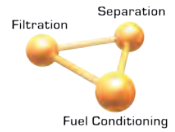




# STS 6000-4 GPM S

## Programmable Automated Fuel Filtration System



**STS 6000-4 GPM S Programmable Automated Fuel Filtration Systems** are self-contained, stand-alone systems that remove and prevent the buildup of water, sludge and contaminants in tanks. They stabilize diesel and bio-fuels, eliminate microbial contamination to optimize and maintain fuel quality. STS systems guarantee **Optimal Fuel Quality** for **Reliable Power at All Times**.



Preventive Maintenance Plans for mission-critical power are essential. However, most service agreements do not cover fuel-related engine failures. Fuel has a limited shelf-life and even "fresh fuel" could contain water, sediment, microbes and bio-fuel components upon delivery.

Periodic generator tests-runs are too short to determine if fuel quality is adequate for the demands of continuous, full-load operation. In fact, generator test runs significantly accelerate the fuel polymerization and degradation process by returning fuel that has been compromised by heat and pressure back to the tank.

Potential liabilities can easily be avoided by implementing an **AXI Fuel Quality Maintenance Program** as part of every disaster recovery plan. An STS 6000-4 GPM S automatically maintains fuel quality and guarantees reliable emergency power whenever it is needed.

The STS 6000 Series feature:

- Multi-stage water removal and particulate filtration
- NEMA 12, 13, 4 Powder Coated or Stainless
- UL508A SMART Filtration Controller
- Unique Alarm Functions and Remote Monitoring
- Integrates with Building Management Systems
- Stainless Steel Plumbing
- **Stand-Alone, Reliable & Turn-Key**

For safe operation, the STS 6000-4 GPM S triggers automatic alarms and shuts down the pump when filters need service; a leak is detected; high separator water level, high filter vacuum, or high pump pressure occurs; or when the fuel flow is out of range.

### STS 6000-4 GPM S SPECIFICATIONS

Flow Rate	4 GPM
Primary Filter/Water Separator/Coalescer	10 or 30 $\mu$ Particulate or 60 $\mu$ SS Screen
Secondary Filter/Water Block	10 $\mu$ Fine Filter 3 $\mu$ Water Block
Fuel Conditioner	LG-X 1500
Smart Filtration Controller	SFC4G
Pump	Internal Gear Pump
Power	110V 60Hz 15A or 230V 50Hz 15A
Plumbing	Stainless Steel
Ports	In 3/4" NPT Out 3/4" NPT
Weatherproof Cabinet	NEMA 12, 13, 4 Powder Coat or Stainless
Dimensions	36" x 36" x 12" (91 x 91 x 30 cm)
Weight	≈200 lbs
Not for use with fluids that have a flash point below 100°F.	



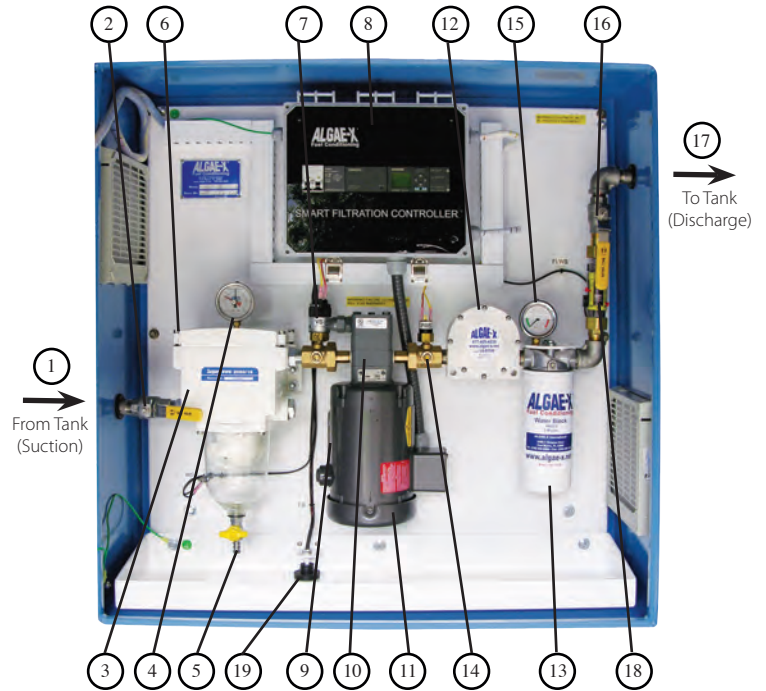
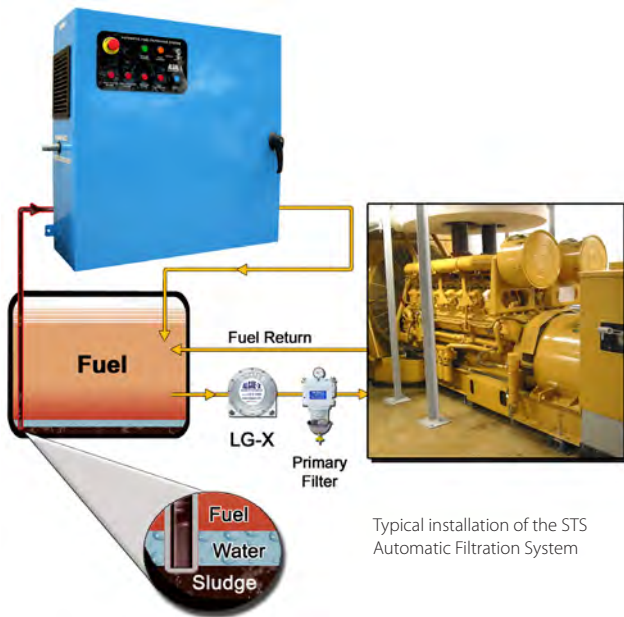
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Wherever fuel is being used or stored

The **principal components** are a continuous-duty motor with coupled gear pump, a strainer/primary coalescing filter with vacuum sensor and gauge, an ALGAE-X Fuel Conditioner and a secondary water block fine filter with pressure gauge and sensor.

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. The secondary filter is a quick-change spin-on filter designed to remove dissolved and emulsified water and contaminants down to 3  $\mu$ .

Implementing STS Fuel Quality Optimization & Maintenance Systems guarantee **Optimal Fuel Quality for Reliable Power At All Times**. STS 6000-4 GPM S System prevents downtime, periodic tank cleaning, replacing out-of-spec fuel and fuel-quality related injection system repairs.



#### Inside the STS 6000-4 GPM S

1. Fuel Inlet (From Tank)
2. Inlet Ball Valve
3. Separ Primary Filter / Water Separator
4. Vacuum Gauge
5. Drain Valve (push and turn open)
6. Man. Air Vent / Bleed Screw
7. Vacuum Switch
8. ALGAE-X® Controller
9. Pressure Relief Valve
10. Gear Pump
11. Motor
12. ALGAE-X® Magnetic Fuel Conditioner
13. Secondary Filter
14. Pressure Switch
15. Pressure Gauge
16. Outlet Ball Valve
17. Fuel Outlet (To Tank)
18. Mechanical Flow Meter with Flow Switch
19. Leak Detector (Float Switch) in Spill Tray

#### STS 6000-4 GPM S Accessories:

- Multiple tank functions
- AFC-705 Fuel Catalyst
- Digital Flow Meter
- Foot Valve
- Wide range of filter elements