

PREpleat® M13

(MERV 13/11A)

EXTENDED SURFACE PLEATED PANEL FILTERS



Benefits:

- **Improved Indoor Air Quality:** Helps reduce airborne contaminants for cleaner, healthier environments
- **Energy Savings:** Low initial resistance supports reduced HVAC energy consumption
- **Sustainable Choice:** Made from recyclable materials, contributing to eco-friendly building initiatives
- **Enhanced Durability:** Heavy-duty, moisture-resistant frame designed for long-lasting performance
- **Cost-Effective Maintenance:** Serves as a reliable prefilter, extending the life of higher efficiency filters and reducing maintenance costs

Ideal Applications:

- PREpleat M13 (MERV 13/11A) filters are perfect for a wide range of heating, ventilation, and air conditioning (HVAC) systems
- Serve as excellent prefilters, extending the life of more expensive, high-efficiency filters
- Upgrading from disposable filters, permanent filters, or media pads in metal frames, providing cleaner air and better filtration performance

Designed For:

- Commercial and Industrial Facilities
- Healthcare Facilities
- Government & Public Sector Buildings
- Educational Institutions
- Hospitality Industry
- Manufacturing & Industrial Plants

Enhance Air Quality and Reduce PM2.5 Exposure

The PREpleat M13 (MERV 13/11A) filter is engineered to provide optimal air quality with sustained high efficiency over time. Unlike standard 2" MERV 11 and MERV 13 pleated filters that can lose performance in as little as one week, the PREpleat's design ensures consistent removal of viruses and other airborne pathogens for healthier environments throughout the duration of its life. The low initial resistance enhances performance, reduces energy consumption and supports LEED accreditation. This filter also effectively removes a percentage of PM2.5 particulates, including bioaerosols and other small contaminants that have been documented to affect human health.

Compliance with ASHRAE 241

The M13/11A was created to help meet the recommendations of the new ASHRAE 241 "Control of Infectious Aerosols" standard, which aims to reduce the spread of infectious aerosols in buildings. This filter meets the recommended filtration requirements for indoor environments, including offices, commercial spaces, and homes.

Superior Design and Construction

Media: 100% non-woven synthetic media made from recyclable materials, ensuring long-lasting performance and eco-friendly benefits.

Media Support: Diamond-shaped expanded metal support prevents air bypass, ensuring the filter performs optimally across its lifespan.

Pleat Design: The V-Pleat design enhances airflow while maintaining consistent pleat count, height, and shape, resulting in lower energy costs and higher efficiency.

Frame: The heavy-duty, moisture-resistant frame is built to last. It includes diagonal and horizontal support members bonded to the media for maximum durability in commercial and industrial applications.

Operating Temperature Limits: Built to withstand operating temperatures up to 180°F (82°C), making it versatile for a wide range of environments.

Recommended Maintenance

To maintain peak performance, a planned maintenance schedule of every three months is recommended. This ensures sustained filtration efficiency and viral load reduction.

PREpleat® M13/11A Filters

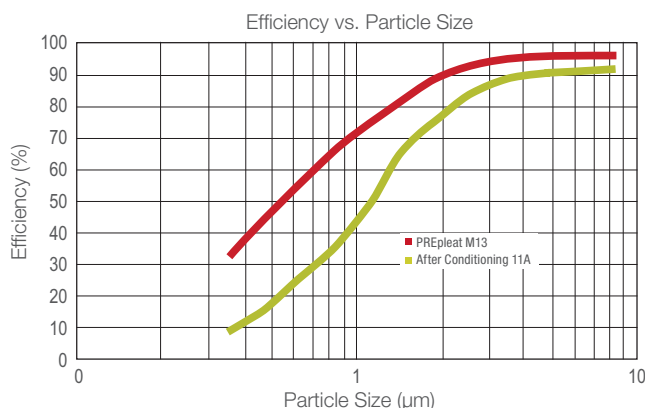
Performance Data

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	.34	–	1.0	13/11A	180°F (82°C)
2" PREpleat M13	15	.21	.39	1.0	13/11A	180°F (82°C)
4" PREpleat M13	9	.14	.32	1.0	13/11A	180°F (82°C)

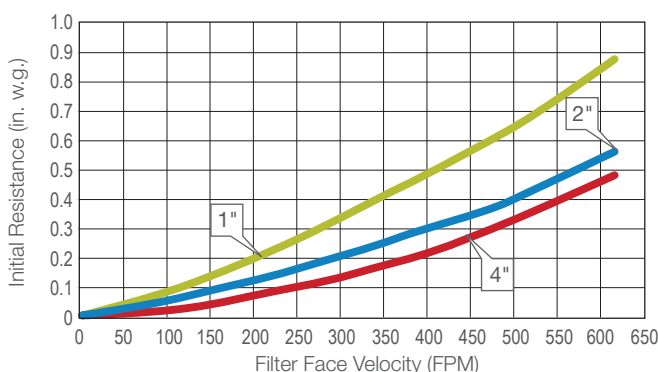
All performance data based on ASHRAE Standard 52.2. Performance tolerance conforms to Section 6.4 of ANSI/AHRI Standard 850-2013.

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 M13/11A filters to a lower final resistance. Contact your local AAF 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	11½ x 23½ x ¾	600	1000	–	14	3.7
14 x 20 x 1	13½ x 19½ x ¾	600	950	–	17	4.0
14 x 25 x 1	13½ x 24½ x ¾	750	1200	–	17	4.7
15 x 20 x 1	14½ x 19½ x ¾	650	1050	–	18	4.0
16 x 20 x 1	15½ x 19½ x ¾	650	1100	–	19	4.2
16 x 24 x 1	15½ x 23½ x ¾	800	1350	–	19	5.1
16 x 25 x 1	15½ x 24½ x ¾	850	1400	–	19	5.3
18 x 20 x 1	17½ x 19½ x ¾	750	1250	–	22	4.9
18 x 24 x 1	17½ x 23½ x ¾	900	1500	–	22	5.9
18 x 25 x 1	17½ x 24½ x ¾	950	1550	–	22	6.1
20 x 20 x 1	19½ x 19½ x ¾	850	1400	–	24	5.3
20 x 24 x 1	19½ x 23½ x ¾	1000	1650	–	24	6.4
20 x 25 x 1	19½ x 24½ x ¾	1050	1750	–	24	6.7
24 x 24 x 1	23½ x 23½ x ¾	1200	2000	–	29	7.7
25 x 25 x 1	24½ x 24½ x ¾	1300	2150	–	31	8.6
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	7.1
12 x 24 x 2	11½ x 23½ x 1¼	600	1000	1250	14	8.5
14 x 20 x 2	13½ x 19½ x 1¼	600	950	1150	17	8.6
14 x 25 x 2	13½ x 24½ x 1¼	750	1200	1500	17	10.8
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	9.6
16 x 24 x 2	15½ x 23½ x 1¼	800	1350	1650	19	11.5
16 x 25 x 2	15½ x 24½ x 1¼	850	1400	1750	19	12.0
18 x 20 x 2	17½ x 19½ x 1¼	750	1250	1500	22	11.1
18 x 24 x 2	17½ x 23½ x 1¼	900	1500	1875	22	13.4
18 x 25 x 2	17½ x 24½ x 1¼	950	1550	1950	22	13.9
20 x 20 x 2	19½ x 19½ x 1¼	850	1400	1750	24	12.1
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	23½ x 23½ x 1¼	1200	2000	2500	29	17.6
25 x 25 x 2	24½ x 24½ x 1¼	1300	2150	2700	31	19.6
12 x 24 x 4	11½ x 23½ x 3¼	600	1000	1250	9	11.4
16 x 20 x 4	15½ x 19½ x 3¼	650	1100	1400	12	12.7
16 x 25 x 4	15½ x 24½ x 3¼	850	1400	1750	12	15.9
18 x 24 x 4	17½ x 23½ x 3¼	900	1500	1875	14	17.8
20 x 20 x 4	19½ x 19½ x 3¼	850	1400	1750	14	14.8
20 x 24 x 4	19½ x 23½ x 3¼	1000	1650	2100	15	19.0
20 x 25 x 4	19½ x 24½ x 3¼	1050	1750	2150	15	19.9
24 x 24 x 4	23½ x 23½ x 3¼	1200	2000	2500	18	22.9

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



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