
Selection Information

General

Racor's heavy-duty Series MC Marine Fuel Filter/Water Separators protect engines from water, dirt, foulants and other contaminants with superb efficiency and filter life. The primary 10 or 30 micron fuel filters last by as much as 1000 hours with average fuel quality.

The units are designed for installation on the suction (vacuum) side of the fuel transfer pump for best efficiency. The Series MC filters are normally installed as your primary filtration. Do not remove the engine secondary or final filter if one is present.

Compliance and Certification for Marine Use

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.

Filters:

High-capacity replaceable cartridge elements stop water and remove solid contamination and are available in 2, 10 or 30 micron. Equipment owners can specify their filtration needs based on application, fuel quality, operating climates and maintenance schedules.

A 30 micron filter (or primary filter) is used to filter raw fuel (or poor quality fuel) before it can be further filtered by finer medias such as a 10 or 2 micron.

A 10 micron filter (or primary/secondary filter) is used to filter fuel which is known to be of good quality.

A final filter, such as a 2 micron filter is the finest filtration available and should be the last filter in the fuel delivery system before the fuel is ingested by the engine.

A simple rule to remember is the finer the filtration, the more frequent the filter change. (*Carry extra filters with your equipment*).

Water Collection:

The Series MC collection sump stores water and contaminants until it is drained by the operator. All units feature a rugged, 1/4 turn drain valve for easy service.

Optional Water Probe -Available for Diesel fuel systems only.

All units may be ordered with a water probe to alert the operator of a high-water condition, even while the equipment is operating. The unit is then drained of water at the earliest convenience.

Note: The RK30880 Water Probe features built-in electronics to detect the presence of water. An indicator lamp is supplied for in or under dash mounting.

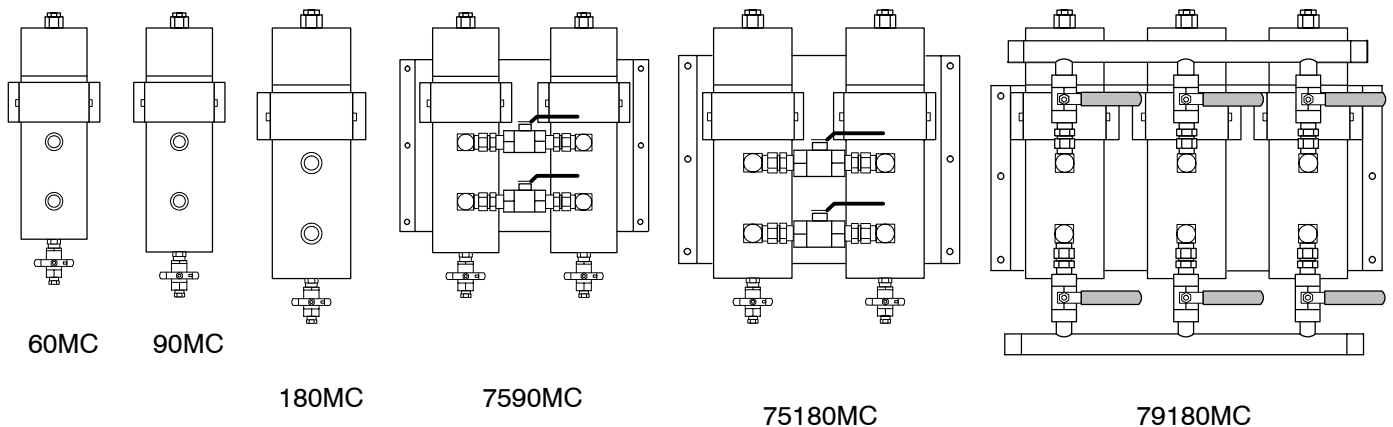
SELECTION

1. Along with the information you obtained in SECTION 2, SELECTION (page 94), consider the following:
Are there any space limitations in the available location? The location should provide adequate overhead space for removing the element and underneath space for draining off contaminants.
2. What filtration rating is needed? 2, 10 or 30 micron?
3. Is a water probe option needed?
4. Can the engine be shut down for servicing?
For engine(s) that cannot be shut-down if servicing becomes necessary, specify only multiplex valved units.

Using this information, select a unit from the following page for your application.

For additional information, call your Racor dealer or call Racor customer service at (209) 521-7860 or (800) 344-3286, 6:00 AM to 5:00 PM, Pacific Time, or e-mail us from our website, www.parker.com/racor.

Model Illustrations



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Special Notes

1. A water probe option is available.
2. Allow at least 2 inches (51 mm) 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.
5. These units comply with ASTM Specification F1201-88 which is accepted by the USCG for inspected vessels.
6. For additional information and availability, contact customer service at: (800) 344-3286, 6 AM to 5 PM, Pacific Time.
7. Note: '75' models do not have the option for both filters to be on-line at the same time.

Specifications

BASIC MODELS		60MC	90MC	180MC	7590MC	75180MC	79180MC
Maximum Flow Rate	GPH LPH	60 227	90 341	180 681	180 681	360 1363	540 2044
Port Size,	NPT	1/2"-14	1/2"-14	3/4"-14	3/4"-14	1"-11 1/2	3/4"-14
Service Filter Element		48006 Series	48006 Series	48008 Series	48006 Series	48008 Series	48008 Series
Height	in./mm	18.75/476	19.75/502	21.75/552	19.75/502	21.75/552	21.75/552
Width	in./mm	6.31/160	6.31/160	6.4/163	17.25/438	17.5/445	25/635
Depth	in./mm	6.69/170	6.69/170	7.1/180	10.5/267	11/279	11/279
Weight (dry)	Lbs./kgs.	8.5/3.86	9/4.1	14.4/6.53	28/12	41/18.6	60/26.8
Clean Element Pressure Drop	PSI kPa	0.40 2.76	0.81 5.58	1.25 8.61	1.51 10.41	2.57 17.72	5.77 39.78
Operating Temperature		- 40° / +150° F / - 40° / +66° C (Max. temperature as tested under ASTM F1201)					

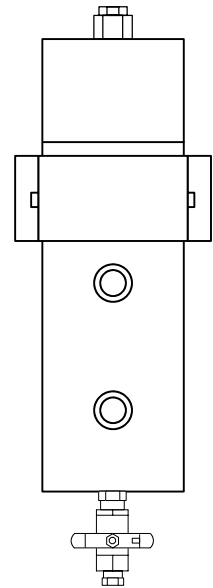
Marine Diesel Series MC

Models 60MC, 90MC, 180MC

SPECIFICATIONS are found on Series MC introduction page.

How to Order -The example below illustrates how the part numbers are constructed.

180MC	P	2
60MC: 60 GPH / 227 LPH 90MC: 90 GPH / 341 LPH 180MC: 180 GPH / 681 LPH	<u>Water Probe</u> ¹ Add P for an in-unit water probe. (Omit if not desired)	<u>Element</u> <u>Filtration Rating.</u> Specify one: 2 for 2 micron 10 for 10 micron or 30 for 30 micron



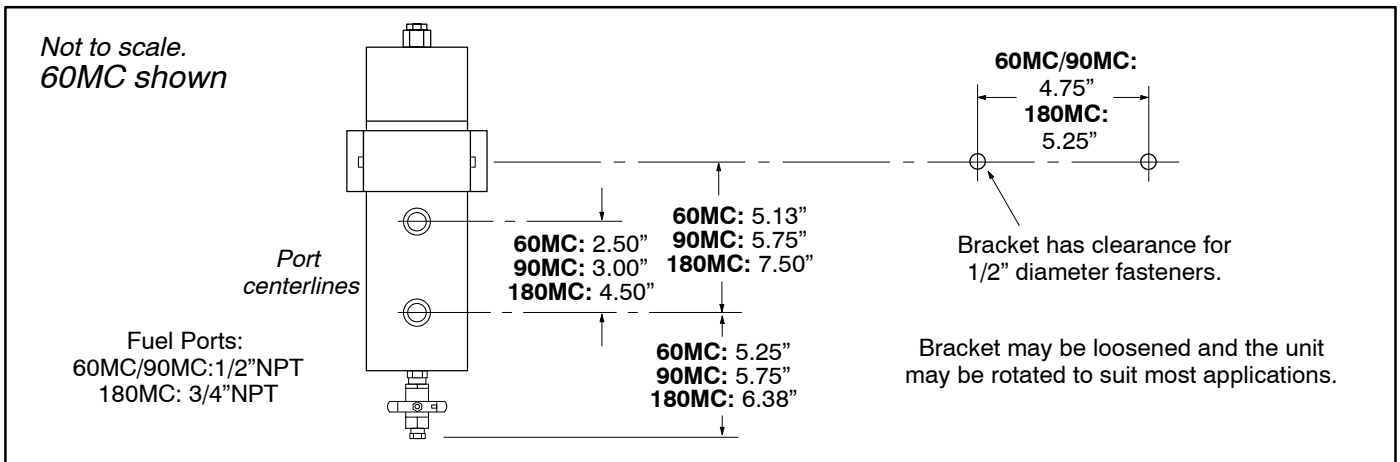
180MC Shown

Replacement Service Elements -12/case, for all Series MC Models. SERVICE ELEMENT DOES NOT INCLUDE LID SEALS.

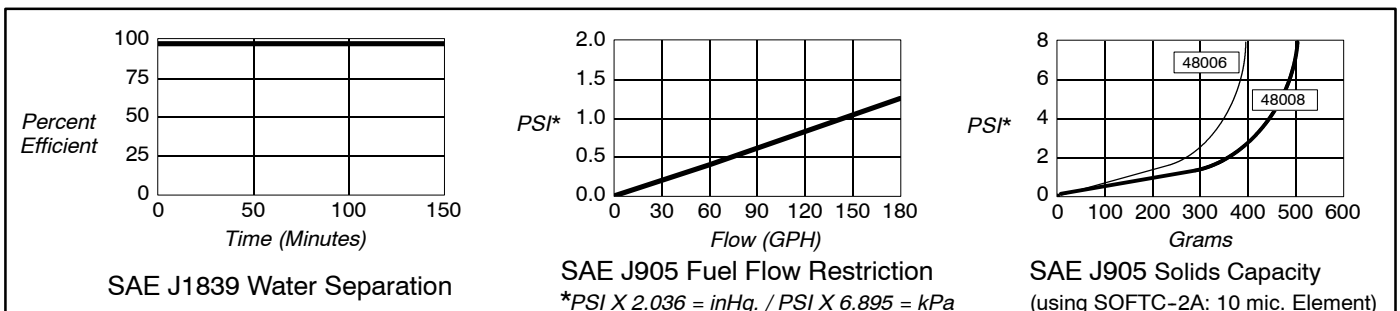
Basic Model	Final Filtration	Secondary Filtration	Primary* Filtration
60 & 90MC	2 micron	10 micron	30 micron
180MC	48006-02	48006-10	48006-30
	48008-02	48008-10	48008-30

*A secondary/final filter is required downstream.

Mounting Hole Pattern -Refer to Series MC models introduction page for filter dimensions.



Performance Graphs -These results are from controlled laboratory tests. Field results may vary by application.



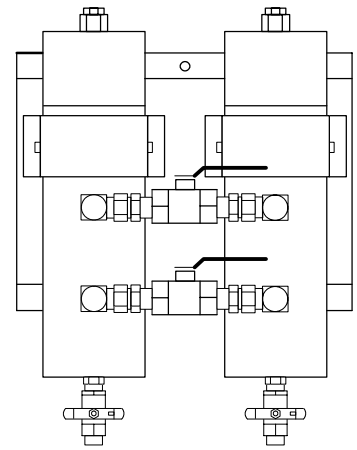
Marine Diesel Series MC

Models: Multiplex

SPECIFICATIONS are found on Series MC introduction page.

How to Order -The example below illustrates how the part numbers are constructed.

7590MC	P	
Basic Model 7590MC: ¹ Duplex unit, 180 GPH / 681 LPH 75180MC: ¹ Duplex unit, 360 GPH / 1363 LPH 79180MC: Triplex unit, 540 GPH / 2044 LPH	Water Probe. Specify P for an in unit water probe. Includes detection module. ²	Element Filtration Rating. All units are equipped with 30 micron filters. Final filters required downstream.
¹ '75' models do not have the option for both filters to be on-line at the same time. ² Contact Racor Customer Service for additional information, if necessary.		



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Replacement Service Elements -12/case, for all Series MC models.

SERVICE ELEMENT DOES NOT INCLUDE LID SEALS.

Basic Model	Filters used/ model	Final Filtration 2 micron	Secondary Filtration 10 micron	Primary* Filtration 30 micron
7590MC	2	48006-02	48006-10	48006-30
75180MC	2	48008-02	48008-10	48008-30
79180MC	3	48008-02	48008-10	48008-30

*A secondary/final filter is required downstream.

7590MC
Shown

Mounting Hole Pattern -Refer to Series MC introduction page for filter dimensions.

Not to scale.
79180MC
shown

Item/Part No.	Description
1	180MC Fuel filter / water separator 90MC Fuel filter / water separator
2	063005 79180MC Main bracket 063002 75180MC Main Bracket 063000 7590MC Main Bracket
3	631013 180MC Clamp bracket assy. 631012 90MC Clamp bracket assy.
4	063009 79180MC Selector valve 063011 79180MC Inlet/Outlet tube 063008 75180MC Selector valve 063007 7590MC Selector valve
5	061017 Drain valve (not shown)

For parts not listed, contact Racor Customer Service.

Performance Graphs -These results are from controlled laboratory tests. Field results may vary by application.

