



# AN-1 Automated Filtration System

## WILKES SOLUTIONS INC. IS THE LEADER IN QUALITY CONTROL MANAGEMENT OF FUEL STORAGE FOR DIESEL

We are pleased to introduce the **AN-1 Automated Filtration System** to the fuel storage industry.

The Wilkes Solution system consists of these primary features that enables our customers to enjoy hands-free monitoring and maintenance of their fuel storage, either at remote locations or across the parking lot.

- Installation includes a complete cleaning of your fuel tank and a thorough polishing of the stored fuels.
- A sample of the fuel is taken to ensure an excellent baseline for future results.
- Continual filtration of microbes and water.
- Introduction of nitrogen to displace water and oxygen.
- Notifications sent when filters are 85% near capacity and need to be replaced.
- Fuel level monitoring available upon request.
- Additional nitrogen ports available for filling tires or replacing air in fire sprinkler systems.

### *AN-1 (AFS) with Wilkes Nitrogen Generator*

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# AN-1 Automated Filtration System

## Features

**Initial cleaning of tank and polishing of existing fuel**

**Remote, monitored and self-polishing fuel tank and filtration**

**Simple and non-invasive installation**

**Introduction of Nitrogen**

## Benefits

- This ensures the tank owner of an excellent base point of non-contaminated fuel
- Allows the tank operator/owner to have assurance the fuel is ALWAYS ready to use and will not harm expensive machinery and engines
- Being monitored and controlled remotely means the customer does not worry about how much additive to inject to bring the fuel up to industry standards
- Customer is alerted to low levels of fuel in order for timely refills, which results in less potential downtime from "out of fuel" situations
- Easy wiring into 110V systems means less costly electrical configurations and designs
- Can be wired into existing emergency battery power for unit to operate under "no power" situations giving the client assurance the fuel is continuing the polishing procedure
- Tanks are not drilled into nor are additional ports needed which insure the tank's warranties are not voided or the structure compromised
- Displaces the tank's oxygen with nitrogen which starves the microbes of its needed growth agent – giving an indefinite life span for stored fuels
- Nitrogen is monitored and filled as needed which means little or no physical monitoring from the tanks/fuel owner
- Nitrogen ports can be added to provide tire refills for company vehicles or other apparatuses requiring this gas that decrease the need for off-site fill services and travel

## AN-1 Specifications

**Flow Rate:**  
22 GPM

**Primary Water Filter:**  
Donaldson DBB0248

**Secondary Particulate Filter:**  
Donaldson DBB5333

**Fuel Conditioner:**  
Additive which removes accumulated water, microbial growth and maintains the purity of the diesel fuel. Stops gelling formation inside of tank.

**Nitrogen Generator:**  
Tank Defender. Buffer Pressure 20 PSI. Output Pressure 1-10 PSI (variable).

**Holding Tank Capacity:**  
80 PSI (two tanks)

**Controller:**  
Click PLC system complete with 3 relays at each box

**Pump:**  
Roughneck 22 GPM diesel transfer pump

**Power:**  
110V at each box

**Cabinet:**  
High Pressure Plastic

**Dimensions:**  
26.5" high x 8" deep x 30" wide

**Weight:**  
45-65 LBS

**Tank Sizes:**  
1000-5000 Gallons



Wilkes Nitrogen Generator

Phone: 678-354-1191 | Fax: 678-669-2280

sales@wilkesolutions.com | tom@wilkesolutions.com | chan@wilkesolutions.com  
[www.wilkesolutions.com](http://www.wilkesolutions.com)