

# AXI STS 7040

Enclosed Fuel Maintenance System

The STS 7040 is a programmable, fully automated, fuel maintenance system that removes water, sludge, and other contaminants from fuel storage tanks. Once installed, the STS 7040 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 7040 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 7040 is equipped with an automatic pump shut-down feature and alert indication to notify users of when the system requires servicing.

## STX 7040 SPECIFICATIONS:

Nominal Flow Rate	40 GPM/2400 GPH (151 LPM/9,085 LPH)
Strainer	20 Mesh Wye-Strainer
Primary Filter	Mechanical Water Separator
Secondary Filter	3, 10 or 25 $\mu$ Fine Filter or 3, 10 $\mu$ Water Block
Fuel Conditioner	LG-X 4000 Inline Magnetic Conditioner
Pump	5 HP Spur Gear Pump
System Controller	TSC80 Touchscreen Controller with Safety and Alarm Features
Power	240V/60Hz/3Ph, 480V/60Hz/3Ph
Plumbing	Black Iron
Ports	2" NPT In, 1.5" NPT Out
Enclosure Cabinet	NEMA 4 Rated Powder Coated or NEMA 4X Rated Stainless Steel
Dimensions	$\approx$ 56" x 72" x 17" (H x W x D) (142 x 183 x 43 cm)
Weight	$\approx$ 1,005 lbs (455.9 kg)
<b>Not for use with fluids that have a flash point below 100°F (37.8°C).</b>	

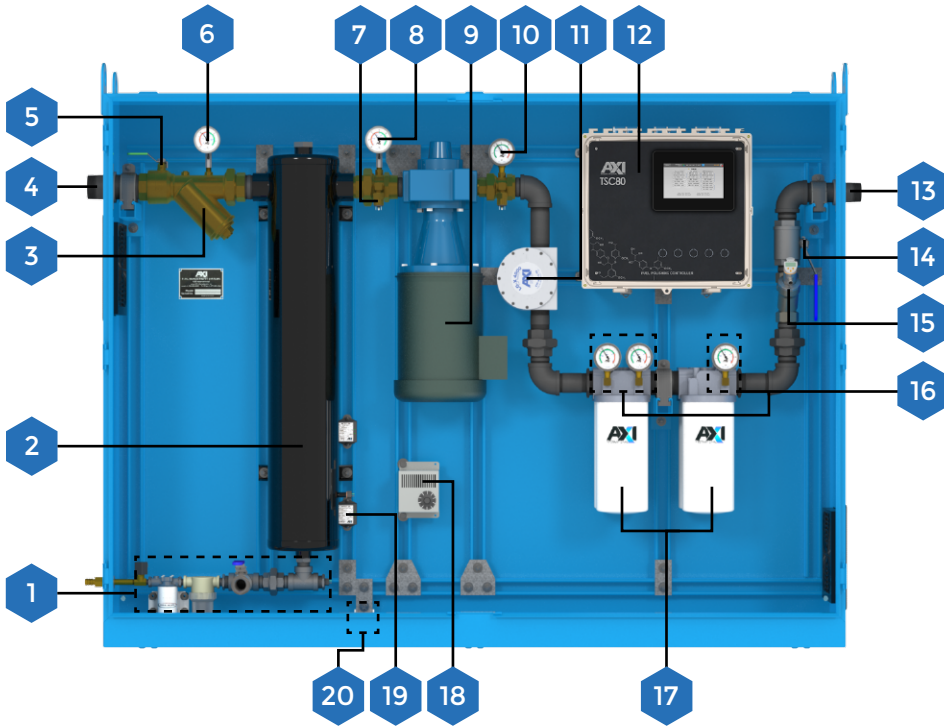
## REPLACEMENT FILTER OPTIONS:

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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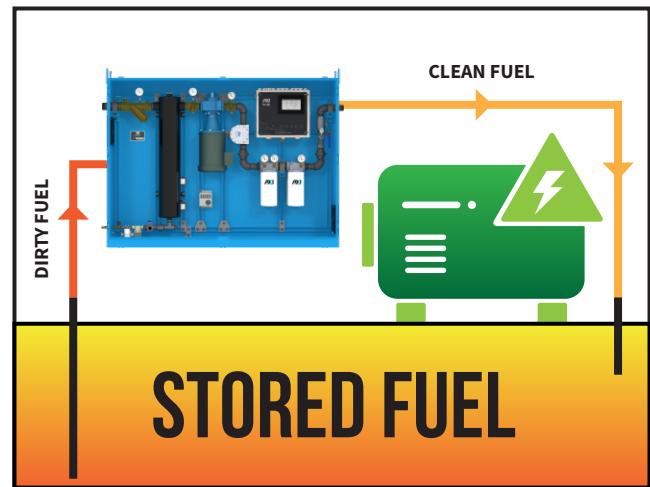


1. Auto Water Drain Assembly (Option)
2. Mechanical Water Separator
3. Wye Strainer
4. Fuel Inlet (From Tank)
5. Inlet Ball Valve
6. Vacuum Gauge
7. Vacuum Switch
8. Vacuum Gauge
9. Motor with Coupled Gear Pump
10. Pressure Gauge
11. Fuel Conditioner
12. Smart Filtration Controller
13. Fuel Outlet (Discharge)
14. Outlet Ball Valve
15. Flow Meter
16. Pressure Gauges & Transducers
17. Fine Filters
18. Enclosure Heater (Option)
19. Water Detection Alarm Module
20. Leak Detector

## ◆ STS 7040 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



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