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 contaminant 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**

**PRODUCT FEATURES & BENEFITS:**

* Removes 99.9% of the 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 glasses 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!
### ULTIMATE COALESCING & CENTRIFUGAL STATIONARY FUEL POLISHING MACHINES

#### 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 undervoltage trip and overload protection, Square D Hi / Lo pressure switch with automatic safety shut down, power cord and pressure gauge completely assembled.
- Other motor voltages available
- Digital timer, PLC controller, alarms, and sensors are available. Consult PFS.
- If optional Bag filter housing with 5-Micron bag is required AddSuffix B
- Models 1075-5075’s use a Two step process to remove water and solids. Coalescing chamber and filter chamber.

### Table

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow Rate</th>
<th>Diesel Tank Size</th>
<th>Dimensions W x H x L</th>
<th>Weight</th>
<th>Motor</th>
<th>Motor F.L Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>1175-5-ABB</td>
<td>5 GPM</td>
<td>Up to 5,000 Gallons</td>
<td>12&quot; x 55&quot; x 40&quot;</td>
<td>175 LBS</td>
<td>1 HP-120VAC</td>
<td>13.6</td>
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<tr>
<td>1175-10-ABB</td>
<td>10 GPM</td>
<td>5,000-10,000 Gallons</td>
<td>12&quot; x 55&quot; x 40&quot;</td>
<td>175 LBS</td>
<td>1 HP-120VAC</td>
<td>13.6</td>
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<tr>
<td>2175-20-ABB</td>
<td>20 GPM</td>
<td>10,000-20,000 Gallons</td>
<td>12&quot; x 55&quot; x 48&quot;</td>
<td>275 LBS</td>
<td>1 ½ HP-120VAC</td>
<td>15.0</td>
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<tr>
<td>3175-30-ABB</td>
<td>30 GPM</td>
<td>20,000-30,000 Gallons</td>
<td>12&quot; x 55&quot; x 60&quot;</td>
<td>375 LBS</td>
<td>1 ½ HP-120VAC</td>
<td>15.0</td>
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<tr>
<td>4175-40-ABB</td>
<td>40 GPM</td>
<td>30,000-40,000 Gallons</td>
<td>12&quot; x 55&quot; x 88&quot;</td>
<td>600 LBS</td>
<td>2 HP-240VAC</td>
<td>8.5</td>
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<tr>
<td>5175-54-ABB</td>
<td>50 GPM</td>
<td>40,000-50,000 Gallons</td>
<td>12&quot; x 55&quot; x 105&quot;</td>
<td>700 LBS</td>
<td>3 HP-240VAC</td>
<td>14.5</td>
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</tbody>
</table>

### Filter Media
- **#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: 8-10 Lbs
  - Water Holding Capacity: 1 Gallon

#### Contact Information
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