



AVIATION FILTER HOUSING AND ELEMENT

Item code: VF31E + ACO21001L

These filter housings are versatile housings designed for use with several different high performance Aquacon® and other filter cartridges. Refer to the cartridge selection table below for application and other details.

Aquacon® cartridges filter out water by chemically locking it into layers of super-absorbent media. Water capacity is as much as 1.5 quarts, depending on the specific vessel and cartridge. These cartridges also effectively filter out dirt, rust and other particulates.

As an Aquacon® cartridge reaches its water-holding limit, the media expands very rapidly and restricts the flow. The pressure drop will rapidly increase, signaling the need to change cartridges.

FEATURES:

- Designed for use with Jet A1 and Avgas Aviation Fuels.
- Free and emulsified water to less than 5 ppm.
- 1/2 micron particulate removal.
- Provides protection against “slugs” of water.
- Pressure increase signals cartridge change.
- 1” NPT Threaded Female.
- Up to 60lpm flow rate.

PRODUCT RANGE:

Code	Description	Application
VF31E	Filter Housing Only	Fuels: Kerosene, Diesel, Biodiesel, Gasoline
ACO21001L	Element Only	Oils: Insulating, Hydraulic, Lubricating PLUS: Compressed Air and Other Gasses



CAUTION

Do not use Aquacon® absorbent cartridges (AC, ACO or AD Series) with pre-mixed jet fuel containing anti-icing additives, or with gasoline/alcohol blends.

FILTER CARTRIDGE SELECTION TABLE:

Product being filtered	Application	Cartridge P/N	Data Sheet	Type	Micron	Flow Rate (GPM)
Jet Fuel & Avgas ⁽¹⁾	Dirt & Free water	ACO-21001L	1681	Aquacon® (Absorbent)	0.5	1-15
Motor Gasoline		AC-21005	1582		5	
Gasohol	Dirt	FOG-21005	N/A	Paper filter	5	
Diesel/Biodiesel ⁽¹⁾	Dirt & Free water	AD-21025	1655	Aquacon® (Absorbent)	25	Varies with oil viscosity ⁽²⁾
Oils		AC-21005	1582		5	
		AD-21025	1655		25	
Air/Gas		Dirt	ACA-210		1689	1
		FOS-210PLP5	N/A	Synthetic Filter	0.5	



AC-21005 Filter Cartridge

AC-21005 Filter Cartridge

- (1) For Aviation and Diesel Fuel Systems, if system pressure can exceed 25 psi, always install pressure gauge or other means of determining differential pressure.
 (2) See Data Sheet #1709 for absorbent cartridge (AC, AD) flow rates.

FILTER HOUSING VF-31E – SPECIFICATIONS:

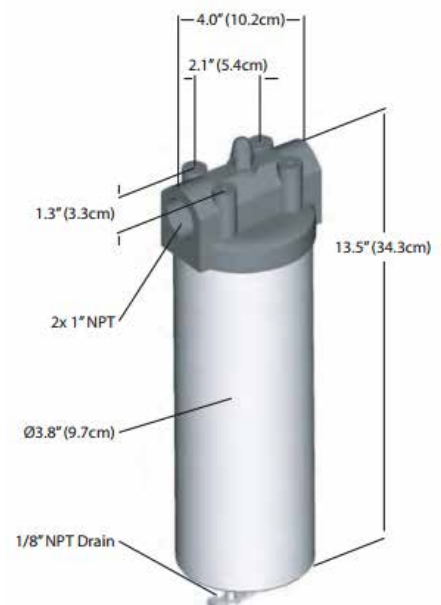
- Recommended maximum flow rate: see table below.
- Maximum operating pressure: 150 psi.
- Material: cast aluminum head, carbon steel bowl with.
- Epoxy painted interior and exterior.
- Inlet/Outlet Connection: 1" NPT.
- Inlet/Outlet face-to-face: 4".
- Mounting holes in head: four 1/4-20 NC.
- Seal: Buna-N gasket.
- Height: 13.50" without Petcock, 14.50" with Petcock.
- Weight: 3 lbs., 15 oz.
- Shipping Weight: 4 lbs., 15 oz.
- Hardware included: 1 ea. Buna-N Lid Gasket, Mounting Brackets, 1 ea. Plug (for fuel and oil applications), and 1 ea. 1/8" Petcock Drain (for air, gas and aviation fuel applications).

RECOMMENDED SPARES

- 1 ea. Model G-0995 Buna-N Lid Gasket.
- 4 ea. filter cartridges (Specify from table.)

ORDERING INFORMATION

- Model VF-31E Filter Housing (Supplied without cartridge)
- Supplied with 1 ea. Model G-0995 Buna-N Lid Gasket, Mounting Brackets, 1 ea. Plug, and 1 ea. 1/8" Drain Petcock.



Dimensions are for estimating purposes only.