

Fuel Filter Funnel – Racor RFF Series | #RFF1C

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RFF Series Filter Funnels are designed to protect engines during fueling by removing free water and particulates

present in stored gasoline, diesel, heating oil, and kerosene. Capable of removing contaminants down to 50 micron in size.

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Technical Specifications

Flow Rate:

2.5 gpm/ 9.4 lpm

Size:

3.5 inches/8.9 cm Diameter

Body Material:

Electro Conductive Plastic

Filter Element Type:

PTFE Coated Stainless Steel

Micron Rating:

50 Micron Screen μm

Height:

6 inches/15.2 cm

Weight:

0.2 lb (0.09 kg)

Item Information

Dirt and water are practically unavoidable in stored fuel. Their presence often leads to the formation of bacteria, corrosive acids, and rust, which can cause plugged filters, damaged components, decreased combustion efficiency, and, in severe cases, system failure.

The Racor Filter Funnel (RFF) Series is a line of heavy-duty, high-flow funnels that help protect engines by removing free water and contaminants that are often present in stored gasoline, diesel, heating oil, and kerosene. They feature a built-in DuPont Teflon®-coated stainless steel screen mesh filter, which utilizes surface tension to stop water, while allowing fuel to pass through the funnel and into the engine.

RFF Series funnels are capable of removing free water and solids down to 50 micron in size and allow users to visually inspect the cleanliness of their fuel supply during refueling. They are ideal for fueling lawnmowers, ATVs, chainsaws, snow machines, power generators, boats, recreational vehicles, motorhomes, motorcycles or any other type of engine that requires clean, dry fuel on the go.

How it works:

When properly used, the Racor Filter Funnel will separate free water from hydrocarbon fuels. As fuel is being filtered, heavier free water and contaminants (rust and grime) are stopped and collected on the bottom of the funnel. When you have a substantial amount of water (approximately 1 cup/250 ml), dispose of it properly and resume refueling

Notes on Use:

- Under some conditions, water may be present in hydrocarbon fuels in emulsified form. Water may be emulsified in fuel by vibration or by emulsifying additives such as alcohol, detergents or biodiesel blends. Water in emulsified form cannot be removed with the Racor Filter Funnel. In this case, it is best to install a Racor fuel filter/water separator (Racor FBO for dispensing) to remove emulsified water from your fuel delivery system before transferring to equipment.
- Note that excessive filling with captured water will cause head pressure that can force water through the Teflon® coated mesh. If the funnel is more than 1/3 covered with water and flow rate begins to slow, stop fueling immediately, properly dispose of water and contaminants from the funnel, then continue fueling.
- 2-cycle oil contains detergents, which will allow water to pass through the filter screen. In this case, the only safe way to filter out water is to add the 2- cycle oil to the tank after filtering the fuel through the funnel. Additives containing alcohol are made to emulsify and bind water to fuel. The filter cannot remove this bound water. Add additives after fueling. Do not attempt to remove the filter from the funnel, as the filter is permanently attached to the funnel. The Racor Filter Funnel is designed to work with fuels only.
- CAUTION! Do not use the Racor Filter Funnel for anything but filtering fuels; other liquids may compromise the effectiveness of the filter.
- Another purpose for using a RFF Series funnel is to facilitate the inspection of fuel for contamination in the form of solids (down to 50 micron) and free water. Don't forget to check the fuel filter sump for water. If water or contamination are found, dispose of them properly.
- To test the Racor Filter Funnel function, slowly fill with water, roughly 1/3 the way up the screen. This amount of water should not pass through the Teflon® coated filter screen. Keep this amount in mind when using the Racor Filter Funnel, knowing that the head pressure caused by the weight of more than this may cause water to pass through the screen. If the screen does not repel water it may have become coated with sticky fuel contaminants. The screen must be clean to work properly. If necessary, delicately clean the screen with a soft brush and liquid detergent; allowing it to air dry before testing water repellency again.
- Always dispose of water, contaminants or dirty fuel in a proper manner. Periodically inspect the funnel for physical damage. Store the funnel properly as some fuel will remain on surfaces after use.

Markets:

- Agriculture
- Construction
- Power Generation
- Oil and Gas
- Marine
- Recreational Vehicles (Motorhomes)
- Small Engines (lawnmowers, ATVs, chainsaws, snow machines, etc.)

Applications:

- Diesel
- Gasoline
- Kerosene
- Heating Oil

Benefits:

- Removes free water that often collects at the bottom of fuel cans, tanks, or drums. Free water formation occurs when humid air inside a container or tank cools to the point that water condenses out of the air.
- Removes hard particles present in air that are introduced during fueling, such as sand and silica.

- Prevents filter damage and increases operational life of downstream filters.
- Saves money by eliminating unplanned maintenance and unscheduled downtime from systems.
- Prevents component failure



Features:

- Available in four sizes and flow rates
- PTFE-coated stainless steel filter mesh
- Electro-conductive plastic material
- Corrosion-resistant
- No parts to replace

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CAD Drawings + Files

No CAD files available



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