Flanders
FOREMOST IN AIR FILTRATION

VP-MERV 8
Value Pleat
Extended Surface Pleated Filter
PB708-0112

General

The VP-MERV 8 Pleated filter achieves MERV 8 efficiency with low resistance to airflow per ASHRAE 52.2-2007. Its filtering medium does not rely on electrostatic charge to capture particulate which will dissipate over time and during use.

The VP-MERV 8 Pleated filters can upgrade existing flat panels, as well as competitive MERV 6-7 pleated filters. Filters are available in 1, 2 and 4-inch depths. VP-MERV 8 Pleated filters are available in a wide range of sizes and will fit most commercial and industrial installations with little or no system modification. Fasteners are available to adapt the filter to existing filter banks.

Installation Considerations

VP-MERV 8 Pleated filters are suitable as primary filters and can be installed in PF-1 Frames, K-Trac Framing Modules, Surepleat Side Access Housings and similar existing hardware. They may be used as prefilters for Precision Pak, Super-Flow® V, PrecisionCell and Rigid-Air filters in these frame systems and in Sureseal Side Access Housings.
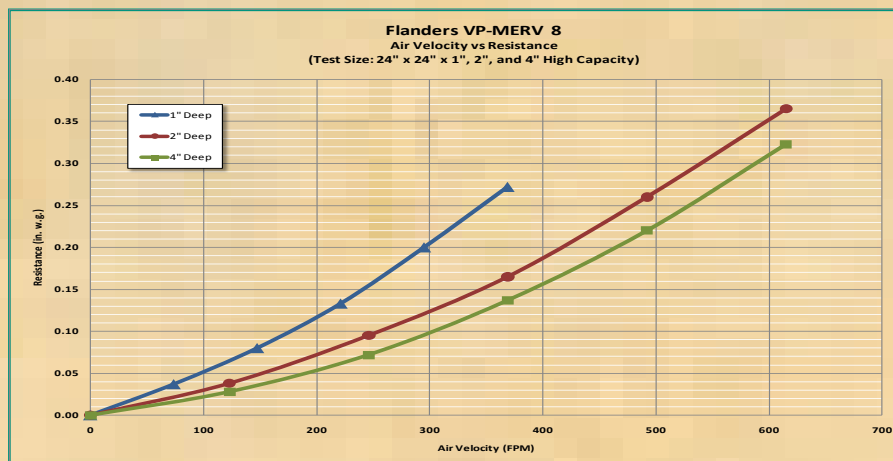
Physical Data

Media: 100% Non-woven synthetic media manufactured from recyclable material
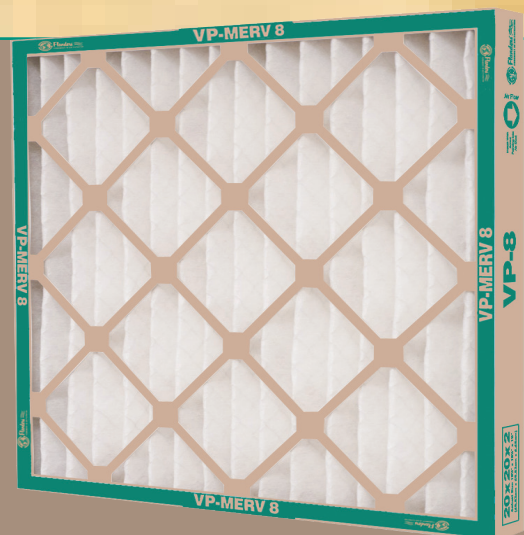
Media Support: Diamond-shaped expanded metal

Pleat Design: V-Pleat

Frame: Unbleached, natural Kraft-board

Flanders VP-MERV 8
Air Velocity vs Resistance
(Test Size: 24" x 24" x 1", 2", and 4" High Capacity)

Important Features

- Ecologically advanced filtration medium made from recyclable materials.
- The VP-MERV 8 is available in standard and high capacity air flow.
- Media maximizing V-pleat design.
- Expanded metal grid prevents media flutter while in operation.
- Diagonal and horizontal support members provide frame strength.
- Filter media pack is sealed to eliminate air bypass.
- MERV 8 per ASHRAE 52.2-2007.

Capacities and Dimensions

Nominal Depth (in.)	Nominal Size WxHxD (in.)	Standard Capacity						High Capacity					
		300 FPM		500 FPM		Media Area (sq. ft.)	Wt. Each (lbs.)	300 FPM		500 FPM		Media Area (sq. ft.)	Wt. Each (lbs.)
		CFM	PD	CFM	PD			CFM	PD	CFM	PD		
1" Std. Capacity 13 ppf — High Capacity 15 ppf	10x10x1	208	0.22	347	-	1.1	0.2	208	0.20	347	-	1.3	0.2
	10x20x1	417	0.22	694	-	2.3	0.3	417	0.20	694	-	2.7	0.3
	12x20x1	500	0.22	833	-	2.7	0.3	500	0.20	833	-	3.1	0.3
	12x24x1	600	0.22	1000	-	3.2	0.3	600	0.20	1000	-	3.7	0.4
	14x20x1	583	0.22	972	-	3.3	0.3	583	0.20	972	-	3.7	0.4
	14x25x1	729	0.22	1215	-	4.1	0.4	729	0.20	1215	-	4.6	0.5
	15x20x1	625	0.22	1042	-	3.5	0.4	625	0.20	1042	-	3.9	0.4
	16x20x1	667	0.22	1111	-	3.7	0.4	667	0.20	1111	-	4.1	0.4
	16x25x1	833	0.22	1389	-	4.6	0.5	833	0.20	1389	-	5.2	0.5
	18x24x1	900	0.22	1500	-	4.9	0.5	900	0.20	1500	-	5.7	0.6
	18x25x1	938	0.22	1563	-	5.2	0.5	938	0.20	1563	-	5.9	0.6
	20x20x1	833	0.22	1389	-	4.5	0.5	833	0.20	1389	-	5.1	0.5
	20x24x1	1000	0.22	1667	-	5.4	0.5	1000	0.20	1667	-	6.2	0.6
	20x25x1	1042	0.22	1736	-	5.7	0.6	1042	0.20	1736	-	6.4	0.6
	24x24x1	1200	0.22	2000	-	6.4	0.6	1200	0.20	2000	-	7.4	0.7
	25x25x1	1302	0.22	2170	-	7.2	0.7	1302	0.20	2170	-	8.3	0.8
2" Std. Capacity 10 ppf — High Capacity 15 ppf	10x20x2	417	0.16	694	0.30	4.3	0.4	417	0.12	694	0.26	6.2	0.5
	12x20x2	500	0.16	833	0.30	4.8	0.5	500	0.12	833	0.26	7.2	0.5
	12x24x2	600	0.16	1000	0.30	5.8	0.6	600	0.12	1000	0.26	8.7	0.6
	14x20x2	583	0.16	972	0.30	5.8	0.5	583	0.12	972	0.26	8.6	0.6
	14x25x2	729	0.16	1215	0.30	7.2	0.7	729	0.12	1215	0.26	10.8	0.8
	15x20x2	625	0.16	1042	0.30	6.2	0.6	625	0.12	1042	0.26	9.1	0.7
	16x20x2	667	0.16	1111	0.30	6.7	0.6	667	0.12	1111	0.26	9.6	0.7
	16x25x2	833	0.16	1389	0.30	8.4	0.7	833	0.12	1389	0.26	12.0	0.9
	18x24x2	900	0.16	1500	0.30	8.7	0.8	900	0.12	1500	0.26	13.3	0.9
	18x25x2	938	0.16	1563	0.30	9.0	0.8	938	0.12	1563	0.26	13.8	1.0
	20x20x2	833	0.16	1389	0.30	8.2	0.7	833	0.12	1389	0.26	12.0	0.9
	20x24x2	1000	0.16	1667	0.30	9.8	0.9	1000	0.12	1667	0.26	14.4	1.0
	20x25x2	1042	0.16	1736	0.30	10.2	0.9	1042	0.12	1736	0.26	15.0	1.1
	24x24x2	1200	0.16	2000	0.30	11.5	1.0	1200	0.12	2000	0.26	17.3	1.2
	25x25x2	1302	0.16	2170	0.30	12.6	1.1	1302	0.12	2170	0.26	19.3	1.3
4" Std. Capacity 9 ppf — High Capacity 13 ppf	12x24x4	600	0.11	1000	0.23	11.1	1.0	600	0.10	1000	0.22	16.5	1.0
	16x20x4	667	0.11	1111	0.23	12.3	1.0	667	0.10	1111	0.22	18.0	1.2
	16x25x4	833	0.11	1389	0.23	15.5	1.3	833	0.10	1389	0.22	22.6	1.4
	18x24x4	900	0.11	1500	0.23	17.3	1.4	900	0.10	1500	0.22	24.2	1.5
	20x20x4	833	0.11	1389	0.23	15.4	1.3	833	0.10	1389	0.22	22.3	1.4
	20x24x4	1000	0.11	1667	0.23	18.6	1.5	1000	0.10	1667	0.22	24.0	1.7
	20x25x4	1042	0.11	1736	0.23	19.3	1.6	1042	0.10	1736	0.22	27.7	1.8
	24x24x4	1200	0.11	2000	0.23	22.3	1.8	1200	0.10	2000	0.22	28.8	2.0
	25x29x4	1510	0.11	2517	0.23	28.4	2.4	1510	0.10	2517	0.22	28.4	2.7
	28x30x4	1750	0.11	2917	0.23	33.2	2.8	1750	0.10	2917	0.22	42.6	3.1

Note: Pressure Drop represents average clean pressure drop in inches w.g. The recommended final pressure drop for all models is 1.0" w.g. System design may dictate a lower change-out point.

Guide Specifications

1.0 General

1.1 Medium efficiency filters shall be MERV 8 Pleat extended surface pleated filters manufactured by Flanders.

1.2 Filter sizes and capacities shall be as scheduled on the drawings.

2.0 Construction

2.1 Filters shall be constructed of reinforced, non-woven synthetic media made from recyclable plastic. Media shall be laminated to an expanded metal grid on the air leaving side and formed into V-configuration pleats.

2.2 Frame shall be recyclable, unbleached natural Kraft-board with diagonal and horizontal support members on the upstream and downstream sides, and shall have interlocking corner tabs.

3.0 Performance

3.1 Media area must equal or exceed that of the specified filter.

3.2 The manufacturer shall guarantee performance as stated in the literature within tolerances as outlined in Section 7 of ARI Standard 850.

3.3 The filter shall be MERV 8 by ASHRAE Standard 52.2-2007.

4.0 Performance

4.1 Manufacturer shall issue a standard certificate of compliance certifying that the filter meets the materials, components, performance and construction characteristics stated herein.