

FUEL MANAGER®

Protect Your Diesel Investment

The fuel filtration and water separation needs of today's new generation diesel fuel systems demand extremely high efficiency, flexibility, multiple functions and ease of use without risk of fuel spills or contaminated parts. The Fuel Manager® range of combination fuel filters/water separators meet these demanding requirements.

Fuel Manager systems have been specified as original equipment by over 70 different OE manufacturers, and are used on hundreds of different machines powered by diesel engines. Available for light, medium and heavy duty trucks; and agricultural, industrial, construction, power generation, and marine applications — there is a Fuel Manager Series to meet any condition.

FM 1 Series is the latest series of patented Fuel Manager® Fuel Filters/Water Separators from Stanadyne. The FM1 is low cost, compact, robust, and uses the same world class filter media that is used in our other series of Fuel Manager Filters. Designed for diesel engines with fuel flow rates up to 25 U.S. gallons/hour (95 liters/hour). Typical engines range from 10 to 75 HP (7.5 to 56 kW).

FM 10 Series is designed for diesel engines with a fuel flow rate up to 50 U.S. gallons/hour (190 liters/hour). Typical engines range from 10 to 200 HP (7.5 to 149 kW). The FM 10 Series consists of a molded engineered plastic mounting header with a choice of different filter elements, which "twist on" using a Stanadyne patented feature.

FM 100 Series is designed for diesel engines with a fuel flow rate up to 80 U.S. gallons/hour (300 liters/hour). Typical engines range from 50 to 350 HP (37 to 261 kW). The FM 100 Series consists of a cast aluminum mounting header, with a choice of threaded ports of almost any configuration up to M16 x 1.5 'O'-ring in size. The filter elements interface with the header using a patented "Key Track" system, which, like the FM 10 Series, is designed to ensure that only the correct, genuine service element can be installed on the header.

FM 1000 Series is designed for diesel engines with a fuel flow rate up to 180 U.S. gallons/hour (680 liters/hour). Typical engines range from 200 to 600 HP (149 to 447 kW). The FM 1000 Series is similar to its smaller cousin, the FM 100 Series. It consists of a cast aluminum mounting header, with a choice of threaded ports up to M22 x 1.5 'O'-ring in size. The filter elements interface with the header using the same patented "Key Track" system as the FM 100 Series.



CLARCOR Engine Mobile Solutions (EMS) is a world leader in Filtration system technologies and we bring the most state of the art and technologically advanced filtration product to the diesel industry. We understand the required filtration needs for all engines and offer various filters for all size engines and applications. To date, CLARCOR EMS filtration products are supplied to over 70 different OE manufacturers, and are used on hundreds of different machines powered by diesel engines.



Fuel Manager Filtration Systems were introduced in the 1990's, marking a major advancement in the diesel industry. The Fuel Manager Filter along with all of our other filtration products offer superior protection for engine-powered equipment whether it is mobile or stationary.

CUSTOMERS:

OEM engine manufacturers, Aftermarket distributors and dealers, private label accounts, parts wholesalers and jobbers.

MAJOR PRODUCT LINES:

Heavy-duty and light-duty fuel filters/water separators.

APPLICATIONS:

Broad range of applications protecting trucks, buses, automobiles, construction equipment, mining equipment, locomotives and agricultural equipment.

Fuel Manager® Fuel/Water Separator assemblies and elements are available at more than 1,000 sales/service locations around the world and for more information contact:

*Protect Your Diesel
by Specifying Fuel Manager
Fuel Filters and Water Separators*

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FUEL MANAGER®

FUEL FILTERS/WATER SEPARATORS



CLARCOR
Engine Mobile Solutions

CLARCOR EMS offers approximately 50 aftermarket filter/water separator assemblies and more than 80 replacement filter elements. In addition, CLARCOR EMS has a large selection of accessories including fuel heaters, electric lift pumps, hand primers, water collection bowls, and water in fuel sensors. Below are a few of our more popular filter/water separator assemblies.

FM 1

The FM 1 is designed for small diesel powered equipment such as Skid Steer Loaders, Mini Excavators, Fork Lift Trucks, Small Gen Sets, Lawn & Garden/Ground Care Equipment, and more.



Technical Information

Fuel Use:	All formulations of diesel fuels Bio diesel (up to B20, or 20% bio content)
Engine Size:	10 to 75 horsepower (7.5 to 56 kW)
Maximum Flow Rate:	25 U.S. gallons/hour (95 liters/hour)
Maximum Pressure Rating:	20 psi (138 kPa)
Element Micron Rating:	5µ Final filter and 30µ Pre-filter
Element Length:	3.6 inches (91.4 mm)*
Header Material:	Molded plastic with integral 8mm hose-barb ports
Inlet and Outlet Ports:	accepts 8mm or 5/16" ID hose

* Also available in 2.8" and 4.3" lengths

Features and Benefits

- Small size – can be installed on the chassis, frame, or engine
- One-piece header with molded connectors – lowers cost, and time to install
- High efficiency particle and water separation - up to 95% of whole water removed
- Environmentally conscious – quick, spill free element changes
- Only 0.68" of space is required below the filter assembly to change the element
- Air bleed for quick priming
- Optional see through Water Collection Bowl

FM 1 Assemblies			
P/N 40074	Final Filter	5µ	3.6" element
P/N 41467	Final Filter	5µ	3.6" element with water collection bowl
P/N 42145	Pre-filter	30µ	3.6" element
P/N 40072		5µ	Replacement element
P/N 42140		30µ	Replacement element

FM 100



Technical Information

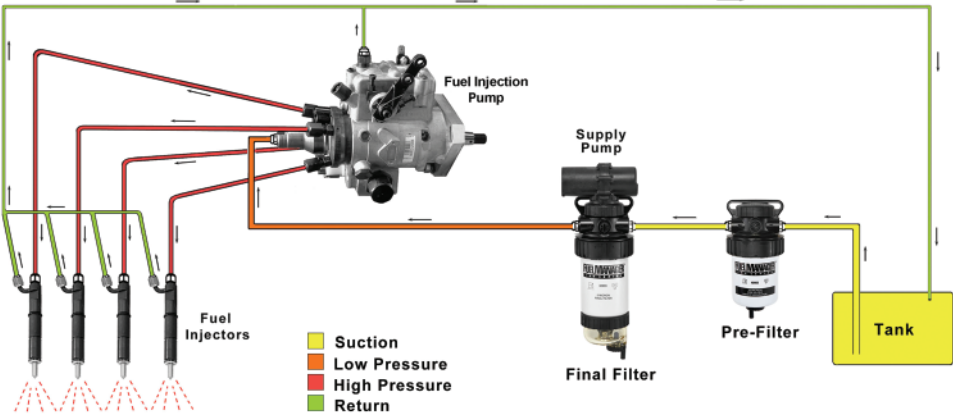
Fuel Use:	All formulations of diesel fuels Bio diesel (up to B20, or 20% bio content)
Engine Size:	50 to 350 horsepower (37 to 261 kW)
Maximum Flow Rate:	80 U.S. gallons/hour (300 liters/hour)
Maximum Pressure Rating:	60 psi (413 kPa)
Element Micron Rating:	30µ Pre-filter
Element Length:	4.3 inches (109.2 mm)
Header Material:	Aluminum with "E Coating" corrosion resistance

FM 100 Assemblies	
Header Port Size	Part Number
1/4"-18 NPT	40954
12mm (SAE O-Ring)	41341
14mm (Sealing Washer)	41343
Replacement Element:	35014

Features and Benefits

- Efficiency - up to 95% of whole water separation
- Economical - extends the life of the final filter and fuel system components
- Adaptable installation for all applications – multiple port configuration choices and also several optional thread types/sizes offered (two port plugs come with each assembly)
- Easy maintenance - no tool element replacement and draining of water accumulation
- Environmentally conscious - quick, spill free element changes
- Optional accessories include a hand primer and fuel heaters

Typical Diesel Fuel Filter System



FM 100 with Integral Electric Lift Pump — P/N 41775



Technical Information

Fuel Use:	All formulations of diesel fuels Bio diesel (up to B20, or 20% bio content)
Engine Size:	50 to 350 horsepower (37 to 261 kW)
Maximum Flow Rate:	Up to 80 U.S. gallons/hour (300 liters/hour)
Maximum Pressure Rating:	60 psi (413 kPa)
Element Micron Rating:	5µ Final filter
Element Length:	4.3 inches (109.2 mm)
Header Material:	Aluminum with "E Coating" corrosion resistance
Header Port Size:	1/4"-18 NPT
Replacement Element:	P/N 33959

Features and Benefits

- Robust design “brushless” electric lift pump is not affected by engine vibration, which improves reliability and longevity.
- Flow capability up to 80 gallons/hour
- Constant running, continuous pressure
- Internal pressure regulator set at ~ 10 psi (68kPa)
- Easy mounting and simple electrical connection to any switched/fused 12 volt ignition source
- Pre-installed see-thru water collection bowl with drain