



ACO *Aquacon*[®] Aviation Fuel Filter Cartridges

Remove Water and Dirt from Jet Fuel and Avgas Outside-to-In Flow Cartridges

- 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
- Not affected by surface active agents
- Use with existing filter housings

DESCRIPTION

Patented* *Aquacon* Filter Cartridges have a unique high-capacity inner filter media which removes all free and emulsified water from hydrocarbon fuels down to less than 5 ppm in the effluent. Absorbed water is chemically locked into this media and cannot be squeezed out.

When a cartridge reaches its water holding capacity, its accordion pleats swell and cause an increase in the differential pressure which signals the operator to change the cartridge.

Solid contaminants are removed by the cartridge’s two particulate filter media layers. The pleated accordion style design provides a large surface area for maximum dirt holding capacity. Models are offered for particulate filtration down to 1/2 micrometer size with 98% plus efficiency. Performance is not affected by the presence of surface active agents.

Compact *Aquacon* Cartridges are quick and easy to install. Models are available to fit most existing standard housings. Refer to Cartridge Selection Table on reverse side.

*****CAUTION*****

In fuels containing anti-icing additive (Di-EGME, FSII, Prist[®]), stagnant water bottoms can absorb large amounts of the anti-icing additive. This water/FSII solution can disarm water absorbing elements allowing water to pass downstream. Daily draining of the monitor vessel and of water bottoms upstream of the elements is **IMPERATIVE**. Also, changeout @ **15 psid**.

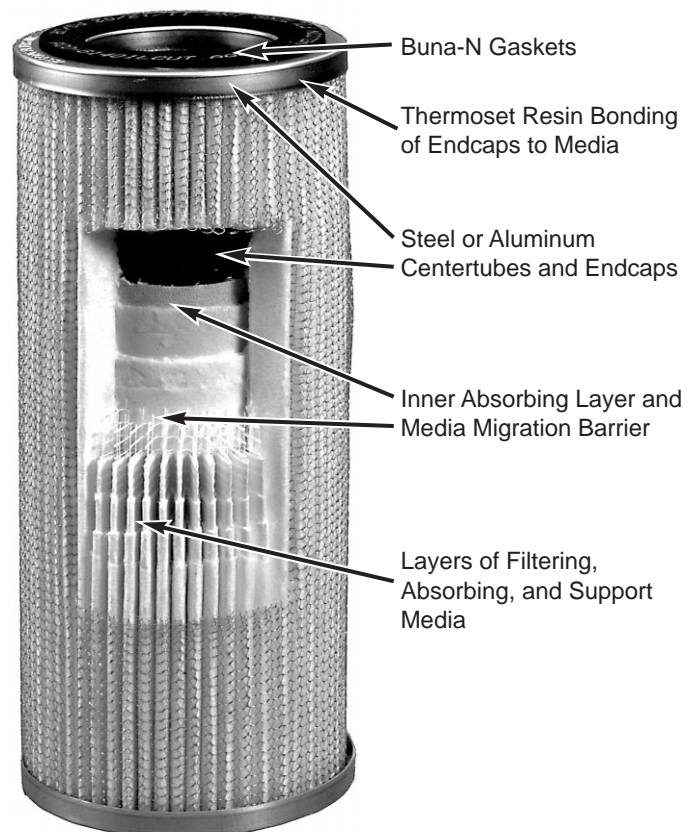
Use forms 1846 and 1896 for cartridge changeout at flowrates less than rated flow.

* U.S. Patent No. 4,242,206.



ACO-60901L

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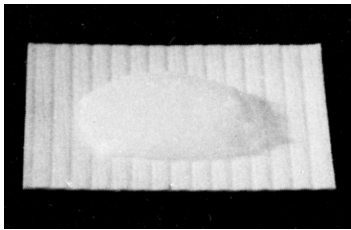


Typical *Aquacon* Cartridge Construction

**Aquacon absorbs water from aviation fuel and chemically locks it in – you can't squeeze it out!
Prove it with a squeeze test. Media samples available upon request.**



1. Pour a small pool of water, about the size of a quarter, onto a smooth surface.



2. Place one of the media samples directly on top of the water. Note how the media swells as it absorbs and "locks in" the water.



3. Next, place the media sample between thumb and forefinger and squeeze – as hard as you wish. No free water is liberated.

CARTRIDGE SELECTION TABLE

Model Number	Micron Ratings	Inside Diameter (Inches)	Outside Diameter (Inches)	Length (Inches)	Collapse Pressure (psi)	Maximum Flow Rate (USGPM)	Interchange Information
ACO-21001L	0.5	1 ¹ / ₃₂	2 ⁵ / ₈	9 ³ / ₄	60	15	Fits VF-31E Housing
ACO-31001L	0.5	1 ⁵ / ₁₆	3	9 ³ / ₄	75	20	Fits Purolator Vessel PR-172-3
ACO-40501SPL	0.5	1-12NF	3 ³ / ₄	5 ¹ / ₂	60	10	Use with head SPH-2
ACO-40801L	0.5	1 ³ / ₄	4	8	100	13	Rellumit Replacement
ACO-40901SPL	0.5	1 ³ / ₈ - 12NF	3 ³ / ₄	8 ¹ / ₂	60	15	Use with head SPH-3
ACO-41201L	0.5	1 ³ / ₄	4	12 ¹ / ₄	100	20	Replaces Facet C-707; Purolator Vessel PAG-50
ACO-41601L	0.5	1 ³ / ₄	4	15 ¹³ / ₁₆	100	27	Rellumit Replacement
ACO-41801L	0.5	1 ³ / ₄	4	18	100	30	Replaces Facet C-706 and Keene BP-419, BP-518
ACO-41901L	0.5	1 ³ / ₄	4	19 ⁷ / ₈	175	32	Rellumit Replacement
ACO-51201L	0.5	1 ⁷ / ₈	5 ⁵ / ₈	12 ¹ / ₄	75	50	Fits VF-61EP1/2 Housing
ACO-512P3L	0.3	1 ⁷ / ₈	5 ⁵ / ₈	12 ¹ / ₄	75	50	Fits VF-61EP1/2 Housing
ACO-60801L	0.5	3 ¹ / ₂	6	8 ¹ / ₄	100	30	Omeco 6" x 8" Replacement
ACO-60901L	0.5	1 ¹ / ₂	6	9 ¹¹ / ₁₆	100	36	Fits Fram/Facet VFCS-21 (Element CC-21-7); VF-609
ACO-609P3L	0.3	1 ¹ / ₂	6	9 ⁹ / ₁₆	100	36	Fits Fram/Facet VFCS-21 (Element CC-21-7); VF-609
ACO-61201L	0.5	1 ¹ / ₂	6	13 ³ / ₄	100	48	Fits Fram/Facet VFCS-22 (Element CC-22-7)
ACO-61401L	0.5	3 ¹ / ₂	6	14 ¹ / ₂	175	58	Qualified to API/IP-1583
ACO-62201LTB	0.5	3 ¹ / ₂	6	22	175	88	Qualified to API/IP-1583
ACO-62901L	0.5	3 ¹ / ₂	6	28 ³ / ₄	175	115	Qualified to API/IP-1583
ACO-63301L	0.5	3 ¹ / ₂	6	33 ³ / ₄	175	133	Qualified to API/IP-1583
ACO-64401L	0.5	3 ¹ / ₂	6	43 ³ / ₄	175	173	Qualified to API/IP-1583
ACO-64401LTB	0.5	3 ¹ / ₂	6	44	175	176	Qualified to API/IP-1583
ACO-71801L	0.5	2 ¹ / ₂	6 ¹ / ₄	18	75	65	Fits VF-71E Housing

TECHNICAL INFORMATION

1. Maximum operating temperature is 160°F
2. Micron ratings are nominal at 98%+ efficiency
3. **Aquacon** Cartridges can significantly reduce flow when loaded with water or dirt. Appropriate precautions should be taken in applications where fuel flow must be maintained or where surge conditions can occur.

4. If system pressure can exceed 25 psi, a pressure gauge or other means of reading the differential pressure should be installed. Replace the cartridge if the differential pressure exceeds 15 psid*, or if there is a reduction in flow rate, whichever occurs first. After one year of service, check with your company fuel expert regarding changeout policy.

25 psid is acceptable in fuel without anti-icing additive for the API/IP-1583 qualified cartridges.

NOTE: 1/2 micron rated **Aquacon** Cartridges are recommended for use with jet fuel and avgas. Effluent quality meets requirements for API/IP-1583.

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