

Purolator



Key Pleat®

MERV 8 Standard and High-Capacity
Self-Supported Pleated Filters



MERV 8

- *Standard-Capacity MERV 8, MERV-A 8-A*
- *Automated process delivers consistency and durability*
- *Durable, self-supporting synthetic media*
- *No metal, fully incinerable*
- *Die cut frame with interlocking corners for added strength*

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Standard and High-Capacity
Self-Supported Pleated Filters

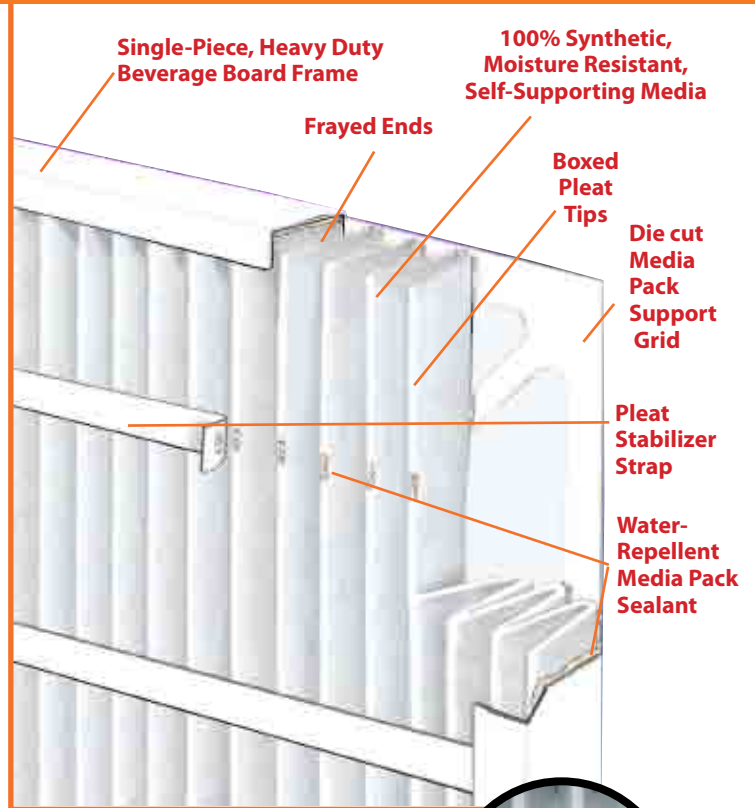


Process Innovation, Design Excellence and Improved Media

Purolator's self-supporting media and innovative automated manufacturing process produces consistent pleat shape and spacing in each **Key Pleat**. This state-of-the-art media pack is surrounded by a single-piece, beverage board die cut frame, with structural integrity unlike any self-supported filter available today. The **Key Pleat** can endure impact and deformation and return to its original shape, ready for installation. That means you avoid the time and cost that are often wasted replacing damaged wire-backed filters.

Seven-strap Die Cut

A seven-strap die cut is located on the air-leaving side of the **Key Pleat** providing additional strength and durability to each filter. In combination, the boxed pleat tips provide more surface area and points of contact for the die cut to be securely glued to the media pack. As an example, the pleat tips are glued to the die cut at more than 140 points on a 24"x 24"x 2", **Key Pleat** standard-capacity and 250 points on a high-capacity filter.



Consistent pleat shape and spacing allow particulate to collect evenly over the entire surface of the media. Pleat stabilizer straps add rigidity and maintain proper pleat spacing. Opposite photo of air leaving side shows the integral media pack support grid.



Boxed Pleat Tips

100% Adhesive Application Ensures Filter Strength

The inside of the die cut frame is completely coated with adhesive to ensure a solid bond at all points of contact with the media pack. The pack is sealed inside the frame and pleat tips are bonded to the stabilizers and diagonal support members.

Water Repellent Adhesive

The sealant used to bond the frame to the media pack is highly water-repellent. That means that the filters maintain structural integrity even when wet; no delaminating, excessive buckling, or collapsing.

Uniformity of Pleats

The uniformity of pleat height and spacing ensures optimal performance throughout the useful life of every **Key Pleat** filter. The combination of the self-supporting media and the innovative, automated construction also means low resistance to airflow and cost-effective, environmentally responsible use of energy resources. Additionally, the consistent pleat spacing supports balanced loading, which maximizes the dust holding capacity of the filter and promotes longer service life. Pleats will not bunch or collapse which can cause an increase in pressure drop and potential failure of the filter.

100% Synthetic Media Resists Moisture and Damage

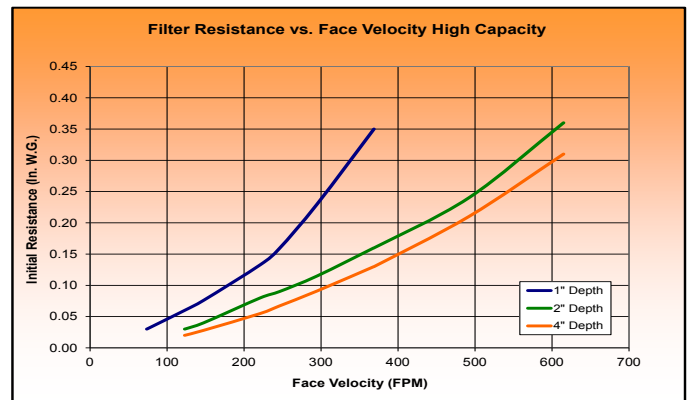
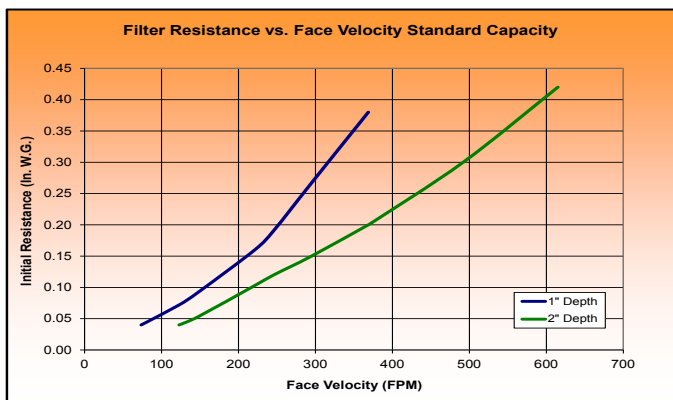
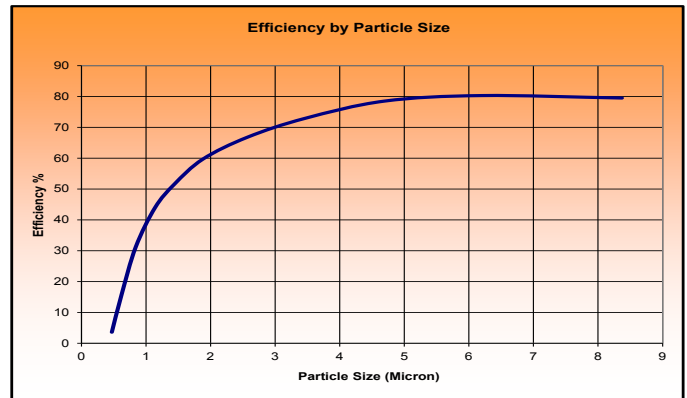
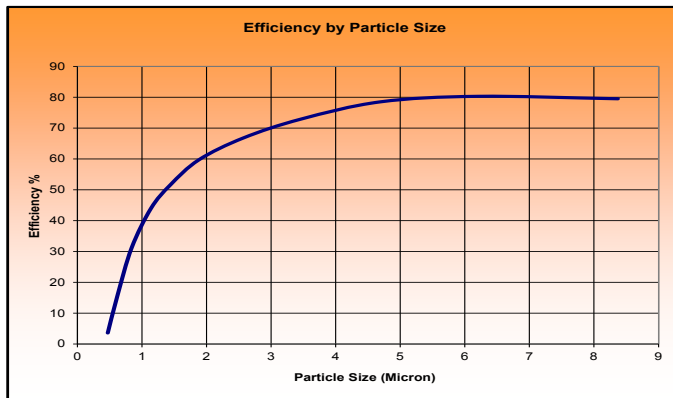
Key Pleat MERV 8 media is a unique blend of synthetic fibers formed into a mat with high strength and stiffness characteristics. The inherent strength provides rugged durability in operation. The media stiffness, when matched with our automated process, allows totally consistent spacing of the pleats. Blended

fiber construction allows full depth loading which enhances dust-holding capacity. Media performance is not impacted by high humidity or moisture and the synthetic fibers do not support microbial growth.

Key Pleat MERV 8 media operates on mechanical filtration principles which cause particulate efficiency to increase as the media loads. No enhanced electrostatic charge is intentionally applied to the media.

Applications

The **Key Pleat** is ideal for standard applications with normal airflows of 500 FPM or lower and medium dust-loading conditions. It is not recommended for applications with very high and/or turbulent airflows, higher operating temperatures or excessive dust-loading conditions. Contact your Purolator Sales Representative for assistance with application or technical issues.



Standard-Capacity (KP)

High-Capacity (KPH)

Key Pleat®

Standard and High-Capacity
Self-Supported Pleated Filters



Technical Data:

Nominal Size W x H x D	Actual Size W x H x D	Air Flow Capacity (CFM)		Initial Resistance 1" @ 300 FPM 2", 4" @ 500 FPM		Gross Media Area (Sq. Ft.)	
		KP 1" 300 FPM 2" 500 FPM	KPH 1" 300 FPM 2" 500 FPM 4" 500 FPM	KP	KPH	KP	KPH
10X20X1	9-1/2 x 19-1/2 x 3/4	415	415	0.27	0.20	2.3	3.1
10X24X1	9-3/8 x 23-3/8 x 3/4	500	500	0.27	0.20	2.8	3.5
12X12X1	11-3/4 x 11-3/4 x 3/4	300	300	0.27	0.20	1.8	2.3
12X20X1	11-1/2 x 19-1/2 x 3/4	500	500	0.27	0.20	2.8	3.7
12X24X1	11-3/8 x 23-3/8 x 3/4	600	600	0.27	0.20	3.4	4.4
14X14X1	13-3/4 x 13-3/4 x 3/4	410	410	0.27	0.20	2.4	3.1
14X20X1	13-1/2 x 19-1/2 x 3/4	585	585	0.27	0.20	3.3	4.3
14X24X1	13-3/8 x 23-3/8 x 3/4	700	700	0.27	0.20	4.0	5.1
14X25X1	13-1/2 x 24-1/2 x 3/4	730	730	0.27	0.20	4.2	5.4
14X30X1	13-3/4 x 29-3/4 x 3/4	875	875	0.27	0.20	5.2	6.7
15X20X1	14-1/2 x 19-1/2 x 3/4	625	625	0.27	0.20	3.6	4.7
16X16X1	15-1/2 x 15-1/2 x 3/4	530	530	0.27	0.20	3.0	4.0
16X20X1	15-1/2 x 19-1/2 x 3/4	665	665	0.27	0.20	3.8	5.0
16X24X1	15-3/8 x 23-3/8 x 3/4	800	800	0.27	0.20	4.6	5.9
16X25X1	15-1/2 x 24-1/2 x 3/4	835	835	0.27	0.20	4.8	6.3
16X30X1	15-3/4 x 29-3/4 x 3/4	1000	1000	0.27	0.20	6.0	7.7
18X18X1	17-3/4 x 17-3/4 x 3/4	675	675	0.27	0.20	4.1	5.2
18X20X1	17-3/8 x 19-1/2 x 3/4	750	750	0.27	0.20	4.3	5.6
18X24X1	17-3/8 x 23-3/8 x 3/4	900	900	0.27	0.20	5.2	6.8
18X25X1	17-1/2 x 24-1/2 x 3/4	936	936	0.27	0.20	5.4	7.1
20X20X1	19-1/2 x 19-1/2 x 3/4	830	830	0.27	0.20	4.8	6.2
20X22X1	19-3/4 x 21-3/4 x 3/4	915	915	0.27	0.20	5.5	7.1
20X24X1	19-3/8 x 23-3/8 x 3/4	1000	1000	0.27	0.20	5.9	7.5
20X25X1	19-1/2 x 24-1/2 x 3/4	1040	1040	0.27	0.20	6.1	7.8
20X30X1*	19-1/2 x 29-1/2 x 3/4	1250	1250	0.27	0.20	7.3	9.4
24X24X1	23-3/8 x 23-3/8 x 3/4	1200	1200	0.27	0.20	7.0	9.1
24X30X1	23-3/4 x 29-3/4 x 3/4	1500	1500	0.27	0.20	9.1	11.8
25X25X1	24-1/2 x 24-1/2 x 3/4	1300	1250	0.27	0.20	7.7	10.0
10X20X2	9-1/2 x 19-1/2 x 1-3/4	700	700	0.30	0.24	4.0	6.1
12X20X2	11-1/2 x 19-1/2 x 1-3/4	840	840	0.30	0.24	4.8	7.5
12X24X2	11-3/8 x 23-3/8 x 1-3/4	1000	1000	0.30	0.24	5.7	9.0
14X20X2	13-1/2 x 19-1/2 x 1-3/4	980	980	0.30	0.24	5.5	8.8
14X25X2	13-1/2 x 24-1/2 x 1-3/4	1220	1220	0.30	0.24	6.9	11.0
15X20X2	14-1/2 x 19-1/2 x 1-3/4	1050	1050	0.30	0.24	6.0	9.5
16X16X2	15-3/4 x 15-3/4 x 1-3/4	890	890	0.30	0.24	5.3	8.5
16X20X2	15-1/2 x 19-1/2 x 1-3/4	1120	1120	0.30	0.24	6.5	10.2
16X24X2	15-3/8 x 23-3/8 x 1-3/4	1340	1340	0.30	0.24	7.5	12.2
16X25X2	15-1/2 x 24-1/2 x 1-3/4	1400	1400	0.30	0.24	8.2	12.8
18X18X2	17-3/4 x 17-3/4 x 1-3/4	1125	1125	0.30	0.24	6.6	10.6
18X20X2	17-1/2 x 19-1/2 x 1-3/4	1250	1250	0.30	0.24	7.3	11.4
18X24X2	17-3/8 x 23-3/8 x 1-3/4	1500	1500	0.30	0.24	8.7	13.7
18X25X2	17-1/2 x 24-1/2 x 1-3/4	1570	1570	0.30	0.24	9.2	14.3
20X20X2	19-1/2 x 19-1/2 x 1-3/4	1400	1400	0.30	0.24	8.0	12.9
20X24X2	19-3/8 x 23-3/8 x 1-3/4	1670	1670	0.30	0.24	9.6	15.1
20X25X2	19-1/2 x 24-1/2 x 1-3/4	1750	1750	0.30	0.24	10.1	16.2
20X30X2*	19-1/2 x 29-1/2 x 1-3/4	2085	2085	0.30	0.24	12.2	19.5
24X24X2	23-3/8 x 23-3/8 x 1-3/4	2000	2000	0.30	0.24	11.8	18.3
25X25X2	24-1/2 x 24-1/2 x 1-3/4	2170	2170	0.30	0.24	12.9	20.5
12X24X4	11-3/8 x 23-3/8 x 3-3/4	-	1000	-	0.21	-	13.0
16X20X4	15-1/2 x 19-1/2 x 3-3/4	-	1120	-	0.21	-	14.9
16X25X4	15-1/2 x 24-1/2 x 3-3/4	-	1400	-	0.21	-	18.8
18X24X4	17-3/8 x 23-3/8 x 3-3/4	-	1500	-	0.21	-	19.7
20X20X4	19-1/2 x 19-1/2 x 3-3/4	-	1400	-	0.21	-	18.5
20X24X4	19-3/8 x 23-3/8 x 3-3/4	-	1670	-	0.21	-	22.2
20X25X4	19-1/2 x 24-1/2 x 3-3/4	-	1750	-	0.21	-	22.3
24X24X4	23-3/8 x 23-3/8 x 3-3/4	-	2000	-	0.21	-	26.5

* Reverse Pleat

NOTES:

- MERV 8, MERV-A 8-A
- All performance data is based on the ASHRAE 52.2-2007 Test Standard.
Tested at 492 FPM for a 24x24x2 or 24x24x4 size filter.
- Maximum final resistance 1.0" W.G.
- Filters may be installed with the pleats either vertical (preferred) or horizontal.

Underwriters Laboratories, Inc. Classification: Key Pleat filters are classified per UL 900 for flammability only.

Operating Temperature Limits: Maximum operating temperature is 150°F (65°C).



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