



STS 7003

Enclosed Automated Fuel Maintenance Systems

The STS 7003 is a programmable, fully automated, fuel maintenance system that removes water, sludge, and other contaminants from fuel storage tanks. Once installed, the STS 7003 system operates independently to ensure fuel reliability through routine fuel filtration. The system's fuel polishing process stabilizes diesel and bio-fuels, eliminates microbial contamination, and ensures fuel remains clean. The STS system's NEMA 4 rated enclosure allows for both outdoor and indoor installations by protecting the system from windblown dust and rain, hose directed water, and ice formations.



◆ STS 7003 SPECIFICATIONS

Nominal Flow Rate	3 GPM/180 GPH (11.4 LPM/681.4 LPH)
Primary Filter	10 or 30µ Particulate or 60µ Stainless Steel Screen with Centrifugal Water Separator
Secondary Filter	1, 3, 10, 25µ Particulate or 3, 10µ Water Block
Fuel Conditioner	LG-X 1500 Inline Magnetic Conditioner
System Controller	7000 Series Smart Filtration Controller with Safety and Alarm Features
Pump	1/3 HP Gear Pump
Power	120V/60Hz/15A or 230V/50Hz/15A
Plumbing	Black Iron
Ports	3/4" NPT In 3/4" NPT Out
Enclosure Cabinet	NEMA 4 Rated Powder Coated or NEMA 4X Rated Stainless Steel
Dimensions	36" x 36" x 12" (H x W x D) (91 x 91 x 31 cm)
Weight	≈ 290 lbs (131.5 kg)
Not for use with fluids that have a flash point below 100°F (37.8°C).	

*At 50 Hz, nominal flow rate decreases from 3 GPM to 2.4 GPM

Fuel has a limited shelf-life and even newly delivered fuel can contain water, sediment and microbial contaminants. Fuel filters should last thousands of hours. However, frequent filter changes, tank cleaning, and fuel replacement have become common maintenance practices that only address the symptoms of poor fuel quality.

The STS fuel maintenance systems are designed to prevent fuel deterioration through routine filtration in order to consistently provide a reliable supply of fuel.

◆ STS 7003 SYSTEM FEATURES:

- UL508A Smart Filtration Controller
- Fully Automated and Programmable Operation
- Integration with Vessel Monitoring Systems
- Unique Safety & Alarm Features
- Continuous-Duty Pumps, Viton Seals

For safe operation, the STS 7003 is equipped with an automatic pump shut-down and indicators when filter elements require servicing.



1.239.690.9589
1.877.425.4239 Toll Free
www.AXI-International.com

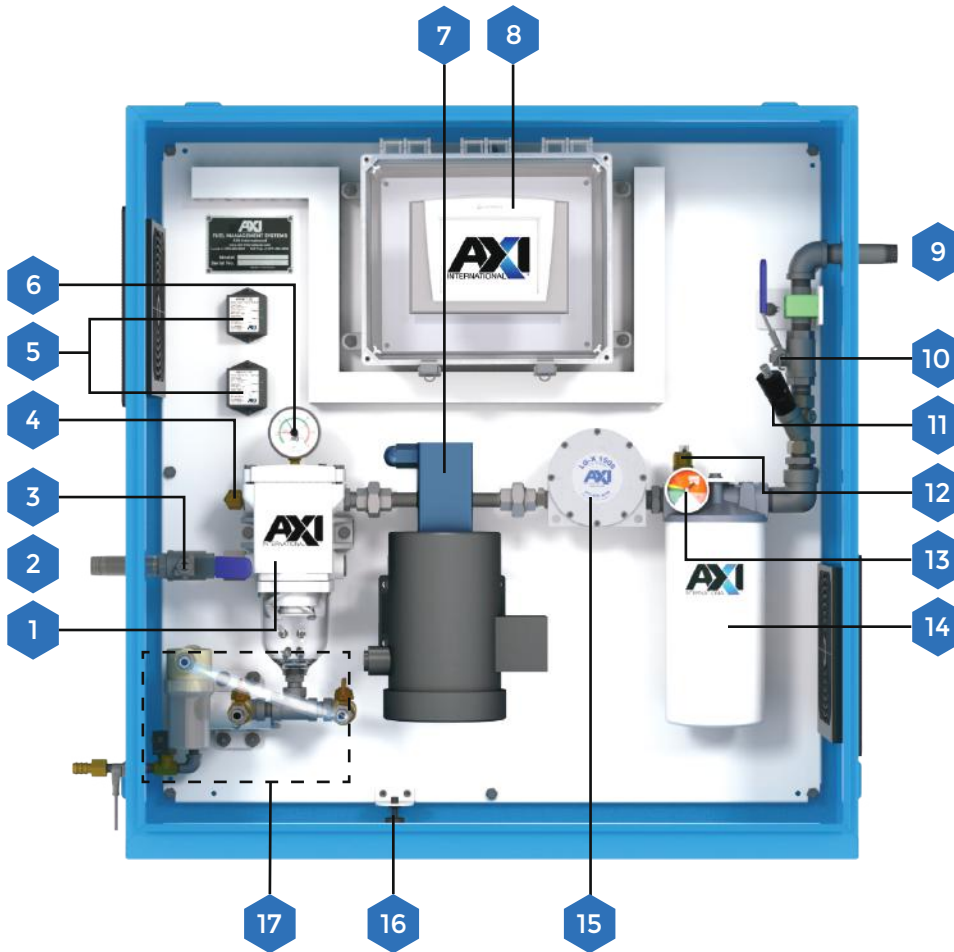
f AXI.International

t AXInternational

AXIFuel

AXIFuel

REV02017003010220



1. Primary Filter/Water Separator
2. Fuel Inlet (From Tank)
3. Inlet Ball Valve
4. Vacuum Switch
5. Water Detection Alarm Module
6. Vacuum Gauge
7. Motor with Coupled Gear Pump
8. Smart Filtration Controller
9. Fuel Outlet (Discharge)
10. Outlet Ball Valve
11. Flow Switch
12. Pressure Switch
13. Pressure Gauge
14. Fine Filter
15. Fuel Conditioner
16. Leak Detector
17. Auto Water Drain Assembly (Option)

STS 7003 OPTIONS:

- Auto Water Drain (AWD)
- Multi-Tank (Up to 2 Tanks)
- Auto Additive Injection
- Manual Additive Injection
- Enclosure Heater

REPLACEMENT FILTER OPTIONS:

Cartridge Filter	Part No.	Spin-On Filter	Part No.
10 μ Filter Element	01010	3 μ Water Block Filter	WB-3
30 μ Filter Element	01030	10 μ Water Block Filter	WB-10
60 μ Filter Element	01060S	3 μ Fine Filter	FF-3
		10 μ Fine Filter	FF-10
		25 μ Fine Filter	FF-25

STS SYSTEM INTEGRATION:

