

VariCel® RF NH

EXTENDED SURFACE RIGID AIR FILTERS

- Designed for improved performance and durability
- Layered synthetic media with plastic pleat spacers on both sides
- Box style – no header construction
- Heavy-duty expanded metal media support grid
- Ideal for Variable Air Volume (VAV) systems

Excellent Performance

With superior strength and durability, the VariCel RF NH filter is ideal for 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 NH 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.

Sturdy Construction and Dependability

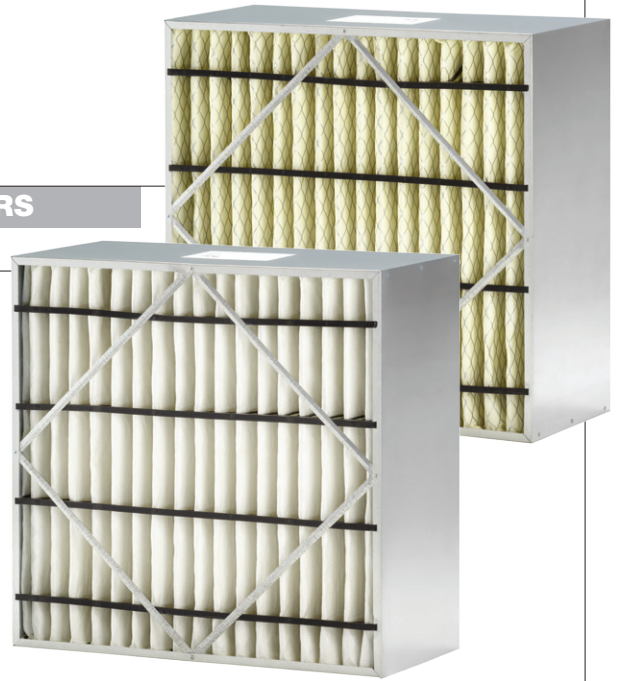
The VariCel RF NH filter, with its galvanized steel cell sides and plastic pleat spacers on the air entering and air leaving sides, withstands the most demanding applications. The pleat spacers and expanded metal support grid maintain the shape of the synthetic media pack and ensure that both the efficiency 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 media is chemically bonded to the frame to prevent air bypass. Standard box style construction cell sides are flush with the front and back face dimensions.

For single header and double header designs, see brochure AFP-1-105.

Layered Synthetic Media Pack

The layered media used in the VariCel RF NH 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 water resistant.



VariCel® RF NH Filters

Product Information

Nominal Size (inches) (W x H x D)	Actual Size (inches) (W x H x D)	Rated Airflow Capacity (CFM)	Resistance (in. w.g.)		Gross Media Area (sq. ft.)
			Initial	Final*	
MERV 15					
24 x 24 x 12	23¾ x 23¾ x 11½	2000	.51	1.5	62
24 x 12 x 12	23¾ x 11¾ x 11½	1000	.51	1.5	31
24 x 20 x 12	23¾ x 19¾ x 11½	1660	.51	1.5	52
20 x 20 x 12	19¾ x 19¾ x 11½	1400	.51	1.5	41
MERV 14					
24 x 24 x 12	23¾ x 23¾ x 11½	2000	.30	1.5	62
24 x 12 x 12	23¾ x 11¾ x 11½	1000	.30	1.5	31
24 x 20 x 12	23¾ x 19¾ x 11½	1660	.30	1.5	52
20 x 20 x 12	19¾ x 19¾ x 11½	1400	.30	1.5	41
MERV 12					
24 x 24 x 12	23¾ x 23¾ x 11½	2000	.22	1.5	62
24 x 12 x 12	23¾ x 11¾ x 11½	1000	.22	1.5	31
24 x 20 x 12	23¾ x 19¾ x 11½	1660	.22	1.5	52
20 x 20 x 12	19¾ x 19¾ x 11½	1400	.22	1.5	41
MERV 11					
24 x 24 x 12	23¾ x 23¾ x 11½	2000	.17	1.5	62
24 x 12 x 12	23¾ x 11¾ x 11½	1000	.17	1.5	31
24 x 20 x 12	23¾ x 19¾ x 11½	1660	.17	1.5	52
20 x 20 x 12	19¾ x 19¾ x 11½	1400	.17	1.5	41

*Maximum recommended final resistance in system design may indicate a lower changeout point.

Notes

All performance data is based on ASHRAE Standard 52.2. Performance tolerances conform to Section 7.4 of ARI Standard 850-93.

Actual depth of 12" filter is 11.50" (292mm). Width and height dimensions are interchangeable.

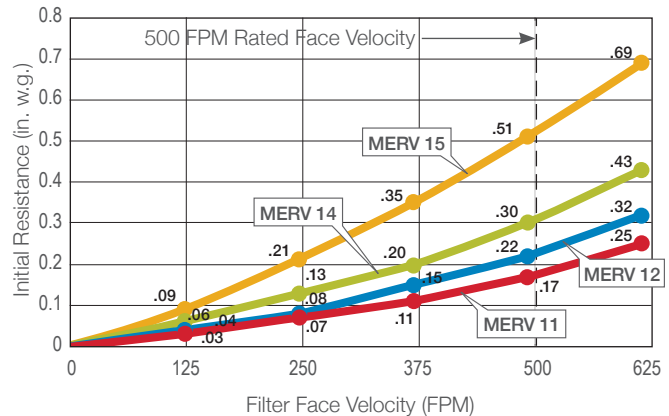
Operating Temperature Limits

Temperature limitation is 200°F (93°C) continuous and 220°F (107°C) intermittent.

VariCel® is a registered trademark of AAF International in the U.S. and other countries.

Performance Data

Initial Resistance vs. Filter Face Velocity



Underwriters Laboratories Classification

VariCel RF NH filters are UL Classified. Testing was performed according to UL Standard 900 and ULC-S111.

Efficiency

MERV 15 – Yellow
 MERV 14 – Pink
 MERV 12 – Green
 MERV 11 – White



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AAF Flanders has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.

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