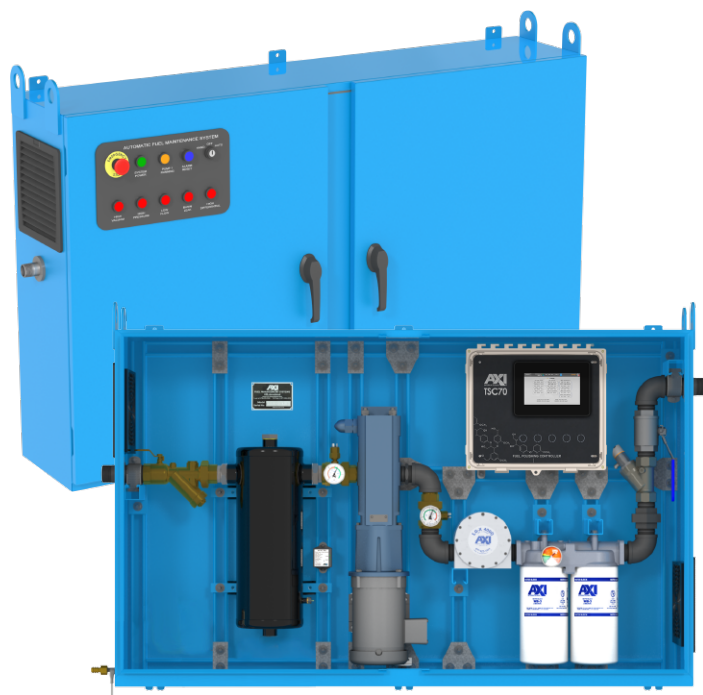


# AXI STS 7020

Enclosed Fuel Maintenance System



The STS 7020 is a programmable, fully automated, fuel maintenance system that removes water, sludge, and other contaminants from fuel storage tanks. Once installed, the STS 7020 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 7020 SPECIFICATIONS:

Nominal Flow Rate	20 GPM/1200 GPH (75.7 LPM/4,542 LPH)
Primary Filter	Mechanical Water Separator
Secondary Filters	3, 10 or 25 $\mu$ Fine Filter or 3, 10 $\mu$ Water Block
Fuel Conditioner	LG-X 4000 Inline Magnetic Conditioner
Pump	1.5 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	1.5" NPT In, 1.5" NPT Out
Enclosure Cabinet	NEMA 4 Rated Powder Coated or NEMA 4X Rated Stainless Steel
Dimensions	$\approx$ 37" x 60" x 12" (H x W x D) (94 x 152 x 31 cm)
Weight	$\approx$ 620 lbs (281 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 20 GPM to 16 GPM

## STS 7020 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 7020 is equipped with an automatic pump shut-down feature and alert indication to notify users of when the system requires servicing.

## REPLACEMENT FILTER OPTIONS:

Secondary Filters	Part No.
3 $\mu$ Water Block Filter	WB-3
10 $\mu$ Water Block Filter	WB-10
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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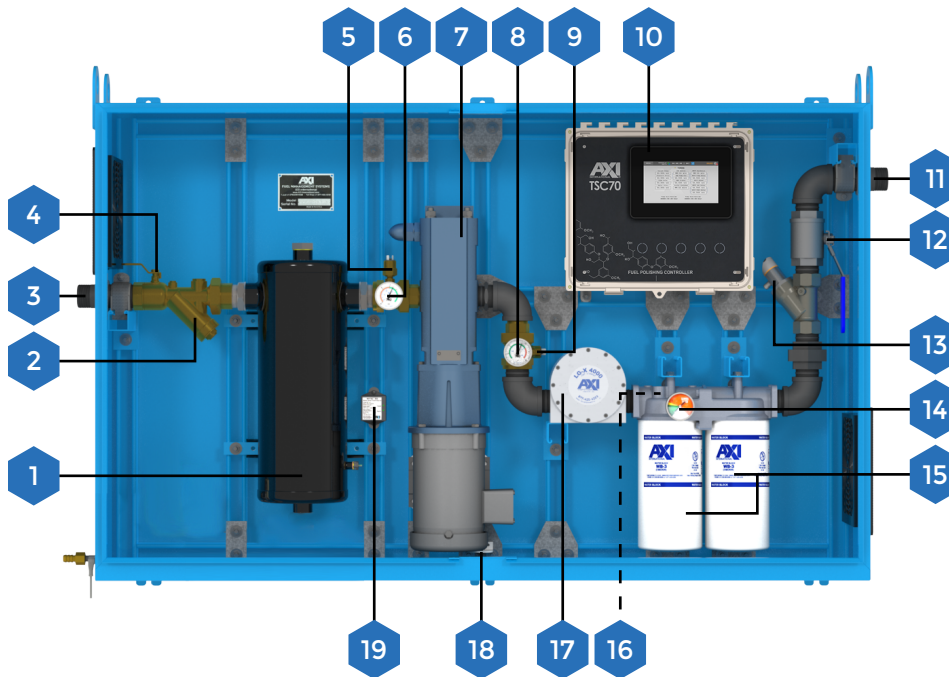
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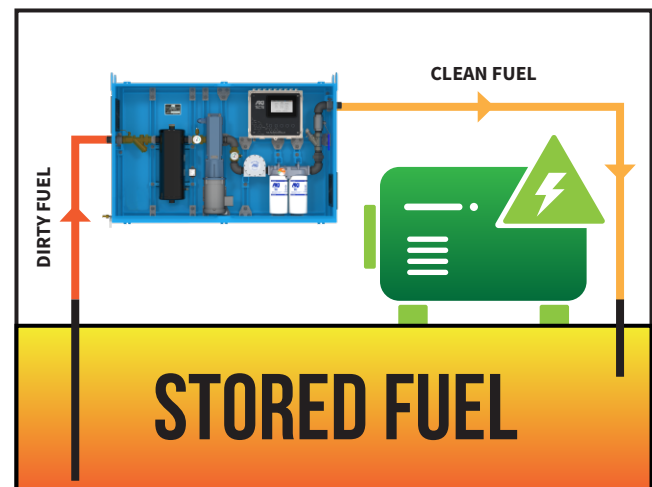


1. Primary Filter/Water Separator
2. Wye Strainer
3. Fuel Inlet (From Tank)
4. Inlet Ball Valve
5. Vacuum Switch
6. Vacuum Gauge
7. Motor with Coupled Gear Pump
8. Pressure Gauge
9. Pressure Switch
10. Smart Filtration Controller
11. Fuel Outlet (Discharge)
12. Outlet Ball Valve
13. Flow Switch
14. Pressure Gauge
15. Fine Filters
16. Pressure Switch (Not Visible)
17. Fuel Conditioner
18. Leak Detector
19. Water Detection Alarm Module

## STS 7010 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

## STS SYSTEM INTEGRATION:



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