AAF INTERNATIONAL *Better Air is Our Business®*

# AmericanAirFilter®
# VariCel® RF

## *Extended-Surface Rigid Air Filter with Synthetic Media*

- ***Designed for improved performance and durability***
- ***Layered synthetic media with plastic pleat spacers on both sides***
- ***Heavy-duty expanded metal media support grid***
- ***Ideal for VAV systems***

### *Excellent Performance*

With superior strength and durability, the VariCel RF filter is ideal for Variable Air Volume (VAV) systems. It provides a high level of filtration efficiency in those applications where cleaner air is required. With metal cell sides and a layered synthetic media pack, the VariCel RF filter offers superior dust holding, moisture resistance, and overall performance. Color-coded media designates each efficiency: MERV 15 Yellow, MERV 14 Pink, MERV 12 Green, and MERV 11 White. Both single and double-header models are available.

### *Sturdy Construction and Dependability*

The VariCel RF filter, with its galvanized steel cell sides and plastic pleat spacers on the air-entering and air-leaving sides, withstands the most demanding applications. The pleat spacers and expanded metal support grid maintain the shape of the synthetic media pack and ensure that both the efficiency and dust-holding capacity are maximized.

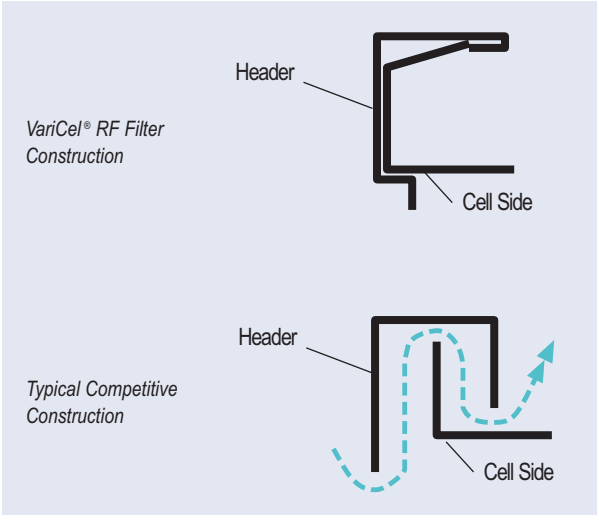
The rigid construction with supported pleat media pack maintains a compact unitized structure under variable air velocities and repeated fan shutdowns. The interlocked header and cell sides, along the entire length of each side, provide maximum sealing. Competitive filters are designed with loose fitting headers that allow greater potential for bypass leakage.

### *Layered Synthetic Media Pack*

The layered media used in the VariCel RF filter is a meltblown synthetic protected by a scrim on the air-leaving side. Layering the media provides both a high-efficiency final filter layer that effectively filters fine particulate and an integral lofted prefilter layer that captures larger particulate. Meltblown synthetic media is stronger than fiberglass, non-shedding, and is water-resistant.

### *Open Header Design*

AAF's unique open-header design creates a built-in handle that makes carrying and installing the VariCel RF filter easy. As an added safety measure, we roll the edges of the header to eliminate sharp edges that can make handling competitors' products hazardous.



AmericanAirFilter®

# VariCel® RF

## *Selection Guide and Performance Data*

**Class 2 Synthetic**

| Part Number | Filter Description | Efficiency | Nominal Size (in.) | Actual Size (in.) | Airflow (CFM) | Resistance (in. w.g.) Initial | Resistance (in. w.g.) Final | Media Area (ft. sq.) |
|---|---|---|---|---|---|---|---|---|
| 3011087-001 | VariCel RF DH | MERV 15 (90-95%) | 24x24x12 | 23.38x23.38x11.50 | 2000 | .56 | 1.5 | 62 |
| 3011087-004 | VariCel RF DH | MERV 15 (90-95%) | 24x12x12 | 23.38x11.38x11.50 | 1000 | .56 | 1.5 | 31 |
| 3011087-002 | VariCel RF DH | MERV 15 (90-95%) | 24x20x12 | 23.38x19.38x11.50 | 1660 | .56 | 1.5 | 52 |
| 3011087-003 | VariCel RF DH | MERV 15 (90-95%) | 20x20x12 | 19.38x19.38x11.50 | 1400 | .56 | 1.5 | 41 |
| 3011079-001 | VariCel RF SH | MERV 15 (90-95%) | 24x24x12 | 23.38x23.38x11.50 | 2000 | .56 | 1.5 | 62 |
| 3011079-004 | VariCel RF SH | MERV 15 (90-95%) | 24x12x12 | 23.38x11.38x11.50 | 1000 | .56 | 1.5 | 31 |
| 3011079-002 | VariCel RF SH | MERV 15 (90-95%) | 24x20x12 | 23.38x19.38x11.50 | 1660 | .56 | 1.5 | 52 |
| 3011079-003 | VariCel RF SH | MERV 15 (90-95%) | 20x20x12 | 19.38x19.38x11.50 | 1400 | .56 | 1.5 | 41 |
| 3011087-005 | VariCel RF DH | MERV 14 (80-85%) | 24x24x12 | 23.38x23.38x11.50 | 2000 | .36 | 1.5 | 62 |
| 3011087-008 | VariCel RF DH | MERV 14 (80-85%) | 24x12x12 | 23.38x11.38x11.50 | 1000 | .36 | 1.5 | 31 |
| 3011087-006 | VariCel RF DH | MERV 14 (80-85%) | 24x20x12 | 23.38x19.38x11.50 | 1660 | .36 | 1.5 | 52 |
| 3011087-007 | VariCel RF DH | MERV 14 (80-85%) | 20x20x12 | 19.38x19.38x11.50 | 1400 | .36 | 1.5 | 41 |
| 3011079-005 | VariCel RF SH | MERV 14 (80-85%) | 24x24x12 | 23.38x23.38x11.50 | 2000 | .36 | 1.5 | 62 |
| 3011079-008 | VariCel RF SH | MERV 14 (80-85%) | 24x12x12 | 23.38x11.38x11.50 | 1000 | .36 | 1.5 | 31 |
| 3011079-006 | VariCel RF SH | MERV 14 (80-85%) | 24x20x12 | 23.38x19.38x11.50 | 1660 | .36 | 1.5 | 52 |
| 3011079-007 | VariCel RF SH | MERV 14 (80-85%) | 20x20x12 | 19.38x19.38x11.50 | 1400 | .36 | 1.5 | 41 |
| 3011087-009 | VariCel RF DH | MERV 12 (60-65%) | 24x24x12 | 23.38x23.38x11.50 | 2000 | .25 | 1.5 | 62 |
| 3011087-012 | VariCel RF DH | MERV 12 (60-65%) | 24x12x12 | 23.38x11.38x11.50 | 1000 | .25 | 1.5 | 31 |
| 3011087-010 | VariCel RF DH | MERV 12 (60-65%) | 24x20x12 | 23.38x19.38x11.50 | 1660 | .25 | 1.5 | 52 |
| 3011087-011 | VariCel RF DH | MERV 12 (60-65%) | 20x20x12 | 19.38x19.38x11.50 | 1400 | .25 | 1.5 | 41 |
| 3011079-009 | VariCel RF SH | MERV 12 (60-65%) | 24x24x12 | 23.38x23.38x11.50 | 2000 | .25 | 1.5 | 62 |
| 3011079-012 | VariCel RF SH | MERV 12 (60-65%) | 24x12x12 | 23.38x11.38x11.50 | 1000 | .25 | 1.5 | 31 |
| 3011079-010 | VariCel RF SH | MERV 12 (60-65%) | 24x20x12 | 23.38x19.38x11.50 | 1660 | .25 | 1.5 | 52 |
| 3011079-011 | VariCel RF SH | MERV 12 (60-65%) | 20x20x12 | 19.38x19.38x11.50 | 1400 | .25 | 1.5 | 41 |
| 3011087-013 | VariCel RF DH | MERV 11 (45-50%) | 24x24x12 | 23.38x23.38x11.50 | 2000 | .23 | 1.5 | 62 |
| 3011087-016 | VariCel RF DH | MERV 11 (45-50%) | 24x12x12 | 23.38x11.38x11.50 | 1000 | .23 | 1.5 | 31 |
| 3011087-014 | VariCel RF DH | MERV 11 (45-50%) | 24x20x12 | 23.38x19.38x11.50 | 1660 | .23 | 1.5 | 52 |
| 3011087-015 | VariCel RF DH | MERV 11 (45-50%) | 20x20x12 | 19.38x19.38x11.50 | 1400 | .23 | 1.5 | 41 |
| 3011079-013 | VariCel RF SH | MERV 11 (45-50%) | 24x24x12 | 23.38x23.38x11.50 | 2000 | .23 | 1.5 | 62 |
| 3011079-016 | VariCel RF SH | MERV 11 (45-50%) | 24x12x12 | 23.38x11.38x11.50 | 1000 | .23 | 1.5 | 31 |
| 3011079-014 | VariCel RF SH | MERV 11 (45-50%) | 24x20x12 | 23.38x19.38x11.50 | 1660 | .23 | 1.5 | 52 |
| 3011079-015 | VariCel RF SH | MERV 11 (45-50%) | 20x20x12 | 19.38x19.38x11.50 | 1400 | .23 | 1.5 | 41 |

**Notes**

All listed efficiencies are averages according to ASHRAE 52.2-2007. Comparable ASHRAE 52.1 atmospheric dust spot efficiency shown in parenthesis.
Performance tolerances conform to section 7.4 of ARI Standard 850-93.
Rated UL and C-UL Class 2.
Temperature limitation is 200°F (93°C) continuous, and 220°F (107°C) intermittent.
Actual depth of 12" filter is 11.50" (292mm).
Headers are $^{13}/_{16}$" (21mm).
Width and height dimensions are interchangeable.

**Efficiency**

MERV 15 (90-95%) - Yellow
MERV 14 (80-85%) - Pink
MERV 12 (60-65%) - Green
MERV 11 (45-50%) - White

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

AAF INTERNATIONAL®
10300 Ormsby Park Place Suite 600
Louisville, Kentucky 40223-6169

**www.aafintl.com**
**Customer Service 888.AAF.2003**
**Fax 888.223.6500**