



# FDS-18

Diesel Fuel Filtration and Dispensing Skid

The AXI Diesel Fuel Filtration and Dispensing Skid is the perfect fuel delivery solution for dispensing fuel from a fuel storage tank to company-owned equipment. When the quality of purchased diesel fuel is an issue, the AXI Fuel Filtration and Dispensing Skid provides fuel conditioning, particulate filtration, and water removal immediately prior to dispensing the fuel into the equipment's fuel tanks.



## FDS-18 SPECIFICATIONS:

Dispensing Rate	Up to 18 GPM (72 LPM)
Power Required	Either 110V 60HZ or 230V 50HZ
Skid Size	45" x 28" x 9" - with 3" spill containment (114 x 71 x 23 cm) 7.62 cm spill containment
Input Connection	1.25" NPT-F to Input Shut-off Ball Valve
Fuel Discharge	20' (6.1 m) Flexible 1" Fuel Hose with Nozzle
Fuel Conditioner	LG-X 3000
Fuel Filter Vessels	2 FV-120 Filter VEssels
Weight	420lbs (190.5 kg)
<b>Not for use with fluids that have a flash point below 100°F (37.8°C).</b>	

## FDS-18 FEATURES:

- 2 FV-120 carbon steel filter vessels in series with
- Pressure gauges to indicate filter element condition
- Fill-Rite 15 – 18 GPM (56.8 - 68.1 LPM) Dispensing Pump
  - UL listed or cUL listed pump/motor (depends on HZ)
  - Meter accuracy is +/- 1% (not for resale use)
  - Pump available in either 110V 60HZ or 230V 50HZ
  - Meter available in either gallons or liters
  - Meter has non-resettable grand total
- AXI® LG-X 3000 Fuel Conditioner
- 20' (6.1 m) dispensing hose
- Automatic fuel shut-off nozzle
- Mounted on small power-coated steel skid (45" x 28" x 9" - with 3" spill containment) (114.3 x 71.1 x 22.9 cm)
- Connects to client's fuel storage tank/system
- Fuel inlet shut-off ball valve.

## CONSUMABLES FOR THE FV-120:

CF-618-5	Particulate- 5 micron
CFWB-618-5	Water Block- 5 micron
FE-30066	Particulate - 2 micron
FE-30008	Particulate - 10 micron
FE-30009	Particulate - 30 micron
FE-30034	Water Block and Particulate - 10 micron
FE-30037	Water Block and Particulate - 30 micron
FE-30204	Particulate Absolute 3 micron (high performance)
FE-30203	Particulate Absolute 7 micron (high performance)
FE-30202	Particulate Absolute 10 micron (high performance)



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### ◆ FUEL CONDITIONING:

An LG-X® 3000 Fuel Conditioner is located inline before the filter vessels. The LG-X® reduces the size and density of clustered fuel particles, which improves fuel filtration, improves fuel stability, and provides for increased and improved combustion of the fuel. As an additional benefit, fuel filter life is substantially increased because the dispersed fuel clusters pass through the filter rather than lodging in the filter media and plugging the fuel filter. With smaller sized fuel particles, combustion efficiency is increased due to better injector spray atomization and the fact that smaller particles combust more readily and more completely.

### ◆ FILTRATION AND WATER SEPARATION:

Two High-capacity Filter Vessels are placed in series in order to provide two-stage filtration that can be optimized to remove particulate and water contamination in the fuel supply. Particulate filter elements are available in micron ratings of 2, 3, 5, 7, 10, and 30 microns. Water Block filter elements are available in 5, 10, and 30 micron ratings. A typical configuration would remove particulate contamination utilizing a 10 micron Particulate filter in the first filter vessel, and then would remove Water Contamination by utilizing a 5 micron Water Block Filter in the second filter vessel.

### ◆ DISPENSING PUMP WITH FUEL TOTALIZER:

The Fuel Dispensing pump utilizes a mechanical meter to indicate the quantity of fuel that has been dispensed. The Dispensing flow rate is approximately 18 GPM and varies according to the condition of filter elements and the frequency of the power that is supplied to the pump motor. An Automatic Fuel Nozzle stops the flow of fuel when the tank is full. A reset knob is provided to reset the Fuel Totalizer to zero. The Fuel Dispenser also has a non-resettable sub-meter that shows the total fuel quantity of fuel that has been dispensed.

### ◆ SKID:

The Skid is made of powder-coated steel and the top surface is a 3" deep spill-containment tray with a removable drain plug. The Skid has fork lift openings and optional 8" pneumatic wheels are available if mobility is needed.