

Multi-Cell™

Medium & High Efficiency Extended Surface Air Filters.



Features

- Three efficiency ranges
- Multiple frame and header options
- Designed for Variable Air Volume (VAV) systems
- High temperature options available
- Rigid construction

Medium and High Efficiency

The Koch **Multi-Cell** is a high efficiency, extended surface air filter designed for use in HVAC applications of all types. Rigid construction makes the **Multi-Cell** a superior filter in (VAV) variable-air- volume systems, or in any application where extreme conditions require additional filter strength and reliability.

To meet the requirements of various filtration systems, **Multi-Cells** are offered in multiple standard face sizes, two depths, and three different efficiencies. Five unique frame and header styles are available to insure that each unit fits properly into the existing filter housing or framework. Contact your Koch Filter representative to determine which style your system requires.

Multi-Cell Construction

Cell Sides on Styles FM, NHM and SBM are constructed with heavy-duty galvanized steel. Styles SBW and FW are constructed with 3/4" Particle Board.

Header on Models FM, SBM, and FW is constructed with galvanized steel for problem-free installation into the filter housing.

Filter Media is produced from glass fibers and is formed into a durable, graded-density micro-glass paper mat.

Corrugated aluminum separators provide proper media spacing and additional strength to the media pack. Each separator is folded on the leading edge to make it twice as durable and to prevent damage to the filter media. (Separators are also available with protective coating for highly corrosive atmospheres).

Media-to-Frame Sealant in galvanized steel models (FM, NHM, and SBM) is a specialized thermoplastic hot-melt adhesive. The sealant in Particle Board models (FW and SBW) is a durable polyurethane material. Both adhesive sealants have been engineered specifically for superior durability in high efficiency air filtration applications.

Special Construction Features are available for applications where environmental conditions may require additional filtration efficiency or durability.

- Protective faceguards can be secured to one or both sides of the filter.
- Protective gaskets for side-access or front-loading housings are available for normal and high temperature conditions.
- Multi-Cell filters are available with antimicrobial-treated filter media when required.

Nominal Size	Actual Size	Air Flow Capacity (CFM) @500 FPM	Initial Resistance (in. W.G.)			SBM/FM Media Area (Sq. ft.)	NHM Media Area (Sq. ft.)
			MERV 14	MERV 13	MERV 11		
24x24x12	23.38 x 23.38 x 11.50	2000	.58	.54	.39	108	125
24x12x12	23.38 x 11.38 x 11.50	1000	.58	.54	.39	53	63
24x20x12	23.38 x 19.38 x 11.50	1650	.58	.54	.39	50	106
20x16x12	19.38 x 15.38 x 11.50	1100	.58	.54	.39	58	68
20x20x12	19.38 x 19.38 x 11.50	1400	.58	.54	.39	73	87
25x16x12	24.38 x 15.38 x 11.50	1400	.58	.54	.39	74	84
24x18x12	23.38 x 17.38 x 11.50	1500	.58	.54	.39	80	92
25x20x12	24.38 x 19.38 x 11.50	1750	.58	.54	.39	94	107
24x24x6	23.38 x 23.38 x 5.88	1000	.33	.28	.15	55	64
24x12x6	23.38 x 11.38 x 5.88	500	.33	.28	.15	27	32
24x20x6	23.38 x 19.38 x 5.88	825	.33	.28	.15	46	54
20x16x6	19.38 x 15.38 x 5.88	550	.33	.28	.15	30	35
20x20x6	19.38 x 19.38 x 5.88	700	.33	.28	.15	37	45
25x16x6	24.38 x 15.38 x 5.88	700	.33	.28	.15	38	43
24x18x6	23.38 x 17.38 x 5.88	750	.33	.28	.15	41	47
25x20x6	24.38 x 19.38 x 5.88	875	.33	.28	.15	48	55

- Notes:
- Recommended Final Pressure Drop is 1.5" w.g. • Multi-Cell models are UL classified.
 - Performance data is based on ASHRAE Test Standards 52.2-2012. • Recommended maximum continuous operational temperature is 200° F.
 - Standard multi-Cells may be installed with pleats vertical or horizontal. Multi-Cell HT should be installed with pleats vertical.
 - Standard header thickness on styles FM, SBM and FW is .813". 1.125" thickness is available if required.



Style FM
 Cell Sides - Galvanized Steel
 Header location - Single header air entry side
 Temperature - 180 ° F



Style NHM
 Cell Sides - Galvanized Steel
 Header location - No header
 Temperature - 180 ° F



Style SBM
 Cell Sides - Galvanized Steel
 Header location - Double header, air entry & air exit sides
 Temperature - 180 ° F



Style FW
 Cell Sides - Particle Board
 Header location - Single galvanized steel header air entry side
 Temperature - 180 ° F



Style SBW
 Cell Sides - Particle Board
 Header location - No header
 Temperature - 180 ° F

Multi-Cell High Capacity

Multi-Cell filters are available in a High Capacity configuration with 30% more media area than the standard model. The additional surface area provides longer service life and enhanced filtration capabilities. Excellent choice for applications where maximum service life is of paramount concern.

Multi-Cell HT For High Temperature Applications

Multi-Cell HT filters are constructed with aluminized steel frames designed for operation in applications with temperatures ranging from 750°F to 900°F , and are ideal for use in paint ovens where high temperatures may cause galvanized steel to scale or flake.



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