

# AXI STS 7003

Enclosed Fuel Maintenance System



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.



## STX 7003 SPECIFICATIONS:

Nominal Flow Rate	3 GPM/180 GPH (11.4 LPM/681.4 LPH)
Primary Filter	10 or 30 $\mu$ Particulate or 60 $\mu$ Stainless Steel Screen with Centrifugal Water Separator
Secondary Filter	3, 10 or 25 $\mu$ Fine Filter or 3, 10 $\mu$ Water Block
Fuel Conditioner	LG-X 1500 Inline Magnetic Conditioner
Pump	1/3 HP Spur Gear Pump
System Controller	TSC70 Touchscreen Controller with Safety and Alarm Features
Power	120V/60Hz/1Ph, 208-230V/60Hz/1Ph, or 230V/50Hz/1Ph*
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	$\approx$ 36" x 36" x 12" (H x W x D) (91 x 91 x 31 cm)
Weight	$\approx$ 290 lbs (131.5 kg)
<b>Not for use with fluids that have a flash point below 100°F (37.8°C).</b>	

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

## STX 7003 FEATURES:

- Touchscreen Controller
- Fully Automated and Programmable Operation
- Integration with External Monitoring Systems
- Unique Safety & Alarm Features
- Continuous-Duty Pump, Viton Seals
- System Upgrade Options

For safe operation, the STS 7003 is equipped with an automatic pump shut-down feature and alert indication to notify users of when the system requires servicing.

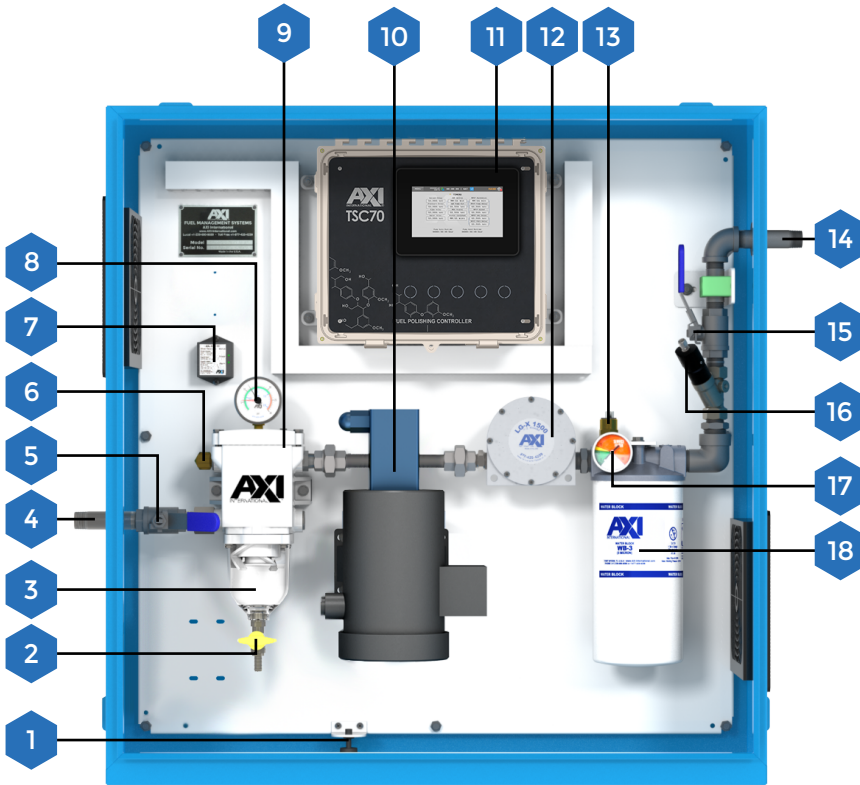
## REPLACEMENT FILTER OPTIONS:

Primary Filter	Part No.	Secondary Filter	Part No.
10 $\mu$ Filter Cartridge	01010	3 $\mu$ Water Block Filter	WB-3
30 $\mu$ Filter Cartridge*	01030	10 $\mu$ Water Block Filter	WB-10
60 $\mu$ Filter Cartridge	01060S	3 $\mu$ Fine Filter*	FF-3
		10 $\mu$ Fine Filter	FF-10
		25 $\mu$ Fine Filter	FF-25
		3 $\mu$ X-Glass Media Fine Filter	FFZ-3

\*Standard-issue filter element unless requested otherwise

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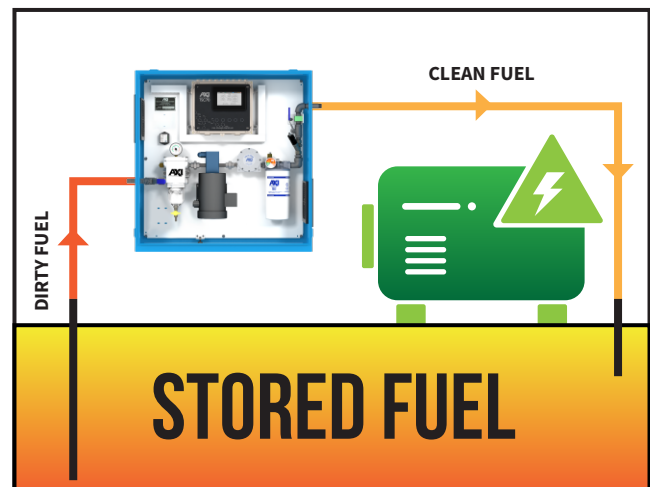


1. Leak Detector
2. Drain Valve
3. Water Collection Sump
4. Fuel Inlet (From Tank)
5. Inlet Ball Valve
6. Vacuum Switch
7. Water Detection Alarm Module
8. Vacuum Gauge
9. Primary Filter/Water Separator
10. Motor with Coupled Gear Pump
11. Smart Filtration Controller
12. Fuel Conditioner
13. Pressure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

## AXI STS 7003 SYSTEM OPTIONS:

<b>NEMA 4X Rated Enclosure</b>	Gain additional protection against corrosion with a stainless steel enclosure
<b>Manual Additive Injection</b>	Manually draw additive into the polisher with a dedicated supply port and ball valve
<b>Enclosure Heater</b>	Prevent the build up of condensation inside the system enclosure due to temperature changes
<b>Auto Water Drain (AWD)</b>	Automatically drain water separator of collected water for decreased frequency of maintenance
<b>Pressure Transmitter</b>	Replace standard pressure switch for detailed monitoring of pressure levels in the system
<b>Flow Transmitter</b>	Replace standard flow switch for detailed monitoring of flow rate in the system
<b>Multi-Tank Polishing/Transfer</b>	Polish and transfer fuel between multiple fuel storage tanks
<b>Fuel Heater</b>	Warm up circulated fuel to resist gelling in freezing temperatures
<b>Multi-Point Flow Path</b>	Add multiple supply and return valves for better tank cleaning coverage

## AXI STS SYSTEM INTEGRATION:



System upgrade may be required for certain combinations of options - See controller specification sheet for more details