

General

The MERV 7 Economy Pleated filter features a filtering medium that is more efficient and ecologically friendly. Made entirely from recyclable materials, this medium achieves MERV 7 efficiency with low resistance to airflow. It is also unaffected by high humidity and is hydrophobic (non-moisture absorbing).

MERV 7 Economy Pleated filters can upgrade existing flat panels as well as competitive MERV 6 pleated filters currently being used with little increase in resistance. Filters are available in 1, 2 and 4-inch depths. All MERV 7 Economy Pleated filters are 20-25% efficient by ASHRAE 52.1-92 and MERV 7 per ASHRAE 52.2-99.

Economy 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

Economy pleated filters are suitable as primary filters and can be installed in PF-1 Holding 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

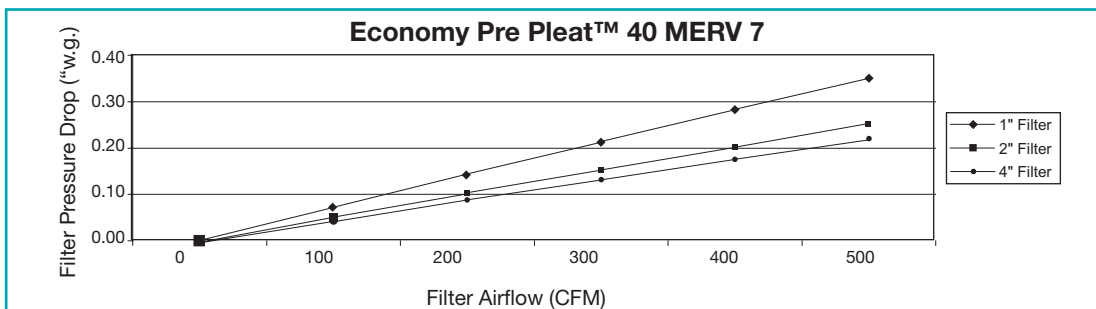
Media: 100% Non-woven synthetic media manufactured from recyclable material

Media Support: Diamond-shaped expanded metal

Pleat Design: V-Pleat

Pleat Count: Economy/Standard: 1" =13, 2" =10, 4" =9

Frame: Moisture-resistant clay coated frame made with recyclable material



Important Features

- Ecologically advanced filtration medium made from recyclable materials.
- 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
- Average efficiency is 20-25% per ASHRAE 52.1-92
- MERV 7 per ASHRAE 52.2-99



Capacities and Dimensions							
Nominal Depth (in.)	Nominal Size WxHxD (in.)	Economy Capacity				Media Area sq. ft.	Wt. Each (lbs.)
		300 fpm		500 fpm			
		cfm	PD	cfm	PD		
1"	10x10x1	210	0.2	210	0.35	0.8	0.2
	10x20x1	415	0.2	415	0.35	1.7	0.4
	12x20x1	500	0.2	500	0.35	2.3	0.5
	12x24x1	600	0.2	600	0.35	2.8	0.6
	14x20x1	585	0.2	585	0.35	2.7	0.6
	14x25x1	730	0.2	730	0.35	3.4	0.7
	15x20x1	625	0.2	625	0.35	2.9	0.7
	16x20x1	665	0.2	665	0.35	3.1	0.7
	16x25x1	835	0.2	835	0.35	4.0	0.8
	18x24x1	900	0.2	900	0.35	4.3	1.0
	18x25x1	940	0.2	940	0.35	4.5	1.0
	20x20x1	835	0.2	835	0.35	4.0	0.8
	20x24x1	1000	0.2	1000	0.35	4.8	1.0
	20x25x1	1040	0.2	1040	0.35	5.0	1.0
	24x24x1	1200	0.2	1200	0.35	5.7	1.1
25x25x1	1305	0.2	1305	0.35	6.3	1.1	
2"	10x20x2	415	0.14	695	0.25	3.9	0.8
	12x20x2	500	0.14	835	0.25	5.3	0.9
	12x24x2	600	0.14	1000	0.25	6.4	1.0
	14x20x2	585	0.14	970	0.25	6.3	1.0
	14x25x2	730	0.14	1215	0.25	8.0	1.2
	15x20x2	625	0.14	1040	0.25	6.9	1.0
	16x20x2	665	0.14	1110	0.25	7.3	1.1
	16x25x2	835	0.14	1390	0.25	9.2	1.3
	18x24x2	900	0.14	1500	0.25	9.9	1.5
	18x25x2	940	0.14	1565	0.25	10.4	1.6
	20x20x2	835	0.14	1390	0.25	9.2	1.3
	20x24x2	1000	0.14	1665	0.25	11.1	1.6
	20x25x2	1040	0.14	1735	0.25	11.6	1.6
	24x24x2	1200	0.14	2000	0.25	13.3	1.8
	25x25x2	1305	0.14	2170	0.25	14.6	1.9
4"	12x24x4	600	0.13	1000	0.22	9.3	1.7
	16x20x4	665	0.13	1110	0.22	10.4	1.8
	16x25x4	835	0.13	1390	0.22	13.1	2.2
	18x24x4	900	0.13	1500	0.22	14.1	2.3
	20x20x4	835	0.13	1390	0.22	13.1	2.2
	20x24x4	1000	0.13	1665	0.22	15.8	2.5
	20x25x4	1040	0.13	1735	0.22	16.4	2.5
	24x24x4	1200	0.13	2000	0.22	19.0	3.0
	25x29x4	1500	0.13	2515	0.22	24.0	3.6

Guide Specifications

1.0 General

- 1.1 Medium efficiency filters shall be MERV 7 Economy 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, moisture-resistant clay-coated board with diagonal and horizontal support members on the upstream and downstream sides, and shall have interlocking corner tabs.

3.0 Performance

- 3.1 Initial and final resistances shall not exceed the scheduled values.
- 3.2 Media area must equal or exceed that of the specified filter.
- 3.3 The average atmospheric dust spot efficiency shall be 20-25% as determined by ASHRAE Standard 52.1-92 test methods.
- 3.4 The manufacturer shall guarantee performance as stated in the literature within tolerances as outlined in Section 7 of ARI Standard 850.
- 3.5 The filter shall be MERV 7 by ASHRAE Standard 52.2.

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.



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