

PREpleat® LPD HC

(Low Pressure Drop, High Capacity)

EXTENDED SURFACE PLEATED PANEL FILTERS

- Lowest initial resistance MERV 8 pleated filter in the industry
- High Dust Holding Capacity (DHC) for energy efficient performance
- Ecologically friendly frame components made from recyclable materials
- Expanded metal grid maintains pleat shape during operation for full media utilization and high DHC
- Diagonal support members and wire-backed media contribute to overall strength of construction
- Filter media pack is bonded to the frame at all points of contact to eliminate air bypass
- MERV 8

Air filters are designed for dust holding, pressure drop and MERV rating. AAF Flanders' PREpleat LPD HC filter is the lowest initial resistance MERV 8 pleated filter in the industry. Combined with its high DHC, the PREpleat LPD HC filter provides an extended life cycle and energy efficient performance.

Superior Design and Construction

Media: 100% synthetic non-woven, proprietary media that can be recycled. Engineered with a gradient density composition that achieves a MERV 8 rating using the mechanical method of particle capture. Media does not rely on an electrostatic charge to capture particulate, since electrostatic charge dissipates over time.

Media Support: Expanded metal is continuously laminated on the air leaving side to provide pleat stability during operation. Pleat shape is maintained allowing full media utilization which maximizes DHC.

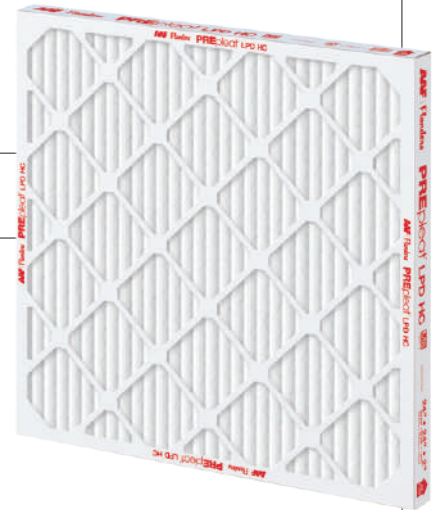
Pleat Design: V-Pleat design aids in pressure drop while reducing energy cost. Design allows for maximum airflow and DHC during the life of the filter.

Frame: Heavy-duty, two piece, moisture-resistant frame with diagonal support members. Frame is bonded to the media at all points of contact for unsurpassed frame strength. Interlocking corners and positive media-to-frame seal reduce the possibility of air bypass.

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

Applications

The PREpleat LPD HC high capacity pleated panel filters are excellent prefilters and are best suited for heavy duty, commercial, industrial, pharmaceutical applications, as well as other industrial applications where high dust holding is required. PREpleat LPD HC filters can be installed in both front access holding frames and side access housings.



PREpleat® LPD HC Filters

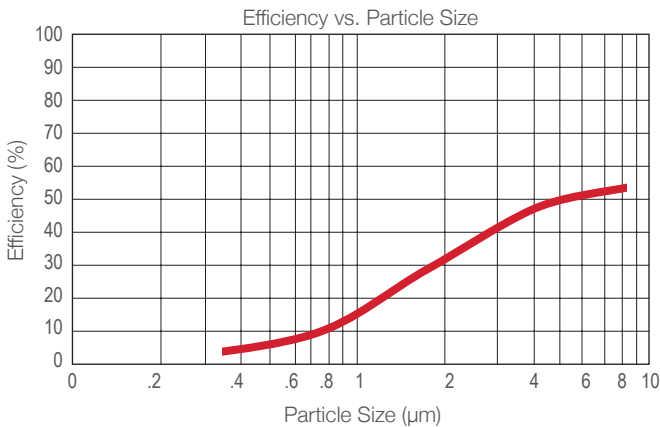
Performance Data

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 LPD HC	15	.14	–	1.0	8	180°F (82°C)
2" PREpleat LPD HC	15	.09	.19	1.0	8	180°F (82°C)
4" PREpleat LPD HC	12	.09	.17	1.0	8	180°F (82°C)

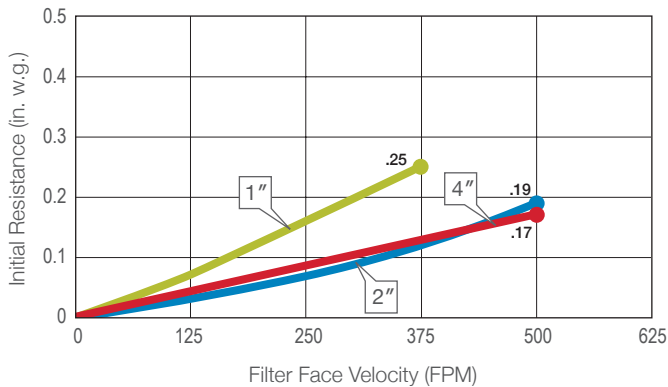
All performance data based on ASHRAE Standard 52.2. Performance tolerance conforms to Section 6.4 of ANSI/AHRI Standard 850-2013.

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

Composite Minimum Efficiency Curve



Initial Resistance vs. Filter Face Velocity



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		
12 x 24 x 1	11 3/8 x 23 3/8 x 3/4	600	1000	–	14	3.7
14 x 20 x 1	13 1/2 x 19 1/2 x 3/4	600	950	–	17	3.7
14 x 25 x 1	13 1/2 x 24 1/2 x 3/4	750	1200	–	17	4.6
16 x 20 x 1	15 1/2 x 19 1/2 x 3/4	650	1100	–	19	4.1
16 x 25 x 1	15 1/2 x 24 1/2 x 3/4	850	1400	–	19	5.2
18 x 24 x 1	17 1/2 x 23 1/2 x 3/4	900	1500	–	22	5.7
18 x 25 x 1	17 1/2 x 24 1/2 x 3/4	950	1550	–	22	5.9
20 x 20 x 1	19 1/2 x 19 1/2 x 3/4	850	1400	–	24	5.1
20 x 24 x 1	19 1/2 x 23 1/2 x 3/4	1000	1650	–	24	6.2
20 x 25 x 1	19 1/2 x 24 1/2 x 3/4	1050	1750	–	24	6.4
24 x 24 x 1	23 3/8 x 23 3/8 x 3/4	1200	2000	–	29	7.4
25 x 25 x 1	24 1/2 x 24 1/2 x 3/4	1300	2150	–	31	8.3
12 x 24 x 2	11 3/8 x 23 3/8 x 1 1/4	600	1000	1250	14	8.7
14 x 20 x 2	13 1/2 x 19 1/2 x 1 1/4	600	950	1150	17	8.6
14 x 25 x 2	13 1/2 x 24 1/2 x 1 1/4	750	1200	1500	17	10.8
16 x 20 x 2	15 1/2 x 19 1/2 x 1 1/4	650	1100	1400	19	9.6
16 x 25 x 2	15 1/2 x 24 1/2 x 1 1/4	850	1400	1750	19	12.0
18 x 24 x 2	17 1/2 x 23 1/2 x 1 1/4	900	1500	1900	22	13.3
18 x 25 x 2	17 1/2 x 24 1/2 x 1 1/4	950	1550	1950	22	13.8
20 x 20 x 2	19 1/2 x 19 1/2 x 1 1/4	850	1400	1750	24	12.0
20 x 24 x 2	19 1/2 x 23 1/2 x 1 1/4	1000	1650	2100	24	14.4
20 x 25 x 2	19 1/2 x 24 1/2 x 1 1/4	1050	1750	2150	24	15.0
24 x 24 x 2	23 3/8 x 23 3/8 x 1 1/4	1200	2000	2500	29	17.3
12 x 24 x 4	11 3/8 x 23 3/8 x 3 3/4	600	1000	1250	11	16.5
16 x 20 x 4	15 1/2 x 19 1/2 x 3 3/4	650	1000	1400	16	18.0
16 x 25 x 4	15 1/2 x 24 1/2 x 3 3/4	850	1400	1750	16	22.6
18 x 24 x 4	17 1/2 x 23 1/2 x 3 3/4	900	1500	1875	18	24.2
20 x 20 x 4	19 1/2 x 19 1/2 x 3 3/4	850	1400	1750	19	22.3
20 x 24 x 4	19 1/2 x 23 1/2 x 3 3/4	1000	1650	2100	19	24.0
20 x 25 x 4	19 1/2 x 24 1/2 x 3 3/4	1050	1750	2150	19	27.7
24 x 24 x 4	23 3/8 x 23 3/8 x 3 3/4	1200	2000	2500	23	28.8

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

PREpleat® is a registered trademark of Flanders Corporation in the U.S.



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