

**ALGAE-X<sup>®</sup> Smart FPS Fuel Polishing Systems** keep your diesel fuel in “pristine condition” while removing sludge and water from tanks. The Smart FPS automated programming simplifies fuel maintenance and ensures optimal fuel quality at all times.



- Fully automated & programmable
- Compact design
- Modular “Plug & Play” system
- FOUR unique safety and alarm features
- Powder-coated, corrosion-resistant, aluminum back plate and spill tray
- Remote monitoring ready
- All stainless steel plumbing
- Reliable, heavy-duty, industrial gear pump
- Easy servicing
- Gauges for monitoring

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

For safe operation the Smart FPS has an automatic pump shut-down and indicators when filter elements require service, **high pump vacuum** or **pressure exists**, or **water is detected**. All Smart FPS systems feature a fuel filter/water separator. The Smart FPS also includes a drip tray monitored by a **leak detector**.

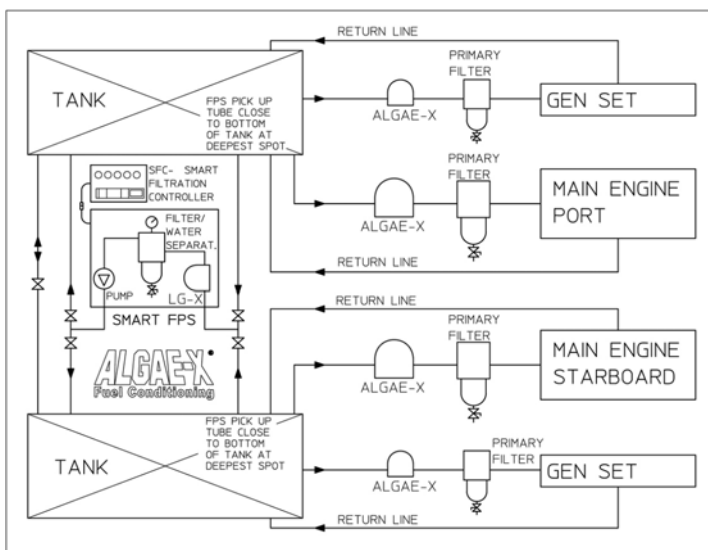
The Smart FPS MX-F model is also equipped with a secondary quick-change spin-on filter.

Series	Smart FPS SX	Smart FPS SX-R	Smart FPS MX	Smart FPS MX-F
<b>Flow rates</b>	~150GPH	~150GPH	~250GPH	~250GPH
<b>Port Size</b>	IN 3/4" 37° Flare (#12) OUT 1/2" 37° Flare (#8)	IN 3/4" 37° Flare (#12) OUT 1/2" 37° Flare (#8)	IN 3/4" 37° Flare (#12) OUT 3/4" 37° Flare (#12)	IN 3/4" 37° Flare (#12) OUT 3/4" 37° Flare (#12)
<b>Power</b>	110V / 60Hz 230V / 50Hz	110V / 60Hz 230V / 50Hz	110V / 60Hz 230V / 50Hz	110V / 60Hz 230V / 50Hz
<b>Weight</b>	~50 lbs filtration unit ~10 lbs control box	~50 lbs filtration unit ~10 lbs control box	~60 lbs filtration unit ~10 lbs control box	~70 lbs filtration unit ~10 lbs control box
<b>Dimensions (H x W x D) approximate</b>	Filtr. Unit 21" x 18" x 9" (53 x 46 x 23cm) Controller 10" x 11" x 6" (25 x 28 x 15cm)	Filtr. Unit 29" x 18" x 9" (74 x 46 x 23cm) Controller 10" x 11" x 6" (25 x 28 x 15cm)	Filtr. Unit 23" x 22" x 9" (58 x 56 x 23cm) Controller 10" x 11" x 6" (25 x 28 x 15cm)	Filtr. Unit 23" x 26" x 9" (58 x 66 x 23cm) Controller 10" x 11" x 6" (25 x 28 x 15cm)
<b>Algae-X Fuel Conditioner</b>	LG-X 1500	LG-X 1500	LG-X 1500	LG-X 1500
<b>Filter/Water Separator</b>	Separ (10 or 30 micron)	Racor 1000 MA (10 or 30 micron)	Separ (10 or 30 micron)	Separ (10 or 30 micron); Secondary Filter (3 micron)

## ALGAE-X<sup>®</sup> Total Fuel Management Systems



#### Typical Installation for Smart FPS



**Smart FPS Fuel Polishing 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 with plugs easily connects the Smart Controller box with the FPS allowing for greater flexibility in installation and access to the control box where it’s most convenient for you.

#### FPS Systems:

- **remove water** and sludge to keep 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 ship yards, naval architects and engineering firms**, to support and represent our customers 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