

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 while increasing fuel system reliability. 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

- Minimizes system down time attributed to fuel contamination and other fuel system problems.
- Maximizes system reliability by removing entrained moisture that builds up daily.
- Prevents contaminant build-up; perfect for equipment that sits for long periods between uses
- Low 150 mA power draw facilitates regular fuel maintenance with minimal battery drain. *FPM-050 is an ideal solution for equipment stored outside or away from power during down time.*
- Reduces the need for expensive fuel treatments and additives.
- Compatible with diesel, bio-diesel, and kerosene generators.

Low Power Preventative Maintenance

The FPM-050's solid state pump consumes only 150 mA at 12 VDC, less than 2 W of power. For diesel equipment that is stored outside or away from access to grid power, the low power preventative maintenance offered by the FPM-050 is ideal. With the optional programmable controller installed, you can easily schedule preventative fuel maintenance. Simply program the FPM-050 to turn over your fuel during system downtime. By activating your FPM immediately after a long day of using the diesel engine or generator, you'll actively remove emulsified water as your system cools down.

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 or generator 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 Fuel Polishing Module 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 for easy installation into the fuel system. 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.

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.

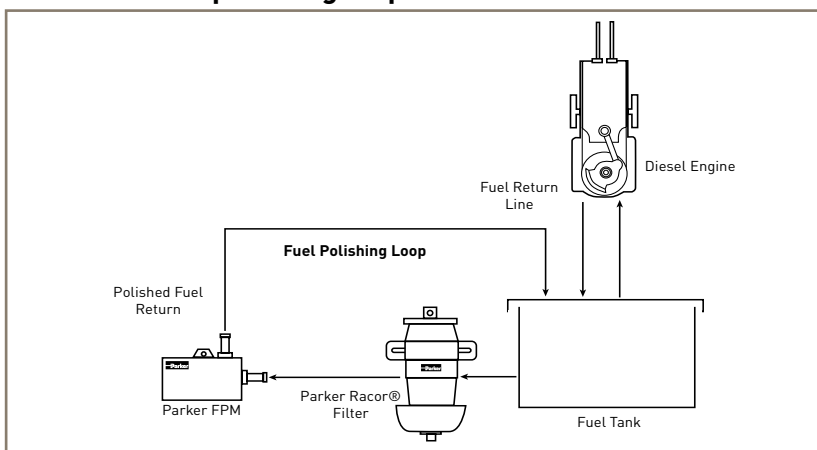
Specification Table

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

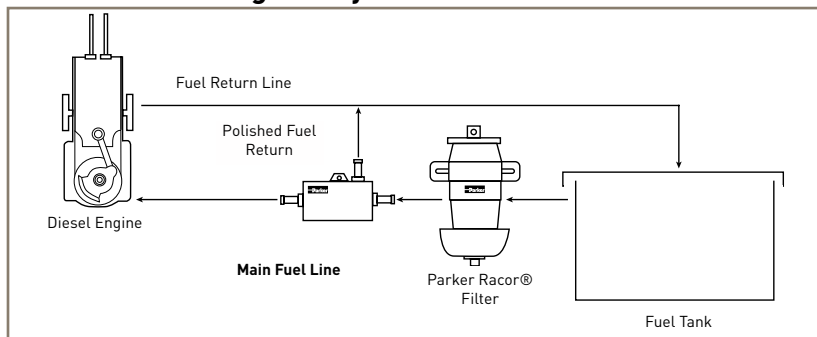
*Typical flow rate is 50 gallons per day. Actual flow rate is system dependent.

**Length x Width x Depth

Installation Example: Dedicated fuel polishing loop



Installation Example: Inline with existing fuel system



Ordering Information

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