



FPS MX-F

Compact Fuel Maintenance System with Extended Backplate

The FPS MX-F is a programmable, fully automated, fuel maintenance system that removes water, sludge, and other contaminants from fuel storage tanks. Once installed, the FPS MX-F system operates independently to ensure fuel reliability through routine fuel filtration. The system's fuel polishing process stabilizes diesel and bio-fuels, eliminating microbial contamination and ensuring the fuel remains clean. These compact fuel maintenance systems are specifically designed for permanent installations indoors, as well as confined spaces, such as inside gen-set enclosures or engine rooms.



FPS MX-F with upgraded TSC70 Touchscreen Controller

FPS MX-F SYSTEM 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
- Fuel Consumption Monitoring System (Optional)

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

FPS MX-F SPECIFICATIONS:

Nominal Flow Rate	4 GPM/240 GPH (15 LPM/984.2 LPH)
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	Smart Filtration Controller with Safety and Alarm Features
Power	120V/60Hz/1Ph, 208-230V/60Hz/1Ph, or 230V/50Hz/1Ph*
Plumbing	Black Iron, Stainless Steel, Brass
Ports	3/4" Equivalent JIC 37° Flare In 3/4" Equivalent JIC 37° Flare Out
Construction	Powder Coated Aluminum Back Plate
Dimensions	≈ 45" x 30" x 9" (H x W x D) (114 x 76 x 23 cm)
Not for use with fluids that have a flash point below 100°F (37.8°C).	

*At 50 Hz, nominal flow rate decreases from 4 GPM to 3.2 GPM

REPLACEMENT FILTER OPTIONS:

Primary Filter	Part No.	Secondary Filter	Part No.
10μ Filter Cartridge	01810	3μ Water Block Filter	WB-3
30μ Filter Cartridge*	01830	10μ Water Block Filter	WB-10
60μ Filter Cartridge	01860S	3μ 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



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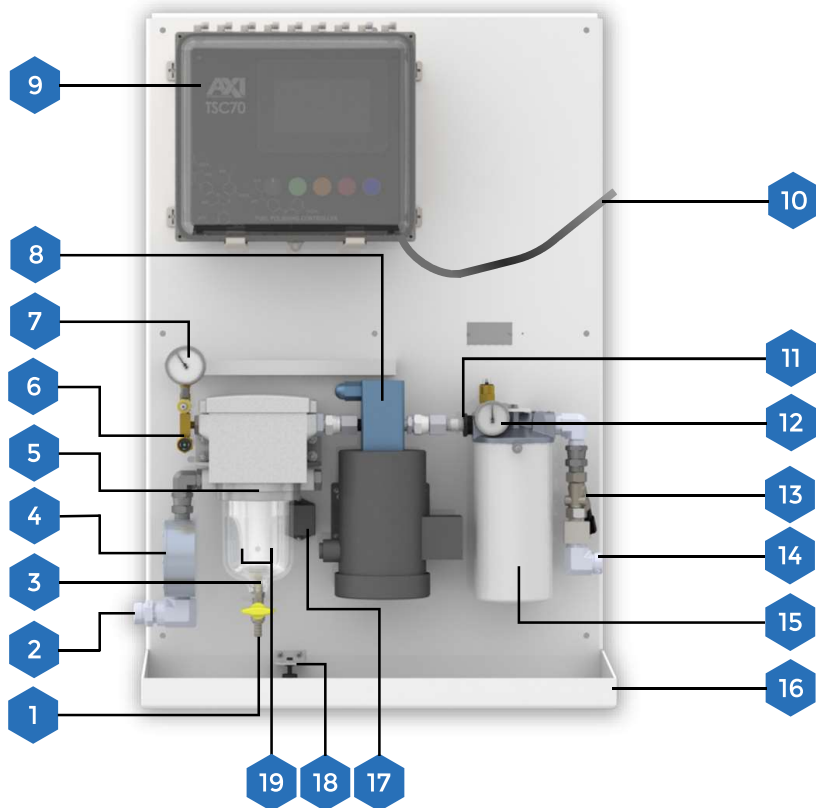
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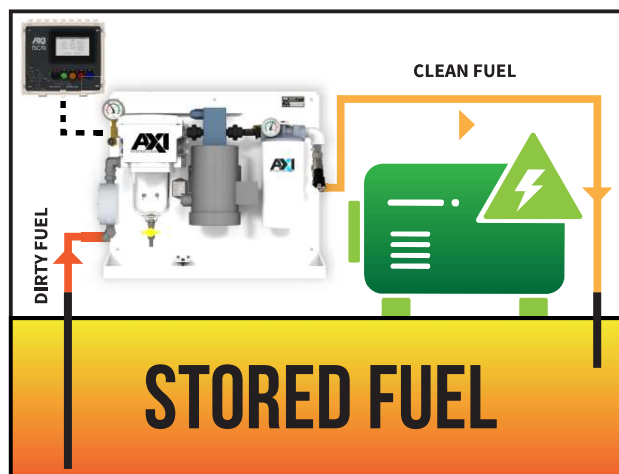
1. Drain Valve
2. Fuel Inlet (From Tank)
3. Water Collection Sump
4. Fuel Conditioner
5. Primary Filter/Water Separator
6. Vacuum Switch
7. Vacuum Gauge
8. Motor with Coupled Gear Pump
9. TSC-70 Controller
10. Communication Cable to NFCS
11. Pressure Switch
12. Pressure Gauge
13. Flow Switch
14. Fuel Outlet (To Tank)
15. Fine Filter
16. Drip Tray
17. Water Detection Alarm Module
18. Leak Detector
19. Water Collection Sump

FPS SYSTEM OPTIONS:

Manual Additive Injection	Manually draw additive into the polisher with a dedicated supply port and ball valve
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
Multi-Point Flow Path	Add multiple supply and return valves for better tank cleaning coverage
Fuel Heater	Warm up circulated fuel to resist gelling in freezing temperatures

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

FPS SYSTEM INTEGRATION:



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