

# 700 Series

## Fuel Filter/Water Separators With Integrated Priming Pump



700 Series fuel filter/water separators come equipped with a state-of-the-art fuel priming pump for easy priming. The 12 vdc roller-cell fuel pump offers the benefits of an electric on-demand priming pump at a push of a button, and the 24 vdc brushless version directly drives the gerotor creating a unique, positive on-demand displacement pump.

The gerotor has fewer parts than gear or vane pumps, and the sensor-less control technology of the DC motor makes this product the most reliable filter and pump assembly on the market. The 24 vdc pump assembly is ideal for tough on-engine applications. For off-engine mounting, the 12 vdc pumps are a more economical alternative.



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### Product Features:

- Aluminum filter head with integral mounting bracket and four ports (2 inlets and 2 outlets) with 7/8"-14 SAE o-ring threads.
- Self-venting drain.
- 12 volt or 24 volt electronic priming pump.
- Rugged and reliable.
- Replaceable Aquabloc® spin-on filter.
- Reusable, clear collection bowl.
- 100 micron prefilter screen.
- Water-in-fuel (WIF) water detection probe.
- Vent valve to purge air during fuel priming.



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# 700 Series Overview

## Problem

- Filters are often installed in hard to reach places for re-priming.
- Air can get in fuel lines during filter change-out or storage.
- Pre-filling filter can be messy.
- Distance between tank and filter can be inconvenient for hand priming.

## Solution

Racor 700 Series Integrated Fuel Filter/Water Separator with a two stage filtration and re-priming system.

- Simplifies service.
- No messy pre-filling.
- Protects engine.
- No lag in starting engine.
- Fast and safe re-priming.

## How it works

The 700 Series pump/fuel filter water separator assemblies are two stage filtration and re-priming systems.

These complete fuel management systems isolates contaminants present in diesel fuels and traps them prior to reaching the fuel injection system, protecting the engine's fuel system from costly and premature failure.

## Features and Benefits

- Compatible with Racor 345, 360, 390, 400, and 700 Series heads and bowls.
- High contaminant capacity.
- Improved water removal.
- Available with 10 or 30 micron Aquabloc® media.
- Great for heavy-duty and biodiesel applications.
- Flow 45 to 120 GPH (170 to 454 LPH) in upgraded applications.
- Easy upgrade with existing Racor parts.
- Optimum engine protection.

## R125 Spin-on Filter



Racor spin-on fuel filter/water separators are well known for high quality performance and engine protection.

If you currently use a Racor 360, 400, 600, or 700 series fuel filter/water separator, you can now upgrade to the R125 replacement filter without the need to purchase a new bowl.

The R125 is a great fit for heavy-duty and biodiesel applications. More Aquabloc® media in the R125 provides up to 3X the life and improved water removal when compared to standard filters.

## How to Order

745R	30	24'
Select a model 745R= 45 GPH 760R= 60 GPH 790R= 90 GPH 7125= 120 GPH	Specify micron rating: 30 micron 10 micron	Specify a 24 vdc priming pump. (see note)

Basic model comes standard with 12 vdc priming pump. <sup>1</sup>To order the 24 vdc brushless pump assembly, insert 24 at the end of the part numbers. (example: 790R3024). Note: Pump is for priming purposes only, not for continuous operations unless protected by a pre-filter.



Specifications	745R30	760R30	790R30	7125R30
<b>Maximum Flow Rate</b>	45 GPH (170 LPH)	60 GPH (227 LPH)	90 GPH (340 LPH)	120 GPH (454 LPH)
<b>Replacement Filter</b>	R45P or R45T	R60P or R60T	R90P or R90T	R125P or R125T
<b>Height</b>	10.8 in. (27.4 cm)	11.8 in. (30.0 cm)	12.8 in. (32.5 cm)	15.8 in. (40.1 cm)
<b>Width</b>	4.3 in. (10.9 cm)	4.3 in. (10.9 cm)	4.3 in. (10.9 cm)	4.3 in. (10.9 cm)
<b>Depth</b>	6.5 in. (16.5 cm)	6.5 in. (16.5 cm)	6.5 in. (16.5 cm)	6.5 in. (16.5 cm)
<b>Weight (dry)</b>	4.5 lbs (2.0 kg)	5.5 lbs (2.5 kg)	6.5 lbs (2.9 kg)	7.7 lbs (3.5 kg)
<b>Clean Pressure Drop</b>	0.25 PSI (0.02 bar)	0.25 PSI (0.02 bar)	0.25 PSI (0.02 bar)	0.25 PSI (0.02 bar)
<b>Ambient Temperature Range</b>	-40° to +225°F (-40° to +107°C)			
<b>Maximum Fuel Temperature</b>	190°F (88°C)			

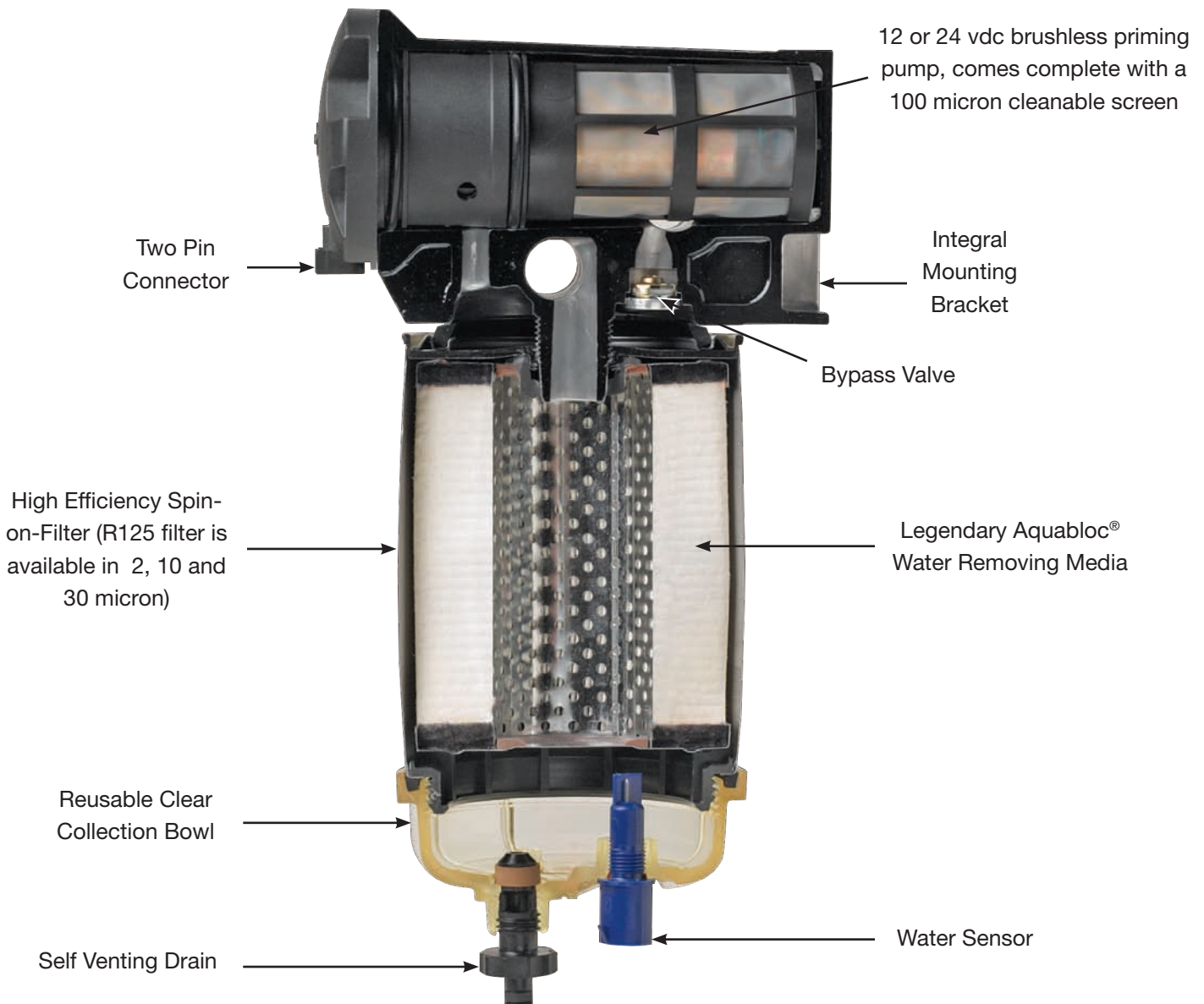
# Product Information and Specifications

The R125 series is a direct replacement for the 345, 360, 390, 400, 600, and 700 series Racor fuel filter water separator. The filter mounting head and collection bowl are compatible with the R125 series spin-on filter. If an engine is using a R45, R60, or R90 spin-on filter, it can now be upgraded to a R125 series without the need to purchase a new bowl or mounting head. Now it is easier than ever to get more capacity and flow without buying extra parts.

The R125P (30 micron) is a great fit for biodiesel applications as it is a larger filter with more filtration capacity. A larger filter adds more filtration media surface area, which lowers the flow velocity going through each square inch of the media. This extends filter life and increases water removal efficiency. All filter materials and seals are compatible with ultra-low sulfur diesel (ULSD) fuel and B2 Biodiesel.

The R125 Series is available for order with (R125S) 2 micron, (R125T) 10 micron, and (R125P) 30 micron proven Aquabloc® media.

Benefits include optimum engine protection with Aquabloc® media, high contaminant capacity, flows up to 120 GPH (454 LPH), and easy change out with existing Racor parts.



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