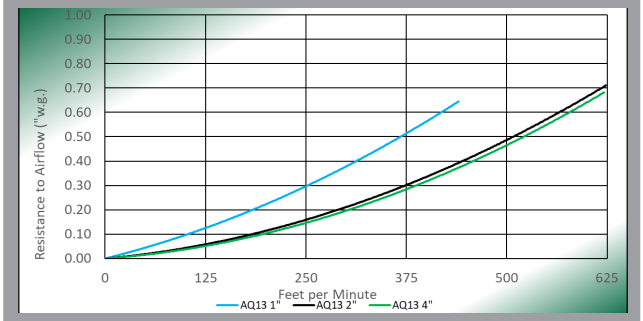
AQ13

Air Quality MERV 13/10A Panel Filter with Long Service Life

Upstream and downstream view

Low average pressure drop and highest rated average efficiency in its class makes the AQ13 an ideal choice for MERV 13 upgrades.



The Camfil AQ13 high-capacity pleated panel filter delivers high indoor air quality and extended service life with pressure drops suitable for most applications.

The AQ13 is the first choice for those facilities whose air handling equipment is limited to air filters 4" or less. Unlike other MERV 13 pleated panel filters which must be replaced every two or three months, the AQ13 can remain in service up to six months in environments typically found in schools, public buildings, and retail shops.

The AQ stands for air quality and carries a MERV value of MERV 13/10A. This is the highest published MERV value for a standard pleated panel filter with an initial pressure drop similar to commonly used MERV 8 panel filters which often test two MERV levels below; MERV 13/8A.

Engineered to comply with MERV 13 requirements or guidelines and remain in service twice as long as any comparable pleated panel filter, the AQ 13:

- Has 15 pleats per linear foot on the widely used 2" model.
- Includes a synthetic fiber blend with a unique media loft that delivers a MERV 13/10A capture efficiency
- Has a welded wire media grid backing, treated for corrosion resistance, preventing media oscillation or filter pack failure as filter pressure drop increases.
- The welded wire backing holds the pleats in a “U” shape which maximizes surface area for long life and lowers resistance to airflow.
- Has a high wet-strength beverage board frame that creates a rigid and durable filter pack. The AQ13 will not bow or deflect throughout its anticipated six-month service life.

These engineered features allow the AQ13 to deliver the highest quality indoor air for twice as long as any other comparable pleated panel filter and with a low-pressure drop that allows it to be used in virtually all pleated panel filter applications.

[1] LEED, Leadership in Energy and Environmental Design is a registered trademark of the United States Green Building Council.

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Performance Data

1" Nominal Depth Δp of 0.45" w.g.			
Part Number	Nominal Size (inches)	Airflow Capacity (cfm)	Media Area (sq ft)
407050001	20x16x1	770	5.4
407050002	20x20x1	970	6.7
407050003	25x20x1	1210	8.5
407050004	25x16x1	970	6.7
407050005	24x24x1	1400	9.8
407050006	20x14x1	680	4.7
407050007	24x20x1	1160	8.1
407050008	20x15x1	720	5
407050009	24x12x1	700	4.8
407050010	24x16x1	930	6.5
407050011	25x14x1	850	5.9
407050012	20x10x1	480	3.3
407050013	25x25x1	1510	10.7
407050014	25x18x1	1090	7.6
407050016	16x16x1	620	4.3
407050018	20x12x1	580	4
407050019	20x18x1	870	6.1
407050020	22x22x1	1170	8.2
407050021	24x10x1	580	4
407050022	25x10x1	600	4.1
407050023	25x12x1	720	5
407050024	25x15x1	910	6.3
407050025	12x12x1	350	5.6
407050026	24x14x1	817	3.2
407050028	24x18x1	1050	7.3
407050029	20x30x1	1450	10.2

2" Nominal Depth Δp of 0.49" w.g.			
Part Number	Nominal Size (inches)	Airflow Capacity (cfm)	Media Area (sq ft)
407051001	20x16x2	1110	9.6
407051002	20x20x2	1390	12
407051003	25x20x2	1740	15.1
407051004	25x16x2	1390	12
407051005	24x24x2	2000	17.3
407051006	24x12x2	1000	8.4
407051007	24x20x2	1670	14.5
407051008	24x18x2	1500	13
407051009	25x18x2	1565	13.6
407051010	20x14x2	975	8.3
407051011	25x14x2	1220	10.5
407051012	24x16x2	1335	11.5
407051013	25x25x2	2170	19
407051014	20x12x2	1040	7.1
407051015	20x10x2	695	5.9
407051016	16x16x2	890	7.6
407051017	20x15x2	830	8.9
407051018	20x18x2	1250	10.8
407051019	25x15x2	1300	11.2
407051020	16x25x2	1390	12
407051021	20x24x2	1670	14.5
407051022	20x25x2	1740	15.1
407051023	20x30x2	2085	18.2
407051024	18x18x2	1125	10
407051099	12x12x2	200	4

4" Nominal Depth Δp of 0.47" w.g.			
Part Number	Nominal Size (inches)	Airflow Capacity (cfm)	Media Area (sq ft)
407052001	24X24X4	2000	27.5
407052002	24X12X4	1000	13.4
407052003	20X20X4	1380	18.9
407052004	20X16X4	1110	15
407052005	25X16X4	1380	18.9
407052006	25X20X4	1730	23.8
407052007	24X20X4	1660	22.8
407052008	24X18X4	1500	20.4
407052009	24X16X4	1330	18.1

DATA NOTES:
[1.] 1.0" w.g. recommended maximum final resistance. [2.] System design may dictate a lower change-out point. [3.] The AQ13 filter is classified by Underwriters Laboratories as UL 900. [4.] Maximum operating temperature 175° F. (79° C). [5.] See drawing for exact sizes vs nominal.

Specifications

1.0 General

1.1 - Air filters shall be medium efficiency ASHRAE pleated panels consisting of a synthetic media blend, media support grid, and enclosing frame.

1.2 - Sizes shall be noted on drawings or other supporting materials.

2.0 Construction

2.1 - Filter media shall be a synthetic blend, lofted to a uniform depth, and formed into a uniform radial pleats. There shall be at least 16, 15 or 11 pleats per linear foot for 1" deep, 2" deep or 4" deep filters respectively.

2.2 – A wire backing treated for corrosion resistance, shall be bonded to the downstream side of the media to prevent media oscillation.

2.3 - An enclosing frame, of high wet-strength beverage board shall provide a rigid and durable enclosure. The frame shall be bonded to the media to prevent air bypass, and include integral diagonal support members on the air entering and air existing side to maintain uniform pleat spacing in varying airflows.

3.0 Performance

3.1 - The filter shall have a Minimum Efficiency Reporting Value of MERV 13 when evaluated under the guidelines of ASHRAE Standard 52.2.

3.2 - Initial resistance to airflow shall not exceed 0.45", 0.49" or 0.47 w.g. at an airflow of 350 or 500 fpm on 1", 2" or 4" deep models respectively.

3.3 - The filter shall be classified by Underwriters Laboratories as UL Class 900.

3.4 - Manufacturer shall provide evidence of facility certification to ISO 9001:2015.

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

Filter shall be Camfil AQ13 or approved equal.

camfil ISO 9001:2015 Certified Quality System

For detailed specifications and exact height, width and depth of each size, consult your local Camfil Distributor, Representative or AQ13. Camfil 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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