

# PREpleat<sup>®</sup> M13

(MERV 13)

## 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 13

The PREpleat M13 pleated filter has a low initial resistance and supports achievement of LEED<sup>®</sup> credits by significantly improving Indoor Air Quality (IAQ) and reducing energy consumption.

The PREpleat M13 filter provides an initial efficiency of MERV 13 per ASHRAE Standard 52.2 at a resistance of only .20" w.g. (2" depth) when operating at airflow velocity of 375 FPM—and only 0.30" at 500 FPM.

### Superior Design and Construction

**Media:** 100% non-woven synthetic media manufactured from recyclable material.

**Media Support:** Diamond-shaped expanded metal maintains maximum support while avoiding air bypass.

**Pleat Design:** V-Pleat design minimizes resistance, keeping consistent pleat count, height, and shape.

**Frame:** Heavy-duty two-piece moisture-resistant frame includes diagonal and horizontal support members bonded to the media on the air entering and leaving sides. This is a durable frame for any commercial and industrial application.

**Operating Temperature Limits:** Maximum operating temperature is 180°F (82°C).

### Applications

PREpleat M13 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® M13 Filters

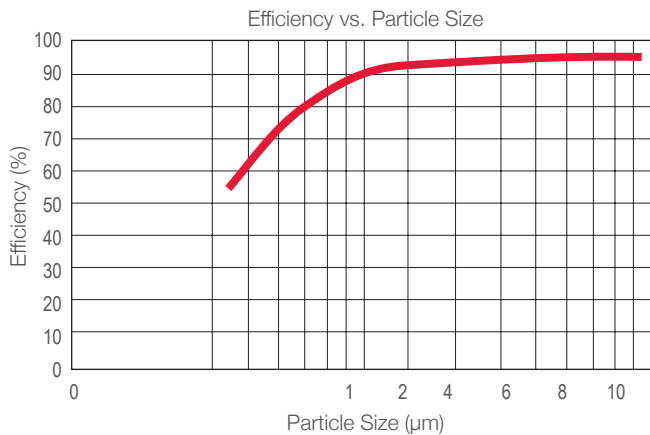
## Performance Data

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 M13	15	.25	–	1.0	13	180°F (82°C)
2" PREpleat M13	15	.16	.30	1.0	13	180°F (82°C)
4" PREpleat M13	9	.10	.20	1.0	13	180°F (82°C)

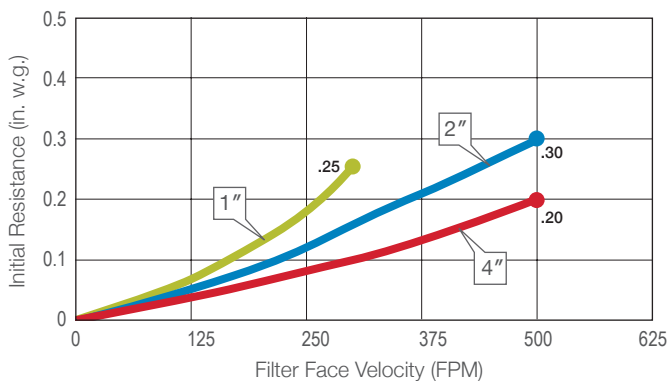
All performance data based on ASHRAE Standard 52.2. Performance tolerance conforms to Section 6.4 of ANSI/AHRI Standard 850-2013.

**Underwriters Laboratories Classification** – PREpleat M13 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 M13 filters to a lower final resistance. Contact your local AAF Flanders representative for a Total Cost of Ownership analysis for your specific application.

## 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 20 x 1	9½ x 19½ x ¾	400	700	–	12	2.7
12 x 20 x 1	11½ x 19½ x ¾	500	850	–	14	3.1
12 x 24 x 1	11¾ x 23¾ x ¾	600	1000	–	14	3.7
14 x 20 x 1	13½ x 19½ x ¾	600	950	–	17	3.7
14 x 25 x 1	13½ x 24½ x ¾	750	1200	–	17	4.6
15 x 20 x 1	14½ x 19½ x ¾	650	1050	–	18	3.9
16 x 20 x 1	15½ x 19½ x ¾	650	1100	–	19	4.1
16 x 24 x 1	15½ x 23½ x ¾	800	1350	–	19	4.9
16 x 25 x 1	15½ x 24½ x ¾	850	1400	–	19	5.2
18 x 20 x 1	17½ x 19½ x ¾	750	1250	–	22	4.7
18 x 24 x 1	17½ x 23½ x ¾	900	1500	–	22	5.7
18 x 25 x 1	17½ x 24½ x ¾	950	1550	–	22	5.9
20 x 20 x 1	19½ x 19½ x ¾	850	1400	–	24	5.1
20 x 24 x 1	19½ x 23½ x ¾	1000	1650	–	24	6.2
20 x 25 x 1	19½ x 24½ x ¾	1050	1750	–	24	6.4
24 x 24 x 1	23¾ x 23¾ x ¾	1200	2000	–	29	7.4
25 x 25 x 1	24½ x 24½ x ¾	1300	2150	–	31	8.3
10 x 20 x 2	9½ x 19½ x 1¼	400	700	850	12	6.1
12 x 20 x 2	11½ x 19½ x 1¼	500	850	1050	14	7.3
12 x 24 x 2	11¾ x 23¾ x 1¼	600	1000	1250	14	8.8
14 x 20 x 2	13½ x 19½ x 1¼	600	950	1150	17	8.5
14 x 25 x 2	13½ x 24½ x 1¼	750	1200	1500	17	10.6
15 x 20 x 2	14½ x 19½ x 1¼	650	1050	1300	18	9.1
16 x 20 x 2	15½ x 19½ x 1¼	650	1100	1400	19	9.7
16 x 24 x 2	15½ x 23½ x 1¼	800	1350	1650	19	11.2
16 x 25 x 2	15½ x 24½ x 1¼	850	1400	1750	19	12.2
18 x 20 x 2	17½ x 19½ x 1¼	750	1250	1500	22	10.9
18 x 24 x 2	17½ x 23½ x 1¼	900	1500	1875	22	13.1
18 x 25 x 2	17½ x 24½ x 1¼	950	1550	1950	22	13.7
20 x 20 x 2	19½ x 19½ x 1¼	850	1400	1750	24	12.2
20 x 24 x 2	19½ x 23½ x 1¼	1000	1650	2100	24	14.6
20 x 25 x 2	19½ x 24½ x 1¼	1050	1750	2150	24	15.2
24 x 24 x 2	23¾ x 23¾ x 1¼	1200	2000	2500	29	17.5
25 x 25 x 2	24½ x 24½ x 1¼	1300	2150	2700	31	19.0
12 x 24 x 4	11¾ x 23¾ x 3¼	600	1000	1250	9	11.3
16 x 20 x 4	15½ x 19½ x 3¼	650	1100	1400	12	12.5
16 x 25 x 4	15½ x 24½ x 3¼	850	1400	1750	12	15.6
18 x 24 x 4	17½ x 23½ x 3¼	900	1500	1875	14	17.5
20 x 20 x 4	19½ x 19½ x 3¼	850	1400	1750	15	15.6
20 x 24 x 4	19½ x 23½ x 3¼	1000	1650	2100	15	18.8
20 x 25 x 4	19½ x 24½ x 3¼	1050	1750	2150	15	19.6
24 x 24 x 4	23¾ x 23¾ x 3¼	1200	2000	2500	18	22.6
28 x 30 x 4	27½ x 29½ x 3¼	1750	2900	–	21	32.6

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