

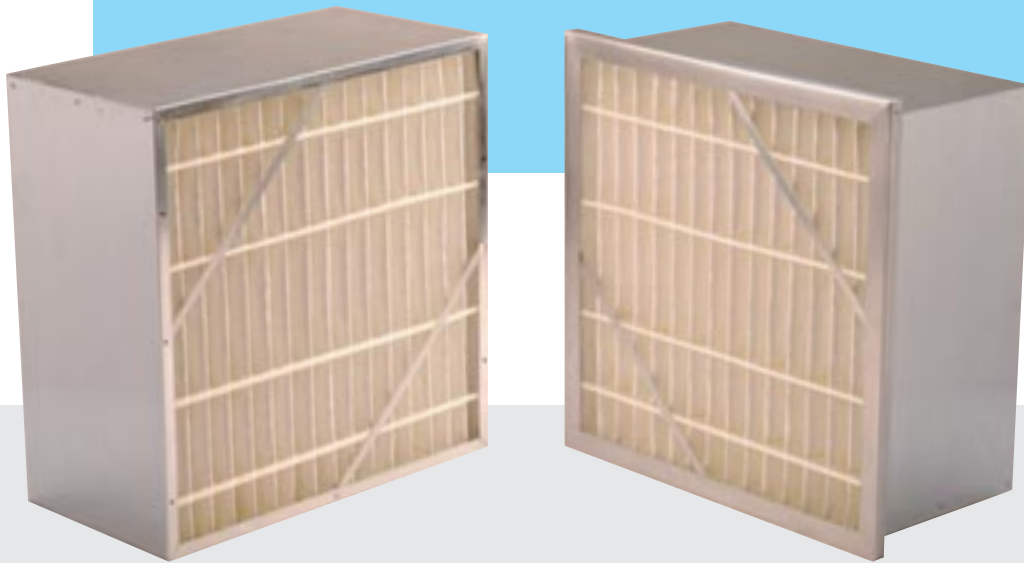


**Koch Filter Corporation**  
Filtration Products Crafted with Pride

Bulletin No. K-228-C

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

*Extended Surface Rigid Air Filters*



- **Rigid Construction for Variable-Air-Volume Systems**
- **Synthetic or Microfiberglass Media**
- **Durable Plastic Internal Supports**
- **Low Pressure Drop**

## 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

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



*Hospitals and Laboratories*



*Manufacturing Facilities*



*Office Buildings*

competitive rigid filters, and is 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.

### 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\*:

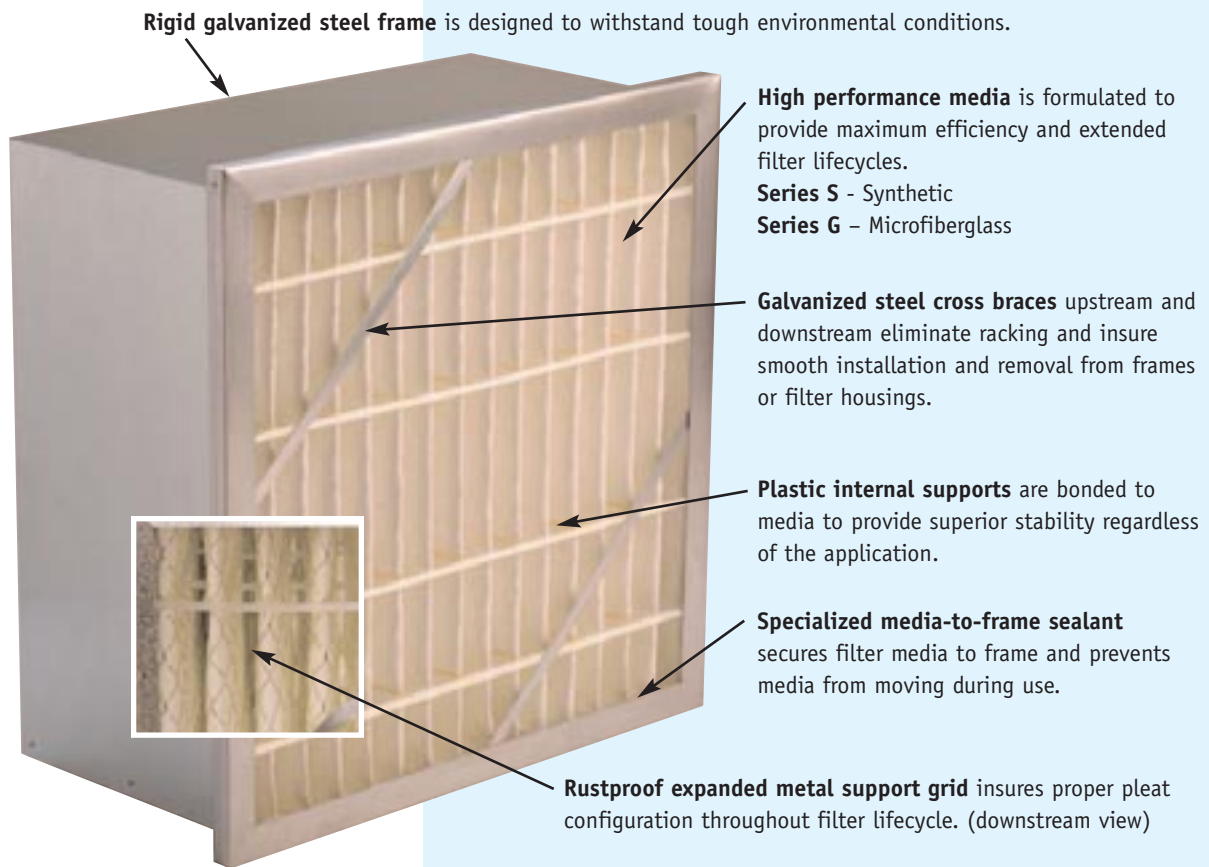
#### Series S Synthetic Media

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: 90-95%, 80-85%, 55-65%, and 35-45%.

#### Series G Microfiberglass Media

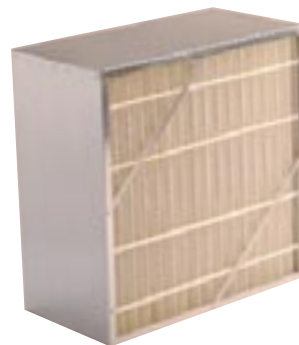
Multi-Flo Series G filters are constructed with a microfiberglass media. The ultrafine glass fibers used in Series G media are formed into a progressively dense high loft blanket which provides high dust holding and low resistance to airflow. The microfiberglass media used in Multi-Flo Series G is designed specifically for use in high efficiency air filtration and has a long record of proven reliability, even under extreme atmospheric conditions. To enhance media

## 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 7/8" header upstream for side access housings. Also available with 1-1/8" header (Style FM-C) if required.



Standard Non-Header Model



FM Single-Header Model

## Multi-Flo Series S –Synthetic Media Performance Data

Model No.	Nominal Size (WxHxD)	Capacity (CFM) 375/500/625 Feet Per Minute	Initial Resistance (in W.G.) 375/500/625 Feet Per Minute	Final Resistance (in W.G.)	Media Area (Sq.Ft.)
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### Multi-Flo S 90–95%\* (MERV 14\*\*)

KMF2000-9-S	24x24x12 "	1500/2000/2500	.47/.58/.73	1.50	60
KMF1000-9-S	12x24x12	750/1000/1250	.47/.58/.73	1.50	30
KMF1600-9-S	20x24x12	1250/1667/2100	.47/.58/.73	1.50	48
KMF1400-9-S	20x20x12	1050/1400/1750	.47/.58/.73	1.50	41
KMF1000-9-BS	24x24x6	750/1000/1250	.47/.58/.73	1.50	29
KMF500-9-BS	12x24x6	375/500/625	.47/.58/.73	1.50	15

### Multi-Flo S 85–90%\* (MERV 13\*\*)

KMF2000-8-S	24x24x12 "	1500/2000/2500	.34/.45/.60	1.50	60
KMF1000-8-S	12x24x12	750/1000/1250	.34/.45/.60	1.50	30
KMF1600-8-S	20x24x12	1250/1667/2100	.34/.45/.60	1.50	48
KMF1400-8-S	20x20x12	1050/1400/1750	.34/.45/.60	1.50	41
KMF1000-8-BS	24x24x6	750/1000/1250	.34/.45/.60	1.50	29
KMF500-8-BS	12x24x6	375/500/625	.34/.45/.60	1.50	15

### Multi-Flo S 65–65%\* (MERV 12\*\*)

KMF2000-6-S	24x24x12 "	1500/2000/2500	.25/.33/.42	1.50	60
KMF1000-6-S	12x24x12	750/1000/1250	.25/.33/.42	1.50	30
KMF1600-6-S	20x24x12	1250/1667/2100	.25/.33/.42	1.50	48
KMF1400-6-S	20x20x12	1050/1400/1750	.25/.33/.42	1.50	41
KMF1000-6-BS	24x24x6	750/1000/1250	.25/.33/.42	1.50	29
KMF500-6-BS	12x24x6	375/500/625	.25/.33/.42	1.50	15

### Multi-Flo S 35–45%\* (MERV 11\*\*)

KMF2000-4-S	24x24x12 "	1500/2000/2500	.24/.32/.41	1.50	60
KMF1000-4-S	12x24x12	750/1000/1250	.24/.32/.41	1.50	30
KMF1600-4-S	20x24x12	1250/1667/2100	.24/.32/.41	1.50	48
KMF1400-4-S	20x20x12	1050/1400/1750	.24/.32/.41	1.50	41
KMF1000-4-BS	24x24x6	750/1000/1250	.24/.32/.41	1.50	29
KMF500-4-BS	12x24x6	375/500/625	.24/.32/.41	1.50	15

#### Additional Data

Multi-Flo filters are color coded to indicate efficiency:

Series S: ■ 90-95%, ■ 85-90%, ■ 60-65%, ■ 35-45%,

Series G: ■ 90-95%, ■ 85-90%, ■ 60-65%, ■ 35-45%,

- Model Numbers listed above apply to standard non-header units. Add suffix "FM" if single upstream header is required, or FM-C if single 1-1/8" upstream header is required. (ex. KMF2000-9-G-FM)
- Rated efficiencies listed above are based on ASHRAE test data.
- Sizes listed are nominal. Actual sizes are:
  - Nominal 12" deep units: Less 5/8" on height and width. Less 1/2" on depth.
  - Nominal 6" deep units: Less 5/8" on height and width. Less 1/8" on depth.
- Multi-Flo filters are listed as Class 2 according to Underwriter's Laboratories Standard 900.
- Multi-Flo filters are designed for systems with operating temperatures up to 190°F.
- System design may dictate a lower final pressure drop than those recommended above.

\* Based on ASHRAE Test Standard 52.1.

\*\* Based on ASHRAE Test Standard 52.2.

## Multi-Flo Series G –Microfiberglass Media Performance Data

Model No.	Nominal Size (WxHxD)	Capacity (CFM) 375/500/625 Feet Per Minute	Initial Resistance (in W.G.) 375/500/625 Feet Per Minute	Final Resistance (in W.G.)	Media Area (Sq.Ft.)
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### Multi-Flo G 90–95%\* (MERV 14\*\*)

KMF20009-G	24x24x12 "	1500/2000/2500	.49/.60/.77	1.50	60
KMF10009-G	12x24x12	750/1000/1250	.49/.60/.77	1.50	30
KMF16009-G	20x24x12	1250/1667/2100	.49/.60/.77	1.50	48
KMF14009-G	20x20x12	1050/1400/1750	.49/.60/.77	1.50	41
KMF10009-BG	24x24x6	750/1000/1250	.49/.60/.77	1.50	29
KMF5009-BG	12x24x6	375/500/625	.49/.60/.77	1.50	15

### Multi-Flo G 85–90%\* (MERV 13\*\*)

KMF20008-G	24x24x12 "	1500/2000/2500	.36/.47/.63	1.50	60
KMF10008-G	12x24x12	750/1000/1250	.36/.47/.63	1.50	30
KMF16008-G	20x24x12	1250/1667/2100	.36/.47/.63	1.50	48
KMF14008-G	20x20x12	1050/1400/1750	.36/.47/.63	1.50	41
KMF10008-BG	24x24x6	750/1000/1250	.36/.47/.63	1.50	29
KMF5008-BG	12x24x6	375/500/625	.36/.47/.63	1.50	15

### Multi-Flo G 55–65%\* (MERV 12\*\*)

KMF20006-G	24x24x12 "	1500/2000/2500	.26/.35/.44	1.50	60
KMF10006-G	12x24x12	750/1000/1250	.26/.35/.44	1.50	30
KMF16006-G	20x24x12	1250/1667/2100	.26/.35/.44	1.50	48
KMF14006-G	20x20x12	1050/1400/1750	.26/.35/.44	1.50	41
KMF10006-BG	24x24x6	750/1000/1250	.26/.35/.44	1.50	29
KMF5006-BG	12x24x6	375/500/625	.26/.35/.44	1.50	15

### Multi-Flo G 35–45%\* (MERV 11\*\*)

KMF20004-G	24x24x12 "	1500/2000/2500	.25/.34/.43	1.50	60
KMF10004-G	12x24x12	750/1000/1250	.25/.34/.43	1.50	30
KMF16004-G	20x24x12	1250/1667/2100	.25/.34/.43	1.50	48
KMF14004-G	20x20x12	1050/1400/1750	.25/.34/.43	1.50	41
KMF10004-BG	24x24x6	750/1000/1250	.25/.34/.43	1.50	29
KMF5004-BG	12x24x6	375/500/625	.25/.34/.43	1.50	15





## **Koch Filter Corporation**

**Filtration Products Crafted with Pride**

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***Koch Filter Corporation** maintains a policy of continuous product research and improvement, and retains the right to change product specifications and design without notice.*

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