

Model FC47 Series

47mm Filter Cassettes

47mm Filter Cassettes for Use in PM_{2.5} Air Particulate Sampling Instruments

Alaric Model FC47 series filter cassettes are manufactured in the USA, and have become an industry standard worldwide. The cassettes are CNC machined from solid white Delrin acetal polymer to precise tolerances for a consistent leakproof fit. The assembly includes a precision stainless steel filter backing screen disc. The filter cassette holds and supports a standard 46.2 mm diameter filter disk during the air sample collection process. The consumable filter discs are not included. Quantity discounts and custom labeling options are available.

Traceability Options: Our filter cassettes come with laser-etched serial numbers on the bottom of the screen disc. Custom or deleted laser markings are also available. Our filter cassettes are now available made from black Delrin, allowing color-coding of samples. The black cassettes can also be laser marked on the plastic surface, allowing parts to be maintained as a matched set, and providing custom labeling options.

Transport Cans: Our optional 10044 transport cans (sold separately) protect the filter from damage or contamination during transportation. The twist-top steel cans contain an internal Delrin spacer that prevents the cassette from moving inside the can, and do not contain any foam materials to eliminate the potential for sample contamination. The lids feature etched fields for *Cassette ID* and *Filter ID* serial number labels or markings. The new 10444 black enamel version allows the option of color coding, such as using different color cans for PM_{2.5} and PM₁₀ sample filters. Classic 10097 stainless steel push-on type cassette caps are also available separately.

Model FC47NC Standard EPA-spec 47mm filter cassettes are manufactured to strict US EPA 40 CFR Part 50 specifications, and are compatible with air particulate samplers from most manufacturers.

Model FC47PNC Chamfered filter cassettes are machined from solid Delrin like our standard EPA-spec cassettes, except with a large chamfer angle on the top inside edge for compatibility with the filter holding mechanism in Thermo Scientific 2000i/2025i/Partisol® series samplers*. These are intended as an aftermarket replacement for the crack-prone blue injection molded plastic filter cassettes, and also work with most samplers that use the standard cassettes.

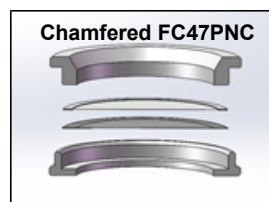
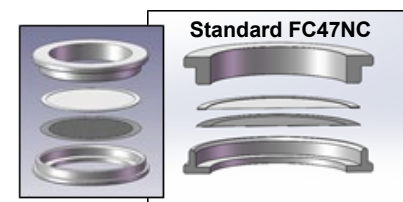
Versions & Part Numbers:

FC47NC:	EPA Spec 47mm Filter Cassette, without transport can.
FC47PNC:	Chamfered 47mm Filter Cassette (Thermo Partisol/2000i/2025i® Type).
FC47NCB:	Black EPA Spec 47mm Filter Cassette. Laser Markable Delrin.
FC47PNCB:	Black Chamfered 47mm Filter Cassette. Laser Markable Delrin. (Thermo Partisol/2000i/2025i® Type).
FC47 & FC47P:	Old part numbers including transport cans. Transport cans are now sold as separate line items.

Applications:

- PM_{2.5} or PM₁₀ sampling in 16.7 L/min single-event or sequential reference method samplers.
- Laboratory or industrial particulate matter studies.
- Indoor or outdoor airborne particulate, dust, or smoke sample collection.

*Trademarks referenced for compatibility purposes are the property of their respective owners, and are not affiliated with Alaric Electromechanics Inc.



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