



Better Air is Our Business®

AmericanAirFilter® VariCel® RF/C VariCel® RF/CPlus

**Extended-Surface Rigid Air Filter for
the Removal of Gaseous Pollutants,
Odors and Particulates**

- VariCel RF/C — 60% activity granular activated carbon Carbonweb® Media
- VariCel RF/CPlus — 50/50 blend of 60% activated carbon and potassium permanganate (KMnO₄), CarbonWeb® Media
- Particulate and gaseous contaminants removal in a UL Class 2 rated filter
- MERV 8 (all models)
- Single-header and no-header models

Applications

- Airports
- Hospitals
- Industrial plant offices and laboratories
- Microelectronic component assembly
- Office, retail and commercial buildings

Excellent Performance

IAQ issues are unpredictable. They can appear suddenly and may be a one-time occurrence or an on-going nuisance. No matter what the cause, when the air smells bad, it is unpleasant, distracting and potentially unhealthy — and people associate unpleasant odors with dirty air. In many instances, making extensive changes to the air handling system to eliminate the problem is not easy, timely or cost effective.

The solution may be VariCel RF/C and VariCel RF/CPlus filters. These extended-surface, rigid-cell filters provide high efficiency removal of multiple contaminants for a variety of applications. VariCel RF/C filters use CarbonWeb® filter media containing 60% activity granular activated carbon to remove odors and gaseous pollution. The VariCel RF/CPlus is made with CarbonWeb® filter media containing equal volumes of 60% activated carbon and activated alumina impregnated with 5% potassium permanganate (KMnO₄) to remove odors and light gases. Either loading will provide a fresher, more odor free environment.



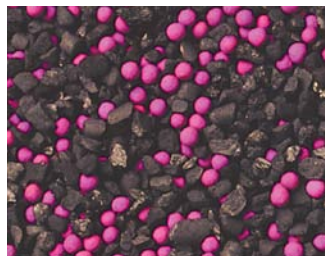
Sturdy Construction and Dependability

The VariCel RF/C and RF/CPlus, with galvanized steel cell sides and plastic pleat spacers on the air-entering and air-leaving sides, withstand the most demanding applications. The pleat spacers maintain the shape of the synthetic media pack and ensure that both the effectiveness and service life are maximized.

Rigid construction, with supported pleat media pack, helps maintain a compact unitized structure under variable air velocities and repeated fan shutdowns. The interlocked header and cell sides, along the entire length of each side, provide maximum sealing.

Additional Features

VariCel RF/C and RF/CPlus replace existing HVAC filters of the same type with no changes required for frames or latches. They are packed in polyethylene to preserve capacity and cleanliness.



VariCel RF/C and RF/CPlus filters use CarbonWeb® filter media.

Product Information

Product Number	Nominal Size (in.)	Actual Size (in.)	Media Area (ft. sq.)	Per Filter Pounds GAC-Wt.	*Initial Resistance (in. w.g.)		Final Resistance (in. w.g.)	MERV Rating
					300 FPM	500 FPM		
VariCel RF/C (No Header)								
185-100-319	12 x 24 x 12	11 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	29.0	3.8	.17	.43	1.5	8
185-100-700	20 x 20 x 12	19 ³ / ₈ x 19 ³ / ₈ x 11 ¹ / ₂	39.9	5.3	.17	.43	1.5	8
185-100-782	20 x 24 x 12	19 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	48.3	6.4	.17	.43	1.5	8
185-100-863	24 x 24 x 12	23 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	58.7	7.8	.17	.43	1.5	8
VariCel RF/C Type SH (Single Header)								
185-101-319	12 x 24 x 12	11 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	26.0	3.4	.17	.43	1.5	8
185-101-700	20 x 20 x 12	19 ³ / ₈ x 19 ³ / ₈ x 11 ¹ / ₂	35.4	4.7	.17	.43	1.5	8
185-101-782	20 x 24 x 12	19 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	43.4	5.7	.17	.43	1.5	8
185-101-863	24 x 24 x 12	23 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	52.6	7.0	.17	.43	1.5	8
VariCel RF/CPlus (No Header)								
185-110-319	12 x 24 x 12	11 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	29.0	4.8	.17	.43	1.5	8
185-110-700	20 x 20 x 12	19 ³ / ₈ x 19 ³ / ₈ x 11 ¹ / ₂	39.9	6.6	.17	.43	1.5	8
185-110-782	20 x 24 x 12	19 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	48.3	8.0	.17	.43	1.5	8
185-110-863	24 x 24 x 12	23 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	58.7	9.7	.17	.43	1.5	8
VariCel RF/CPlus Type SH (Single Header)								
185-111-319	12 x 24 x 12	11 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	26.0	4.3	.17	.43	1.5	8
185-111-700	20 x 20 x 12	19 ³ / ₈ x 19 ³ / ₈ x 11 ¹ / ₂	35.4	5.9	.17	.43	1.5	8
185-111-782	20 x 24 x 12	19 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	43.4	7.2	.17	.43	1.5	8
185-111-863	24 x 24 x 12	23 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	52.0	8.6	.17	.43	1.5	8

Notes:

All performance data is based on ASHRAE 52.2 test method.

Performance tolerances conform to section 7.4 of ARI Standard 850-78.

Rated UL and C-UL Class 2.

Width and height dimensions are interchangeable.

Headers are 1³/₁₆" (21mm).

Efficiency:

All models MERV 8.

*Maximum recommended final resistance in system design may indicate a lower change-out point.