

SMART FPS DX-D

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 DX-D is equipped with a digital programmable interface with 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.

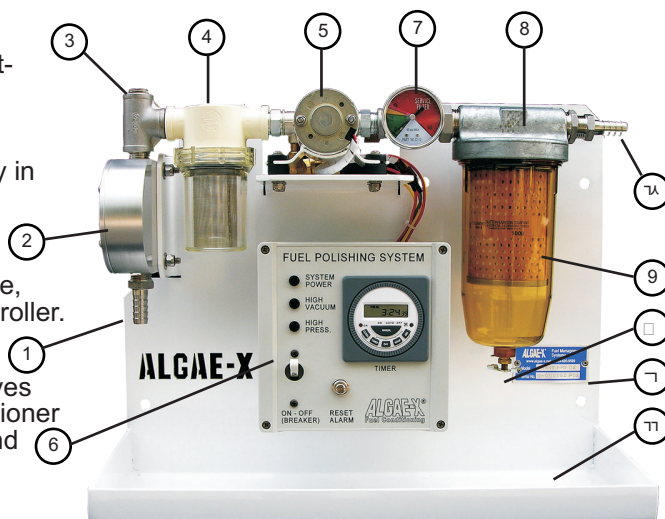
SMART FPS DX-D SPECIFICATIONS

Flow Rate	80 GPH (303 L/H)
Primary Filter/ Water Separator	15 µ Water Block 10 µ Particulate
Fuel Conditioner	LG-X 500
Smart Filtration Controller	Digital Programmable Interface
Power	12V DC / 24V DC 5A
Plumbing	Stainless Steel
Ports	1/2" Hose Barb
Construction	Powder Coated Aluminum Back Plate
Dimensions	15" x 18.5" x 7.5" (38 x 47 x 19 cm)
Weight	20 lbs System (10 kg)
Not for use with fluids that have a flash point below 100°F.	

The system is automatically operated by the programmable control panel. The controller's alarm functions and pump shut-down are triggered if filter elements require service, if high pump vacuum or pressure occurs or optional leak detection. 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.

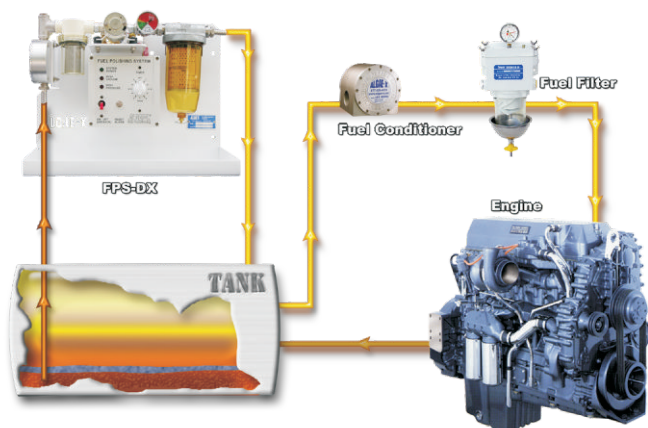
The primary filter protects the pump, coalesces and removes water and particulate. The patented ALGAE-X Fuel Conditioner prevents and reverses fuel degradation, agglomeration and microbial contamination.



Inside the SMART FPS DX-D

1. Fuel Inlet (From Tank)
2. ALGAE-X® Fuel Conditioner
3. Priming Tee
4. Strainer
5. Motor with coupled Gear Pump
6. Control Panel
7. Pressure Gauge
8. Fine Filter with Water Blocking Cartridge
9. Sight Bowl
10. Drain Valve
11. Serial Plate
12. Drip Tray
13. Fuel Discharge (To Tank)

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.



Typical installation of the SMART FPS
Fuel Polishing and Transfer System

SMART FPS Accessories:

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