



Ultra-V

*An Economical First-Cost
High Efficiency
Supported Media Air Filter*



*High Efficiency Rigid Air Filter
in a Unique V-Pleat
Media Configuration*

The *Ultra-V* provides high efficiency ASHRAE air filtration performance in a compact, supported media design.

The *Ultra-V*:

Is available in three efficiencies, MERV 11, MERV 13 and MERV 14, as evaluated per ASHRAE Standard 52.2-1999.

Includes High-lofted, depth-loading, synthetic media assembled in a unique v-pleat configuration for maximum airflow exposure and uniform low resistance to airflow.

Includes a wire backing, spot welded on one-inch centers, bonded to the media to support and maintain 2"-deep tapered pleats and to prevent media oscillation during varying system airflow.

Includes contour stabilizers on the downstream side that are tapered to the pleat configuration to establish pleat stability and media pack integrity. The stabilizers assist in promoting uniform airflow for full use of the media area, longer life and lower average energy costs.

Includes a unique media-to-frame adhesive that prevents air bypass and ensures that all of the air seen by the filter will be treated by the filter. The media will not tear away from the frame in turbulence or airflow variations common to HVAC systems.

Includes an enclosing frame of corrosion resistant galvanized steel that creates a rigid and durable media pack enclosure. The frame limits service personnel's exposure to contaminants by isolating the media during filter change.

Includes diagonal frame support members that maintain filter rigidity and squareness. The filter will fit properly into any filter holding frame and seal uniformly across the filter frame sealing gasket.

Ultra-V may be used in commercial buildings, institutional and medical facilities, industrial facilities, utilities and any other location where clean air is required to protect equipment, products and people.

PERFORMANCE DATA

Model & Efficiency ¹	Nominal Size (inches)	Actual Size (inches)		Airflow Capacity (cfm)	Resistance (inches w.g.)		Media Area (ft ²)
		Height	Width		Initial	Final ²	
Ultra-V MV11 MERV 11	24 x 12	23.38	11.38	1000	0.29	1.5	20.3
	20 x 20	19.38	19.38	1400			28.3
	24 x 20	23.38	19.38	1670			34.0
	24 x 24	23.38	23.38	2000			41.0
Ultra-V MV13 MERV 13	24 x 12	23.38	11.38	1000	0.38	1.5	20.3
	20 x 20	19.38	19.38	1400			28.3
	24 x 20	23.38	19.38	1670			34.0
	24 x 24	23.38	23.38	2000			41.0
Ultra-V MV14 MERV 14	24 x 12	23.38	11.38	1000	0.47	1.5	20.3
	20 x 20	19.38	19.38	1400			28.3
	24 x 20	23.38	19.38	1670			34.0
	24 x 24	23.38	23.38	2000			41.0

DATA NOTES:

¹ Respective listed efficiencies are MERV per ASHRAE Standard 52.2-1999.

² Maximum recommended final pressure drop. System design may indicate a lower changout point.

Maximum continuous operating temperature is 160° F (70° C).

Also available in a header version.

Air Filters

1.0 General

- 1.1 Air filters shall be high efficiency ASHRAE grade with v-pleated high-lofted media, assembled into v-pleated media packs, in a compact and secure galvanized enclosing frame.
- 1.2 Sizes shall be as noted on the enclosed drawings or other supporting materials.

2.0 Construction

- 2.1 Filter shall include 2"-deep v-pleated high lofted synthetic media with a welded wire backing on the downstream side to facilitate 96% open area to airflow. The media shall be formed into multiple media packs and bonded to the enclosing frame on all sides. The bond shall have a high tear-away resistance to ensure that the media will not disengage during periods of normal HVAC airflow variations or system turbulence.
- 2.2 The welded wire grid shall be spot-welded on 1" centers and post treated for corrosion resistance. The wire shall be laminated to the media to prevent media oscillation or pull-away.
- 2.3 There shall be two contoured pleat stabilizers on the downstream side to ensure medial pack stability and assist in maintaining pleat stability. The stabilizers shall be formed to contact each pleat peak in each media pack.

- 2.4 The enclosing frame shall be manufactured of corrosion resistant galvanized steel and create a rigid and durable filter enclosure. Diagonal support bracing of galvanized steel, on the upstream and downstream-sides, shall assist in maintaining filter rigidity and squareness.

3.0 Performance

- 3.1 The filter shall have a Minimum Efficiency Reporting Value of MERV (11, 13, 14)* when evaluated per ASHRAE Standard 52.2:1999.
- 3.2 Initial resistance to airflow shall be (0.29", 0.38", 0.47")* w.g at a filter face velocity of 500 fpm.
- 3.3 Manufacturer shall provide evidence of facility certification to ISO 9001-2000.
- 3.4 Filter shall be rated by Underwriters Laboratories as UL 900 Class 2.

Supporting Data - Provide product test reports for each listed efficiency including all details as prescribed in ASHRAE Standard 52.2-1999.

* Items in parentheses () require selection.

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