

FACET FME 40

Extended Surface, Medium Efficiency, Pleated Air Filters

Facet FME 40



- Medium efficiency filtration drastically reduces building maintenance costs by protecting expensive HVAC equipment from the damaging effects of dirty air
- The use of an FME Series product as a pre-filter prolongs the life of more expensive secondary filters
- Available with Antimicrobial treatment

The Facet FME40 is a medium efficiency, self-supporting, extended surface, pleated air filter. The media area and initial air flow resistance has been carefully balanced to give flow capacity up to 625 FPM without sacrificing dust holding capacity. The FME40 is available in 1", 2" and 4" depth measurements and 19 standard face sizes.

Applications

An FME40 filter is effective in stand alone applications or as a pre-filter in place of a disposable, permanent, or media pad/frame filter. In situations where a significantly high degree of cleanliness and/or longer service life is desired, an FME pleated filter should be considered.

Installation

The FME40 is easy to install in new or existing side-access housings, package air handling units and built up filter banks.

Filter Closure Frame

The FME40 elements are enclosed in a two piece pearl coat die cut frame. When assembled, the fully

bonded double wall frame of this product combines with the integral corner flaps and forms a rugged, durable filter, which will not rack, warp or leak under normal operating conditions.

Filter Media

A lofted, non-woven pleated filter media composed of cotton and synthetic fibers makes up the FME media. When tested in accordance with ASHRAE testing method 52.1-1992, this fiber blend provides a 25-30% average efficiency and a 90-93% average arrestance and maximizes dust retention capabilities.

The filter media derives its support from being continuously bonded to a corrosion resistant, 28-gauge, expanded metal grid allowing a 95% open face area. This media/backing configuration is formed into aerodynamic wedge-shaped pleats. To eliminate the possibility of dirty air bypass, the media pack is securely bonded to the periphery of the enclosure frame.

FME40									
Series	Nominal size WxHxD	Actual size WxHxD	CFM ⁽²⁾ capacity		Resist. in. W.G.			Sq. ft.	Media area/sq. ft. face area
			med	high	med	high	final ⁽³⁾		
1	10x10x1	9 1/2 x 9 1/2 x 3/4	200	350	.24	.42	1.00	1.2	1.6 11 pleats per lineal foot of face area.
	10x20x1	9 1/2 x 19 1/2 x 3/4	425	700	.24	.42	1.00	2.4	
	12x20x1	11 1/2 x 19 1/2 x 3/4	500	850	.24	.42	1.00	2.6	
	12x24x1	11 3/8 x 23 3/8 x 3/4	600	1000	.24	.42	1.00	3.1	
	14x20x1	13 1/2 x 19 1/2 x 3/4	585	975	.24	.42	1.00	2.8	
	14x25x1	13 1/2 x 24 1/2 x 3/4	730	1215	.24	.42	1.00	3.6	
	15x20x1	14 1/2 x 19 1/2 x 3/4	625	1040	.24	.42	1.00	3.1	
	16x20x1	15 1/2 x 19 1/2 x 3/4	665	1100	.24	.42	1.00	3.3	
	16x24x1	15 1/2 x 23 3/8 x 3/4	810	1350	.24	.42	1.00	3.4	
	16x25x1	15 1/2 x 24 1/2 x 3/4	850	1400	.24	.42	1.00	4.2	
	18x20x1	17 3/8 x 19 1/2 x 3/4	750	1250	.24	.42	1.00	3.3	
	18x22x1	17 3/8 x 21 1/2 x 3/4	900	1500	.24	.42	1.00	4.2	
	18x24x1	17 3/8 x 23 3/8 x 3/4	900	1500	.24	.42	1.00	4.5	
	18x25x1	17 3/8 x 24 1/2 x 3/4	950	1550	.24	.42	1.00	4.8	
	20x20x1	19 1/2 x 19 1/2 x 3/4	850	1400	.24	.42	1.00	4.3	
	20x24x1	19 3/8 x 23 3/8 x 3/4	1000	1665	.24	.42	1.00	5.1	
	20x25x1	19 1/2 x 24 1/2 x 3/4	1050	1750	.24	.42	1.00	5.4	
	24x24x1	23 1/2 x 23 1/2 x 3/4	1200	2000	.24	.42	1.00	6.0	
	25x25x1	24 1/2 x 24 1/2 x 3/4	1200	2000	.24	.42	1.00	6.6	
	2	10x20x2	9 1/2 x 19 1/2 x 1 3/4	425	700	.16	.24	1.00	
12x20x2		11 1/2 x 19 1/2 x 1 3/4	500	850	.16	.24	1.00	5.1	
12x24x2		11 3/8 x 23 3/8 x 1 3/4	600	1000	.16	.24	1.00	6.1	
14x20x2		13 1/2 x 19 1/2 x 1 3/4	585	975	.16	.24	1.00	5.6	
14x25x2		13 1/2 x 24 1/2 x 1 3/4	730	1215	.16	.24	1.00	7.0	
15x20x2		14 1/2 x 19 1/2 x 1 3/4	625	1040	.16	.24	1.00	6.1	
16x20x2		15 1/2 x 19 1/2 x 1 3/4	665	1100	.16	.24	1.00	6.6	
16x24x2		15 1/2 x 23 3/8 x 1 3/4	810	1350	.16	.24	1.00	7.4	
16x25x2		15 1/2 x 24 1/2 x 1 3/4	850	1400	.16	.24	1.00	8.3	
18x20x2		17 3/8 x 19 1/2 x 1 3/4	750	1250	.16	.24	1.00	7.1	
18x22x2		17 3/8 x 21 1/2 x 1 3/4	850	1400	.16	.24	1.00	7.8	
18x24x2		17 3/8 x 23 3/8 x 1 3/4	900	1500	.16	.24	1.00	9.1	
18x25x2		17 3/8 x 24 1/2 x 1 3/4	950	1550	.16	.24	1.00	9.6	
20x20x2		19 1/2 x 19 1/2 x 1 3/4	750	1250	.16	.24	1.00	8.1	
20x24x2		19 3/8 x 23 3/8 x 1 3/4	1000	1665	.16	.24	1.00	9.7	
20x25x2		19 1/2 x 24 1/2 x 1 3/4	1050	1750	.16	.24	1.00	10.2	
24x24x2	23 3/8 x 23 3/8 x 1 3/4	1200	2000	.16	.24	1.00	11.6		
25x25x2	24 1/2 x 24 1/2 x 1 3/4	1200	2000	.16	.24	1.00	12.8		
4	12x24x4	11 3/8 x 23 3/8 x 3 3/4	1000	1250	.20	.28	1.00	11.5	5.7 9 pleats per lineal foot of face area.
	16x20x4	15 3/8 x 19 3/8 x 3 3/4	1100	1400	.20	.28	1.00	12.7	
	16x25x4	15 3/8 x 24 3/8 x 3 3/4	1400	1750	.20	.28	1.00	15.9	
	18x24x4	17 3/8 x 23 3/8 x 3 3/4	1500	1875	.20	.28	1.00	16.6	
	20x20x4	19 3/8 x 19 3/8 x 3 3/4	1400	1750	.20	.28	1.00	15.9	
	20x24x4	19 3/8 x 23 3/8 x 3 3/4	1625	2050	.20	.28	1.00	19.2	
	20x25x4	19 3/8 x 24 3/8 x 3 3/4	1750	2170	.20	.28	1.00	20.0	
	24x24x4	23 3/8 x 23 3/8 x 3 3/4	2000	2500	.20	.28	1.00	23.0	
	25x29x4	24 1/2 x 28 1/2 x 3 3/4	2500	3150	.20	.28	1.00	29.3	
	28x30x4	27 1/2 x 29 1/2 x 3 3/4	2900	3650	.20	.28	1.00	33.6	

(1) Width and height dimensions are interchangeable. The FME may be installed with pleats running vertical or horizontal.

(2) Capacity ratings are recommended levels. Resistance to air flow data is based on ASHRAE 52.1-1992 Test Method. Performance tolerances conform to Section 7.4 of ARI Standards 8509-93.

(3) The recommended final operating resistance is typical of systems currently in operation. The FME can be operated to higher or lower final resistance levels without materially affecting filter efficiency.

Suggested Product Specifications

Air filters shall be (1"), (2") and (4") deep, medium efficiency, pleated media, disposable panel type. The filter media shall be self-extinguishing, non-woven, cotton and synthetic fibers. The filter media shall be bonded to a 28-gauge corrosion resistant, expanded metal support grid with a 95% open face area.

To assure no dirty air bypass, the media grid assembly shall be bonded to all interior surfaces of a: FME40 – pearl coat die cut frame – heavy duty, high wet strength beverage board die cut frame. The support grid shall be formed into a wedge configuration to optimize use of the filter media. Die cut diagonal frame members shall be bonded to the media pack, upstream and downstream, to maintain accurate pleat alignment.

Filters shall have a rated average efficiency of 25-30% and an average arrestance of 90-93% when tested in accordance with ASHRAE 52.1-1992 Test Standard. The filter shall be listed and rated Class 2 by Underwriters Laboratories, Inc.

Series 1

The FME40 shall have a minimum of 11 pleats per lineal foot and shall contain not less than 1.6 square feet of effective filtering media per square foot of face area. The filter shall be capable of operating at face velocities of up to 500 FPM with an initial resistance not to exceed .42 inches W.G.

Series 2

The FME40 shall have a minimum of 10 pleats per lineal foot and shall contain not less than 3.1 square feet of effective filtering media per square foot of face area. The filter shall be capable of operating at face velocities of up to 500 FPM with an initial resistance not to exceed .26 inches W.G.

Series 4

The FME40 shall have a minimum of 9 pleats per lineal foot and shall contain not less than 5.7 square feet of effective filtering media per square foot of face area. The filter shall be capable of operating at face velocities of up to 625 FPM with an initial resistance not to exceed .28 inches W.G.

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