



**PERFECT
FILTRATION**
S Y S T E M S

ULTIMATE COALESCING & CENTRIFUGAL FUEL/WATER SEPARATORS

POINT OF DELIVERY FUEL FILTRATION

We all know the #1 cause of fuel injector wear, fuel pump failures, costly engine repairs, and premature filter clogging is due to water and solid particles below 10-micron in size. The new high pressure tight tolerance diesel engines require ultra clean water free diesel fuel.

THE ULTIMATE SYSTEMS WILL PROVIDE THE PROTECTION YOU NEED!



Model 4175 (52 gpm max.)

PFS customers enjoy ultra clean water free fuel. They are experiencing longer OEM filter life, fewer fuel related service calls, no premature filter clogging, longer injector life, better engine performance and often times, better fuel economy.

Unique Three Step Process:

Step 1 Coalescing chamber: The fuel enters the filter housing and is forced down into the coalescing chamber where the fuel flows through some very fine stainless steel mesh material where the small water droplets come together (**Coalesce**) as the fuel flows through the small opening in the mesh material; the heavier water droplets fall out of the fuel flow and settle to the bottom to be drained off. Water sight glasses and a water drain valve are provided.

Step 2 Centrifugal chamber: This process occurs when the fuel exits the coalescing chamber and flows upward into the centrifugal chamber. The fuel flows through a stainless steel pipe and comes in direct contact with a stainless steel coned baffle spinning the fuel in a circular motion (**Centrifugal force**). This motion causes the heavier water droplets to fall out of the fuel flow to be drained off. Water sight glasses and a water drain valve are provided.

Step 3 Depth-type filter chamber: After the fuel exits the centrifugal chamber it enters the filtration chamber. The 3-micron cellulose depth-type filter traps the majority of the solids particulates including: dirt, metal, bacteria, algae, microbes, and other solid contaminants. The filter also has water absorbing capabilities to remove free and emulsified water that was not removed in the first two steps. The depth-type filter has a very large water and solid holding capacity which means long filter life and high efficiency. Each filter can absorb up to 1 gallon of water and can hold 8-10 lbs of solids. Once the fuel is filtered it exists the filter housing through a stainless steel pipe ultra clean.

How often do your filters need to be replaced?

Most of our customers are changing filters every six months. We have some customers filtering 200,000 to 350,000 gallons in between filter changes.

**10 YEAR HOUSING WARRANTY. BEST IN THE INDUSTRY
MADE IN THE USA**

PRODUCT FEATURES AND BENEFITS:

- *Three step filtration process: Coalescing, Centrifugal, and filter chamber
- *100% carbon steel housing with stainless steel internal wetted parts
- *Industrial grade black powder coated exterior finish
- *Heavy duty housing with bolt down covers
- *3-micron depth-type filter media to meet and exceed ISO cleanliness standards
- *Gauge, water sight glass, and water drain valve are all included
- *Suction side or pressure side installation
- *Long filter life you could expect to filter 150,000 +gallons before a filter change
- *Expect less downtime, lower maintenance costs, longer injector life, longer OEM filter life, no more premature filter clogging, & longer engine life.
- *Patented proven product
- *Used on diesel fuels, bio-diesels, and gasoline
- *Used by the US Military & OEM's
- *Removes water, bacteria, algae, microbes, and other solid contaminants
- * Ultra clean water free fuel



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Model 1175 (15 gpm max.)



Model 2175 (26 gpm max.)



Model 2175 (26 gpm max.)



Model 5175 (65 gpm max.)



U.S Air Force installed Model 6175 (78 gpm max.)

MODEL	MAX. FLOW RATE	DIMENSIONS W x L x H	WEIGHT	INLET & OUTLET	MAX. PRESSURE	FILTER#	WATER CAPACITY
1175	15 GPM	12"X 12"X 50"	110Lbs	1"FNPT	100 PSI	(1)- #3914	1 GALLON
2175	26 GPM	12"X 24"X 50"	220Lbs	1"FNPT	100 PSI	(2)-#3914	2 GALLONS
3175	39 GPM	12"X 36"X 50"	330Lbs	1 ½"FNPT	100 PSI	(3)-#3914	3 GALLONS
4175	52 GPM	12"X 48"X 50"	440Lbs	1 ¼" FNPT	100 PSI	(4)-#3914	4 GALLONS
5175	65 GPM	12"X 60"X 50"	550Lbs	2"FNPT	100 PSI	(5)- #3914	5 GALLONS
6175	78 GPM	12"X 72"X 50"	660Lbs	2"FNPT	100 PSI	(6)-#3914	6 GALLONS

INCLUDED ITEMS: Coalescing and Centrifugal Fuel / Water Separator Housing, filters, pressure gauge, sight glasses, and water drain valve. Systems can be manifolded together for higher flow rates.



#3914 Depth-type Filter Media
Material: Cellulose
Dimensions: 7" x 19 3/4"
Micron Rating: 3-Micron
Filter Performance B3<(c)=1000
Solid Holding Capacity: 8-10Lbs each
Water Holding Capacity: 1 Gallon each

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3914 CELLULOSE DEPTH-TYPE FILTER

- * Axial flow between layers of media
- * Creped cellulose with interlocking layers to remove solids efficiently
- * High efficiency filtration with low micron levels (<1 micron)
- * Performance to B<3(c)=1000 (Per ISO16889)
- * Micron rating 1-3 micron is size
- * Very high solid holding capacity= 8-10 lbs per filter
- * Removes water, bacteria, algae, microbes, dirt, rust, asphaltenes, and other solids
- * Can achieve very low ISO cleanliness levels
- * High water holding capacity= 1 gallon per filter
- * Will absorb free and emulsified water
- * Can maintain water levels to below 50ppm
- * Water efficiency 99.9%
- * Inexpensive high quality product
- * Long filter life: will last many times longer than conventional pleated paper filters
- * Most conventional filters will not remove water

DEPTH-TYPE FILTRATION IS KNOWN TO BE THE MOST EFFICIENT FILTERING TECHNIQUE.



Depth-type filter elements full of water, bacteria, algae, microbes, and other solid particulates. These are the harmful contaminants that get through conventional pleated paper filters and cause premature filter clogging, injector failures, costly down time, and high maintenance costs.



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