

ALGAE-X[®] Smart FPS Fuel Polishing and Transfer Systems keep your diesel fuel in “pristine condition” while removing sludge and water from tanks. Fully automated programming with remote monitoring and control simplifies fuel optimization and maintenance.

Ensuring **Optimal Fuel Quality At All Times.**

- Fully Automated & Programmable
- Modular “Plug & Play” System
- Four Unique Safety And Alarm Features
- Remote Monitoring Ready
- Powder-coated, Corrosion-Resistant, Aluminum Back Plate & Spill Tray
- Stainless Steel Plumbing
- Industrial Gear Pump

NEMA rated 4X,12

The Smart FPS has three and four-stage water removal and particulate filtration down to 3 micron. Algae-X’s patented Fuel Conditioner reverses fuel deterioration and polymerization to sub micron levels.

For safe operation the Smart FPS is equipped with an automatic pump shut-down and indicators when filter elements require service. Also included are a **high pump vacuum, pressure exits, and leak detector.**



SYSTEM	FPS SX	FPS SX-R	FPS MX	FPS MX-F
Dimensions (H x W x D)	21" x 18" x 9" (53 x 46 x 23 cm)	21" x 18" x 9" (53 x 46 x 23 cm)	23" x 22" x 9" (58 x 56 x 23 cm)	23" x 26" x 9" (58 x 66 x 23 cm)
Weight (Approx.)	50 lbs System 10 lbs Controller 23 kg System 4.5 kg Controller	50 lbs System 10 lbs Controller 23 kg System 4.5 kg Controller	60 lbs System 10 lbs Controller 27 kg System 4.5 kg Controller	70 lbs System 10 lbs Controller 32 kg System 4.5 kg Controller
Power Requirements	110/60 Hz or 230 V/50 Hz	110/60 Hz or 230 V/50 Hz	110/60 Hz or 230 V/50 Hz	110/60 Hz or 230 V/50 Hz
AMPs	FLA 15A@110 V	FLA 15A@110 V	FLA 15A@110 V	FLA 15A@110 V
Flow Rate	150 GPH	150 GPH	250 GPH	250 GPH
Fuel Conditioner	LG-X 1500	LG-X 1500	LG-X 1500	LG-X 1500
Primary Filter/Separator	Separ (10/30 Micron)	Racor 1000 MA (10/30 Micron)	Separ (10/30 Micron)	Separ (10/30 Micron) Secondary Filter (3 Micron)
Controller	SFC-50	SFC-50	SFC-50	SFC-50
Port Size	In 3/4" 37 Degree Flare Connections Out 1/2" 37 Degree Flare Connections	In 3/4" 37 Degree Flare Connections Out 1/2" 37 Degree Flare Connections	In 3/4" 37 Degree Flare Connections Out 3/4" 37 Degree Flare Connections	In 3/4" 37 Degree Flare Connections Out 3/4" 37 Degree Flare Connections

ALGAE-X[®] Total Fuel Management Systems

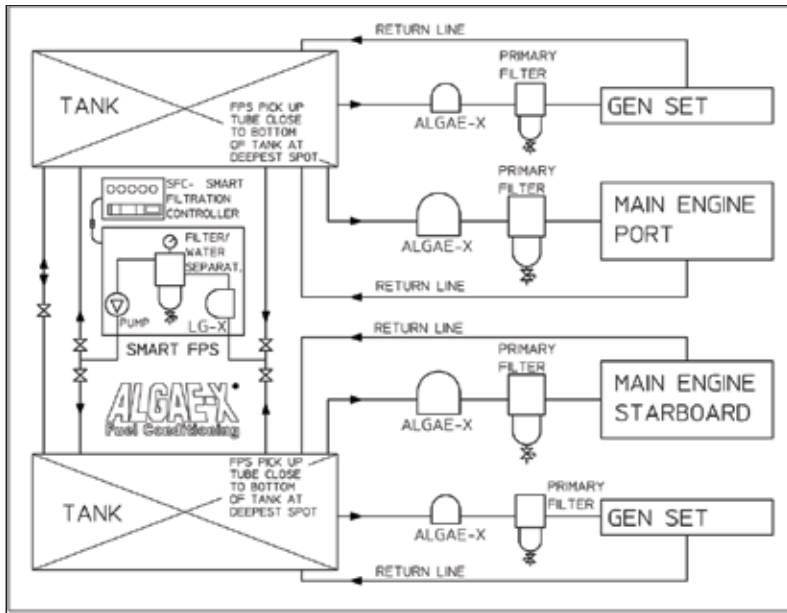


SMART FPS-SX

SMART FPS-SX-R

SMART FPS-MX

SMART FPS-MX-F



Typical Installation for SMART FPS

SMART FPS Fuel Polishing and Transfer Systems are equipped with a plug and play SFC-50 Smart Controller with text display.

Algae-X FPS systems and “Smart Filtration Controllers” are modular, fully automated and programmable fuel polishing systems. The wiring harness easily connects the Smart Controller box with the FPS allowing for greater flexibility in installation. The control box can be installed where it’s most convenient for you.

FPS Systems:

- **Remove water** and sludge keeping your tanks clean and your stored fuel in **“pristine condition”** at all times
- **Decontaminate**, clean and optimize the condition of the **“fresh”** fuel you take on-board
- **Transfer** fuel from one tank to another and fill your day tank

SMART FPS Accessories:

AFC-705 Fuel Catalyst, Wide Range of Filter Elements, Rotor Sight Glass, Foot Valve, Digital Flow Meter. Larger, high-capacity FPS systems are available. **We Work With Owners, Ship Yards, Naval Architects And Engineering Firms**, in designing and manufacturing custom built, innovative automated fuel conditioning systems.

Algae-X SFC-50 Smart Filtration Controller

The SFC-50 is a fully automated filtration controller with digital text readout of alarm and system status. The system’s operating functions are easy to program for scheduled periodic fuel maintenance.

The three color-coded lights give an instant visual status report of system power (green), pump running (orange), and alarm (red). The alarm reset is the easily accessible large (blue) push button. The selector switch provides the option of manual operation or running the fully automated program.



SFC-50 SMART Filtration Controller

ALGAE-X® Total Fuel Management Systems