



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

ULTIMATE COALESCING & CENTRIFUGAL PORTABLE FUEL POLISHING MACHINES

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.



All Models Include:

Pre-filter bag housing, Coalescing and Centrifugal Fuel / Water Separator housing, filters, 120VAC 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, pressure gauge, sight glasses, water drain, set of 14 foot hoses, hose holders, completely assembled on portable cart with wheels.

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.

**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 overload and pressure safety switch
- * Lower maintenance & operating costs
- * Meets OEM cleanliness standards
- * Pre-filter bag housing
- * Great warranty and Made in the USA!



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**Model 89S-10
(10 GPM)**



**Model 89D-24
(24 GPM)**



**Model 89SB-15
(15 GPM)**



**Model 89DB-30
(30 GPM)**

MODEL	FLOW RATE	DIMENSIONS W x H	WEIGHT	MOTOR HP	MOTOR F.L AMPS	BAG HOUSING	BAG FILTER#	NOMINAL RATING
89SB-8	8 GPM	28" X 53"	250 LBS	1 HP	13.6	INCLUDED	#5005	5-Micron
89SB-10	10 GPM	28" X 53"	250 LBS	1 HP	13.6	INCLUDED	#5005	5-Micron
89SB-15	15 GPM	28" X 53"	250 LBS	1 HP	13.6	INCLUDED	#5005	5-Micron
89DB-20	20 GPM	34" X 53"	350 LBS	1 ½ HP	15.0	INCLUDED	#5005	5-Micron
89DB-24	24 GPM	34" X 53"	350 LBS	1 ½ HP	15.0	INCLUDED	#5005	5-Micron
89DB-30	30 GPM	34" X 53"	350 LBS	1 ½ HP	15.0	INCLUDED	#5005	5-Micron

INCLUDED ITEMS: Pre-filter bag housing, Coalescing and Centrifugal Fuel / Water Separator housing, filters, 120VAC 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, pressure gauge, sight glasses, water drain, set of 14 foot hoses, hose holders, completely assembled on portable cart with wheels.

- Other motor voltages available
- Larger systems available
- If Bag filter is not required remove Suffix **B**
- Model 88's use a Two step process to remove water and solids. Coalescing chamber and filter chamber.



#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
Water Holding Capacity: 1 Gallon

2711 Airport Road, Suite 6
Plant City, FL 33563
Phone 800-864-7855
Fax 813-659-2435
Email: sales@perfectfiltration.com
www.perfectfiltration.com