

AXI STS 6003

INTERNATIONAL Enclosed Fuel Maintenance System

The STS 6003 is a programmable, fully automated, fuel maintenance system that removes water, sludge, and other contaminants from fuel storage tanks. Once installed, the STS 6003 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 6003 FEATURES:

- Smart Filtration 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 6003 is equipped with an automatic pump shut-down feature and alert indication to notify users of when the system requires servicing.

STS 6003 SPECIFICATIONS:

Nominal Flow	3 GPM/180 GPH (11.4 LPM/681.4 LPH)
Rate Primary Filter	10 or 30µ Particulate or 60µ Stainless Steel Screen with Centrifugal Water Separator
Secondary Filter	3, 10 or 25µ Fine Filter or 3, 10µ Water Block
Fuel Conditioner	LG-X 1500 Inline Magnetic Conditioner
Pump	1/3 HP Spur Gear Pump
System Controller	SFC70 Smart Filtration Controller with Safety and Alarm Features
Power	120V/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	≈ 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

REPLACEMENT FILTER OPTIONS:

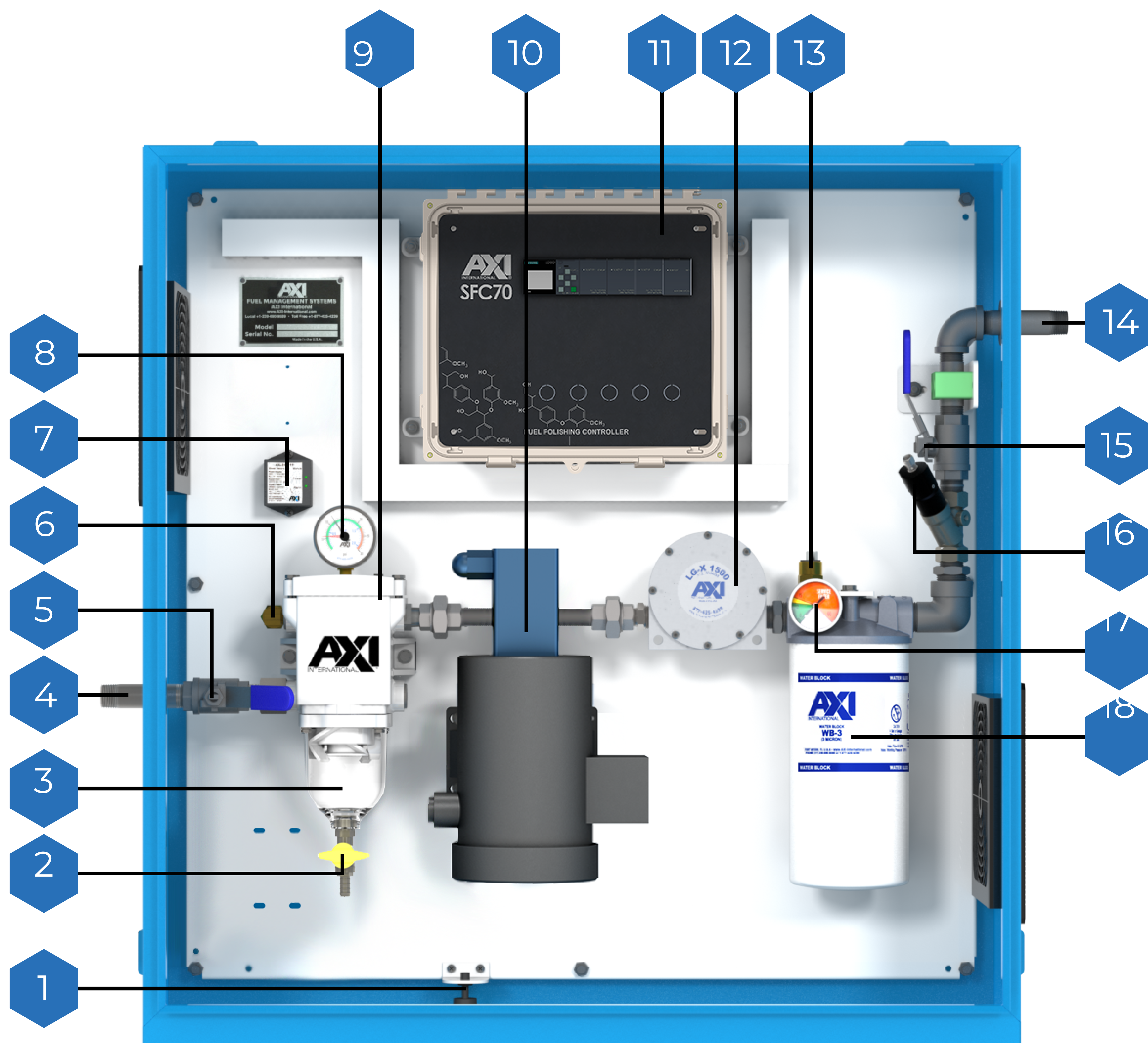
Primary Filter	Part No.	Secondary Filter	Part No.
10µ Filter Cartridge	01010	3µ Water Block Filter	WB-3
30µ Filter Cartridge*	01030	10µ Water Block Filter	WB-10
60µ Filter Cartridge	01060	S3µ Fine Filter*	FF-3
10µ Fine Filter			FF-10
25µ Fine Filter			FF-25
3µ X-Glass Media Fine Filter			FFZ-3

*Standard-issue filter element unless requested otherwise



STS 6003

Enclosed Fuel Maintenance System



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

STS SYSTEM OPTIONS:

NEMA 4X Rated Gain additional protection against corrosion with Enclosure a stainless steel enclosure

Manual Additive Injection Manually draw additive into the polisher with a dedicated supply port and ball valve

Enclosure Heater Prevent the build up of condensation inside the system enclosure due to temperature changes

Auto Water Drain (AWD) Automatically drain water separator of collected water for decreased frequency of maintenance

Pressure Transmitter Replace standard pressure switch for detailed monitoring of pressure levels in the system

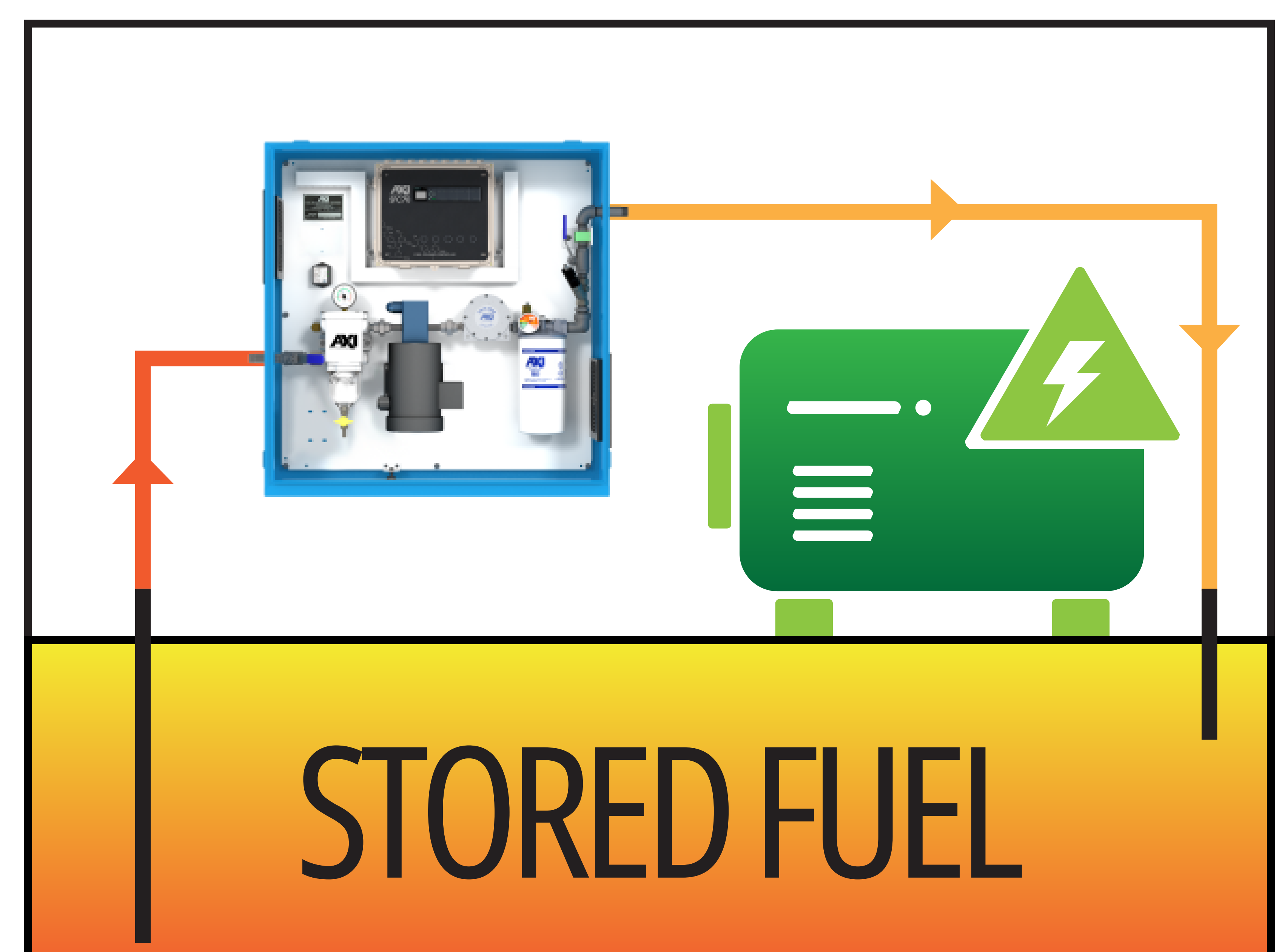
Flow Transmitter Replace standard flow switch for detailed monitoring of flow rate in the system

Multi-Tank Polishing/Transfer Polish and transfer fuel between multiple fuel storage tanks

Fuel Heater Warm up circulated fuel to resist gelling in freezing temperatures

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

STS SYSTEM INTEGRATION:



1.239.690.9589
1.877.425.4239 Toll Free
www.AXI-International.com

f AXI.International

t AXInternational

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