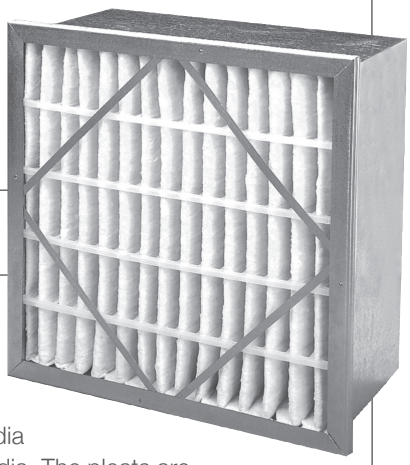
THE WORLD LEADER IN CLEAN AIR SOLUTIONS

RigidAir™



SPUN GLASS OR SYNTHETIC MEDIA RIGID FILTERS

- Ecologically advanced filtration medium made entirely from recycled materials
- Rugged corrosion-resistant steel casing minimizes damage during shipping and handling
- Lofted fiberglass microfine or synthetic media is held in position by upstream and downstream plastic or metal pleat supports
- Units are available with or without header
- Filters are completely rigid
- MERV 14, MERV 13, MERV 11, and MERV 10

RigidAir extended media surface rigid filters are designed for use in most commercial or industrial HVAC systems where medium to high-efficiency filtration is required. They feature your selection of media backed with expanded metal and pleated media. The pleats are held in place by rigid pleat separators, available in either plastic or metal styles on 12″ depth filters. 6″ depth filters feature rugged fiberboard separators. RigidAir is available in two media types: lofted fiberglass and microfine synthetic. RigidAir filters are available in MERV 14, MERV 13, MERV 11, and MERV 10 efficiencies.

These filters are especially suitable for Variable Air Volume (VAV) systems. Operating face velocity ranges are from 0 – 375 FPM for 6″ deep filters, and from 0 – 625 FPM for 12″ deep filters. Two frame styles are available: a single header model and a box type without header. RigidAir filters are UL 900 Classified.

Installation Considerations

RigidAir filters may be installed in AAF Flanders PF-1 holding frames or Sureseal side access housings. The headered version should be selected for use with the hardware listed. If the filter is to be installed so that it protrudes upstream of the holding frame, the box-style filter is required.

Physical Data

Frame: 24-gauge corrosion-resistant steel double-turned flange makes a stronger frame.

Media: Lofted fiberglass or microfine synthetic.

Media Supports: Expanded metal grid with metal or plastic pleat separator.

Face Grid: Horizontal and diagonal metal supports.

Header: 13/16″ wide 26-gauge corrosion-resistant steel.

Operating Limits: 180°F (82°C) 100% RH%.

Actual Header or Box Filter Face Size: Nominal size less 5/8″ (e.g., a nominal 24″ x 24″ filter is actually 23 3/8″ x 23 3/8″).

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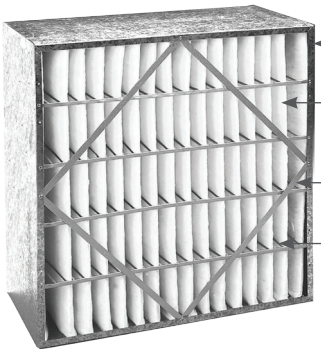
RigidAir™ Filters

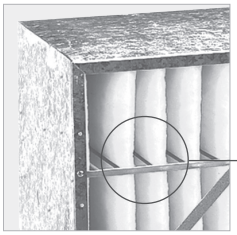


Double turned flange for a stronger frame

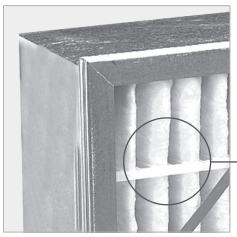
Choice of media: lofted fiberglass or microfine synthetic

Diagonal support prevent racking

Robust media support – expanded metal pleat backing and choice of metal or plastic pleat supports



RigidAir box type filter with metal pleat separators



RigidAir filter with header and plastic pleat separators

Options

- 5⅞″ or 11½″ depths
- Available with or without header
- Available with glass media and metal fingers

All performance data based on ASHRAE Standard 52.2. Performance tolerance conforms to Section 6.4 of ANSI/AHRI Standard 850-2013.

***Underwriters Laboratories Classification** – RigidAir filters are UL Classified. Testing was performed according to UL Standard 900.*

Product Information – Standard Sizes & Performance Data

Nominal Size (inches) (W x H x D)	Rated Airflow Capacity 12″ @ 500 FPM 6″ @ 250 FPM	Box Style		Header Style	
		Media Area Sq. Ft.	Resistance "w.g.	Media Area Sq. Ft.	Resistance "w.g.
MERV 14					
24 x 24 x 12	2000 CFM	58	.55	50	.65
12 x 24 x 12	1000 CFM	28	.55	25	.65
20 x 24 x 12	1650 CFM	47	.55	40	.65
20 x 20 x 12	1400 CFM	39	.55	33	.65
16 x 20 x 12	1100 CFM	33	.55	33	.65
16 x 25 x 12	1400 CFM	41	.55	41	.65
24 x 24 x 6	1000 CFM	29	.45	25	.50
12 x 24 x 6	499 CFM	14	.45	13	.50
20 x 24 x 6	830 CFM	24	.45	21	.50
20 x 20 x 6	700 CFM	19	.45	17	.50
16 x 20 x 6	550 CFM	17	.45	17	.50
16 x 25 x 6	700 CFM	24	.45	24	.50
MERV 13					
24 x 24 x 12	2000 CFM	58	.44	50	.52
12 x 24 x 12	1000 CFM	28	.44	25	.52
20 x 24 x 12	1650 CFM	47	.44	40	.52
20 x 20 x 12	1400 CFM	39	.44	33	.52
16 x 20 x 12	1100 CFM	33	.44	33	.52
16 x 25 x 12	1400 CFM	41	.44	41	.52
24 x 24 x 6	1000 CFM	29	.35	25	.40
12 x 24 x 6	499 CFM	14	.35	13	.40
20 x 24 x 6	830 CFM	24	.35	21	.40
20 x 20 x 6	700 CFM	19	.35	17	.40
16 x 20 x 6	550 CFM	17	.35	17	.40
16 x 25 x 6	700 CFM	24	.35	24	.40
MERV 11					
24 x 24 x 12	2000 CFM	58	.31	50	.36
12 x 24 x 12	1000 CFM	28	.31	25	.36
20 x 24 x 12	1650 CFM	47	.31	40	.36
20 x 20 x 12	1400 CFM	39	.31	33	.36
16 x 20 x 12	1100 CFM	33	.31	33	.36
16 x 25 x 12	1400 CFM	41	.31	41	.36
24 x 24 x 6	1000 CFM	29	.21	25	.27
12 x 24 x 6	499 CFM	14	.21	13	.27
20 x 24 x 6	830 CFM	24	.21	21	.27
20 x 20 x 6	700 CFM	19	.21	17	.27
16 x 20 x 6	550 CFM	17	.21	17	.27
16 x 25 x 6	700 CFM	24	.21	24	.27
MERV 10					
24 x 24 x 12	2000 CFM	58	.25	50	.30
12 x 24 x 12	1000 CFM	28	.25	25	.30
20 x 24 x 12	1650 CFM	47	.25	40	.30
20 x 20 x 12	1400 CFM	39	.25	33	.30
16 x 20 x 12	1100 CFM	33	.25	33	.30
16 x 25 x 12	1400 CFM	41	.25	41	.30
24 x 24 x 6	1000 CFM	29	.13	25	.15
12 x 24 x 6	499 CFM	14	.13	13	.15
20 x 24 x 6	830 CFM	24	.13	21	.15
20 x 20 x 6	700 CFM	19	.13	17	.15
16 x 20 x 6	550 CFM	17	.13	17	.15
16 x 25 x 6	700 CFM	24	.13	24	.15

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