



**Koch Filter Corporation**  
Filtration Products Crafted with Pride



## Maxi-Cell™

*High Efficiency Barrier Filter Engineered  
for Turbomachinery Air Inlet Systems*

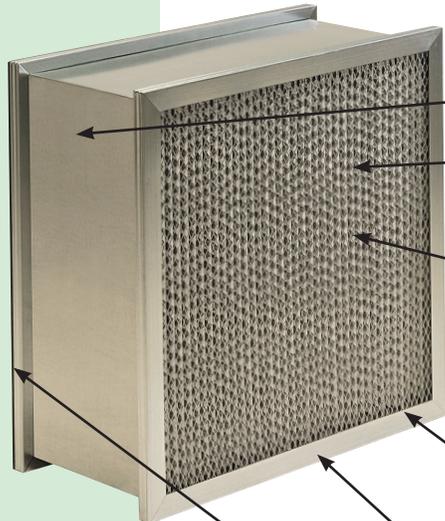
The Koch Maxi-Cell is an extended surface, high efficiency barrier filter designed for maximum performance in even the most extreme applications. Durable metal construction and specially designed filter media make the Maxi-Cell an ideal product for applications such as gas turbines, centrifugal compressors and other rotating machinery systems where pulsations and air turbulence are present.

### Durable. Reliable. Versatile.

- Superior filtration for gas turbines air inlets and other high velocity rotating equipment.
- Reliable performance in any climate, from arid desert environments to salty coastal locations to icy arctic installations.
- Performs in systems with airflow as high as 2500 cfm.
- Widely used by OEM's around the world.

### Features

- **MERV 11 and 14 performance rating**
- **High efficiency barrier filter designed for use in gas turbine air inlets and other rotating machinery**
- **Durable metal frame**
- **Faceguards upstream and downstream**
- **Progressive-density filter media extends filter lifecycles**
- **Double-Edge™ aluminum separators**



### Maxi-Cell™ Construction

**Metal Frame Construction.** The Maxi-Cell is constructed with heavy-duty metal cell sides to create a durable and reliable filter.

**Faceguards.** Each filter is furnished with faceguards, constructed of galvanized hardware cloth, permanently secured on both the upstream and downstream sides of the filter. These faceguards protect the media during shipping, handling, and actual operation.

**Media and Separator Construction.** Koch offers two media styles, KM60 (MERV 11) and KM90 (MERV 14), to meet the various requirements found in different applications. Both media types are composed of progressively dense microfiberglass to ensure extended service life. The media is folded between layers of corrugated aluminum separators to form a pleated, extended surface design. The leading edge of each Double-Edge™ separator is folded over to prevent damage to the media. Vinyl-coated separators are available for applications with corrosive environments.

**Media-to-Frame Sealant.** The entire media pack, consisting of media and separators, is secured within the metal frame with a glass fiber mat and thermoplastic adhesive. This construction method fully protects against air by-pass between the media and frame. The sealant also protects the filter media from damage during handling.

**Header Construction.** Standard Maxi-Cell filters are constructed with peripheral headers located on the air-entry and air-exit sides of the filter. The headers are furnished with pre-drilled holes for holding clips. Units with a single upstream header for side-access installations are available upon request.

**Gaskets.** Standard units are equipped with a neoprene gasket on the air-exit side. Other gasket configurations are available upon request.

**Koch Filter Corporation...Durable. Reliable. Versatile.**

Bulletin No. K-386-B



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## Maxi-Cell™ Performance Data

Model No.	KM601	KM601HC	KM901	KM901HC
<b>Nominal Size</b>	24x24x12	24x24x12	24x24x12	24x24x12
<b>Actual size</b>	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 1/2	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 1/2	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 1/2	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 1/2
<b>Initial Resistance (@2000 CFM)<sup>1</sup></b>	0.42" w.g.	0.44" w.g.	0.54" w.g.	0.59" w.g.
<b>Initial Resistance (@2500 CFM)<sup>1</sup></b>	0.58" w.g.	0.6" w.g.	0.75" w.g.	0.79" w.g.
<b>Recommended Final Resistance</b>	2.5" w.g.	2.5" w.g.	2.5" w.g.	2.5" w.g.
<b>Average Atmospheric Dust Spot Efficiency<sup>1</sup></b>	70	80	93	93
<b>MERV Rating<sup>2</sup></b>	11	11	14	14
<b>Dust Holding Capacity (@2000 CFM)<sup>3</sup></b>	1200	1550	960	1060
<b>Dust Holding Capacity (@2500 CFM)<sup>3</sup></b>	1020	1325	820	910
<b>Maximum Pressure<sup>4</sup></b>	25" w.g.	25" w.g.	25" w.g.	25" w.g.

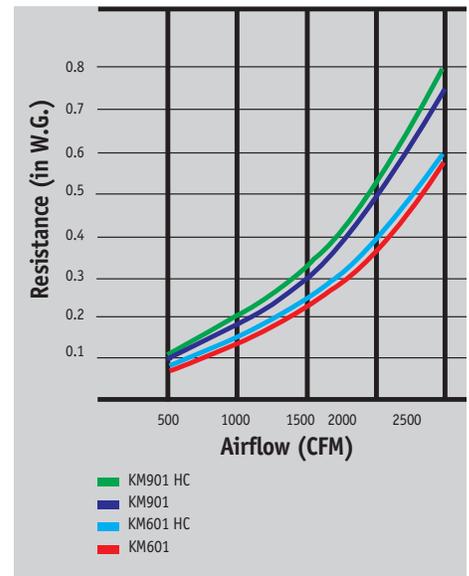
<sup>1</sup> ASHRAE Test Standard 52.1 - 1999

<sup>2</sup> ASHRAE Test Standard 52.2 - 2007

<sup>3</sup> AC Fine Test Dust

<sup>4</sup> Pressure at which structural damage to the Maxi-Cell will occur

Resistance vs. Airflow



### Additional Maxi-Cell Product Information

- Maxi-Cells should be installed with the pleats in vertical position. Each filter is labeled with filter size, safety codes, and airflow indicators to insure proper installation.
- Data listed above concerning dust holding does not account for the use of prefilters. Proper use of prefilters will often result in higher overall dust holding and extend the lifecycle of the Maxi-Cell final filter.
- Maxi-Cell filters are U.L. Class 1 listed.
- Product design and specification are subject to change without notice.



### Corporate Offices

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 Kansas City, MO • Louisville, KY\* • Madbury, NH • Nashville, TN • Rancho Cucamonga, CA\*

\*Denotes manufacturing site.

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Koch Filter Corporation maintains a policy of continuous product research and improvement, and retains the right to change product specification and design without notice.



Look for the Koch Green icon! Whenever you see the Koch Green icon, we are identifying a product that meets or exceeds our criteria in one or more of the following categories: Earns LEED Points, Reduces Energy Costs, Extends Filter Lifecycles, Conserves Resources, and Improves Indoor Environmental Quality.

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