Multi-Flo™ S

Medium & High Efficiency Synthetic Rigid Extended Surface Air Filters

FEATURES

- Low pressure
- Reduced energy costs
- Durable plastic internal supports
- Available in MERV 13, 14 and 15
- High efficiency synthetic media
- Rigid construction for variable-air-volume systems

Multi-Flo S Medium and High Efficiency

The Koch Multi-Flo S 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. 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 S is interchangeable with all makes and models of competitive rigid filters. They are available in a single-header, double header or no header configurations, making it easy to install in any side access or front access housing. Each filter is completely disposable and is furnished ready for installation.

Synthetic Media

The media used in Multi-Flo 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 S is available in three ASHRAE efficiency ranges (MERV 13-15) to meet the unique demands of every application.

Header Configurations

Header and no-header models are furnished with 5/13"- 3/15" clip accomodations holes for front load filter banks.

Headered models are equipped with a 13/16" headers for side access housings.

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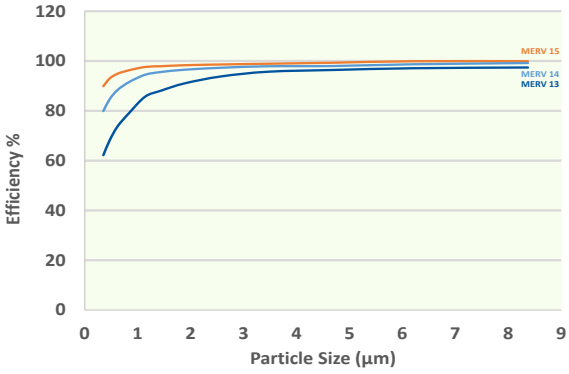
PURE PERFORMANCE

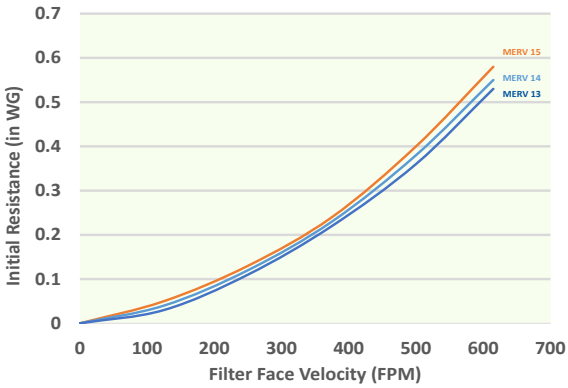
Multi-Flo™ FM Performance Data

Efficiency	Intial Reistance (inches w.g.)	Final Resistance (inches w.g.)
MERV 15	0.40	1.5
MERV 14	0.38	1.5
MERV 13	0.36	1.5

Initial Resistance vs. Air Flow Rate



Efficiency by Particle Size



Part Number (No Header)	Nominal Size* WxHxD	Actual Size WxHxD	Capacity (CFM) 300 FPM	Media Area Sq. Ft.
112-660-001	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	2000	55
112-660-002	12 x 24 x 12	11-3/8 x 23-3/8 x 11-1/2	1000	24
112-660-003	24 x 24 x 6	23-3/8 x 23-3/8 x 5-7/8	1000	29
112-660-004	12 x 24 x 6	11-3/8 x 23-3/8 x 5-7/8	500	13
112-660-005	20 x 20 x 12	19-3/8 x 19-3/8 x 11-1/2	1400	37
112-660-006	20 x 24 x 12	19-3/8 x 23-3/8 x 11-1/2	1675	44
112-660-007	20 x 20 x 6	19-3/8 x 19-3/8 x 5-7/8	700	24
112-660-008	20 x 24 x 6	19-3/8 x 23-3/8 x 5-7/8	837	20
112-661-001	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	2000	55
112-661-002	12 x 24 x 12	11-3/8 x 23-3/8 x 11-1/2	1000	24
112-661-003	24 x 24 x 6	23-3/8 x 23-3/8 x 5-7/8	1000	29
112-661-004	12 x 24 x 6	11-3/8 x 23-3/8 x 5-7/8	500	13
112-661-005	20 x 20 x 12	19-3/8 x 19-3/8 x 11-1/2	1400	37
112-661-006	20 x 24 x 12	19-3/8 x 23-3/8 x 11-1/2	1675	44
112-661-007	20 x 20 x 6	19-3/8 x 19-3/8 x 5-7/8	700	24
112-661-008	20 x 24 x 6	19-3/8 x 23-3/8 x 5-7/8	837	20
112-662-001	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	2000	55
112-662-002	12 x 24 x 12	11-3/8 x 23-3/8 x 11-1/2	1000	24
112-662-003	24 x 24 x 6	23-3/8 x 23-3/8 x 5-7/8	1000	29
112-662-004	12 x 24 x 6	11-3/8 x 23-3/8 x 5-7/8	500	13
112-662-005	20 x 20 x 12	19-3/8 x 19-3/8 x 11-1/2	1400	37
112-662-006	20 x 24 x 12	19-3/8 x 23-3/8 x 11-1/2	1675	44
112-662-007	20 x 20 x 6	19-3/8 x 19-3/8 x 5-7/8	700	24
112-662-008	20 x 24 x 6	19-3/8 x 23-3/8 x 5-7/8	837	20

Engineering Specifications

1.0 General Specifications

1.1 Filters shall be Multi-Flo high efficiency ASHRAE filters manufactured by Koch Filter.
1.2 Filters shall be available in nominal depths of 12" or 6", sizes noted on drawings or supporting sales literature.
1.3 Filters are classified by Underwriters Laboratories to UL 900.
1.4 Filters are manufactured by an ISO 9001 registered company.

2.0 Filter Material and Construction

2.1 Media shall be 100% synthetic media.
2.2 Media shall be chemically bonded to the filter frame to prevent air bypass.
2.3 Filters shall have an expanded galvanized steel support grid bonded to the air-exiting side of the filter to maintain pleat uniformity and prevent fluttering.
2.4 Filter frame shall be comprised of corrosion resistant galvanized steel. The media pleat configuration will be maintained by plastic pleat stabilizers (fingers).

3.0 Filter Performance

3.1 Filters shall be MERV 15, MERV 14 or MERV 13 when tested in accordance with ASHRAE 52.2 Test Standard.
3.2 For initial resistance of filters, see Performance Data chart above.
3.3 Filters shall be rated to withstand a continuous operating temperature up to 180°F.
3.4 Filters shall have a recommended final resistance of 1.5" w.g.

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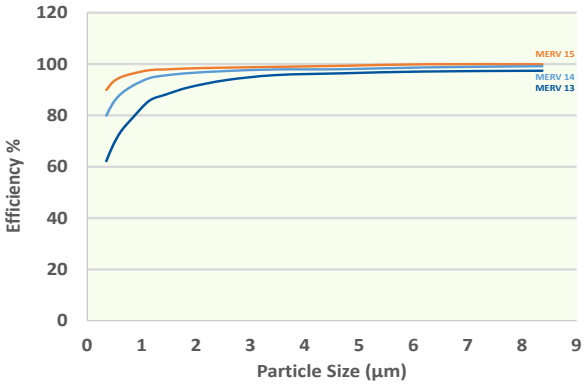
KOCH FILTER
PURE PERFORMANCE

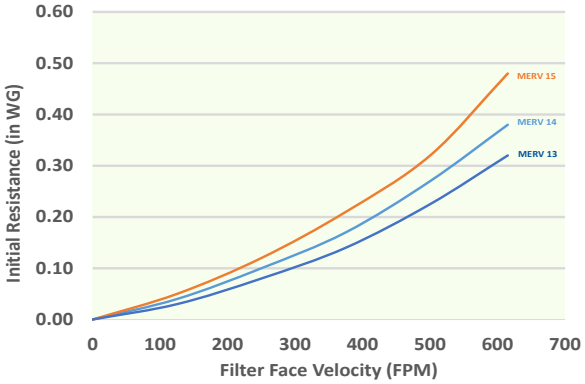
Multi-Flo™ NHM Performance Data

Efficiency	Intial Reistance (inches w.g.)	Final Resistance (inches w.g.)
MERV 15	0.32	1.5
MERV 14	0.27	1.5
MERV 13	0.23	1.5

Initial Resistance vs. Air Flow Rate



Efficiency by Particle Size



Part Number (No Header)	Nominal Size*	Actual Size	Capacity (CFM)	Media Area
	WxHxD	WxHxD	300 FPM	Sq. Ft.
112-650-001	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	2000	61
112-650-002	12 x 24 x 12	11-3/8 x 23-3/8 x 11-1/2	1000	30
112-650-003	24 x 24 x 6	23-3/8 x 23-3/8 x 5-7/8	1000	33
112-650-004	12 x 24 x 6	11-3/8 x 23-3/8 x 5-7/8	500	16
112-650-005	20 x 20 x 12	19-3/8 x 19-3/8 x 11-1/2	1400	42
112-650-006	20 x 24 x 12	19-3/8 x 23-3/8 x 11-1/2	1675	50
112-650-007	20 x 20 x 6	19-3/8 x 19-3/8 x 5-7/8	700	27
112-650-008	20 x 24 x 6	19-3/8 x 23-3/8 x 5-7/8	837	23
112-651-001	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	2000	61
112-651-002	12 x 24 x 12	11-3/8 x 23-3/8 x 11-1/2	1000	30
112-651-003	24 x 24 x 6	23-3/8 x 23-3/8 x 5-7/8	1000	33
112-651-004	12 x 24 x 6	11-3/8 x 23-3/8 x 5-7/8	500	16
112-651-005	20 x 20 x 12	19-3/8 x 19-3/8 x 11-1/2	1400	42
112-651-006	20 x 24 x 12	19-3/8 x 23-3/8 x 11-1/2	1675	50
112-651-007	20 x 20 x 6	19-3/8 x 19-3/8 x 5-7/8	700	27
112-651-008	20 x 24 x 6	19-3/8 x 23-3/8 x 5-7/8	837	23
112-652-001	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	2000	61
112-652-002	12 x 24 x 12	11-3/8 x 23-3/8 x 11-1/2	1000	30
112-652-003	24 x 24 x 6	23-3/8 x 23-3/8 x 5-7/8	1000	33
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2.0 Filter Material and Construction

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2.3 Filters shall have an expanded galvanized steel support grid bonded to the air-exiting side of the filter to maintain pleat uniformity and prevent fluttering.
2.4 Filter frame shall be comprised of corrosion resistant galvanized steel. The media pleat configuration will be maintained by plastic pleat stabilizers (fingers).

3.0 Filter Performance

3.1 Filters shall be MERV 15, MERV 14 or MERV 13 when tested in accordance with ASHRAE 52.2 Test Standard.
3.2 For initial resistance of filters, see Performance Data chart above.
3.3 Filters shall be rated to withstand a continuous operating temperature up to 180˚F.
3.4 Filters shall have a recommended final resistance of 1.5" w.g.

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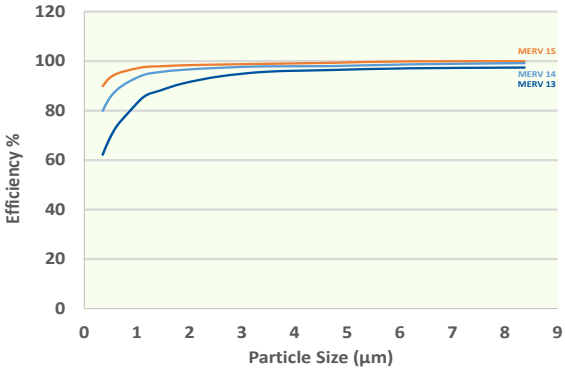
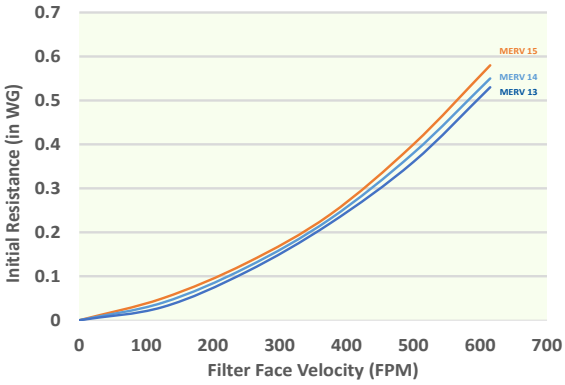
MERV 13	0.36	1.5

Initial Resistance vs. Air Flow Rate



Efficiency by Particle Size



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112-671-008	20 x 24 x 6	19-3/8 x 23-3/8 x 5-7/8	837	20
112-672-001	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	2000	55
112-672-002	12 x 24 x 12	11-3/8 x 23-3/8 x 11-1/2	1000	24
112-672-003	24 x 24 x 6	23-3/8 x 23-3/8 x 5-7/8	1000	29
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