mm	22"/559 mm	22"/559 mm	22"/559 mm
Width	5.8"/147 mm	6"/152 mm	6"/152 mm	14.5"/368 mm	18.75"/476 mm	17"/432 mm	18.75"/476 mm	21.5"/546 mm	21.5"/546 mm
Depth	4.8"/122 mm	7"/178 mm	7"/178 mm	9.5"/241 mm	11"/279 mm	12"/305 mm	11"/279 mm	12"/305 mm	12"/305 mm
Weight	4 lbs/2 Kg	6 lbs/3 Kg	10 lbs/5 Kg	17 lbs/7.7 Kg	23 lbs/10 Kg	26 lbs/11.8 Kg	30 lbs/13.6 Kg	39 lbs/17.7 Kg	52 lbs/23.6 Kg
Port Size Std. (Option)	3/4"-16 UNF 14 mm x 1.5	7/8"-14 UNF 22 mm x 1.5	7/8"-14 UNF 22 mm x 1.5	3/4"-16 UNF	7/8"-14 UNF	3/4" NPT	7/8"-14 UNF	1"-11.5 NPT	3/4"NPT
Clean Pressure Drop	0.61 PSI 4.23 kPa	0.34 PSI 2.4 kPa	0.49 PSI 3.4 kPa	0.70 PSI 4.83 kPa	1.7 PSI 11.7 kPa	1.7 PSI 11.7 kPa	3.7 PSI 25.5 kPa	1.7 PSI 11.7 kPa	2.5 PSI 17.2 kPa
Maximum[3] Operating Pres.	15 PSI 103 kPa	15 PSI 103 kPa	15 PSI 103 kPa	15 PSI 103 kPa	15 PSI 103 kPa	15 PSI 103 kPa	15 PSI 103 kPa	15 PSI 103 kPa	15 PSI 103 kPa
Element #	2010	2040	2020	2010	2040	2020	2020	2020	2020
Element Rmvl. Clearance	4"/102 mm	5"/127 mm	10"/254 mm	4"/102 mm	5"/127 mm	10"/254 mm	10"/254 mm	10"/254 mm	10"/254 mm

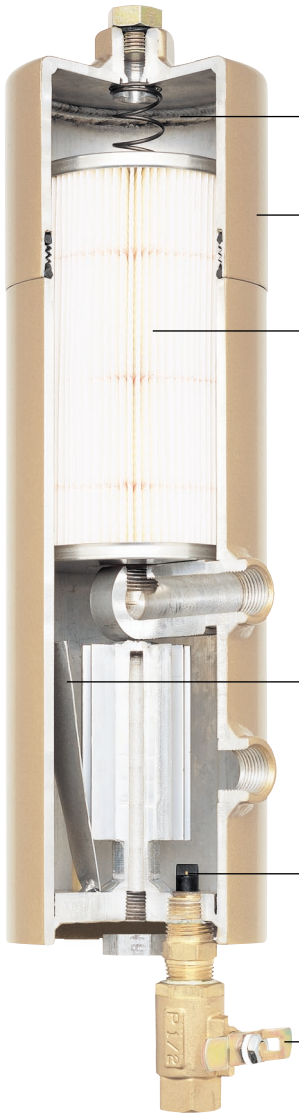
(1) For double or triple manifold models with 1/2" isolation valves, specify MAV. For double manifold models with single isolation valve and standard filter restriction gauge, specify MAX. The engine may be left operating during isolation of either filter.
(2) 77/1000 triple manifold without shutoff valve also available.
(3) Vacuum installation only. For accurate fuel flow rates consult your engine manual. As a guideline, gph = 0.18 x maximum engine horsepower (diesel only).
(4) Filter/separators are available with metric tapped ports. Specify metric ports when ordering.

Marine Series MC for Commercial Vessels

The Racor Series MC Fuel Filter/Water Separator is a highly efficient, high capacity diesel fuel filter/water separator for demanding marine environments. Typical applications include workboats, commercial fishing vessels, oil rig supply boats and passenger ferries. Flow rates for the Series MC range from 60 gph to 540 gph.

The Series MC is designed to serve as the primary filter/separator package and is standard with high capacity Aquabloc II filter elements.

All Racor Series MC units meet 33 CFR (Code of Federal Regulations) Part 183, subpart J (pleasure craft) and 46 CFR, Part 56.50-75 (commercial shipping) for diesel fuel systems. Additionally, Series MC units meet or exceed A.S.T.M. Specification F–1201–88 which has been adopted by the United States Coast Guard for inspected vessels. The unit label is ASTM formatted for identification and individual model certification is available upon request.



- Double Viton O-ring seals
- Heavy duty aluminum assembly is powder coated for durability
- Engineered for efficiency, proprietary Aquabloc II elements combine with the multi-stage Racor Series MC to extend service intervals up to six times longer, depending on operating conditions. Aquabloc elements are available in 2, 10 and 30 micron
- The mounting bracket is powder coated steel and will withstand vibration
- Water separator diffuser decelerates fuel flow, allowing water and heavy contaminates to separate and collect in the high capacity reservoir for later removal
- Optional water sensor
- Rugged Parker brass ball valve

60 GPH

90 GPH

180 GPH

90/180 GPH

180/360 GPH

180/360/540 GPH

Model	60MC	90MC	180MC	7590MC	75180MC	79180MC
Maximum Flow Rate	60 gph / 227 lph	90 gph / 341 lph	180 gph / 681 lph	180 gph / 681 lph	360 gph / 1363 lph	540 gph / 2044 lph
Port Size	1/2"-14 NPT	1/2"-14 NPT	3/4"-14 NPT	3/4"-14 NPT	1"-11 1/2 NPT	3/4"-14 NPT
Service Filter Element [3]	48029	48029	48030	48029	48030	48030
Height	18.75" / 476	19.75" / 502	21.75" / 552	19.75" / 502	21.75" / 552	21.75" / 552
Width	6.31" / 160	6.31" / 160	6.4" / 163	17.25" / 438	17.5" / 445	25" / 635
Depth	6.69" / 170	6.69" / 170	7.1" / 180	10.5" / 267	11" / 279	11" / 279
Weight (dry)	8.5 lbs / 3.86 kgs	9 lbs / 4.1 kgs	14.4 lbs / 6.53 kgs	28 lbs / 12 kgs	41 lbs / 18.6 kgs	60 lbs / 26.8 kgs
Clean Element Pressure Drop	0.40 PSI / 2.76 kPa	0.81 PSI / 5.58 kPa	1.25 PSI / 8.61 kPa	1.51 PSI / 10.41 kPa	2.57 PSI / 17.72 kPa	5.77 PSI / 39.78 kPa
Operating Temperature	-40˚ / +150˚ F / -40˚ / +66˚ C (max. temperature as tested under ASTMF1201)					

(1) A water probe option is available.
(2) Allow at least 2 inches (51mm) clearance under the units for draining water.
(3) Allow at least 5 inches (127mm) clearance above the units for element replacement.
(4) Maximum allowable pressure for all models is 50 PSI / 345 kPa.