

# SMART FPS MX-F

## SMART Fuel Polishing Systems



**SMART Fuel Polishing Systems** are programmable, fully automated Fuel Optimization Systems that remove water, sludge and contaminants. They condition and stabilize fuel, keeping it dry and free from microbial contamination. SMART FPS Systems keep your tanks clean and your fuel in "Clear & Bright" pristine condition at all times. AXI's LG-X Fuel Conditioner reverses fuel deterioration and sedimentation to sub micron levels, preventing clogged filters, extending injection system service life, and reducing smoke, emissions and downtime.



### SMART FPS Systems feature:

- SMART Filtration Controllers
- Fully Automated and Programmable Operation
- Integration with Vessel Monitoring Systems
- Modular "Plug & Play" Flexibility
- Unique Safety & Alarm Features
- Continuous-Duty Pumps, Viton Seals

For safe operation, the **SMART FPS MX-F** is equipped with an automatic pump shut-down and indicators when filter elements require service. Also included are indicators for high pump vacuum, pressure exits and leaks.

Generators and pumps operating in remote locations are ideal applications for SMART FPS Systems. Fuel has a limited shelf-life and even "fresh fuel" could contain water, sediment and microbes upon delivery. Fuel filters should last thousands of hours. However, frequent filter changes, tank cleaning and replacing fuel have become common maintenance practices instead of serious warning signs of fuel problems.

SMART FPS Systems reverse fuel deterioration while decontaminating, cleaning and optimizing the fuel for guaranteed continuous, uninterrupted service.

### SMART FPS MX-F SPECIFICATIONS

Flow Rate	250 GPH
Primary Filter/ Water Separator	Separ 10 or 30 $\mu$
Secondary Filter	10 $\mu$ Particulate 3 $\mu$ Water Block
Fuel Conditioner	LG-X 1500
Smart Filtration Controller	SFC-50
Pump	1/3hp Internal Gear Pump
Power	110V 60Hz 15A or 230V 50Hz 15A
Plumbing	Stainless Steel
Ports	3/4" 37° Flare In 3/4" 37° Flare Out
Construction	Powder Coated Aluminum Back Plate
Dimensions	23" x 26" x 9" (58 x 69 x 23 cm)
Weight	70 lbs System 10 lbs SFC-50
Not for use with fluids that have a flash point below 100°F.	



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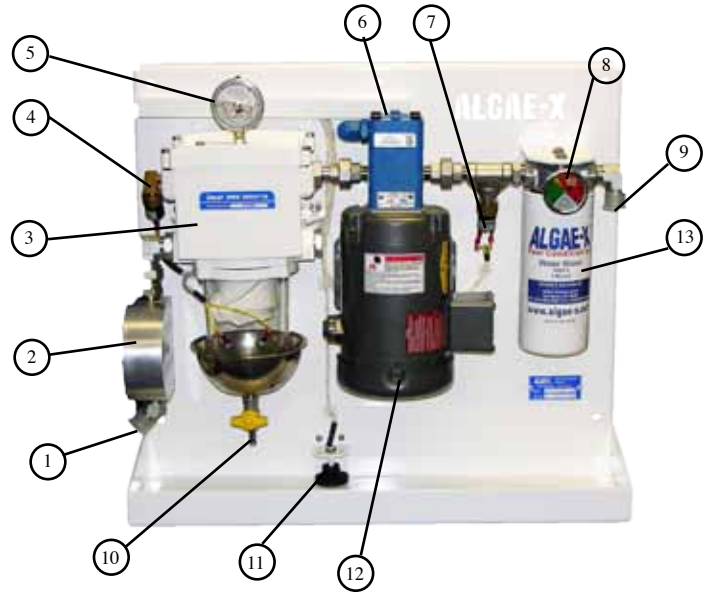
Wherever fuel is being used or stored

The system is automatically operated by the programmable UL508A **SMART Filtration Controller with text readout**. The controller's alarm functions and pump shut-down are triggered if filter elements require service, if high pump vacuum or pressure occurs, if system flow rate varies or if there is water in the separator. The wiring harness with plugs easily connects the SMART Filtration Controller with the FPS allowing for greater flexibility in installation and access where it's most convenient.

The **principal components** are a continuous-duty pump with primary filter/water separator with vacuum sensor and gauge, an **ALGAE-X Fuel Conditioner** and a SMART Filtration Controller.

The **SEPAR primary filter** protects the pump, coalesces and removes water and particulate. The patented **ALGAE-X Fuel Conditioner** prevents and reverses fuel degradation, agglomeration and microbial contamination.

Implementing SMART FPS Fuel Polishing and Transfer Systems will guarantee **Optimal Fuel Quality for Reliable Power At All Times**. SMART FPS Systems prevent downtime, periodic tank cleaning, replacing out-of-spec fuel and fuel-quality related injection system repairs.

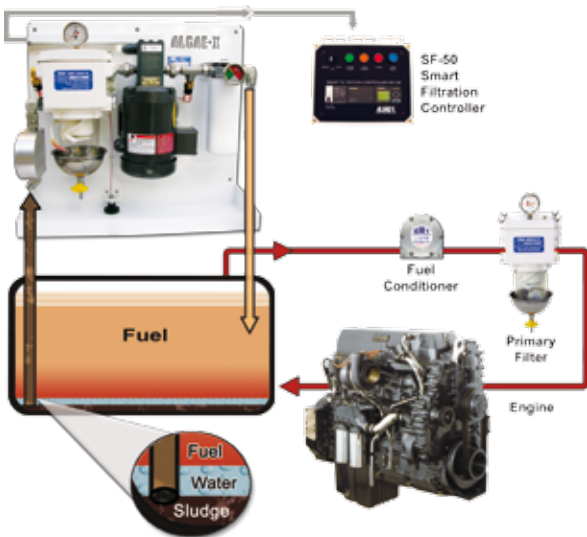


#### Inside the SMART FPS

1. Fuel Inlet (From Tank)
2. ALGAE-X® Fuel Conditioner
3. Separ Primary Filter / Water Separator
4. Vacuum Switch
5. Vacuum Gauge
6. Motor
7. Pressure Switch
8. Pressure Gauge
9. Fuel Outlet (To Tank)
10. Drain Valve
11. Leak Detector (Float Switch) in Spill Tray
12. Pump
13. Secondary Filter

#### SMART FPS Accessories:

- AFC-705 Fuel Catalyst
- Wide range of filter elements
- Fuel Sampling Pump Kit
- Microbial Contamination Testing Kit



Typical installation of the SMART FPS Fuel Polishing and Transfer System