

# Automated Fuel Filtration System STS 6000-4GPM(-S)



## Ensures Safe & Reliable Emergency Generator Operation.

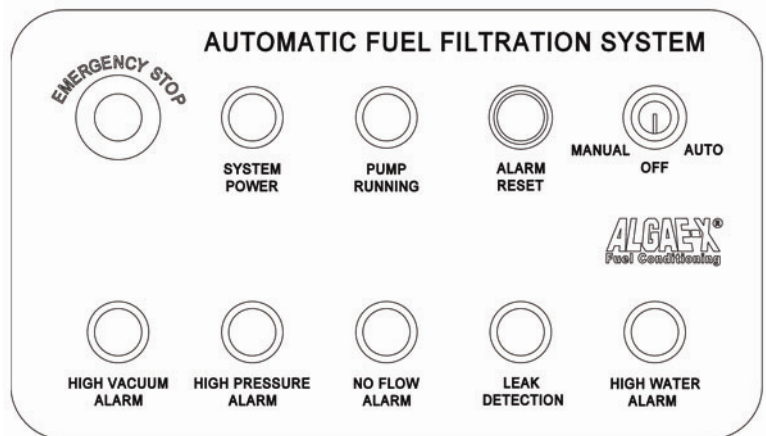
The STS-6000 removes water, sludge and prevents tank sediments in stored fuel.

- Three- or four-stage water removal and particulate filtration down to 3 micron
- Patented Fuel Conditioner reverses fuel deterioration and polymerization to submicron levels
- UL508A listed - Algae-X “Smart Filtration Controller” Fully automated programmable control
- Automatic shut-down for high vacuum, filter pressure, leak and flow interruption detection
- Integrated industrial display and control panel
- Easy installation independent of genset (“kidney loop”)
- Stand alone, safe, reliable, turn key solution

Fuel is inherently unstable. It **naturally forms sediments, solids and tank sludge**. Clogged filters, smoke and damage to injection systems are often symptoms of less than optimal fuel quality causing engines to be unreliable, smoke, lose power and ultimately fail. Water naturally accumulates in storage tanks due to condensation or leaks in fills and vents. Water and temperature changes create an environment for microbial growth and natural oxidation, accelerating formation of sludge, acids and tank corrosion.

<b>Series</b>	<b>STS 6000</b>
<b>Flow rates</b>	<b>4GPM</b>
<b>Tank Size</b>	200 - 5,000 gal
<b>Port Size</b>	3/4" NPT
<b>Power</b>	110V / 60Hz 230V / 50Hz
<b>Weight</b>	~200 lbs
<b>Dim. (HxWxD)</b>	36" x 36" x 12"
<b>LG-X Model</b>	1500
<b>Strainer / Primary Filter</b>	80 Mesh (178 micron) 15 (10 or 30) micron
<b>Second. Filter (Water Block)</b>	3 or 10 micron

\* Not for use with fluids that have a flash point below 100°F (e.g. Gasoline, Alcohol, ...)



Control Panel of STS 6000-4GPM-S (with Separ option)

The **STS 6000 Fuel Filtration Systems** are self contained, stand-alone and fully automated. They recondition and stabilize fuel, eliminate and prevent microbial contamination and remove water, sludge and contaminants from tanks; preserving the integrity of stored fuel, providing reliable power whenever it is needed.

Implementing **STS Fuel Maintenance Systems** assures **Optimal Fuel Quality & Reliable Engine Performance at all times**. It prevents costly downtime, periodic tank cleaning, replacing out of spec fuel and injection system repairs.

**ALGAE-X® Total Fuel Management Systems**

The **principal components** are a continuous duty motor with coupled gear pump, strainer/primary filter with vacuum sensor and gauge, Algae-X Fuel Conditioner, and a secondary filter with pressure gauge and sensor. The system is automatically operated by the programmable, **UL 508A listed Algae-X Smart Filtration Controller**. All components and control devices are contained within a fully enclosed, lockable, weatherproof NEMA 3R cabinet.

The strainer/primary filter protects the pump and removes water and particulate. Please specify “-S” for the optional Separ primary filter with water sensor alarm. The secondary filter is a quick change spin-on filter designed to remove emulsified water and contaminants down to 3 Micron.

For safe operation the **STS 6000** is equipped with a drip tray monitored by a leak detector. Additional safety elements include automatic system shut-down and indicators when filter elements require service, high pump vacuum exists or a flow interruption is detected.

**STS 6000 Accessories:** AFC-705 Fuel Catalyst, Wide range of filter elements, Rotor Sight Glass, Foot Valve, Separ Primary Filter, Two tank control, Digital flow meter



Inside view STS 6000-4GPM-S (shown with optional Separ primary filter)

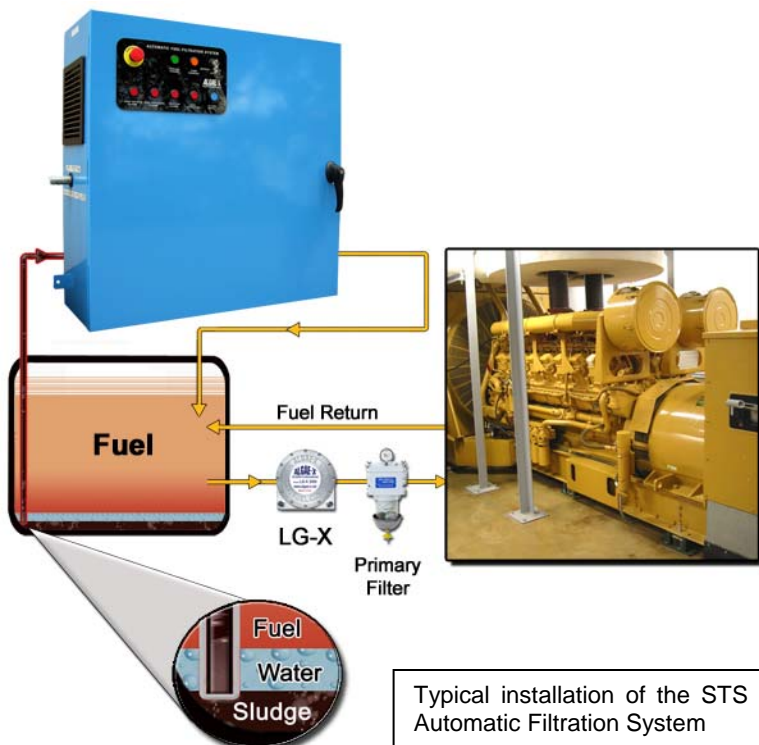
**Customer quotes:**

*“I had no idea how much sludge accumulated in my tank, putting my emergency power at risk.”*  
*“We had to learn the hard way that a clogged filter will shut down the genset – Algae-X provided us with the perfect “Fuel Solution” so this will never happen again.”*

**Fuel Maintenance** is an **important part of periodic generator maintenance programs** – just like changing the oil and ensuring the batteries are charged.

- Do you have a “Fuel Maintenance Program” in place?
- Can you afford a clogged filter shutting down your generator?
- When did you last test your fuel or check the tank for water & sediments?

**Call us to engineer & design your “Fuel Maintenance System”**



**ALGAE-X® - Optimal Fuel Quality & Reliable Engine Performance**