

FPM Series

Fuel Polishing Module



Prevent Fuel System Contamination

Daily preventative maintenance for diesel fuel

The daily buildup of condensation in a diesel fuel system can lead to fuel contamination through bacteria growth. Parker's new patent pending Fuel Polishing Module (FPM-050) combats the daily accumulation of water in diesel fuel systems, preventing corrosion and other system problems. Parker's FPM-050 is optimized to remove emulsified water from the fuel system, preventing common fuel issues and maximizing the effectiveness of current filters.

Features & Benefits

- Provides maximum fuel system reliability by removing entrained moisture and accumulated contaminants.
- Keeps fuel dry, promoting a bacteria-free environment and preventing contaminant build-up.
- Reduces the need for expensive fuel treatments and additives.
- Uses patent-pending, solid state pump technology, consuming only 150 mA, minimizing battery drain and enabling continuous fuel maintenance. Can be run from a small solar panel.
- Allows for fuel maintenance during engine down time and off-season storage.
- Easy to install and operate; incorporates automatic, full-flow bypass valve, eliminating the need for manual switching.

Low Power Preventative Maintenance

The FPM-050's solid state pump consumes only 150 mA at 12 VDC, less than 2 W of power. The FPM-050 can even be powered by a small, optional solar panel, leaving no net drain on your batteries. By installing the optional programmable controller, you can schedule preventative fuel maintenance. Simply program the FPM-050 to perform regular maintenance while you are away to keep fuel dry and to prevent contaminants from accumulating in the fuel system. Then, you can arrive confidently at the marina after weeks away and know that your fuel is freshly filtered and your boat is ready to get underway.

Retrofit into Virtually Any System!

This versatile fuel maintenance solution can be installed in multiple configurations to maximize reliability. The module is designed for easy retrofitting into existing diesel fuel systems, whether inline with the main fuel filter/water separator, or as part of a dedicated fuel maintenance loop. In either configuration, regular use of Parker's new FPM-050 while the engine is idle helps prevent contaminants from accumulating in the fuel system by continuously removing moisture from the fuel.

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Technical Description

Parker's diesel FPM-050 is based on new solid state pumping technology that minimizes power consumption. This system accepts a 12 VDC nominal power input. The FPM-050 consumes less than 2 W while quietly polishing over 50 gallons of diesel fuel per day.

The compact and lightweight design of the FPM-050 makes installation into the fuel system easy. The included mounting bracket secures the unit in place using standard screws. Fuel connections to the module are made using standard sized NPTF-type threaded ports, which are easily connected to fuel lines by standard crimp-on or barbed fittings.

The design also incorporates an automatic full-flow bypass valve. The auto bypass valve means there's no need to use a manual valve to switch between polishing your fuel and using your engine.

Parker designed the system to meet the requirements of the American Boat and Yacht Council (ABYC) standards pertaining to diesel fuel systems (H-33) and onboard electronics (E-11).

How It Works

As diesel fuel warms through engine use or the daily heat of the sun, its natural capacity to absorb water increases, dissolving and dispersing a percentage of any water in the tank. When the fuel cools, this dissolved water desorbs into a bacteria-harboring emulsified suspension. By flowing the fuel gently over many hours, the FPM-050 maximizes your filter's ability to separate this difficult-to-remove emulsion and filter out particulate.

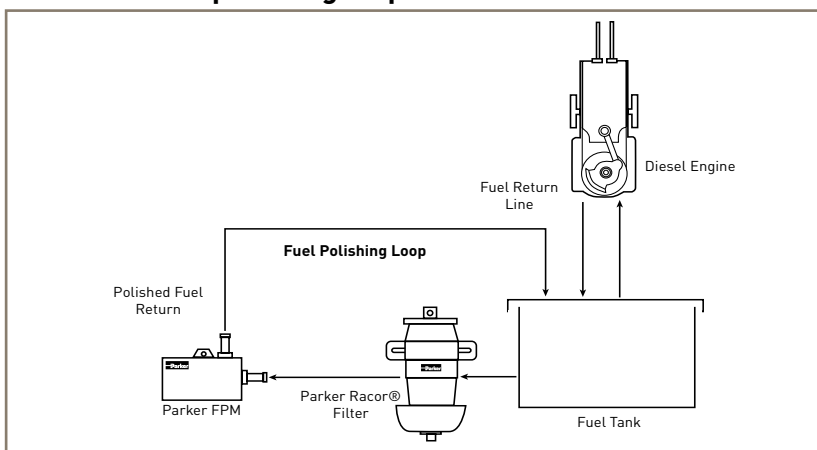
Specification Table

Parker FPM-050	
Filtration Rate*:	50 gallons/day
Power Requirements:	Less than 2 W (less than 3 A-hrs/day)
Internal Pressure Drop*:	Less than 0.5 psi
Voltage Requirements:	10-16 VDC, 12 VDC nominal
Approx. Dimensions - Body**:	3.87" x 2.47" x 2.14"
Including Bracket:	3.87" x 4.48" x 2.14"
Ports - Inlet & Outlet:	3/8 NPTF port
Recirculation port:	1/4 NPTF port
Weight:	Less than 2 lbs.
Acceptable Fuels:	Diesel, Bio-diesel, Kerosene

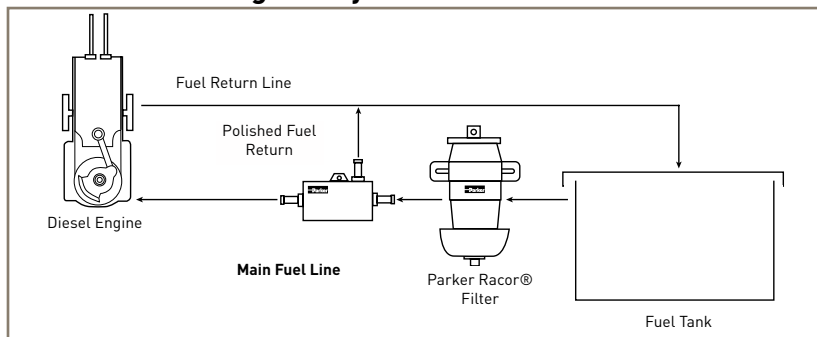
*Typical flow rate is 50 gallons per day. Actual flow rate is system dependent.

**Length x Width x Depth

Installation Example: Dedicated fuel polishing loop



Installation Example: Inline with existing fuel system



Ordering Information

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