






PRE-PLEAT® 40 LPD

LOW PRESSURE DROP MERV 8A PLEATED FILTER



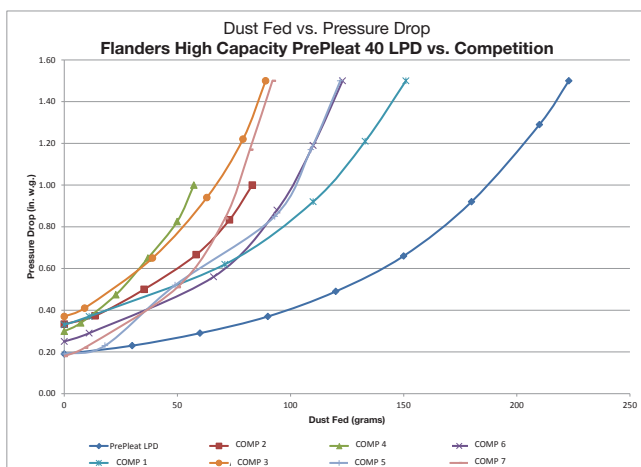
-  Ecologically friendly filtration medium frame components made from recyclable materials
-  Expanded metal grid prevents media flutter while in operation
-  Media maximizing V-pleat design
-  Great frame strength due to diagonal & horizontal support members as well as wire-backed media
-  Filter media pack is sealed to eliminate air bypass

GENERAL

Air filters are designed for dust holding, pressure drop and MERV rating. Flanders' Pre-Pleat® 40 LPD achieves the highest dust holding capacity and the lowest pressure drop in the industry, while maintaining a mechanical MERV 8A per ASHRAE Standard 52.2. These filters are UL 900 classified.

INSTALLATION CONSIDERATIONS

The Pre-Pleat® 40 LPD high and standard capacity pleated panel filters are suitable as pre-filters but are best suited for heavy duty, commercial, industrial, pharmaceutical, as well as other industrial applications where high dust holding is required. The Pre-Pleat® 40 LPD can be installed in PF-1 Holding Frames, K-Trac Framing Modules, Surepleat Side Access Housings and Bag-In/Bag-Out Containment Housings.



PHYSICAL DATA

MEDIA: 100% synthetic non-woven, proprietary media that can be recycled. Engineered with a gradient density composition achieving a MERV 8A using the mechanical method of particle capture. Media does not rely on an electrostatic charge to capture particulate which will dissipate over time and during use.

MEDIA SUPPORT: Newly designed expanded metal is continuously laminated on the air leaving side to provide pleat stability while eliminating flutter during operation.

PLEAT DESIGN: V-Pleat design aides in pressure drop while reducing energy cost. Design allows for maximum airflow and dust holding capacity during the life of the filter.

FRAME: Heavy-duty, two piece, moisture-resistant frame includes diagonal and horizontal support members bonded to the media on the air entering and exiting sides for unsurpassed frame strength. Interlocking corners and positive media-to-frame seal reduce the possibility of air-bypass.

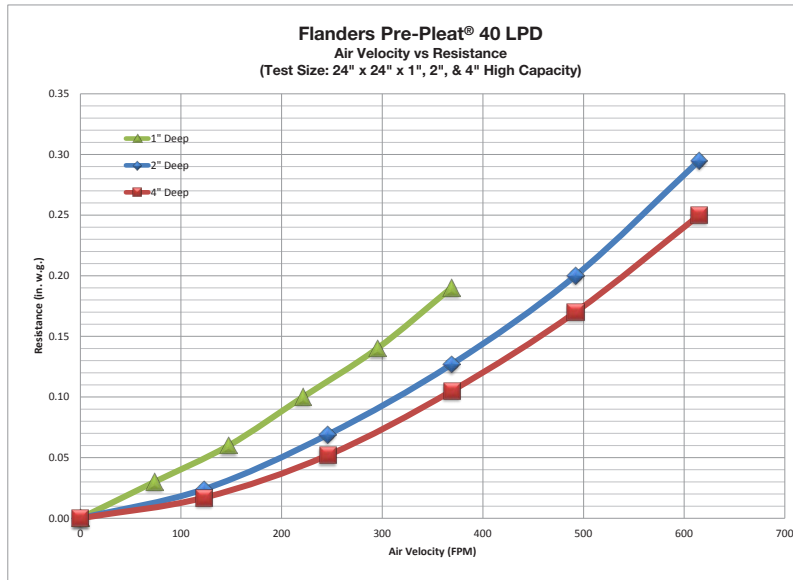
MEDIA SUPPORT: Max. operating temp. is 180 °F (82.22 °C).

Pre-Pleat® 40 LPD Capacities & Dimensions

Nominal Depth (in.)	Nominal Size WxHxD (in.)	Standard Capacity				Media Area (sq. ft.)	Wt. Each (lbs.)	High Capacity				Media Area (sq. ft.)	Wt. Each (lbs.)
		300 FPM		500 FPM				300 FPM		500 FPM			
		CFM	PD	CFM	PD			CFM	PD	CFM	PD		
1"	12x24x1	600	0.17	1000	-	0.0	0.3	600	0.15	1000	-	0.0	0.4
	14x20x1	583	0.17	972	-	0.0	0.3	583	0.15	972	-	0.0	0.4
	14x25x1	729	0.17	1215	-	0.0	0.4	729	0.15	1215	-	0.0	0.5
	16x20x1	667	0.17	1111	-	0.0	0.4	667	0.15	1111	-	0.0	0.4
	16x25x1	833	0.17	1389	-	0.0	0.5	833	0.15	1389	-	0.0	0.5
	18x24x1	900	0.17	1500	-	0.0	0.5	900	0.15	1500	-	0.0	0.6
	18x25x1	938	0.17	1563	-	0.0	0.5	938	0.15	1563	-	0.0	0.6
	20x20x1	833	0.17	1389	-	0.0	0.5	833	0.15	1389	-	0.0	0.5
	20x24x1	1000	0.17	1667	-	0.0	0.5	1000	0.15	1667	-	0.0	0.6
	20x25x1	1042	0.17	1736	-	0.0	0.6	1042	0.15	1736	-	0.0	0.6
	24x24x1	1200	0.17	2000	-	0.0	0.6	1200	0.15	2000	-	0.0	0.7
25x25x1	1302	0.17	2170	-	0.0	0.7	1302	0.15	2170	-	0.0	0.8	
2"	12x24x2	600	0.10	1000	0.20	0.0	0.6	600	0.09	1000	0.19	0.0	0.6
	14x20x2	583	0.10	972	0.20	0.0	0.5	583	0.09	972	0.19	0.0	0.6
	14x25x2	729	0.10	1215	0.20	0.0	0.7	729	0.09	1215	0.19	0.0	0.8
	16x20x2	667	0.10	1111	0.20	0.0	0.6	667	0.09	1111	0.19	0.0	0.7
	16x25x2	833	0.10	1389	0.20	0.0	0.7	833	0.09	1389	0.19	0.0	0.9
	18x24x2	900	0.10	1500	0.20	0.0	0.8	900	0.09	1500	0.19	0.0	0.9
	18x25x2	938	0.10	1563	0.20	0.0	0.8	938	0.09	1563	0.19	0.0	1.0
	20x20x2	833	0.10	1389	0.20	0.0	0.7	833	0.09	1389	0.19	0.0	0.9
	20x24x2	1200	0.10	2000	0.20	0.0	0.9	1200	0.09	2000	0.19	0.0	1.0
	20x25x2	1042	0.10	1736	0.20	0.0	0.9	1042	0.09	1736	0.19	0.0	1.1
24x24x2	1200	0.10	2000	0.20	0.0	1.0	1200	0.09	2000	0.19	0.0	1.2	
4"	12x24x4	600	0.07	1000	0.14	0.0	1.0	600	0.06	1000	0.12	16.5	1.0
	16x20x4	667	0.07	1111	0.14	0.0	1.0	667	0.06	1111	0.12	18.0	1.2
	16x25x4	833	0.07	1389	0.14	0.0	1.3	833	0.06	1389	0.12	22.6	1.4
	18x24x4	900	0.07	1500	0.14	0.0	1.4	900	0.06	1500	0.12	24.2	1.5
	20x20x4	833	0.07	1389	0.14	0.0	1.3	833	0.06	1389	0.12	22.3	1.4
	20x24x4	1000	0.07	1667	0.14	0.0	1.5	1000	0.06	1667	0.12	24.0	1.7
	20x25x4	1042	0.07	1736	0.14	0.0	1.6	1042	0.06	1736	0.12	27.7	1.8
	24x24x4	1200	0.07	2000	0.14	0.0	1.8	1200	0.06	2000	0.12	28.8	2.0

Notes:

1. PD represents average clean pressure drop in inches w.g. The recommended final pressure drop for all models is 1" w.g. System design may dictate a lower change-out point.
2. Actual filter face size for 12x24 and 24x24 filters is 5/8" under on height and width. Actual face size on all other sizes is 1/2" under on height and width.
3. Actual filter depth is 1/4" under for these nominal 1", 2" and 4" deep filters. For capacities other than those shown, ratio the face velocities.
4. Efficiency is not affected by the conditioning steps outlined in ASHRAE 52.2-2007 per Appendix J.



Notes:

1. The Pre-Pleat® 40 LPD maintains efficiency values during conditioning tests.
2. All data per ASHRAE 52.2, latest revision. Independent test reports are available upon request.