



**Koch Filter Corporation**  
Filtration Products Crafted with Pride

# *Multi-Flo*<sup>TM</sup>

*Extended Surface Rigid Air Filters*



- Low pressure drop
- Reduces energy cost
- Durable plastic internal supports
- MERV 10 - 15 performance rating
- High efficiency synthetic or microfiberglass media
- Rigid construction for variable-air-volume systems

**Koch Filter Corporation...Durable. Reliable. Versatile.**

Bulletin No. K-228-C

## Multi-Flo Extended Surface Rigid Air Filter



The **Koch Multi-Flo** is a rigid, extended surface air filter engineered to provide medium and high efficiency air filtration, and long filter lifecycles. The Multi-Flo, because of its rugged metal and plastic frame construction, is capable of operating in a wide variety of air handling systems, and is an excellent product for variable-air-volume (VAV) applications where changes in airflow might render a non-rigid filter ineffective.

### Applications

Multi-Flo filters are widely used in hospitals, manufacturing plants, automotive plants, office buildings, universities, pharmaceutical laboratories, and in many other commercial and industrial applications. The Multi-Flo is interchangeable with all makes and models of competitive rigid filters. They are available in a single-header or non-header configuration, making it easy to install in any side access or front access housing. Each filter is completely disposable and is furnished ready for installation.



**Hospitals and Laboratories**



**Manufacturing Facilities**



**Office Buildings**

### Two Media Options

In order to meet the strict Indoor Air Quality specifications found in today's complex air filtration systems, Koch offers the Multi-Flo with two distinct types of air filter media. With two media choices, the end-user is assured of finding the correct product for every type of air handling system\*.

#### Series S Synthetic Media

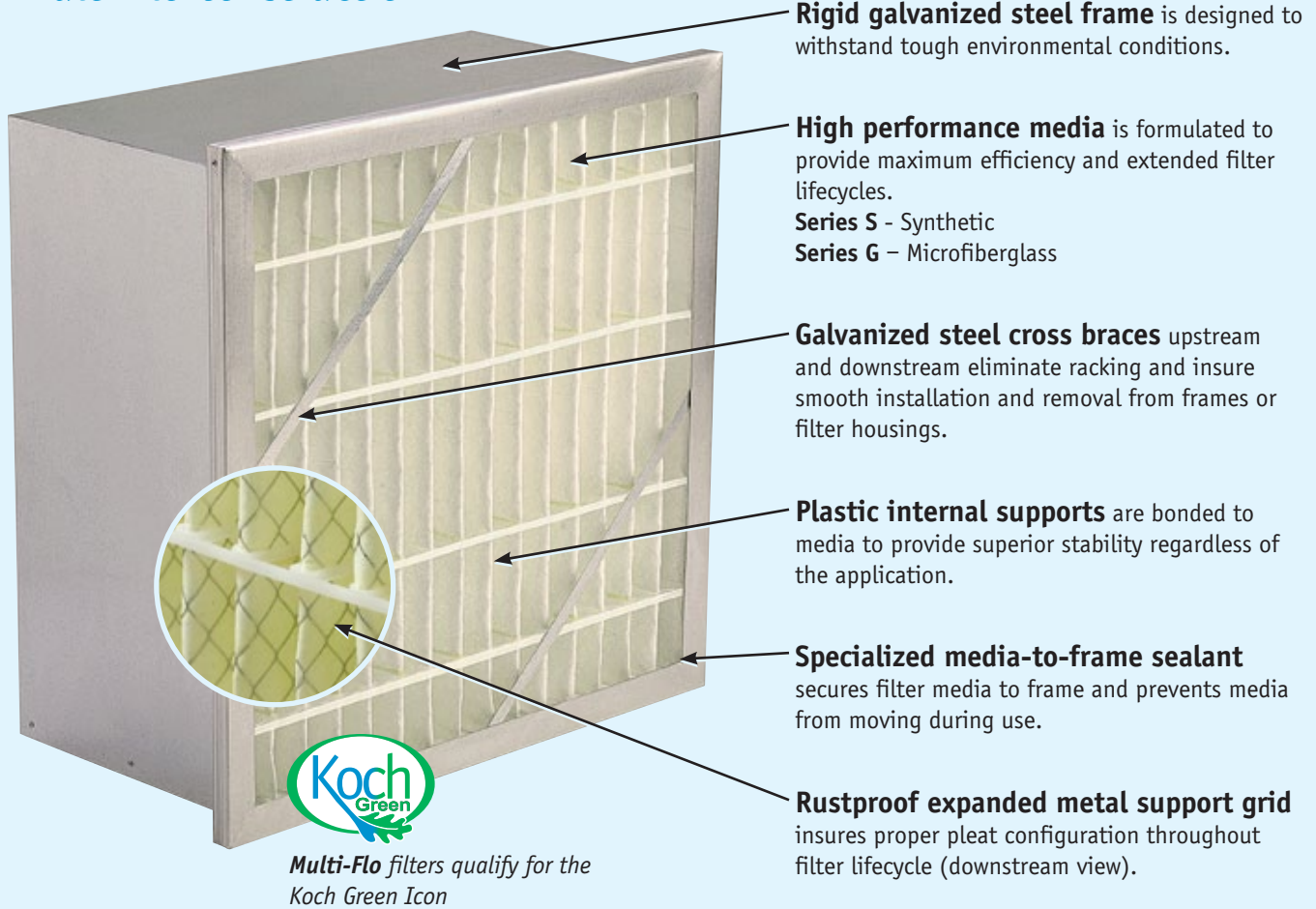
The media used in Multi-Flo Series S is composed of 100% synthetic fibers. These synthetic fibers are formed into a dual stage graded-density mat which ensures full depth loading, high dust holding capacity, and total media utilization. Also, these synthetic microfibers exhibit extraordinary strength and will not shed, even in high moisture applications or other adverse conditions. The media is supported downstream by a layer of spun-bonded synthetic. Multi-Flo Series S is available in four ASHRAE efficiency ranges (MERV 11-15) to meet the unique demands of every application.

#### Series G Microfiberglass Media

Multi-Flo Series G filters are constructed with a microfiberglass media. The ultrafine glass fibers used in Series G media are formed into a progressively dense high loft blanket which provides high dust holding and low resistance to airflow. The microfiberglass media used in Multi-Flo Series G is designed specifically for use in high efficiency air filtration and has a long record of proven reliability, even under extreme atmospheric conditions. Multi-Flo Series G is available in four ASHRAE efficiency ranges (MERV 10-14) to meet the unique demands of every application.

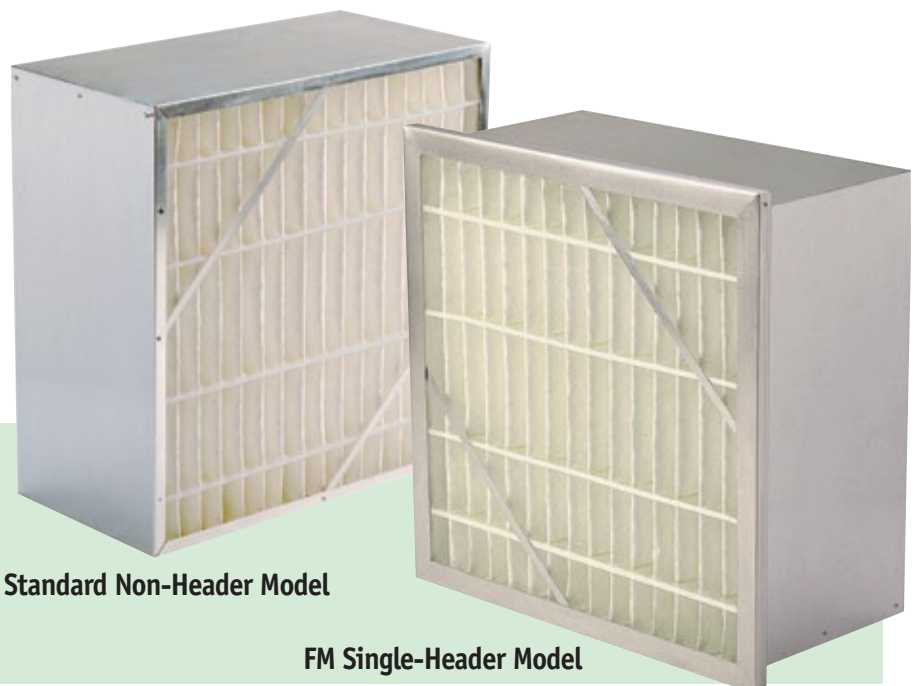
\* See performance data on back page for additional information on both media options.

## Multi-Flo Construction



## Header Configurations

Multi-Flo Filters are available with two header designs. **Standard non-header models** are furnished with clip accommodation holes for front load filter banks. **FM single-header models** are equipped with a single  $\frac{7}{8}$ " header upstream for side access housings. Also available with  $1\frac{1}{8}$ " header (Style FM-C) if required.





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## Multi-Flo Technical Data

Koch Part Number	Nominal Size (inches) W x H x D	Actual Size (inches) W x H x D	Capacity (CFM)	Initial Resistance (inches w.g.)				Media Area Sq.Ft.
				90-95%	80-85%	60-65%	40-45%	
<b>Multi-Flo NHM - Series S (No Header)</b>				<b>MERV 15</b>	<b>MERV 14</b>	<b>MERV 12</b>	<b>MERV 11</b>	
112-65□-001	24 x 24 x 12	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	2000	0.58	0.45	0.33	0.32	61
112-65□-002	12 x 24 x 12	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	1000	0.58	0.45	0.33	0.32	30
112-65□-003	24 x 24 x 6	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>7</sup> / <sub>8</sub>	1000	0.58	0.45	0.33	0.32	33
112-65□-004	12 x 24 x 6	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>7</sup> / <sub>8</sub>	500	0.58	0.45	0.33	0.32	16
112-65□-005	20 x 20 x 12	19 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	1400	0.58	0.45	0.33	0.32	42
112-65□-006	20 x 24 x 12	19 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	1667	0.58	0.45	0.33	0.32	50
112-65□-007	20 x 24 x 6	19 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>7</sup> / <sub>8</sub>	834	0.58	0.45	0.33	0.32	27
112-65□-008	20 x 20 x 6	19 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 5 <sup>7</sup> / <sub>8</sub>	700	0.58	0.45	0.33	0.32	23
<b>Multi-Flo FM - Series S (Single Header)</b>				<b>MERV 15</b>	<b>MERV 14</b>	<b>MERV 12</b>	<b>MERV 11</b>	
112-66□-001	24 x 24 x 12	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	2000	0.59	0.46	0.34	0.33	55
112-66□-002	12 x 24 x 12	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	1000	0.59	0.46	0.34	0.33	24
112-66□-003	24 x 24 x 6	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>7</sup> / <sub>8</sub>	1000	0.59	0.46	0.34	0.33	29
112-66□-004	12 x 24 x 6	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>7</sup> / <sub>8</sub>	500	0.59	0.46	0.34	0.33	13
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112-66□-006	20 x 24 x 12	19 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	1667	0.59	0.46	0.34	0.33	44
112-66□-007	20 x 24 x 6	19 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>7</sup> / <sub>8</sub>	834	0.59	0.46	0.34	0.33	24
112-66□-008	20 x 20 x 6	19 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 5 <sup>7</sup> / <sub>8</sub>	700	0.59	0.46	0.34	0.33	20
<b>Multi-Flo NHM - Series G (No Header)</b>				<b>MERV 14</b>	<b>MERV 13</b>	<b>MERV 11</b>	<b>MERV 10</b>	
112-60□-001	24 x 24 x 12	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	2000	0.60	0.47	0.35	0.34	61
112-60□-002	12 x 24 x 12	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	1000	0.60	0.47	0.35	0.34	30
112-60□-003	24 x 24 x 6	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>7</sup> / <sub>8</sub>	1000	0.60	0.47	0.35	0.34	33
112-60□-004	12 x 24 x 6	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>7</sup> / <sub>8</sub>	500	0.60	0.47	0.35	0.34	16
112-60□-005	20 x 20 x 12	19 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	1400	0.60	0.47	0.35	0.34	42
112-60□-006	20 x 24 x 12	19 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	1667	0.60	0.47	0.35	0.34	50
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112-60□-008	20 x 20 x 6	19 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 5 <sup>7</sup> / <sub>8</sub>	700	0.60	0.47	0.35	0.34	23
<b>Multi-Flo FM - Series G (Single Header)</b>				<b>MERV 14</b>	<b>MERV 13</b>	<b>MERV 11</b>	<b>MERV 10</b>	
112-61□-001	24 x 24 x 12	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	2000	0.68	0.55	0.43	0.42	55
112-61□-002	12 x 24 x 12	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	1000	0.68	0.55	0.43	0.42	24
112-61□-003	24 x 24 x 6	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>7</sup> / <sub>8</sub>	1000	0.68	0.55	0.43	0.42	29
112-61□-004	12 x 24 x 6	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 5 <sup>7</sup> / <sub>8</sub>	500	0.68	0.55	0.43	0.42	13
112-61□-005	20 x 20 x 12	19 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	1400	0.68	0.55	0.43	0.42	37
112-61□-006	20 x 24 x 12	19 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	1667	0.68	0.55	0.43	0.42	44
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□ Koch Part Number: Insert Efficiency Number (0 = 90-95%, 1 = 80-85%, 2 = 60-65%, 3 = 40-45%) in □ to complete part number. Example 112-60□-001 equals 90-95%.

### Additional Multi-Flo Information

1. Average Efficiency: ASHRAE 52.1-1992 and 52.2-2007 test standard
2. Final Resistance: 1.5" W.G.
3. Rated Velocity: 500 FPM - 12" Deep
4. Rated Velocity: 250 FPM - 6" Deep
5. UL Rating - Class 2 per UL Standard 900
6. Maximum Operating Temperature: 180 degrees Fahrenheit and 82 degrees Celsius
7. Tolerance: Height & Width - +0 / -1/8"
8. Tolerance: Depth - +/- 1/16"



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\*Denotes manufacturing site.

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**Koch Green** Look for the Koch Green icon! Whenever you see the Koch Green icon, we are identifying a product that meets or exceeds our criteria in one or more of the following categories: Earns LEED Points, Reduces Energy Costs, Extends Filter Lifecycles, Conserves Resources, and Improves Indoor Environmental Quality.

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