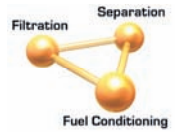


# STS 7010

## Programmable Automated Fuel Filtration System



**STS 7010 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**.



The new **STS 7000 Series** is equipped with a **UL508A Touch-Screen Controller** with **Modbus, TCP/IP, LAN and Internet connectivity** for more intuitive system setup and monitoring from remote locations.

### STS 7000 Series includes:

- Modbus, TCP/IP, LAN and Internet connectivity
- E-mail & SMS Maintenance Alerts
- Maintenance Alert Log File
- Multiple tank Functionality
- Runtime Totalizer
- Alarm History
- On-screen Help

### All STS Systems feature:

- Multi-stage water removal and particulate filtration
- NEMA 12, 13, 4 Powder Coated or Stainless
- UL508A Smart Filtration Controller
- Continuous-Duty Pump, Viton Seals
- Stainless Steel Plumbing
- **Stand-Alone, Reliable & Turn-Key**

For safe operation, the **STS 7000 Series' Touch-Screen Controller** 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.

Implementing STS Fuel Quality Optimization & Maintenance Systems guarantee **Optimal Fuel Quality for Reliable Power At All Times**. STS 7000 Series prevents downtime, periodic tank cleaning, replacing out-of-spec fuel and fuel-quality related injection system repairs.

## STS 7010 SPECIFICATIONS

Flow Rate	10 GPM
Primary Filter/Water Separator/Coalescer	10 or 30 $\mu$ Particulate or 60 $\mu$ SS Screen
Secondary Filter/Water Block	1, 3, 10 or 25 $\mu$ Fine Filter 3 or 10 $\mu$ Water Block
Fuel Conditioner	LG-X 3000
Smart Filtration Controller	HMI PLC Controller with Touch-Screen and remote monitoring, Modbus, TCP/IP LAN and Internet connectivity
Pump	Internal Gear Pump
Power	110V 60Hz 20A or 230V 50Hz 15A
Plumbing	Stainless Steel
Ports	In 1" NPT Out 1" NPT
Weatherproof Cabinet	NEMA 12, 13, 4 Powder Coat or Stainless
Dimensions	37" x 60" x 12" (94 x 152 x 30 cm)
Weight	≈400 lbs
Not for use with fluids that have a flash point below 100°F.	



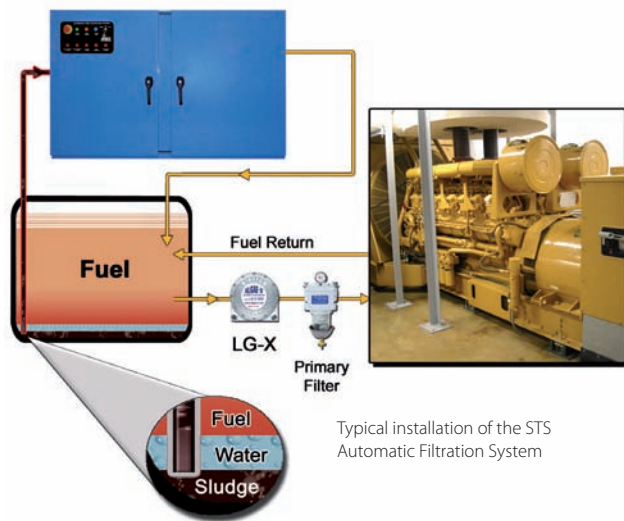
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Wherever fuel is being used or stored

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.

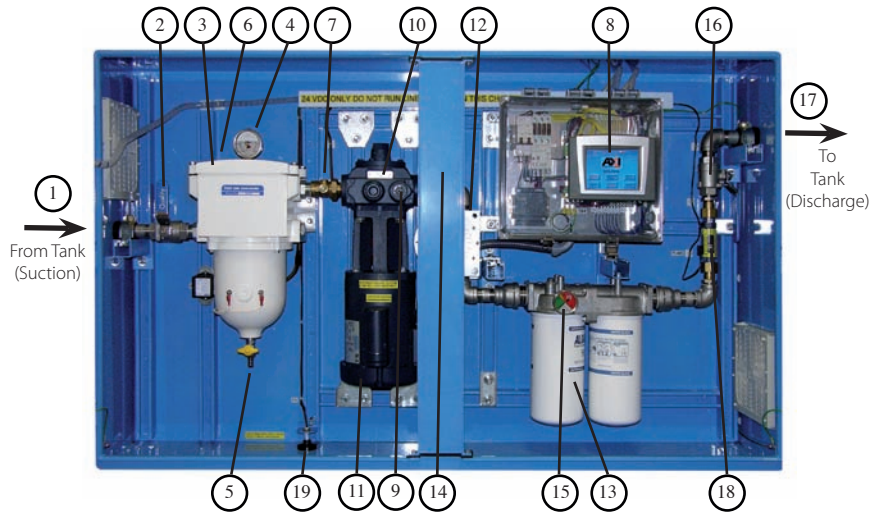
Potential liabilities can easily be avoided by implementing an **AXI Fuel Quality Maintenance Program** as part of every disaster recovery plan. An STS 7000 automatically maintains fuel quality and guarantees reliable emergency power whenever it is needed.



The system is automatically operated by the programmable UL508A **Touch-Screen Controller** with **Modbus, TCP/IP, LAN and Internet connectivity**. All components and control devices are contained within a fully enclosed, lockable, weatherproof, NEMA-rated cabinet.

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 1 µ.



### Inside the STS 7010

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® Touch-Screen Controller
9. Pressure Relief Valve
10. Gear Pump
11. Motor
12. ALGAE-X® Magnetic Fuel Conditioner
13. Secondary Filters (two in parallel)
14. Pressure Switch (behind post)
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 7010 Accessories:

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