

FILTRATION SYSTEM WITH MULTI-FUNCTION FUEL SYSTEM CONTROL PANEL



The Proven Controls FS Fuel Filtration System is designed to circulate and clean stored diesel fuel at critical facilities. Filtration has become an important process in critical facilities due to the increased need for reliable emergency power. Data Centers and Hospitals are storing more fuel on-site in order to keep their facilities running longer during power outages. Most of the stored fuel is not being used in a timely manner, and as the fuel ages, particulates can form that can clog fuel systems and generator injectors. The storage tanks can also accumulate water over time from atmospheric condensation, which can in turn cause bacterial growth in the storage tanks and clog fuel systems. Newer diesel engines require higher purity fuel, because of improved emission requirements, which are more susceptible to water entrapment.

The FS Fuel Filtration System is designed to meet a smaller footprint, but is still capable of filtering tanks from 500 to 50,000 gallons.

The FS Fuel Filtration/ Polisher System utilizes Viking Pumps and Racor Filters to effectively clean fuel. It is complete with a pre-pump 50 mesh basket strainer, 10 micron pre-filter (optional), and 1 micron filter/water coalescer. Isolation ball valves, pressure/ vacuum gauges, and pump relief are all standard options. The unit is mounted in a NEMA rated outdoor enclosure with leak detection. NEMA 4X enclosures are an available option.

The FS Fuel Filtration System includes an integrated Control Panel and Motor Starter in a compact design. An Emergency Stop pushbutton is conveniently located on the front of the panel, along with an alarm light and alarm buzzer for a visible/audible alarm notification.

The FS Fuel Filtration System Control Panel includes an HMI screen to visually monitor the system. Scheduling is done by selecting the specific hour/day/run times for automated filtration. Communication to BAS/BMS is available via BACnet or Modbus TCP/IP, as well as other fuel system control panels via ethernet.

Standard Options

Dimensions

- Enclosure
 - 48 X 48 X 16
 - 60 X 60 X 16
- Panel
 - 16 X 16 X 10
 - 20 X 20 X 10

Approval

- UL 508A

Power Requirements

- 120VAC 10A 60Hz 1-Phase
- 208/230VAC 10A 60Hz 1-Phase
- 240VAC 10A 60Hz 3-Phase
- 480VAC 10A 60Hz 3-Phase

Enclosure Rating

- NEMA 3R, 4, 12
- NEMA 4X

Communication Protocol

- BACnet
- Modbus

Custom Options

- Multi-Tank Polishing
- Fuel Transfer between multiple tanks
- Interior Skid-Mounted version
- Stainless Steel Pipes

Pump Capacity

- 7 GPM
- 10 GPM
- 15 GPM
- 20 GPM
- 30 GPM

Motor HP

- ½ HP
- ¾ HP
- 1 HP
- 1.5 HP
- 2 HP
- Other