



**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.

**Model 89SB-15-OF**

**Diesel fuel and bio-diesel use only.**



**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.

**How does the unique three step process work?**

**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 openings in the mesh material: the heavier water droplets fall out of the fuel flow and settles 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 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 exists the filter housing through a stainless steel pipe ultra clean.

**MADE IN THE USA**

**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
- \* Gauges 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
- \* Gear pump with internal relief valve
- \* Coalescing and Centrifugal water removal
- \* Recommended by some OEM's
- \* General purpose electric motor
- \* Lower maintenance & operating costs
- \* Meets OEM cleanliness standards
- \* Pre-filter bag housing
- \* Great warranty and Made in the USA!



**Model 89SB-8-OF**



**Model 89SB-10-OF**



**Model 89SB-15-OF**



**Model 89DB-20-OF**



**Model 89DB-24-OF**



**Model 89DB-30-OF**

MODEL	FLOW RATE	DIMENSIONS W x H	WEIGHT	MOTOR HP	120VAC F.L AMPS	FILTER	BAG
89SB-8-OF	8 GPM	28" X 53"	300 LBS	1 HP	13.6	#3914	#5005
89SB-10-OF	10 GPM	28" X 53"	300 LBS	1 HP	13.6	#3914	#5005
89SB-15-OF	15 GPM	28" X 53"	300 LBS	1 HP	13.6	#3914	#5005
89DB-20-OF	20 GPM	34" X 53"	500 LBS	1 ½ HP	15.0	#3914	#5005
89DB-24-OF	24 GPM	34" X 53"	500 LBS	1 ½ HP	15.0	#3914	#5005
89DB-30-OF	30 GPM	34" X 53"	500 LBS	1 ½ HP	15.0	#3914	#5005

**SYSTEMS INCLUDE:** Suction side 5-micron bag filter housing (B) to help protect the gear pump and extend filter life. Pressure side Coalescing and Centrifugal Fuel / Water Separator housing, 3-micron cellulose depth-type filter(s), 120VAC electric motor c-faced to a internal gear pump with built in relief valve, manual ON / OFF (OF) switch 15 foot power cord, pressure gauge, sight glasses / water drains, set of 20 foot hoses with quick disconnects, hose holders, completely assembled on portable cart with wheels.

**Optional Item:**

- -ABB For Motor starter with Square D Hi / Lo pressure switch with automatic safety shut down
- -T For Transfer only capabilities

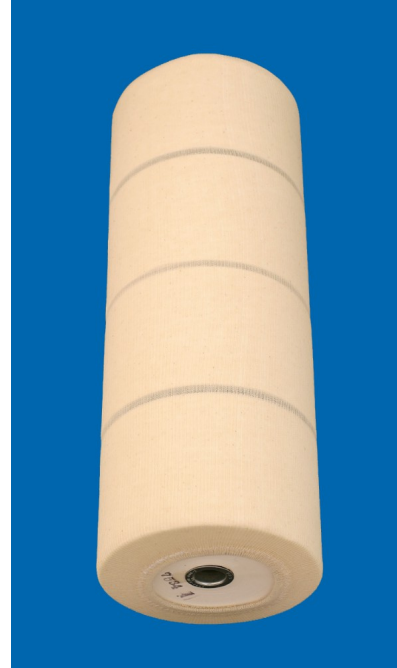


**PERFECT  
FILTRATION**  
S Y S T E M S

## #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
- \* Performance to B<3(c)=150 (Per ISO16889)
- \* 99.33% efficient at 3-micron
- \* Maximum diesel fuel flow rate per filter 15 gpm
- \* Very large solid holding capacity= 8-10 lbs per filter
- \* 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
- \* 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.



Pre-filter bag housing with a 5-micron nominal rated polyester felt bag installed on the suction side of the gear pump to help extend the life of the pump and the depth-type filter element.

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