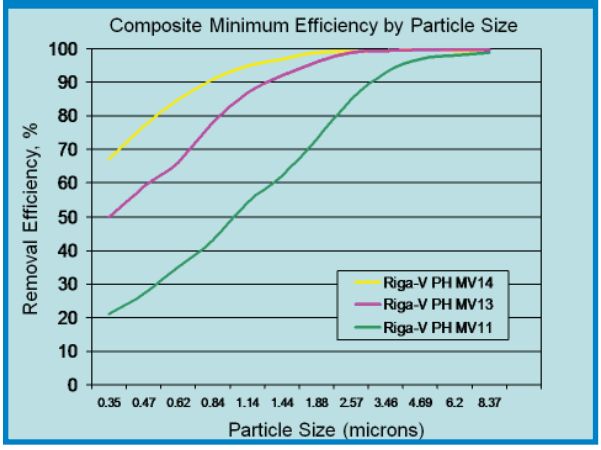
Riga-V PH

High Efficiency Rigid Air Filter in a Unique V-Pleated Media Configuration (with peripheral header)

High efficiency supported media filtration in a low first cost v-pleat header style configuration for side access housings.



Values are Minimum Efficiency Reporting Values (MERVs) when evaluated per ASHRAE Standard 52.2.

The Camfil Farr Riga-V provides high efficiency ASHRAE air filtration performance in a compact, supported media design. The Riga-V PH:

- Is available in three efficiencies, MERV 11, MERV 13 and MERV 14, as evaluated per ASHRAE Standard 52.2.
- 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 unique bridge style plastic 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 includes an integral peripheral header to allow the filter to be installed in side-access housing tracks or through filter holding frames. The Riga-V PH easily replaces bag filters of other filters incorporating a header. 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.
- Has an ECI[1] value of four stars.

The Riga-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.

[1] The Energy Cost Index (ECI) is a system that rates a filter's energy usage and its ability to maintain published efficiency over its lifetime. ECI is useful when comparing filters of similar construction and published efficiency. ECI ratings range from a high of 5 stars (low life cycle cost and high overall value) to a low of 1 star (high life cycle cost and low overall value). Details on ECI ratings for Camfil Farr and competitor's products are available from your Camfil Farr sales outlet and on the web at www.camfilfarr.com.

Camfil Farr	Product sheet
Riga-V™	1417 - 0409
Camfil Farr - clean air solutions	

PERFORMANCE DATA

Model & Efficiency[1]	Part Number	Nominal Size (inches) (H x W x D)	Actual Size (inches)			Airflow Capacity (cfm)	Resistance (inches, w.g.)	Media Area (sq. ft.)
			Height	Width	Depth			
Riga-V PH MV14 MERV 14	404411-014	24 x 12 x 12	23.38	11.38	11.50	1000	0.65	18.8
	404411-034	20 x 20 x 12	19.38	19.38		1400		25.8
	404411-024	24 x 20 x 12	23.38	19.38		1660		31.4
	404411-004	24 x 24 x 12	23.38	23.38		2000		37.6
Riga-V PH MV13 MERV 13	404411-013	24 x 12 x 12	23.38	11.38		1000	0.55	18.8
	404411-033	20 x 20 x 12	19.38	19.38		1400		25.8
	404411-023	24 x 20 x 12	23.38	19.38		1660		31.4
	404411-003	24 x 24 x 12	23.38	23.38		2000		37.6
Riga-V PH MV11 MERV 11	404411-012	24 x 12 x 12	23.38	11.38		1000	0.43	18.8
	404411-032	20 x 20 x 12	19.38	19.38		1400		25.8
	404411-022	24 x 20 x 12	23.38	19.38		1660		31.4
	404411-002	24 x 24 x 12	23.38	23.38		2000		37.6

DATA NOTES:
[1] Respective listed efficiencies are MERV per ASHRAE Standard 52.2.
Maximum recommended final pressure drop is 1.50″ w.g.. System design may indicate a lower changeout point.
Maximum continuous operating temperature is 160° F (70° C) and 180° F (82° C) intermittent.
Also available in a box style version, shown in photo to the right (see Product Sheet 1414).

SPECIFICATIONS

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 - A air-exiting side welded wire grid, for media support, 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 bridge style plastic contour pleat stabilizers on the downstream side to ensure media pack stability and assist in maintaining pleat stability. The stabilizers shall be formed to contact each pleat peak in each media pack. The stabilizers shall include a rounded edge to preclude media damage.

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. The frame shall include an integral header to facilitate installation into side-access housing tracks or through filter holding frames. A gasket shall be included on a vertical side of the header to ensure filter to filter seal.

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.

3.2 - Initial resistance to airflow shall be (0.43″, 0.55″, 0.65″)* 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 report for each listed efficiency including all details as prescribed in ASHRAE Standard 52.2.

Camfil Farr has a policy of uninterrupted research, development and product improvement. We reserve the right to change designs and specifications without notice.

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ENERGY COST INDEX

Star rating based upon MERV 13 size 24” by 24” by 12” deep filter.

camfil FARR
Certified Quality System
ISO 9001:2000

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