



# ACO Aquacon® Aviation Fuel Filter Cartridges

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

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

### DESCRIPTION

Patented **Aquacon®** Filter Cartridges have a unique high-capacity inner filter medium 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 medium.

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 particle filtration down to 1/2 micrometer size with 98% plus efficiency. Performance is not affected by the presence of common 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.

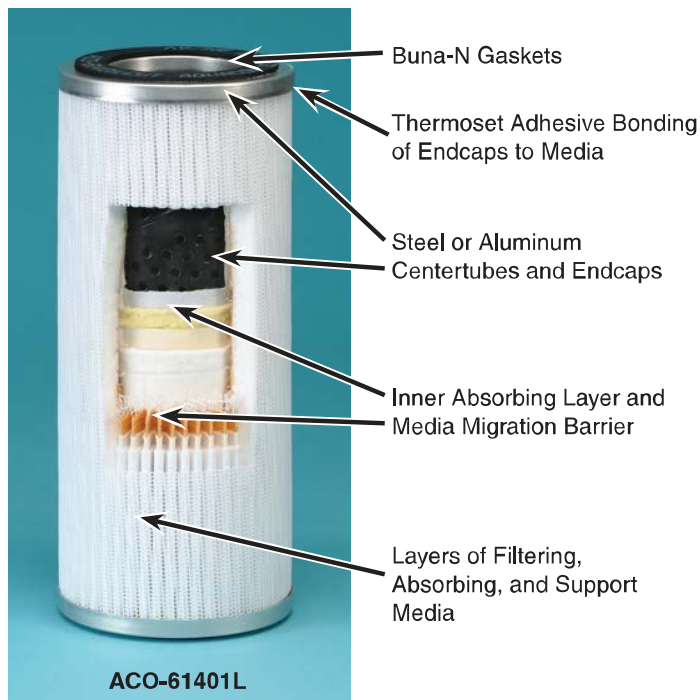
Use Form 1846 for cartridge changeout recommendations at flowrates less than rated flow.



ACO-60901L



ACO-51201L



ACO-61401L

Typical Aquacon Cartridge Construction

## 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	Reallumit 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	Reallumit 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	Reallumit Replacement
ACO-51201L	0.5	1 7/8	5 5/8	12 1/4	75	50	Fits VF-61 Housing
ACO-512P3L	0.3	1 7/8	5 5/8	12 1/4	75	50	Fits VF-61 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 EI 1583
ACO-62201LTB	0.5	3 1/2	6	22	175	88	Qualified to EI 1583
ACO-62901L	0.5	3 1/2	6	28 3/4	175	115	Qualified to EI 1583
ACO-63301L	0.5	3 1/2	6	33 1/4	175	133	Qualified to EI 1583
ACO-64401L	0.5	3 1/2	6	43 1/4	175	173	Qualified to EI 1583
ACO-64401LTB	0.5	3 1/2	6	44	175	176	Qualified to EI 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. Replace the cartridge if the differential pressure exceeds 25 psid. For service life information, please refer to Operating Procedure # 1839 or consult your company fuel handling procedures.
5. Typical water holding capacity for ACO-61401L is 700 ml

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

**CAUTION:** DO NOT USE WITH PRE-MIXED FUELS CONTAINING ANTI-ICING ADDITIVES



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