



**POLISHING FUEL SINCE 1981**

The Ultimate Coalescing and Centrifugal Fuel Polishing machines will remove water, bacteria, algae, dirt, rust, and other solid contaminants from diesel fuel and bio-diesels. Our systems use a unique three step filtration process to clean the fuel.

**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.

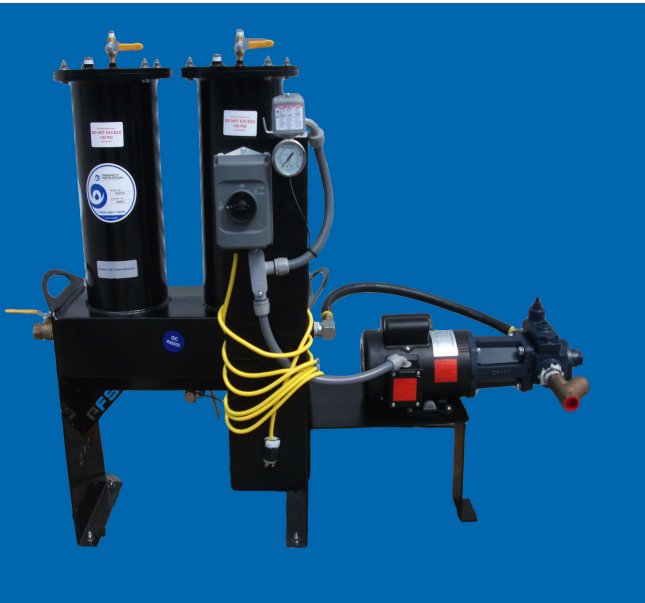
**Step 2 Centrifugal chamber:** This process occurs when the fuel exits the coalescing chamber and flows up into the centrifugal chamber. The fuel flows through a stainless steel pipe and comes in direct contact with a stainless steel coned baffle spinning the fuel in a circular motion (**Centrifugal 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 contaminate 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 exits the filter housing through a stainless steel pipe ultra clean.

**Option: Pre-filter Bag Housing:**

We recommend a pre-filter bag housing with a 5-micron nominal rated polyester felt bag installed on the suction side of the pump to trap the large solid particulates to protect the gear pump against wear and extend the life of the depth-type filter elements.

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



**Model 2175-20-ABB (20 GPM)**

Coalescing and Centrifugal Fuel / Water Separator Housing, filters, electric motor c-faced to a gear pump with internal relief valve, ABB motor starter with under voltage trip and overload protection, Square D Hi / Lo pressure switch with automatic safety shut down, power cord, pressure gauge, & sight glass water drain completely assembled.

**PRODUCT FEATURES & BENEFITS:**

- \* Removes free and emulsified water
- \* Removes the majority of the solids
- \* 3-micron depth-type filter element
- \* Long depth-type filter life
- \* No more bacteria and algae problems
- \* No more premature filter clogging
- \* Three step filtration process
- \* Heavy duty bolt down cover housings
- \* Industrial black powder coating
- \* Gauge to help monitor filter life
- \* Sight glass and water drain
- \* Ultra clean fuel when you need it most
- \* Easy quick filter change
- \* Low maintenance product
- \* Easy installation
- \* Coalescing and Centrifugal water removal
- \* Recommended by some OEM's
- \* Motor starter and Hi/Lo safety shutoff
- \* Lower maintenance & operating costs
- \* Meets OEM cleanliness standards
- \* Pre-filter bag housing
- \* Great warranty and Made in the USA!



**Model 1175-10 (10 GPM)**



**Model 2175-20-ABB (20 GPM)**



**Model 2175-20-ABB-B (with bag filter housing)**



**Model 3175-30-ABB (30 GPM)**



**Model 4175-40-ABB (40 GPM)**



**Model 5175-54 (54GPM)**

MODEL	FLOW RATE	DIESEL TANK SIZE	DIMENSIONS W x H x L	WEIGHT	MOTOR	MOTOR FL AMPS
1175-5-1-ABB	5 GPM	Up to 5,000 Gallons	12"x 55"x40"	175 LBS	1 HP-120VAC	13.6
1175-10-1-ABB	10 GPM	5,000-10,000 Gallons	12"x 55"x40"	195 LBS	1 HP-120VAC	13.6
2175-20-1-ABB	20 GPM	10,000-20,000 Gallons	12"x 55x 48"	275 LBS	1 HP-120VAC	13.6
3175-30-112-ABB	30 GPM	20,000-30,000 Gallons	12"x 55x 60"	375 LBS	1 ½ HP-120VAC	15.0
4175-40-2-ABB	40 GPM	30,000-40,000 Gallons	12"x 55x 88"	600 LBS	2 HP-240VAC, 1 phase	8.5
5175-54-3-ABB	54 GPM	40,000-50,000 Gallons	12"x 55x 105"	700 LBS	3 HP-240VAC, 1 phase	14.5

**INCLUDED ITEMS:** Coalescing and Centrifugal Fuel / Water Separator Housing, filters, electric motor c-faced to a gear pump with internal relief valve, ABB motor starter with under voltage trip and overload protection, Square D Hi / Lo pressure switch with automatic safety shut down (120VAC only), power cord and pressure gauge completely assembled.

- Other motor voltages available
- Optional item: Add Suffix B: Pre-filter bag housing with 5-Micron bag installed on the suction side of the pump to help extend the life of the gear pump and depth-type filter.



#3914 Depth-type Filter Media  
Material: Cellulose  
Dimensions: 7" x 19 3/4"  
Micron Rating: 3-Micron  
Filter Performance B3<(c)=150  
Solid Holding Capacity: 8-10Lbs  
Water Holding Capacity: 1 Gallon

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