

PREpleat® M11 SC

(MERV 11 Standard Capacity)

EXTENDED SURFACE PLEATED PANEL FILTERS

- High efficiency with low initial resistance
- 100% synthetic recyclable high-loft media
- 2-piece heavy-duty die-cut frame
- Expanded metal backing
- Double-wall frame
- Diagonal grid supports for maximum strength
- MERV 11

The PREpleat M11 SC pleated panel filter enables a significant upgrade in collection efficiency over existing MERV 8 products. A 25–30% average efficiency filter can be upgraded to 60–65% efficiency at roughly the same resistance levels, when this filter is utilized.

Superior Design and Construction

Media: Progressive density bi-component fibers.

Airflow Resistance on 24" x 24" x 2": 0.34" w.g. @ 2000 CFM (500 FPM).

Media Support: Diamond-shaped expanded metal.

Pleat Design: V-Pleat design aids in pressure drop while reducing energy cost. Design allows for maximum airflow and Dust Holding Capacity (DHC) during the life of the filter.

Frame: Moisture-resistant clay coated frame.

Bi-Component Media: Ultra-high performance bi-component synthetic media contains electrostatically engineered trilobal fibers within homogenous domains of positive and negative Electret charges. These Electret charges in the bi-component fibers contribute to an ultra-high performance product.

Enhanced Fibers: Electrostatically enhanced fibers are precisely structured into a progressive density gradient structure to enhance airflow throughput with less resistance while providing high DHC and ultra-high efficiency during operational life.

Gradient Media Structure: Proprietary gradient media structure enables larger incoming contaminants to be trapped in the prefilter layer, thus allowing the highly charged secondary layer to attract and hold smaller particulate. This increases the life of more expensive final filters downstream.

High Efficiency at Low Pressure Drop: This proprietary media, combined with AAF's unique V-Pleat manufacturing design, equals the highest performance pleat available on the market today.

Applications

PREpleat M11 SC filters are designed for general air filtration in all types of cooling, heating, and ventilating systems. They can be used as prefilters to extend the life of higher efficiency filters or on their own. They are suitable for installation in front access holding frames and side access housings. These filters are excellent for upgrading from disposable panel filters, permanent filters, or media pads in metal frames where a higher level of cleaning is desired.



PREpleat® M11 SC Filters

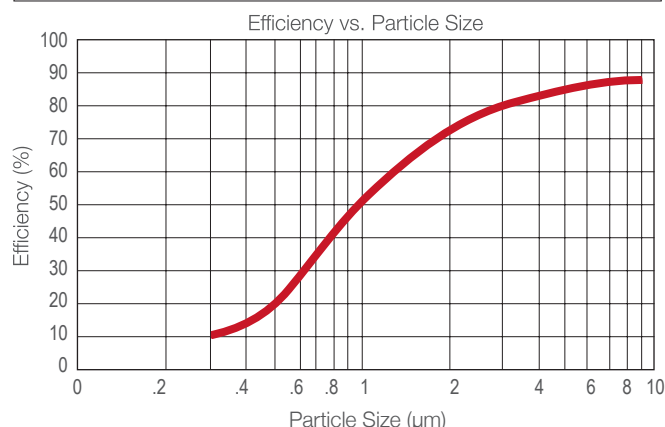
Performance Data

Filter	Pleats Per Linear Foot	Rated Initial Resistance (in. w.g.)		Recommended Final Resistance (in. w.g.)	ASHRAE 52.2 MERV	Continuous Operating Temperature Limits
		300 FPM	500 FPM			
1" PREpleat M11 SC	13	0.16	0.39	1.0	11	180°F (82°C)
2" PREpleat M11 SC	10	0.14	0.34	1.0	11	180°F (82°C)
4" PREpleat M11 SC	9	0.12	0.25	1.0	11	180°F (82°C)

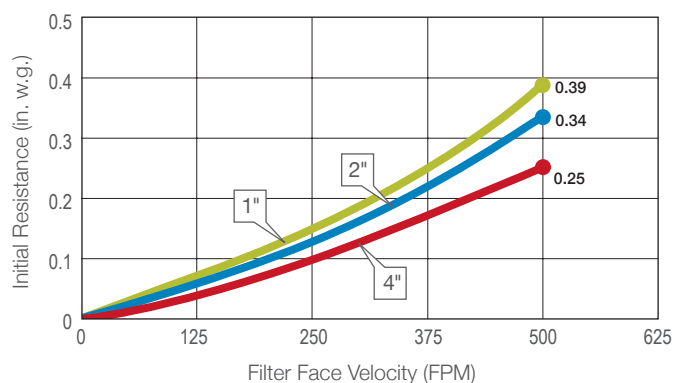
All performance data based on ASHRAE Standard 52.2. Performance tolerance conforms to Section 6.4 of ANSI/AHRI Standard 850-2013.

Underwriters Laboratories Classification – PREpleat M11 SC filters are UL Classified. Testing was performed according to UL Standard 900.

Composite Minimum Efficiency Curve



Initial Resistance vs. Filter Face Velocity



Energy savings may be realized by operating the PREpleat M11 SC filters to a lower final resistance. Contact your local AAF representative for a Total Cost of Ownership analysis for your specific application.

PREpleat® is a registered trademark of AAF International in the U.S.

Product Information – Standard Sizes

Nominal Sizes (Inches) (W x H x D)	Actual Sizes (Inches) (W x H x D)	Rated Airflow (SCFM)			Pleats Per Filter	Gross Media Area (sq. ft.)
		300 FPM	500 FPM	625 FPM		
10 x 10 x 1	9½ x 9½ x ¾	200	350	—	10	1.1
10 x 20 x 1	9½ x 19½ x ¾	400	700	—	10	2.3
12 x 20 x 1	11½ x 19½ x ¾	500	850	—	12	2.8
12 x 24 x 1	11½ x 23½ x ¾	600	1000	—	12	3.3
14 x 20 x 1	13½ x 19½ x ¾	600	950	—	15	3.5
14 x 25 x 1	13½ x 24½ x ¾	750	1200	—	15	4.3
15 x 20 x 1	14½ x 19½ x ¾	650	1050	—	16	3.7
16 x 20 x 1	15½ x 19½ x ¾	650	1100	—	17	3.9
16 x 25 x 1	15½ x 24½ x ¾	850	1400	—	17	4.9
18 x 20 x 1	17½ x 19½ x ¾	750	1250	—	19	4.4
18 x 24 x 1	17½ x 23½ x ¾	900	1500	—	19	5.3
18 x 25 x 1	17½ x 24½ x ¾	950	1550	—	19	5.5
20 x 20 x 1	19½ x 19½ x ¾	850	1400	—	21	4.8
20 x 24 x 1	19½ x 23½ x ¾	1000	1650	—	21	5.8
20 x 25 x 1	19½ x 24½ x ¾	1050	1750	—	21	6.1
20 x 30 x 1	19½ x 29½ x ¾	1250	2050	—	32	7.4
24 x 24 x 1	23½ x 23½ x ¾	1200	2000	—	25	6.9
25 x 25 x 1	24½ x 24½ x ¾	1300	2150	—	26	7.5
10 x 20 x 2	9½ x 19½ x 1¾	400	700	850	8	4.0
12 x 20 x 2	11½ x 19½ x 1¾	500	850	1050	9	4.5
12 x 24 x 2	11½ x 23½ x 1¾	600	1000	1250	9	5.5
14 x 20 x 2	13½ x 19½ x 1¾	600	950	1150	11	5.6
14 x 25 x 2	13½ x 24½ x 1¾	750	1200	1500	11	7.0
15 x 20 x 2	14½ x 19½ x 1¾	650	1050	1300	12	6.1
16 x 20 x 2	15½ x 19½ x 1¾	650	1100	1400	13	6.6
16 x 24 x 2	15½ x 23½ x 1¾	800	1350	1650	13	7.9
16 x 25 x 2	15½ x 24½ x 1¾	850	1400	1750	13	8.2
18 x 20 x 2	17½ x 19½ x 1¾	750	1250	1550	14	7.1
18 x 24 x 2	17½ x 23½ x 1¾	900	1500	1900	15	9.1
18 x 25 x 2	17½ x 24½ x 1¾	950	1550	1950	15	9.5
20 x 20 x 2	19½ x 19½ x 1¾	850	1400	1750	16	8.1
20 x 24 x 2	19½ x 23½ x 1¾	1000	1650	2100	16	9.7
20 x 25 x 2	19½ x 24½ x 1¾	1050	1750	2150	16	10.1
20 x 30 x 2	19½ x 29½ x 1¾	1250	2050	2600	25	12.6
24 x 24 x 2	23½ x 23½ x 1¾	1200	2000	2500	19	11.5
25 x 25 x 2	24½ x 24½ x 1¾	1300	2150	2700	20	12.7
12 x 24 x 4	11½ x 23½ x 3¾	600	1000	1250	9	11.4
16 x 20 x 4	15½ x 19½ x 3¾	650	1000	1400	12	12.7
16 x 25 x 4	15½ x 24½ x 3¾	850	1400	1750	12	15.9
18 x 24 x 4	17½ x 23½ x 3¾	900	1500	1875	14	17.8
20 x 20 x 4	19½ x 19½ x 3¾	850	1400	1750	15	15.8
20 x 24 x 4	19½ x 23½ x 3¾	1000	1650	2100	15	19.0
20 x 25 x 4	19½ x 24½ x 3¾	1050	1750	2150	15	19.9
24 x 24 x 4	23½ x 23½ x 3¾	1200	2000	2500	18	22.9
25 x 29 x 4	24½ x 28½ x 3¾	1500	2500	3150	22	29.1



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