FUELMANAGER®

The Versatile Diesel Fuel Filtration/Water Separator System
From America's Foremost Diesel Technology Innovator

STANADYNE®

FUELMANAGER®

The Versatile Fuel Filtration System

FOR EVERY DIESEL ENGINE, EVERY DIESEL APPLICATION

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 with no risk of fuel spills or contaminated parts.

Stanadyne's patented Fuel Manager® range of combination fuel filter/water separators meets these demanding requirements, and Fuel Manager systems have been specified as original equipment by over 60 different 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 and marine applications, there is a Fuel Manager Series to meet any condition.

The **FM10 Series** is designed for diesel engines with a fuel flow rate up to 50 US gallons/hr (190 liters/hr). Typical engines range from 10 to 200 HP. 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. This ensures only the correct, genuine service element can be installed on the header, and assures the user that the engine is properly protected from contaminated fuel.

The **FM100 Series** is designed for diesel engines with a fuel flow rate up to 80 US gallons/hr (300 liters/hr). Typical engines range from 50 to 350 HP. 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. "Push-in" quick fit connectors can also be specified, making fuel line connections easy, quick, and less costly. 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.

The **FM1000 Series** is designed for diesel engines with a fuel flow rate up to 180 US gallons/hr (680 liters/hr). Typical engines range from 200 to 600 HP. 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.

Stanadyne's experience of over 50 years of designing, making and supplying diesel fuel injection systems to customers all over the world has taught us that water is probably the single largest enemy of modern diesel fuel systems. During early development of the Fuel Manager range, it was decided that ALL filter elements would be designed with specially treated hydrophobic media to remove both water AND particulates. In addition, Stanadyne has developed various strategies using patented features to automatically remove air from the low pressure fuel system, and bleed it back to the fuel tank.

Filter elements for PRE (or primary) filter/separator applications are available in a choice of:

- 10-micron treated paper media to remove water and dirt.
- 30-micron treated paper media to remove water and dirt.
- 150-micron treated nylon media to remove water and dirt.

Filter elements for FINAL (or secondary) filter/separator applications, or where only one filter is installed, are available in a choice of:

- 2-micron treated paper media to remove water and dirt.
- 5-micron treated paper media to remove water and dirt.

All Fuel Manager Series units are designed to offer maximum flexibility and ease of use. All meet the most demanding technical specifications of every major fuel injection equipment manufacturer in the world.

Examples of design options to fit your needs.

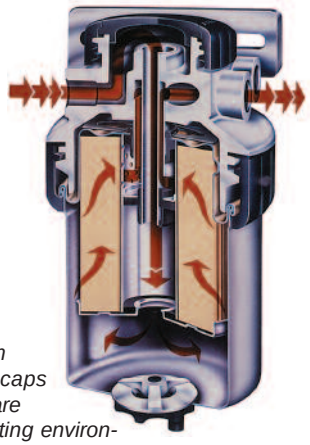
Depending on many factors such as operating conditions, space available on the application, type of fuel injection system on the engine etc, Fuel Manager offers a choice of optional modular features (optional modules are illustrated in this brochure), most of which can be installed either at the factory, or on the engine, without disconnecting fuel lines.

Please review the information in this brochure, and if you have any questions, or special requirements you are not sure about, contact Stanadyne to learn how a Fuel Manager filter/separator can solve your diesel fuel filtration and/or water separation needs.

Specified by leading OEMs.

FUELMANAGER®

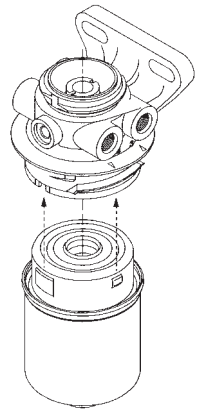
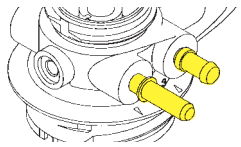
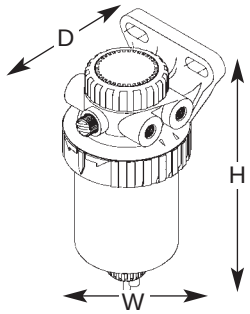
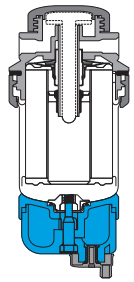
Diesel Fuel Filters/Water Separators

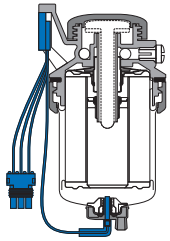
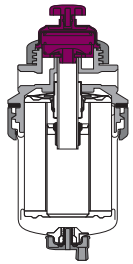
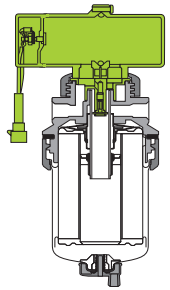
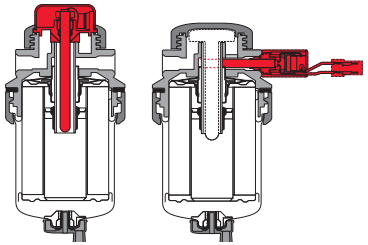
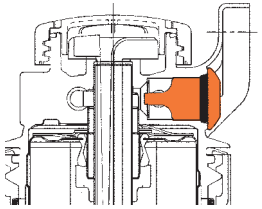


From the engineered plastic or aluminum mounting head to the rugged composite caps and rings, the Fuel Manager's materials are engineered to stand up in extreme operating environments. The quick-change retaining ring allows tool-free element replacement. Stanadyne's scientifically advanced filter media catches particles as small as two microns as well as removing water. The unique dry-change element eliminates spills during replacement.

Standard Specifications

Requirement/Feature		FM 10 Series	FM 100 Series	FM 1000 Series
Typical Application		Any diesel engine, diesel powered vehicle or diesel powered equipment		
Typical Engine Size (HP)		10 (7.5 kW) to 200 HP (149 kW)	50 (37 kW) to 350 HP (261 kW)	200 (149 kW) to 600 HP (447 kW)
Max Fuel Flow (inc. return flow)		50 US gals/hr. (190 liters/hr.)	80 US gals/hr. (300 liters/hr.)	180 US gals/hr. (680 liters/hr.)
Engine Mounted		OK	OK	OK
Chassis Mounted		OK	OK	OK
Operating Temperature		-40°F to +250°F (-40°C to +121°C)		
Suction/Vacuum		OK	OK	OK
Typical Pressure Drop (across clean filter)		0.8 psi (5kPa) at 45 US gals/hr. (170 liters/hr.)		

Maximum Operating Pressure (w/out See-through Water Bowl)		Up to 30 psi (200 kPa)	Up to 60 psi (413 kPa)	Up to 100psi (688 kPa)
Particulate Filter		Efficiency up to 99% @2 microns (TR13353)		
Water Separation		All Stanadyne filters use specially treated hydrophobic media to remove water. Up to 98% efficiency.		
Air Removal		Several options to automatically bleed air back to fuel tank.		
Pre-filter Media Micron Rating		Choice of 150, 30, or 10-microns		
Final Filter Media Micron Rating		Choice of 5 or 2-microns		
Mounting Header		Molded engineered plastic	Cast aluminum	Cast aluminum
"Key Track" System		Standard on all FM10, FM100 & FM1000 Series, Ensures only correct service element can be installed on header		
Fuel Line Connection Options		Molded plastic hose barb or latch bead	Optional screw-in threads, OR metal hose barb/latch bead/ "quick connectors" Contact Stanadyne for details	
Overall Installation Dimensions		Width = 95mm Depth = 101mm Height = 150mm (smallest) 230mm (largest)	Width = 101mm Depth = 105mm Height =162mm (smallest) 243mm (largest)	Width = 187mm Depth = 155mm Height =224mm (smallest) 326mm (largest)
Optional Modules				
See-through Water Collection Bowl		Re-usable See-through Bowl for FM10 & FM100 Enables easy visual check of water to be drained. Adds 70ml extra water storage capacity		Larger See-Through Bowl for FM1000 Enables easy visual check of water to be drained. Adds 350ml extra water storage capacity

Electronic Water-in-Fuel Sensor		Available for FM10, FM100 & FM1000 Series. Choice of 12 volts or 24 volts. Choice of electronic signal type. • "Active", completely self-contained kit including warning light to indicate need to drain water. Can either be OEM installed or retrofitted. Choice of electrical connectors available. • Alternative "passive" version where electronic signal is controlled by engine or vehicle ECU to provide warning. Choice of electrical connectors available.		
Hand Priming Pump		Available for FM10, FM100 & FM1000 Series Enables easy purging of air when initial priming or at time of filter element change.		
Electric Transfer/Lift Pump		Not available	12 volts. 4 Amps. Max flow up to 80 US gals/hr. (303 liters/hr.) **Note:** Must be configured to ensure fuel is filtered before pump to protect from debris. Uses special filter elements.	Not available
Electric Fuel Heater Choice of "Top Load" or "Side Load"		Not available	Choice of 12 volts or 24 volts 100 or 150 watts Built-in thermostatic switch	12 volts 200 or 300 watts Built-in thermostatic switch
Thermal Diverter Valve Heater		Special mounting header design is available for FM10 & FM100. Filter "tees" into return line and uses hot fuel to prevent waxing of fuel in filter. Also enables automatic air purging back to tank.		Contact Stanadyne for details.

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STANADYNE®

America's Diesel Innovator

Stanadyne is America's leader in diesel fuel injection system technologies. Manufacturing filters, additives, injection pumps and injectors, we understand the total diesel picture.

Diesel technology came of age with Stanadyne's introduction of the rotary diesel fuel injection pump in the early 1950's — the breakthrough invention that made high-speed diesel engines widely practicable. In the 70's, our new filtration systems marked another major advance for the diesel industry. Continuing research and development, backed by unequalled experience in the industry, keep Stanadyne at the leading edge of diesel technology.

Today, Stanadyne diesel products are sold and serviced at over 1,200 locations in more than 70 countries and our reputation for innovation, reliability and service has made us the supplier of choice for many of the world's leading manufacturers of diesel vehicles and engines.

Our commitment to quality begins with the design process, when performance and dependability are optimized with the most advanced methods and equipment. Incoming materials are thoroughly tested and finished products are rigorously checked against our high standards and those of our customers.

Used in combination with Stanadyne additives like Performance Formula® our Fuel Manager® filtration system helps diesel engines run stronger and longer.

Because Stanadyne manufactures products that manage fuel from the moment it enters your tank until it's consumed by the engine, our understanding of diesel engines is complete. That's how Stanadyne gives diesel owners, operators and manufacturers total fuel management.

STANADYNE®

A Leader In Fluid Management Technology

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