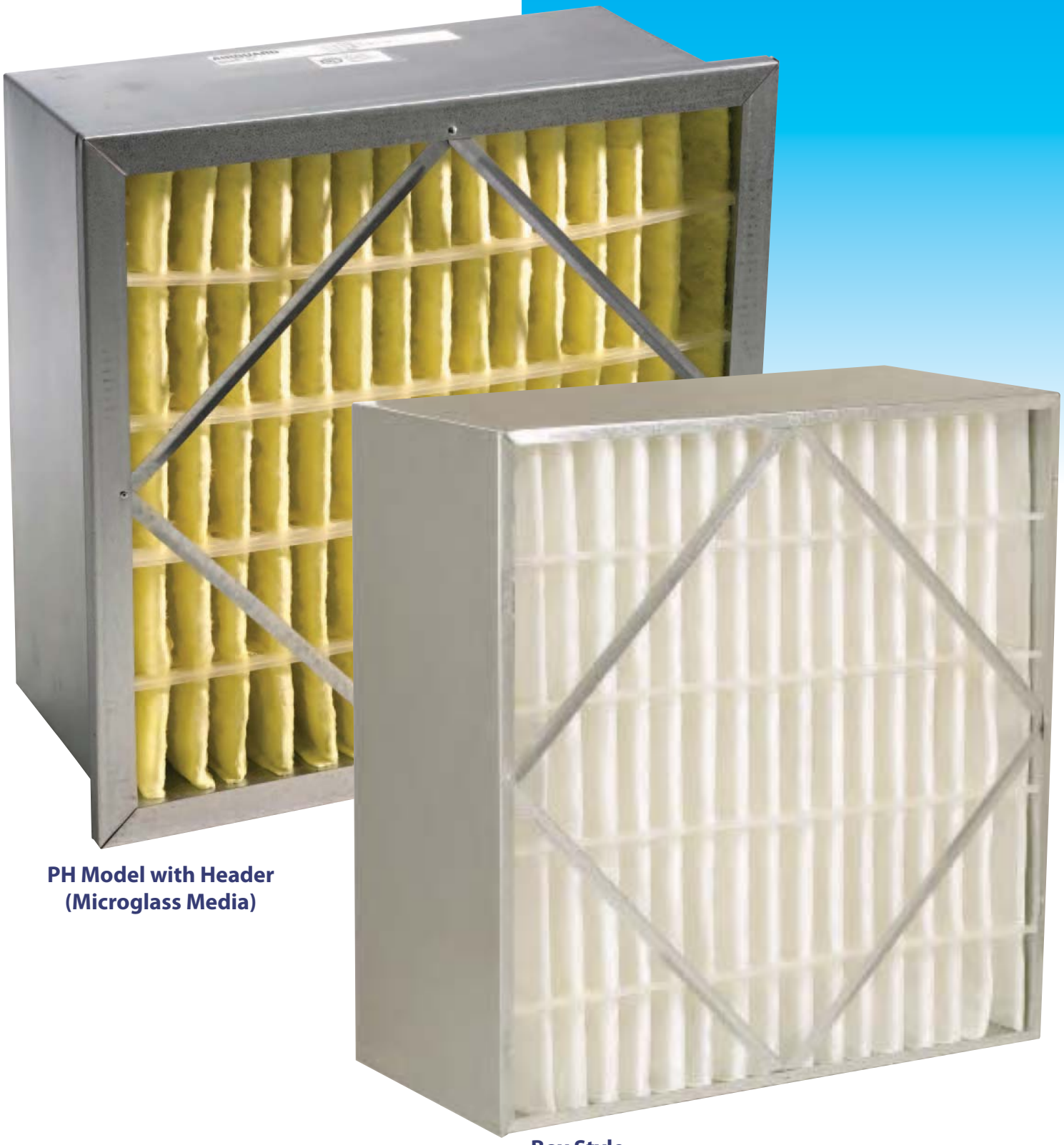
AIRGUARD®

VARI-PAK®

Extended Surface Rigid Cell Filters
Dual Layer, Microfine Synthetic Media
High Loft Microglass Media

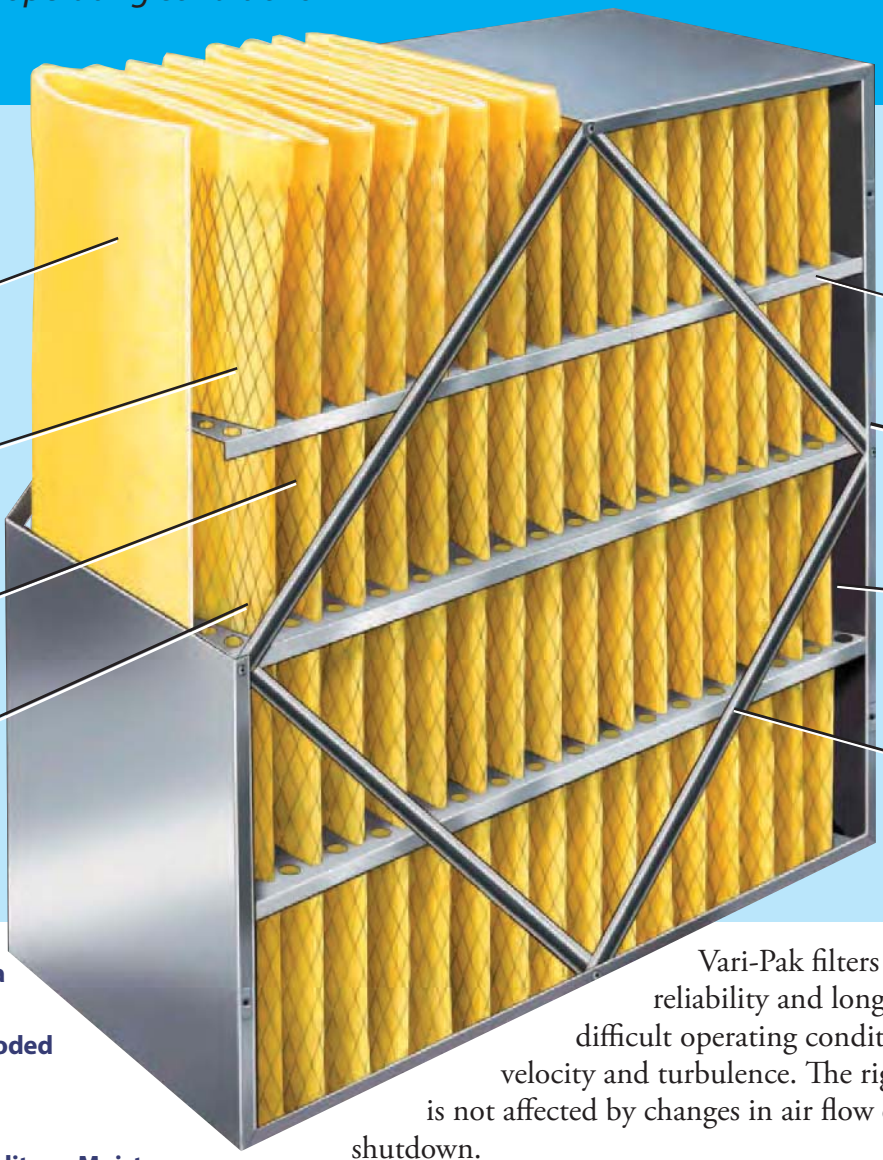


PH Model with Header
(Microglass Media)

Box Style
(Synthetic Media)

VARI-PAK® Rigid Box Filters

Designed for difficult operating conditions



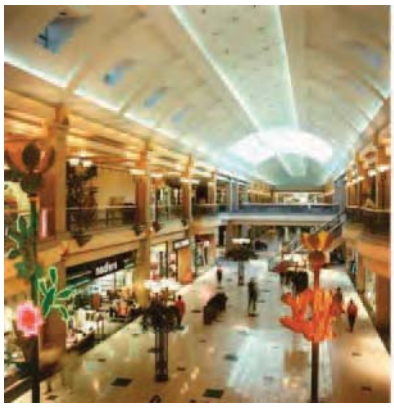
- **High Loft Microfine Media (Synthetic or Fiberglass)**
- **Four Efficiencies - Color Coded**
- **6" and 12" Depths**
- **Low Resistance**
- **Unaffected by High Humidity or Moisture (Synthetic Media)**
- **Rugged, Rigid Cell Construction**
- **Ideal for Variable Volume Systems**
- **Available with Box Style Construction (Standard) or with Header (Model PH)**

Vari-Pak filters are designed for reliability and long service life under difficult operating conditions including high velocity and turbulence. The rigid media pack is not affected by changes in air flow or repeated fan shutdown.

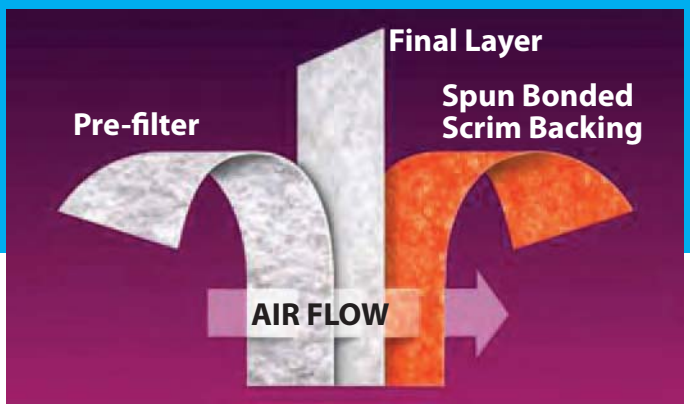
In applications where the use of fiberglass is restricted, Model S is an excellent choice. The wide range of efficiencies and rigid cell construction make this an ideal product for upgrading existing systems. The microfine synthetic media offers lower resistance and is unaffected by high humidity or moisture.

Typical applications include:

- Hospitals
- Food Processing
- Pharmaceutical Production
- Schools
- Government Buildings
- Office Complexes
- Public Arenas
- General Industrial



Microfine Synthetic Media
High Loft Microglass Media
Rugged, Rigid Cell Construction



Vari-Pak Model S dual layer synthetic media has a built in pre-filter layer consisting of coarser fibers followed by a high efficiency final filter layer made of microfine fibers.

High Loft Ultrafine Media Holds More Dirt

❶ Vari-Pak Model S filters made with dual layer synthetic media offer superior performance in high humidity conditions.

Ultrafine microglass media provides rated efficiency with high dust holding capacity.

❷ Scrim Backing - The media is protected on the air leaving side by a high strength, spun bond synthetic scrim backing.

Vari-Pak filters are color coded:

- 90 - 95% Yellow MERV 14
- 80 - 85% Pink MERV 13
- 60 - 65% Orange MERV 11
- 50 - 55% Green (Synthetic) MERV 10
  Beige (Microglass) MERV 10

Controlled Pleat Spacing Maintains Shape in all Operating Conditions

❸ The high loft media is pleated to create a large surface area (58 ft. in a 24" x 24" x 12" size) in a highly rigid, stable configuration.

❹ An expanded metal support grid is laminated to the air leaving side to form the pleats. The support grid also prevents the media from fluttering in operation which could cause collected dirt to shake loose and blow down stream. The shape of the pleats has been designed to achieve uniform dirt loading over the entire media surface area even at the back of the pleats. Full utilization of the media increases dust holding capacity and extends service life.

❺ Pleat stabilizers inserted from both sides of the filter reinforce the media pack and retain pleat shape. The fingers hold the pleats apart under all types of operating conditions enabling air to flow smoothly through the filter at low resistance.

Rugged, All Metal Construction

❻ The media pack is contained in corrosion resistant, galvanized steel cell sides forming a totally rigid element.

❼ Adhesive applied to the entire inside surface of the cell sides completely seals the media pack to prevent bypass.

❽ Additional structural reinforcement is supplied by diagonal cross members riveted to both sides of the filter.

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Vari-Pak Model PH with a Header

The Vari-Pak Model PH has a 13/16" header on the air entering side. This model is used for side access housings with a 1" track for the final filter. It is also a direct replacement for pocket filters or other rigid cell filters with a header.

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Extended Surface Rigid Cell Filters Dual Layer, Microfine Synthetic Media, High Loft Microglass Media

Model Number	Nominal Size (Inches) (H x W x D)	Media Area (Sq. Ft.)	Air Flow Capacity (CFM) 12" @ 500 FPM 6" @ 250 FPM	Rated Initial Resistance (in W.G.)			
				Synthetic		Microglass	
				Box Style	Header Style (PH)	Box Style	Header Style (PH)
MERV 14: E1 (0.3-1.0m) ≥75%, E2 (1.0-3.0m), ≥ 90%, E3 (3.0-10.0m) ≥ 95%							
R-904	24 x24 x 12	58	2000	.61	.65	.79	.83
R-903	24 x 12 x 12	28	1000	.61	.65	.79	.83
R-915	24 x 20 x 12	47	1650	.61	.65	.79	.83
R-913	20 x 20 x 12	39	1400	.61	.65	.79	.83
R-902	24 x24 x 6	30	1000	.44	.48	.63	.67
R-901	24 x 12 x 6	15	500	.44	.48	.63	.67
R-914	24 x 20 x 6	20	700	.44	.48	.63	.67
MERV 13: E1 (0.3-1.0m) ≥50%, E2 (1.0-3.0m), ≥ 85%, E3 (3.0-10.0m) ≥ 90%							
R-804	24 x24 x 12	58	2000	.49	.54	.57	.61
R-803	24 x 12 x 12	28	1000	.49	.54	.57	.61
R-815	24 x 20 x 12	47	1650	.49	.54	.57	.61
R-813	20 x 20 x 12	39	1400	.49	.54	.57	.61
R-802	24 x24 x 6	30	1000	.26	.36	.32	.44
R-801	24 x 12 x 6	15	500	.26	.36	.32	.44
R-814	24 x 20 x 6	20	700	.26	.36	.32	.44
MERV 11: E1 (0.3-1.0m) ≥20%, E2 (1.0-3.0m), ≥ 65%, E3 (3.0-10.0m) ≥ 85%							
R-604	24 x24 x 12	58	2000	.26	.31	.45	.54
R-603	24 x 12 x 12	28	1000	.26	.31	.45	.54
R-615	24 x 20 x 12	47	1650	.26	.31	.45	.54
R-613	20 x 20 x 12	39	1400	.26	.31	.45	.54
R-602	24 x24 x 6	30	1000	.20	.25	.15	.20
R-601	24 x 12 x 6	15	500	.20	.25	.15	.20
R-614	24 x 20 x 6	20	700	.20	.25	.15	.20
MERV 10: E1 (0.3-1.0m) N /A, E2 (1.0-3.0m), ≥ 75%, E3 (3.0-10.0m) ≥ 80%							
R-504	24 x24 x 12	58	2000	.18	.22	.30	.40
R-503	24 x 12 x 12	28	1000	.18	.22	.30	.40
R-515	24 x 20 x 12	47	1650	.18	.22	.30	.40
R-513	20 x 20 x 12	39	1400	.18	.22	.30	.40
R-502	24 x24 x 6	30	1000	.11	.13	.13	.15
R-501	24 x 12 x 6	15	500	.11	.13	.13	.15
R-514	24 x 20 x 6	20	700	.11	.13	.13	.15

Use "R" prefix for microglass models. Use "RS" prefix for synthetic models.

1. Actual size of face dimensions is ⅝" less than nominal. Depth is ½" less than nominal on 12" sizes (11½") and ⅛" less than nominal on 6" sizes (5⅞").
2. Performance data is based on the ASHRAE 52.2-2012 Test Method. At a test velocity of 492 FPM for a 24x24x2 nominal size filter.
3. Vari-Pak filters can be installed with the pleats either vertical or horizontal.
4. For PH models with a header, add suffix "PH" to model number - RS-904-PH (synthetic); R-904-PH (microglass).
5. Recommended final resistance is 1.5" W.G."
6. MERV 14 and MERV 13 Vari-Paks with synthetic media (Model S) are available with antimicrobial treated media.

Underwriters Laboratories, Inc. Classification

Vari-Pak filters are classified per U.L. Standard 900.

Operating Temperature Limit (Continuous)

180°F (82°C).

A-VPAK-1116

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NAFA National Air Filtration Association

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