HIGH PURITY NORTHWEST INC.



Fuel Conditioning System

FUEL CONDITIONING SYSTEM

Diesel fuel cleanliness standards are tighter now than ever. Modern diesel powered generators demand cleaner fuel as tolerances are tighter. Abrasives cause significantly more wear due to higher pressures within the injection system.

Water is a major cause of pump and injector failure as it breaks down the diesel fuel's lubricity. Water enhances algae growth, which produces more particulate. Water also promotes acid growth that corrodes tanks and engine components.

Fuel picks up contaminants along the way from the refinery to the distribution center and from the distribution center to the end user. Every step in the transportation process adds contamination.

The FFC Series of fuel conditioning equipment addresses both water and particulate removal. The filter system features a first stage, large absolute rated micro-glass coreless filter element for maximized particulate removal. Our filter media is multi-layered pleated micro-glass certified to Bx[c]≥1000 in accordance with ISO 16889. Micron ratings of 1, 2.5, 3, 6, 10 and 25 are available. The 3 micron media typically achieves an ISO cleanliness code of 15/13/9 or better.

The second stage is a filter/separator coalescing vessel to mechanically remove free and emulsified water. As the coalescing filter elements coalesce smaller water droplets into larger ones, a second hydrophobic barrier element sheds the water droplets so they fall into the sump below. A sight glass provides a visual of the fuel/water interface. A water probe alerts the operator to drain the vessel by way of an alarm light on the control panel.

The FFC Series is ideal for diesel fuel storage tanks for standby power generation or any application where fuel in storage tanks may be contaminated with water and particulate matter. Continuous removal of water is critical in the prevention of bio growth and sludge build up in bulk fuel storage tanks and absolutely necessary for critical back up power generation systems.

Meets stringent ASTM D975 and ISO 4406 fuel cleanliness standards.

MAXIMUM FLOW RATES (USGPM)

Filter/Separator	Flow Rate (GPM)
VX1	25
VX2	50
VX3	75
Call for Higher Flow Rates	



OPTIONS

- Depth Media for Varnish & Sludge Removal
- Automatic Air Release
- Parker iCount Particle Counter with Moisture Monitor
- Stainless Steel Construction
- 5"x18 or 5"x37" Filter Housing
- Thermal Relief Valve
- Auto Valves and Timer for Automatic Single or Dual Tank Service
- Jet Fuel, Kerosene, Turbine Lube Oil and Insulating Oil Service





STANDARD FEATURES

- Positive Displacement Gear Pump
- TEFC Motor
- Robust Filter Housing with Swing Bolt Closure and Accepts (1) 6"x39" Microglass Coreless Filter Element with Internal Bypass.
- ßx[c]≥1000 Microglass Filter Media Coreless Filter Element with 45 PSID By-Pass Valve
- Compact Filter/Separator Vessel
- Differential Pressure Gauges
- NEMA 4 Control Panel with Main Disconnect, Dirty Filter Lights, High Water Light and Run Light
- Heavy Duty Base with Drip Lip and Fork Lift Slots
- Inlet and outlet Connections with Isolation Valves
- All Components piped together with Stainless Steel Hydraulic Tubing



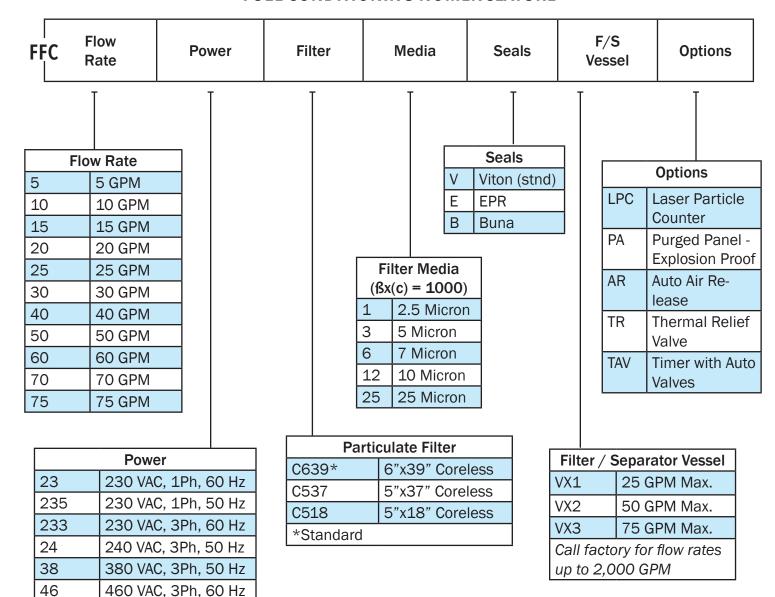
Standard 6"x39" Coreless Filter Element

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FUEL CONDITIONING NOMENCLATURE





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