In-Line Bulk Fuel Coalescing Filter ICF

**Coalescing Elements Patent Pending*

Introduction

The ICF bulk coalescing filter is a highly effective method to remove water from diesel fuels and can be mounted on larger mobile equipment and on small storage tanks. Water in a vehicle fuel system can reduce lubricity causing seizure of close tolerance parts and increased wear. Microbial growth in fuel storage systems begins in free water at the tank bottom and can quickly migrate through the fuel. In warm weather, microbial “blooms” can quickly overwhelm and bypass fuel filters causing contamination to reach the fuel injectors. Today’s high fuel injector systems have tighter tolerances and require complete water removal to minimize wear related failures. The ICF bulk fuel coalescing filter will protect critical equipment and components.

With its size and the flow-rate, the ICF is a great choice for fuel maintenance, recirculation and kidney loop applications supporting fleet operations.

The Schroeder coalescing units are rated at 99.5% single pass efficiency and are capable of removing free water and particulate matter from the following petroleum based fuels: ULSD 15 (and similar petroleum fuels), biodiesel and all blends, along with synthetic diesel and all blends.

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Features

- Patent-pending, three-phase, particulate and fuel/water separation media technology
- A revolutionary element designed for the highest single-pass water and particulate removal efficiencies in today’s Ultra-low Sulfur Diesel (ULSD) fluids
- Protects expensive Tier III and Tier IV engine components against failures caused by water transferred from the bulk fuels tanks to the vehicle
- Allows users to achieve or exceed the particulate and water removal specifications of the injection system OEMs
- Previously acceptable industry standard products no longer provide the high-efficiency separation needed in today’s ULSD fluids
- Housing design allows for field upgrade of any available option
- Anti-static media is standard for all coalescing elements
- Complete automation is achievable with fail-safe auto-drain feature using a remote 5 gallons (18L) or 20 gallons (75L) sump with alarm and auto shutdown

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Markets / Application

- Industrial
- Mobile Vehicles
- Marine
- Mining
- Agriculture
- Bulk Oil Filtration

Technical Data

Flow Rating:	Up to 16 gpm (60 L/min) for ULSD15
Inlet/Outlet Connection:	1 ½ NPTF Standard, SAE 16 Optional
Max. Operating Pressure:	150 psi (10 bar)
Min. Yield Pressure:	400 psi (28 bar)
Rated Fatigue Pressure:	90 psi (6 bar), per NFPA T2.6.1-2005
Temp. Range:	-20°F to 165°F (-29°C to 74°C) standard
Bypass Setting:	Cracking: 40 psi (3 bar)
Porting Head/Cap: Element Bowl:	Aluminum - Coating Option see Box 7 Steel - Coating Option see Box 7
Filter Housing Weight:	15 lbs (6.8 kg) - Base unit without options or element
Element Change Clearance:	With mounting bracket - 18" (457.2 mm) - Access from top (remove cap) Without mounting bracket - Access from below 2.5” (63.5 mm) (remove bowl)
Housing Sump:	32 oz. (0.946 L)
Optional:	External water sump and non-Emerson heater (power 120VAC, 1 x 45W), Sight glass, epoxy coating, bracket, visual indicating light w/ remote mount
*Note: Other electrical options, contact factory Element sold separately	

Fluid Compatibility

- ULSD15, low sulfur diesel and high sulfur diesel
- Biodiesel blends
- Synthetic diesel and blends
- No. 2 fuel oil and heating oil