Koch Filter Corporation
Filtration Products Crafted with Pride

New Design! Improved Performance!

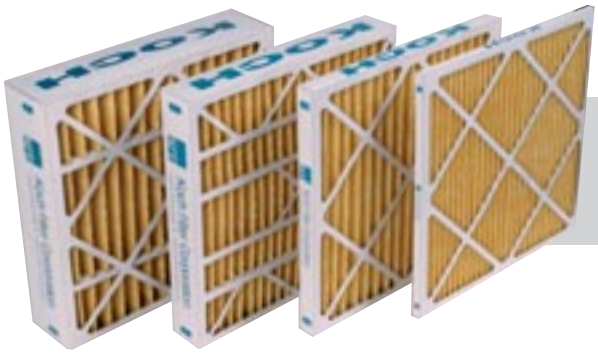
Multi-Pleat XL11™

MERV 11 Extended Surface Pleated Panel Filters

- Upgrade from standard pleated filters
- MERV 11 efficiency rating
- Dual-layered filter media
- Low pressure drop
- Superior efficiency
- High dust holding capacity

Bulletin No. K-602

Multi-Pleat XL11 MERV 11 Extended Surface Pleated Panel Filters



*The Koch **Multi-Pleat XL11** is a medium efficiency extended surface pleated panel filter, engineered to provide higher initial efficiencies and better overall performance than standard pleated filters.*

*The **Multi-Pleat XL11** carries a MERV 11 fractional efficiency rating in accordance with ASHRAE Test Standard 52.2. The filter will also provide an Initial Dust Spot Efficiency of 45%, and an Average Dust Spot Efficiency of 55-60% in accordance with ASHRAE Test Standard 52.1.*

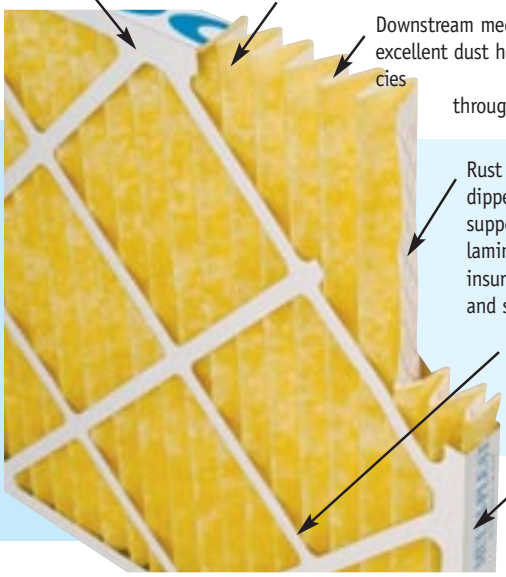
*The MERV 11 efficiency ratings provided by the **Multi-Pleat XL11** make the filter an excellent upgrade from disposable filters and ordinary pleated filters in applications such as hospitals, laboratories and pharmaceutical plants, commercial office buildings, and in any system in which a higher degree of clean air is required.*

Multi-Pleat XL11 Construction

The **Multi-Pleat XL11** is produced with a highly specialized, dual-layered 100% synthetic media, developed by Koch Filter Corporation specifically for use in extended surface air filters. The new media
is composed of an upstream electrostatically enhanced layer (the E-Layer), and a downstream mechanical layer (the M-Layer).

Combination Electrostatic and Mechanical Media
The dual-layered construction of Multi-Pleat Series XL11 overcomes
a common problem found in single-layered electrostatically charged filters. In filters produced with single-layer media, the effectiveness of the electrostatically charged media decreases over time as the
filter becomes dirty and the charge dissipates.

The unique dual-layered media design of the Multi-Pleat XL11 greatly reduces this problem. As the effectiveness of the electrostatically enhanced E-Layer decreases, the downstream mechanical M-Layer takes over. The M-Layer steps up to provide better continuing overall performance and excellent dust holding capacity.



Two Media Area Capacity Levels

The **Multi-Pleat XL11** is an extremely versatile line of pleated panels which can be used in a wide variety of filtration systems worldwide. In order to meet the different requirements found in these applications, Koch offers the XL11 Series in two media area capacity levels.

Standard Capacity
Standard Capacity **XL11-SC** filters provide a combination of efficiency, economy, and excellent overall performance. Standard Capacity XL11-SC filters are an excellent choice in applications where filter change schedules are based on preventive maintenance schedules.

High Capacity
High Capacity **XL11-HC** filters are similar in construction to the Standard Capacity but have the added advantage of approximately 30% more media. The additional media results in extended filter life, making the XL11-HC the ideal filter for use in filtration systems where filter change schedules are predicated on recommended final pressure drop readings.

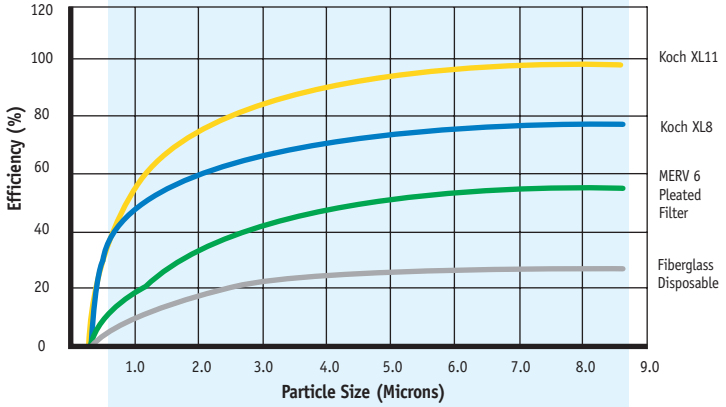
Multi-Pleat XL11 Technical Data

			Standard Capacity XL11-SC		High Capacity XL11-HC	
Size (Nominal)	Size (Actual in inches)	Capacity (CFM) Low/Med/High @300 500 625 (FPM)	Resistance (in W.G.) Low/Med/High/Final @300 500 625 (FPM)	Media Area (Sq. Ft).	Resistance (in W.G.) Low/Med/High/Final @300 500 625 (FPM)	Media Area (Sq. Ft).
10x20x1	9-7/8x19-7/8x7/8	425/ 700/ NR	.16/.37/NR/1.0	2.2	.15/.34/NR/1.0	3.2
12x24x1	11-3/8x23-3/8x7/8	600 / 1000 / NR	.16/.37/NR/1.0	3.2	.15/.34/NR/1.0	4.6
14x20x1	13-7/8x19-7/8x7/8	590 / 980 / NR	.16/.37/NR/1.0	3.1	.15/.34/NR/1.0	4.5
14x25x1	13-7/8x24-7/8x7/8	730 / 1215 / NR	.16/.37/NR/1.0	3.9	.15/.34/NR/1.0	5.6
15x20x1	14-7/8x19-7/8x7/8	625 / 1050 / NR	.16/.37/NR/1.0	3.3	.15/.34/NR/1.0	4.8
16x20x1	15-1/2x19-1/2x7/8	670 / 1115 / NR	.16/.37/NR/1.0	3.6	.15/.34/NR/1.0	5.1
16x25x1	15-1/2x24-1/2x7/8	840 / 1400 / NR	.16/.37/NR/1.0	4.5	.15/.34/NR/1.0	6.4
20x20x1	19-1/2x19-1/2x7/8	840 / 1400 / NR	.16/.37/NR/1.0	4.5	.15/.34/NR/1.0	6.4
20x25x1	19-1/2x24-1/2x7/8	1050 / 1740 / NR	.16/.37/NR/1.0	5.6	.15/.34/NR/1.0	8.0
24x24x1	23-3/8x23-3/8x7/8	1200 / 2000 / NR	.16/.37/NR/1.0	6.4	.15/.34/NR/1.0	9.2
12x24x2	11-3/8x23-3/8x1-3/4	600 / 1000 / 1200	.14/.31/.51/1.0	6.2	.13/.28/.49/1.0	9.2
14x20x2	13-3/4x19-3/4x1-3/4	590 / 980 / 1215	.14/.31/.51/1.0	6.1	.13/.28/.49/1.0	8.9
14x25x2	13-3/4x24-3/4x1-3/4	730 / 1215 / 1520	.14/.31/.51/1.0	7.5	.13/.28/.49/1.0	12.0
15x20x2	14-3/4x19-3/4x1-3/4	625 / 1050 / 1310	.14/.31/.51/1.0	6.5	.13/.28/.49/1.0	9.6
16x20x2	15-1/2x19-1/2x1-3/4	670 / 1115 / 1400	.14/.31/.51/1.0	6.8	.13/.28/.49/1.0	10.2
16x25x2	15-1/2x24-1/2x1-3/4	840 / 1400 / 1740	.14/.31/.51/1.0	8.7	.13/.28/.49/1.0	12.8
18x24x2	17-1/2x23-1/2x1-3/4	900 / 1500 / 1875	.14/.31/.51/1.0	9.3	.13/.28/.49/1.0	13.8
20x20x2	19-1/2x19-1/2x1-3/4	840 / 1400 / 1740	.14/.31/.51/1.0	8.7	.13/.28/.49/1.0	12.8
20x24x2	19-1/2x23-1/2x1-3/4	1000 / 1675 / 2100	.14/.31/.51/1.0	10.3	.13/.28/.49/1.0	15.3
20x25x2	19-1/2x24-1/2x1-3/4	1050 / 1740 / 2170	.14/.31/.51/1.0	10.8	.13/.28/.49/1.0	16.0
24x24x2	23-3/8x23-3/8x1-3/4	1200 / 2000 / 2500	.14/.31/.51/1.0	12.4	.13/.28/.49/1.0	18.4
25x25x2	24-3/8x24-3/8x1-3/4	1310 / 2170 / 2720	.14/.31/.51/1.0	13.5	.13/.28/.49/1.0	20.0
12x24x4	11-3/8x23-3/8x3-3/4	600 / 1000 / 1250	.13/.29/.45/1.0	11.6	.12/.27/.43/1.0	14.0
16x20x4	15-1/2x19-1/2x3-3/4	670 / 1115 / 1400	.13/.29/.45/1.0	12.9	.12/.27/.43/1.0	15.6
18x24x4	17-1/2x23-3/8x3-3/4	900 / 1500 / 1875	.13/.29/.45/1.0	17.4	.12/.27/.43/1.0	21.0
20x20x4	19-1/2x19-1/2x3-3/4	840 / 1400 / 1740	.13/.29/.45/1.0	16.1	.12/.27/.43/1.0	19.4
20x24x4	19-1/2x23-3/8x3-3/4	1000 / 1675 / 2100	.13/.29/.45/1.0	19.3	.12/.27/.43/1.0	24.0
20x25x4	19-1/2x24-1/2x3-3/4	1050 / 1740 / 2170	.13/.29/.45/1.0	20.1	.12/.27/.43/1.0	24.3
24x24x4	23-3/8x23-3/8x3-3/4	1200 / 2000 / 2500	.13/.29/.45/1.0	23.2	.12/.27/.43/1.0	28.0
24x24x6	23-3/8x23-3/8x5-3/4	1200 / 2000 / 2500	.14/.30/.43/1.0	35.6	.12/.28/.41/1.0	45.2

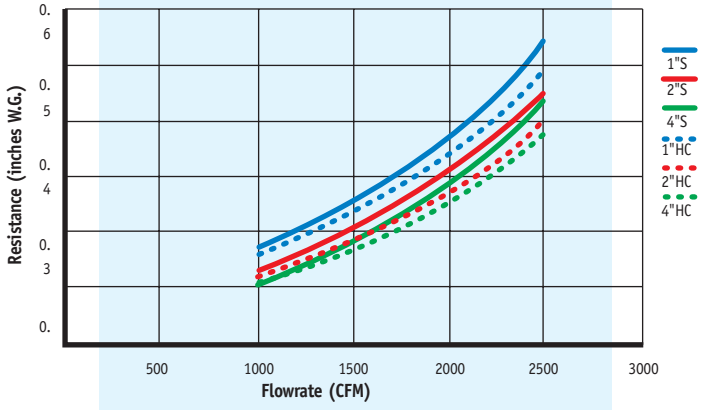
Additional Multi-Pleat XL11 Product Information

Recommended Final Pressure Drop is 1.0" w.g. • Performance data is based on ASHRAE Test Standards 52.1 and 52.2. • Recommended maximum continuous operational temperature is 200° F. • Multi-Pleat XL11 filters are classified as Underwriter's Laboratories Class 2 according to U.L. Standard 900.

Efficiency by Particle Size



Initial Resistance vs. Filter Face Velocity



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