



Filter Housing VF-31E

Clean Dry • Fuels • Oils • Gasses with High Performance *Aquacon*® Filter Cartridges

FEATURING

- Free and emulsified water to less than 5 ppm
- 1/2 micrometer particulate removal
- Provides protection against “slugs” of water
- Pressure increase signals cartridge change
- Use with existing filter housings

DESCRIPTION

The VF-31E is a versatile filter housing designed for use with several different high performance *Aquacon* filter cartridges. Cartridges are offered for the optimum filtration of aviation fuel (see caution on reverse side), gasoline, diesel fuel, oils, compressed air, and other gasses. Refer to the Cartridge Selection Table on the reverse side of this sheet for details.

Aquacon filters eliminate water contamination problems by removing water from fuels, oils, and gasses. Filtered water is chemically locked into the cartridge’s inner super-absorbent media.

As a cartridge reaches its water holding limit, the media expands very rapidly and restricts the flow of unfiltered material. This causes an increase in the differential pressure which signals the operator to replace the cartridge. When filtering fuels or compressed air, a saturated *Aquacon* cartridge will completely block the flow until it is replaced.

Aquacon Cartridges are also excellent dirt filters. Silt, rust, and other particulates are removed by the cartridge’s outer filter media. 5 and 25 micron rated cartridges are available for use with fuels and oils. The ACA-210 cartridge, for use with compressed air and other gasses, has a 1 micron rating.



VF-31E
Filter
Housing

AC-21005
Filter
Cartridge

ACA-210
Filter
Cartridge

APPLICATIONS

- | | |
|----------|-------------|
| Fuels: | Oils: |
| Kerosene | Insulating |
| Diesel | Hydraulic |
| Gasoline | Lubricating |

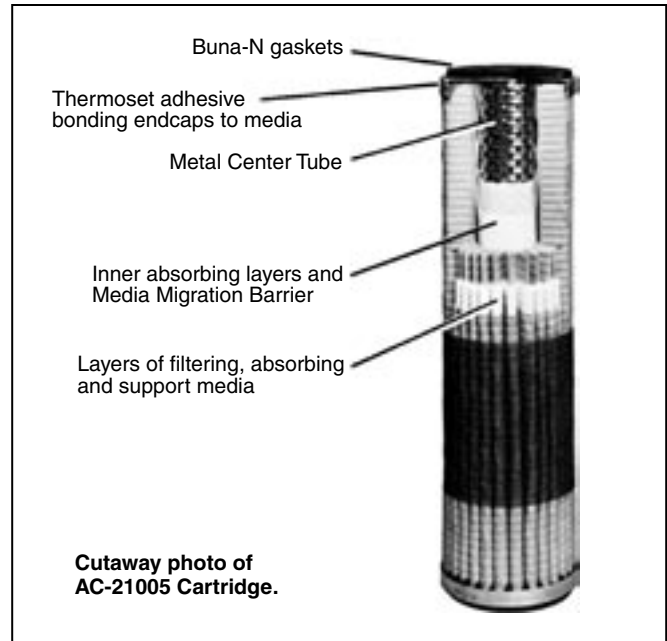
Compressed Air and Other Gasses

WARNING: Absorbent-type monitor cartridges will not remove water from fuel containing alcohol-blending agents (commonly called gasohol). For removal of solids, please use Velcon particle removal filters specifically made for gasohol. Consult your Velcon representative.

SPECIFICATIONS

Filter Housing VF-31E

- 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).



Aquacon FILTER CARTRIDGE SELECTION TABLE

Application	Cartridge	Flow Rate	Micron Rating
Jet Fuel Avgas*	ACO-21001L	1 - 15 GPM	1/2
Motor Gasoline	AC-21005	1 - 15 GPM	5
Diesel Fuel*	AD-21025	1 - 15 GPM	25
Oils	AC-21005 or AD-21025	Varies with Oil Viscosity	5 or 25
Compressed Air & Other Gasses	ACA-210	100 SCFM at 100 psig	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.

Cartridge Pressure Ratings

Collapse strength of the ACO-21001L, AC-21005 and AD-21025 is 60 psid.

Collapse strength of the ACA-210 is 150 psid.

*****CAUTION*****

DO NOT USE WITH PRE-MIXED FUELS CONTAINING ANTI-ICING ADDITIVES.

ORDERING INFORMATION (Specify)

• 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

RECOMMENDED SPARES

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



Velcon products are sold and serviced by a world-wide representative network. To order, contact Headquarters or your **LOCAL REPRESENTATIVE:**

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