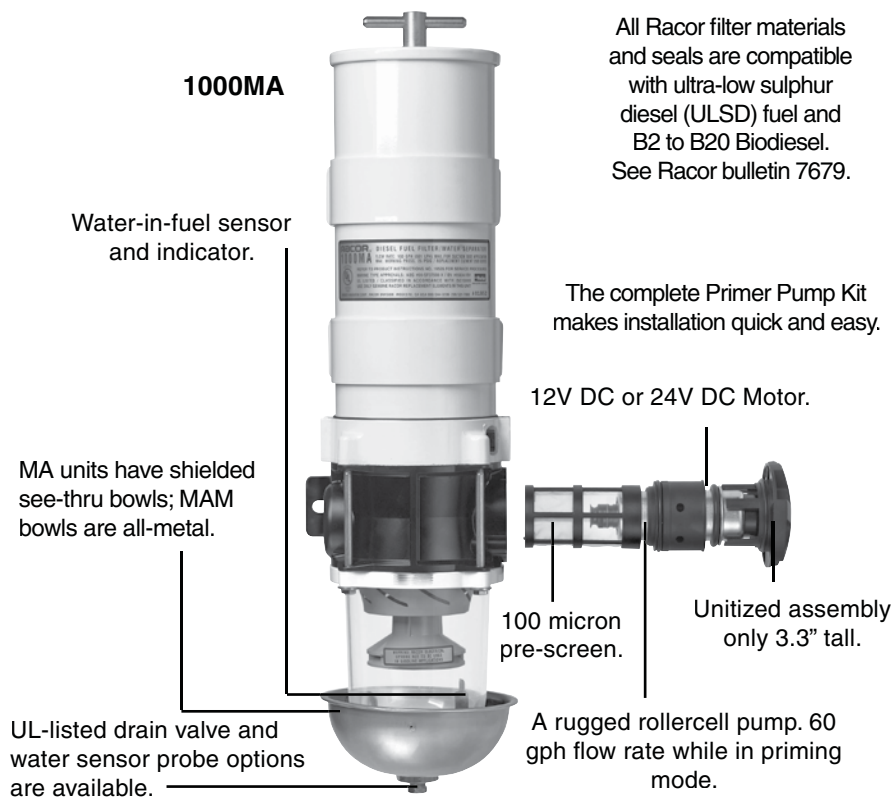


Marine Turbine Series

Marine Turbine Series



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

Marine 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 2 micron (nominal). They are waterproof and effective longer than water absorbing elements.

500 Series Overview

Applies to
all models.



| Specifications | 500MA ¹ | 500MAM | 503MA | 75500MAX | 75500MAXM |
|---|--|---------------------------------------|-------------------------------|---------------------------------------|---------------------------------------|
| Maximum Flow Rate <i>One Filter On-line</i> <i>Two Filters On-line</i> | 60 GPH (227 LPH) N/A | 60 GPH (227 LPH) N/A | 60 GPH (227 LPH) N/A | 60 GPH (227 LPH) 120 GPH (454 LPH) | 60 GPH (227 LPH) 120 GPH (454 LPH) |
| Application | Diesel | Gasoline or Diesel | Diesel | Diesel | Gasoline or Diesel |
| Port Size | 3/4"-16 (SAE J1926 female threads) | 3/4"-16 (SAE J1926 female threads) | 3/8" NPTF (female threads) | 3/4"-16 (SAE J1926 female threads) | 3/4"-16 (SAE J1926 female threads) |
| Height | 11.5 in. (29.2 cm) | 11.0 in. (27.9 cm) | 11.5 in. (29.2 cm) | 11.5 in. (29.2 cm) | 11.0 in. (27.9 cm) |
| Width | 5.8 in. (14.7 cm) | 5.8 in. (14.7 cm) | 5.8 in. (14.7 cm) | 14.5 in. (36.8 cm) | 14.5 in. (36.8 cm) |
| Depth | 4.8 in. (12.2 cm) | 4.8 in. (12.2 cm) | 4.8 in. (12.2 cm) | 9.5 in. (24.1 cm) | 9.5 in. (24.1 cm) |
| Weight | 4.0 lb (1.7 kg) | 5.0 lb (2.2 kg) | 4.0 lb (1.7 kg) | 17 lb (7.7 kg) | 18 lb (8.2 kg) |
| Clean Pressure Drop | 0.3 PSI (1.7 kPa) | 0.3 PSI (1.7 kPa) | 0.3 PSI (1.7 kPa) | 0.7 PSI (4.8 kPa) | 0.7 PSI (4.8 kPa) |
| Maximum Pressure | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) |
| Water Capacity | 3.7 oz (110 ml) | 3.7 oz (110 ml) | 3.7 oz (110 ml) | 7.4 oz (220 ml) | 7.4 oz (220 ml) |
| Overhead Clearance | 4.0 in. (10.2 cm) | 4.0 in. (10.2 cm) | 4.0 in. (10.2 cm) | 4.0 in. (10.2 cm) | 4.0 in. (10.2 cm) |
| Water Removal Efficiency | 99% | 99% | 99% | 99% | 99% |
| Ambient Fuel Temperature | -40° to +250°F ² (-40° to +121°C) | | | | |
| Max. Fuel Temperature | 190°F (32°C) | | | | |

¹ Add * for optional 16MM ports. Example (*500MA30).

² With maximum fuel temperature 190°F (32°C).

Marine Turbine Series

900 Series Overview

Applies to
all models.



| Specifications | 900MA | 900MAM | 903MA | 75900MAX | 75900MAXM |
|--|--|------------------------------------|------------------------------|---------------------------------|---------------------------------|
| Maximum Flow Rate: One Filter On-line | 90 GPH (341 LPH) N/A | 90 GPH (341 LPH) N/A | 90 GPH (341 LPH) N/A | 90 GPH (341 LPH) | 90 GPH (341 LPH) |
| Two Filter On-line | | | | 180 GPH (681 LPH) | 180 GPH (681 LPH) |
| Application | Diesel | Gasoline or Diesel | Diesel | Diesel | Gasoline or Diesel |
| Port Size | 7/8"-14 (SAE J1926 female threads) | 7/8"-14 (SAE J1926 female threads) | 1/2"-14 NPT (female threads) | 7/8"-14 (SAE J514 male threads) | 7/8"-14 (SAE J514 male threads) |
| Height | 17.0 in. (43.2 cm) | 16.5 in. (41.9 cm) | 17.0 in. (43.2 cm) | 17.0 in. (43.2 cm) | 16.5 in. (41.9 cm) |
| Width | 6.0 in. (15.2 cm) | 6.0 in. (15.2 cm) | 6.0 in. (15.2 cm) | 18.8 in. (47.6 cm) | 18.8 in. (47.6 cm) |
| Depth | 7.0 in. (17.8 cm) | 7.0 in. (17.8 cm) | 7.0 in. (17.8 cm) | 11.0 in. (27.9 cm) | 11.0 in. (27.9 cm) |
| Weight | 6.0 lb (2.7 kg) | 7.0 lb (3.2 kg) | 6.0 lb (2.7 kg) | 23 lb (10.4 kg) | 24 lb (10.9 kg) |
| Clean Pressure Drop | 0.34 PSI (2.4 kPa) | 0.34 PSI (2.4 kPa) | 0.34 PSI (2.4 kPa) | 1.7 PSI (11.7 kPa) | 1.7 PSI (11.7 kPa) |
| Maximum Pressure | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) |
| Water Capacity | 10.3 oz (305 ml) | 10.3 oz (305 ml) | 10.3 oz (305 ml) | 20.6 oz (610 ml) | 20.6 oz (610 ml) |
| Overhead Clearance | 5.0 in. (12.7 cm) | 5.0 in. (12.7 cm) | 5.0 in. (12.7 cm) | 5.0 in. (12.7 cm) | 5.0 in. (12.7 cm) |
| Water Removal Efficiency | 99% | 99% | 99% | 99% | 99% |
| Ambient Fuel Temperature | -40° to +250°F ¹ (-40° to +121°C) | | | | |
| Max. Fuel Temperature | 190°F (32°C) | | | | |

¹ With maximum fuel temperature 190°F (32°C).

1000 Series Overview

Applies to all models.



| Specifications | 1000MA | 1000MAM | 1003MA | 731000MA | 731000MAM |
|---------------------------------|------------------------------------|------------------------------------|------------------------------|---------------------------------|---------------------------------|
| M | | | | | |
| Maximum Flow Rate: | | | | | |
| One Filter On-line | 180 GPH (681 LPH) | 180 GPH (681 LPH) | 180 GPH (681 LPH) | N/A | N/A |
| Two Filters On-line | N/A | N/A | N/A | 360 GPH (1363 LPH) | 360 GPH (1363 LPH) |
| Application | Diesel | Gasoline or Diesel | Diesel | Diesel | Gasoline or Diesel |
| Port Size | 7/8"-14 (SAE J1926 female threads) | 7/8"-14 (SAE J1926 female threads) | 1/2"-14 NPT (female threads) | 3/4"-14 (SAE J476 male threads) | 3/4"-14 (SAE J476 male threads) |
| Height | 22.0 in. (55.9 cm) | 21.5 in. (54.5 cm) | 22.0 in. (55.9 cm) | 22.0 in. (55.9 cm) | 21.5 in. (54.5 cm) |
| Width | 6.0 in. (15.2 cm) | 6.0 in. (15.2 cm) | 6.0 in. (15.2 cm) | 16.5 in. (41.9 cm) | 16.5 in. (41.9 cm) |
| Depth | 7.0 in. (17.8 cm) | 7.0 in. (17.8 cm) | 7.0 in. (17.8 cm) | 12.0 in. (30.5 cm) | 12.0 in. (30.5 cm) |
| Weight | 10 lb (4.5 kg) | 11 lb (5.0 kg) | 10 lb (4.5 kg) | 26 lb (11.8 kg) | 27 lb (12.2 kg) |
| Clean Pressure Drop | 0.5 PSI (3.4 kPa) | 0.5 PSI (3.4 kPa) | 0.5 PSI (3.4 kPa) | 1.7 PSI (11.7kPa) | 1.7 PSI (11.7 kPa) |
| Maximum Pressure | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) |
| Water Capacity | 10.3 oz (305 ml) | 10.3 oz (305 ml) | 10.3 oz (305 ml) | 20.6 oz (610 ml) | 20.6 oz (610 ml) |
| Overhead Clearance | 10.0 in. (25.4 cm) | 10.0 in. (25.4 cm) | 10.0 in. (25.4 cm) | 10.0 in. (25.4 cm) | 10.0 in. (25.4 cm) |
| Water Removal | 99% | 99% | 99% | 99% | 99% |
| Efficiency | ° to +250°F (-40° to +121°C) | | | | |
| Ambient Fuel Temperature | -40 | | | | |
| Maximum Fuel Temperature | 190oF (32oC) | | | | |

Marine Turbine Series

1000 Series Overview

Applies to
all models.



| Specifications | 751000MAX | 751000MAXM | 771000MA | 791000MAV |
|--|--|--|----------------------------------|---|
| Maximum Flow Rate: <i>One Filter On-line</i> <i>Two Filters On-line</i> <i>Three Filters On-line</i> | 180 GPH (681 LPH) 360 GPH (1363 LPH) N/A | 180 GPH (681 LPH) 360 GPH (1363 LPH) N/A | N/A N/A 540 GPH (2044 LPH) | 180 GPH (681 LPH) 360 GPH (1363 LPH) 540 GPH (2044 LPH) |
| Application | Diesel | Gasoline or Diesel | Diesel | Diesel |
| Port Size | 7/8"-14 (SAE J514 male threads) | 7/8"-14 (SAE J514 male threads) | 1"-11.5 (SAE J476 male threads) | 3/4"-14 (SAE J476 male threads) |
| Height | 22.0 in. (55.9 cm) | 21.5 in. (54.6 cm) | 22.0 in. (55.9 cm) | 22.0 in. (55.9 cm) |
| Width | 18.8 in. (47.6 cm) | 18.8 in. (47.6 cm) | 21.5 in. (54.6 cm) | 21.5 in. (54.6 cm) |
| Depth | 11.0 in. (27.9 cm) | 11.0 in. (27.9 cm) | 12.0 in. (30.5 cm) | 11.8 in. (30.0 cm) |
| Weight | 30 lb (13.6 kg) | 31 lb (14.1 kg) | 39 lb (17.7 kg) | 52 lb (23.6 kg) |
| Clean Pressure Drop | 3.7 PSI (25.5 kPa) | 3.7 PSI (25.5 kPa) | 1.7 PSI (11.7 kPa) | 2.5 PSI (17.2 kPa) |
| Maximum Pressure | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) |
| Bowl Capacity | 20.6 oz (610 ml) | 20.6 oz (610 ml) | 30.9 oz (915 ml) | 30.9 oz (915 ml) |
| Overhead Clearance | 10.0 in. (25.4 cm) | 10.0 in. (25.4 cm) | 10.0 in. (25.4 cm) | 10.0 in. (25.4 cm) |
| Water Removal Efficiency | 99% | 99% | 99% | 99% |
| Ambient Fuel Temperature | -40° to +250°F ¹ (-40° to +121°C) | | | |
| Max. Fuel Temperature | 190oF (32oC) | | | |

How to Order

(The example below illustrates how the part numbers are constructed).

| * | 500MA | M | 10 |
|-------------------------------|---|------------------------------|---|
| Add * for optional 16MM ports | Basic Model Use model 503MA for 3/8" NPTF Pipe Thread | Add M for metal bowl. | Specify: 2 (for 2 micron) 10 (for 10 micron) 30 (for 30 micron) |

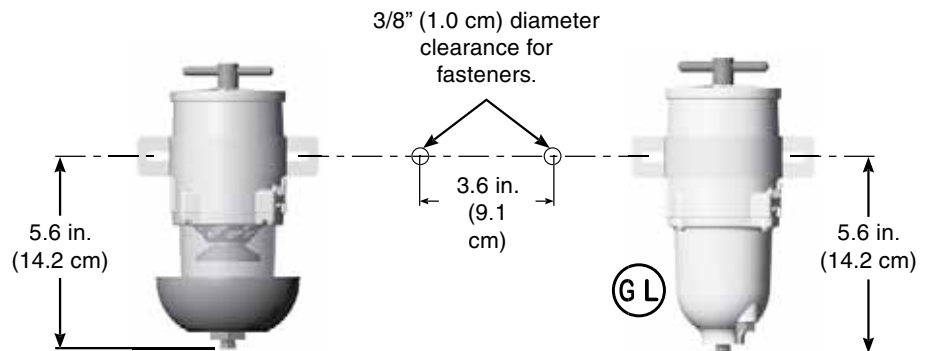
| Replacement Element (seals included) | | |
|--|-----------|----------------------|
| 2010SM-OR | 2 micron | Final |
| 2010TM-OR | 10 micron | Secondary |
| 2010PM-OR | 30 micron | Primary ¹ |
| ¹ A secondary or final filter is required downstream. | | |

All 2010 Series filters are 2.7" tall by 3.1" in diameter.

Not all configurations are available - contact Technical Support for more information.

Mounting Information

500MA
Certifications



1000 Series Overview

Applies to all models.



| Specifications | 1000MA | 1000MAM | 1003MA | 731000MA | 731000MAM |
|---------------------------------|------------------------------------|------------------------------------|------------------------------|---------------------------------|---------------------------------|
| M | | | | | |
| Maximum Flow Rate: | | | | | |
| One Filter On-line | 180 GPH (681 LPH) | 180 GPH (681 LPH) | 180 GPH (681 LPH) | N/A | N/A |
| Two Filters On-line | N/A | N/A | N/A | 360 GPH (1363 LPH) | 360 GPH (1363 LPH) |
| Application | Diesel | Gasoline or Diesel | Diesel | Diesel | Gasoline or Diesel |
| Port Size | 7/8"-14 (SAE J1926 female threads) | 7/8"-14 (SAE J1926 female threads) | 1/2"-14 NPT (female threads) | 3/4"-14 (SAE J476 male threads) | 3/4"-14 (SAE J476 male threads) |
| Height | 22.0 in. (55.9 cm) | 21.5 in. (54.5 cm) | 22.0 in. (55.9 cm) | 22.0 in. (55.9 cm) | 21.5 in. (54.5 cm) |
| Width | 6.0 in. (15.2 cm) | 6.0 in. (15.2 cm) | 6.0 in. (15.2 cm) | 16.5 in. (41.9 cm) | 16.5 in. (41.9 cm) |
| Depth | 7.0 in. (17.8 cm) | 7.0 in. (17.8 cm) | 7.0 in. (17.8 cm) | 12.0 in. (30.5 cm) | 12.0 in. (30.5 cm) |
| Weight | 10 lb (4.5 kg) | 11 lb (5.0 kg) | 10 lb (4.5 kg) | 26 lb (11.8 kg) | 27 lb (12.2 kg) |
| Clean Pressure Drop | 0.5 PSI (3.4 kPa) | 0.5 PSI (3.4 kPa) | 0.5 PSI (3.4 kPa) | 1.7 PSI (11.7kPa) | 1.7 PSI (11.7 kPa) |
| Maximum Pressure | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) |
| Water Capacity | 10.3 oz (305 ml) | 10.3 oz (305 ml) | 10.3 oz (305 ml) | 20.6 oz (610 ml) | 20.6 oz (610 ml) |
| Overhead Clearance | 10.0 in. (25.4 cm) | 10.0 in. (25.4 cm) | 10.0 in. (25.4 cm) | 10.0 in. (25.4 cm) | 10.0 in. (25.4 cm) |
| Water Removal | 99% | 99% | 99% | 99% | 99% |
| Efficiency | ° to +250°F (-40° to +121°C) | | | | |
| Ambient Fuel Temperature | -40 | | | | |
| Maximum Fuel Temperature | 190oF (32oC) | | | | |

Marine Turbine Series

1000 Series Overview

Applies to
all models.



| Specifications | 751000MAX | 751000MAXM | 771000MA | 791000MAV |
|--|--|--|----------------------------------|---|
| Maximum Flow Rate: <i>One Filter On-line</i> <i>Two Filters On-line</i> <i>Three Filters On-line</i> | 180 GPH (681 LPH) 360 GPH (1363 LPH) N/A | 180 GPH (681 LPH) 360 GPH (1363 LPH) N/A | N/A N/A 540 GPH (2044 LPH) | 180 GPH (681 LPH) 360 GPH (1363 LPH) 540 GPH (2044 LPH) |
| Application | Diesel | Gasoline or Diesel | Diesel | Diesel |
| Port Size | 7/8"-14 (SAE J514 male threads) | 7/8"-14 (SAE J514 male threads) | 1"-11.5 (SAE J476 male threads) | 3/4"-14 (SAE J476 male threads) |
| Height | 22.0 in. (55.9 cm) | 21.5 in. (54.6 cm) | 22.0 in. (55.9 cm) | 22.0 in. (55.9 cm) |
| Width | 18.8 in. (47.6 cm) | 18.8 in. (47.6 cm) | 21.5 in. (54.6 cm) | 21.5 in. (54.6 cm) |
| Depth | 11.0 in. (27.9 cm) | 11.0 in. (27.9 cm) | 12.0 in. (30.5 cm) | 11.8 in. (30.0 cm) |
| Weight | 30 lb (13.6 kg) | 31 lb (14.1 kg) | 39 lb (17.7 kg) | 52 lb (23.6 kg) |
| Clean Pressure Drop | 3.7 PSI (25.5 kPa) | 3.7 PSI (25.5 kPa) | 1.7 PSI (11.7 kPa) | 2.5 PSI (17.2 kPa) |
| Maximum Pressure | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) | 25 PSI (1.0 bar) |
| Bowl Capacity | 20.6 oz (610 ml) | 20.6 oz (610 ml) | 30.9 oz (915 ml) | 30.9 oz (915 ml) |
| Overhead Clearance | 10.0 in. (25.4 cm) | 10.0 in. (25.4 cm) | 10.0 in. (25.4 cm) | 10.0 in. (25.4 cm) |
| Water Removal Efficiency | 99% | 99% | 99% | 99% |
| Ambient Fuel Temperature | -40° to +250°F ¹ (-40° to +121°C) | | | |
| Max. Fuel Temperature | 190oF (32oC) | | | |



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