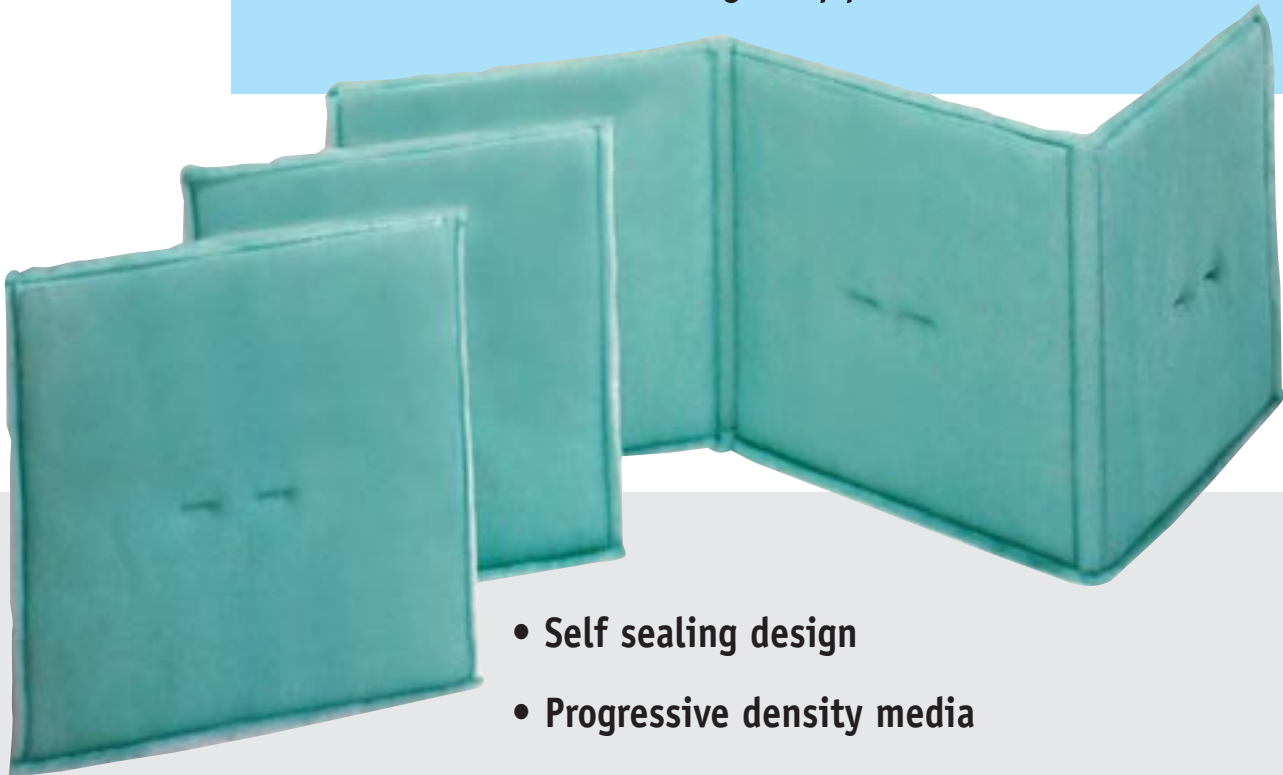




**Koch Filter Corporation**  
Filtration Products Crafted with Pride

# *Maxi-Grid™*

*A Complete Line of  
Internally-Supported Panel Filters*



- Self sealing design
- Progressive density media
- Durable steel internal support wire
- Individual panels or link panels for front access holding frames or side-access housings
- Excellent filter for high moisture applications

# Maxi-Grid A Complete Line of Internally-Supported Panel filters

Koch Filter Corporation offers six unique **Maxi-Grid Panel Filters** for use as prefilters or final filters in commercial and industrial air filtration systems of all types. Koch MG Panels are widely used in commercial office buildings, hospitals, paint spray booths, universities, and in many manufacturing facilities.



**MG200**



**MG300**



**MG400**

## General Description and Primary Application(s)

Economical, 3-ply, UL Class 1 panel filter. For use in commercial buildings, hospitals, industrial plants, and paint spray booths.

All-purpose 3-ply panel filter. For use in commercial buildings, hospitals and industrial plants.

Heavy-duty 4-ply panel designed for applications requiring higher efficiency. For use in commercial buildings, hospitals, industrial plants, and paint spray booths.

## Primary Feature

UL Class 1; cost-effective 3-ply

Excellent replacement for standard and high capacity pleated filters. Ideal for high moisture applications.

MERV 11, antimicrobial-treated, 4-ply panel.

## Physical Description (upstream /downstream)

White / Green

White / Pink

White / Green

## Steel wire support

Rust resistant, 9-gauge internal steel wire support

Rust resistant, 9-gauge internal steel wire support

Rust resistant, 9-gauge internal steel wire support

## MERV Rating (According to ASHRAE 52.2)

MERV 7

MERV 8

MERV 11

## Initial Pressure Drop

.36" w.g. @ 400 FPM

.28" w.g. @ 400 FPM

.48" w.g. @ 400 FPM

## Dust Holding Capacity (According to ASHRAE 52.1)

243 grams @ 1.5" w.g.

268 grams @ 1.5" w.g.

195 grams @ 1.5" w.g.

## Arrestance Efficiency (According to ASHRAE 52.1)

89.76%

88.79%

92.53%

## UL Classification

UL Class 1

UL Class 2

UL Class 2

## Tackifier (non-migrating)

Downstream

Encapsulated between 2nd and 3rd layers

Downstream

## Antimicrobial Treatment

No

No

Yes

## Available in Links

Yes

Yes

Yes

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**MG550**



**MG600**



**Slip-On Sleeves**

	MG550	MG600	Slip-On Sleeves
<b>General Description and Primary Application(s)</b>	3-ply all-white antimicrobial tackified panel with heavy duty wire support. For use in commercial buildings, hospitals, industrial plants, and paint spray booths.	Externally supported diffusion panel filter designed for crossdraft and downdraft paint spray booths, automotive plants, and coating applications.	Available in two versions, Type SS (polyester and spunbonded) and Type DL (dual-layered polyester). Both feature replaceable wire frames. For use in fan coil units, package air conditioning units in hotels, commercial buildings, and hospitals.
<b>Primary Feature</b>	Antimicrobial-treated, all-white "non-glare" panel.	Combination air filter and diffusor panel for industrial paint spray booths.	Economical replacement for fiberglass filters. Individual sleeves or sleeve rolls.
<b>Physical Description</b> (upstream /downstream)	White / White (air exit marked)	White / White (air exit marked)	White / White
<b>Steel wire support</b>	Rust resistant, 9-gauge internal steel wire support	Rust resistant, 9-gauge external steel wire	Replaceable, rust resistant, 9-gauge internal steel wire
<b>MERV Rating</b> (According to ASHRAE 52.2)	MERV 8	N/A	MERV 5
<b>Initial Pressure Drop</b>	.33" w.g. @ 400 FPM	.21" w.g. @ 100 FPM	Type SS: .30" w.g./Type DL: .34" w.g. @ 400 FPM
<b>Dust Holding Capacity</b> (According to ASHRAE 52.1)	245 grams @ 1.5" w.g.	117 grams @ 1.5" w.g.	Type SS: 105 grams/Type DL: 140 grams @ 1.5" w.g.
<b>Arrestance Efficiency</b> (According to ASHRAE 52.1)	89.67%	96%	85%
<b>UL Classification</b>	UL Class 2	UL Class 2	UL Class 2
<b>Tackifier</b> (non-migrating)	Downstream	Individual fibers are tackified	No tackifier
<b>Antimicrobial Treatment</b>	Yes	No	No
<b>Available in Links</b>	Yes	Yes	No



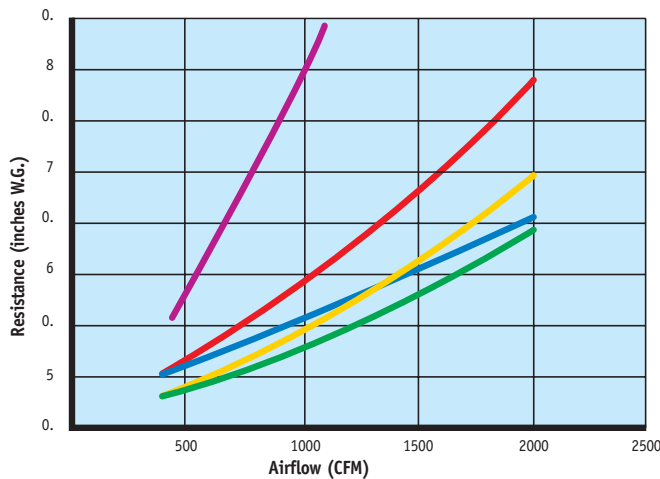
## Link Panels

Koch Maxi-Grid Panels are also available linked in a continuous series of panels for installation into side access filter housings. MG Link Panels allow for quick and easy installation and removal of the filter from the channel as a single unit. Link Panels eliminate the possibility of air bypass caused by gaps between filters or gaps at the end of a filter track.

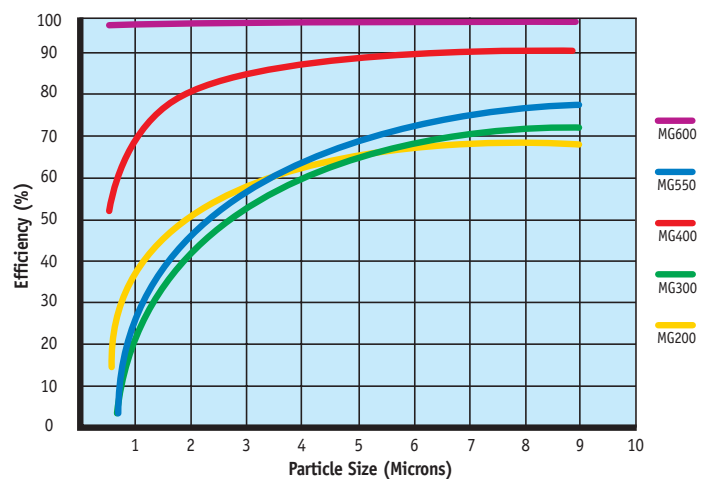
## Maxi-Grid Technical Data and Performance Specifications

Nominal Size	Actual Wire Size	Capacity (CFM) Low/Med/High	Resistance (in W.G.)														
			MG 200			MG 300			MG 400			MG 550			MG 600		
			300	400	500 FPM	300	400	500 FPM	300	400	500 FPM	300	400	500 FPM	300	400	500 FPM
10x20"	9 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> "	417/556/694	.24/.36/.49	.19/.28/.38	.34/.48/.67	.25/.33/.41	.91/1.38/1.92										
12x24	11 <sup>1</sup> / <sub>2</sub> x 23 <sup>1</sup> / <sub>2</sub>	600/800/1000	.24/.36/.49	.19/.28/.38	.34/.48/.67	.25/.33/.41	.91/1.38/1.92										
16x20	15 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub>	667/889/1111	.24/.36/.49	.19/.28/.38	.34/.48/.67	.25/.33/.41	.91/1.38/1.92										
16x25	15 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub>	833/1111/1389	.24/.36/.49	.19/.28/.38	.34/.48/.67	.25/.33/.41	.91/1.38/1.92										
20x20	19 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub>	833/1111/1389	.24/.36/.49	.19/.28/.38	.34/.48/.67	.25/.33/.41	.91/1.38/1.92										
20x24	19 <sup>1</sup> / <sub>2</sub> x 23 <sup>1</sup> / <sub>2</sub>	1000/1333/1667	.24/.36/.49	.19/.28/.38	.34/.48/.67	.25/.33/.41	.91/1.38/1.92										
20x25	19 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub>	1050/1388/1736	.24/.36/.49	.19/.28/.38	.34/.48/.67	.25/.33/.41	.91/1.38/1.92										
24x24	23 <sup>1</sup> / <sub>2</sub> x 23 <sup>1</sup> / <sub>2</sub>	1200/1600/2000	.24/.36/.49	.19/.28/.38	.34/.48/.67	.25/.33/.41	.91/1.38/1.92										

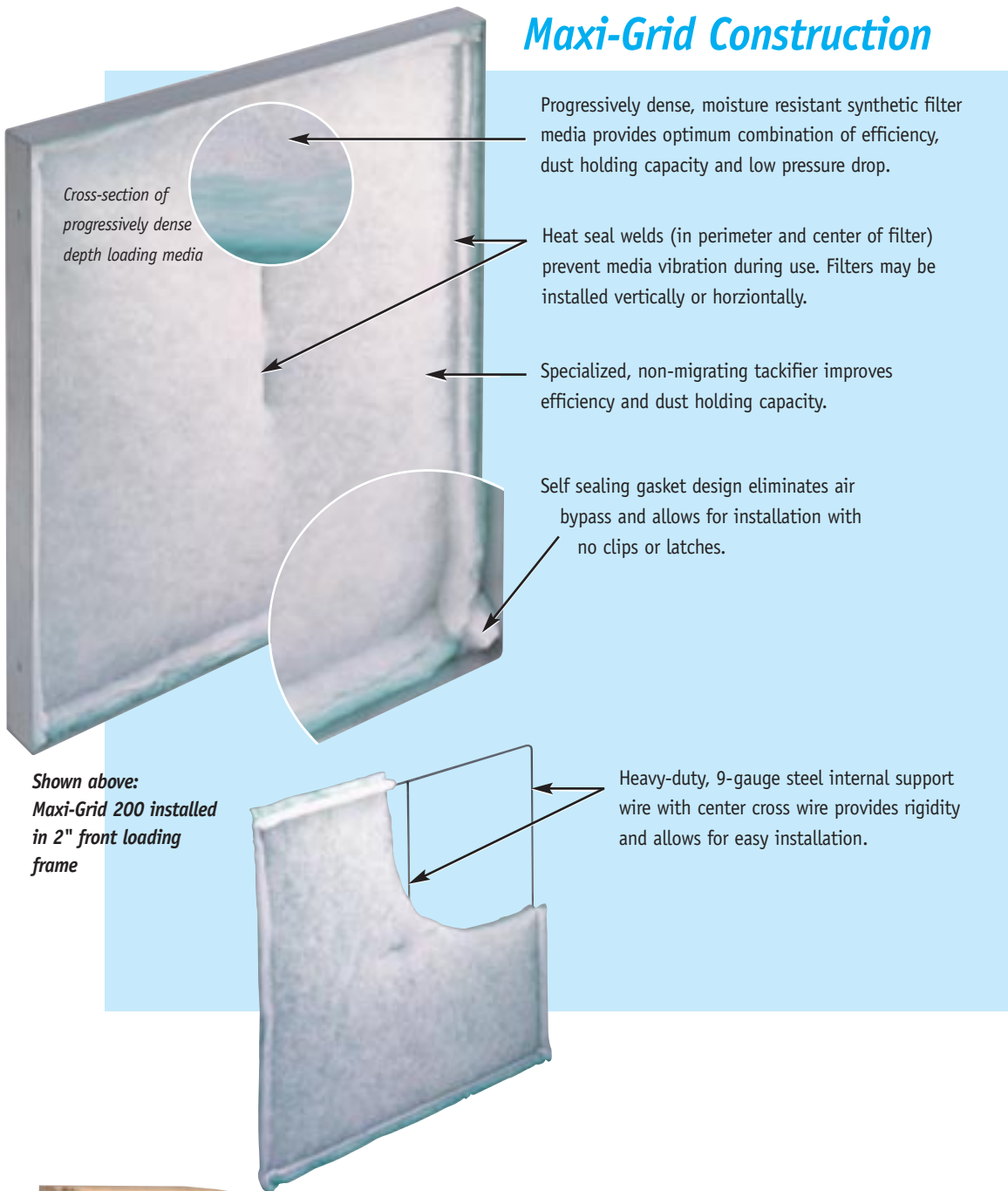
*Airflow vs. Resistance*



*Particle Fractional Efficiency*



## Maxi-Grid Construction



Cross-section of progressively dense depth loading media

Progressively dense, moisture resistant synthetic filter media provides optimum combination of efficiency, dust holding capacity and low pressure drop.

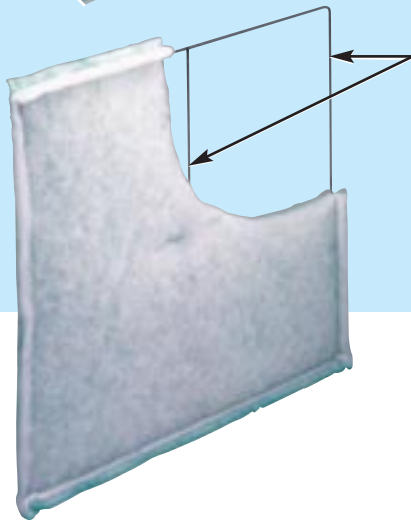
Heat seal welds (in perimeter and center of filter) prevent media vibration during use. Filters may be installed vertically or horizontally.

Specialized, non-migrating tackifier improves efficiency and dust holding capacity.

Self sealing gasket design eliminates air bypass and allows for installation with no clips or latches.

Shown above:  
Maxi-Grid 200 installed in 2" front loading frame

Heavy-duty, 9-gauge steel internal support wire with center cross wire provides rigidity and allows for easy installation.



## Space-saving packaging

Koch Maxi-Grid Filters reduce the cost of shipping and storage by as much as half when compared to standard 2" filters. Standard cardboard-framed filters are packaged 12 per carton (shown on left), while Koch MG Panels are packaged 24 in a single carton.

Koch MG Panels will save valuable storage space, as well as allow maintenance personnel to make fewer trips when carrying filters to the air handler.



Standard cardboard-framed filters packaged 12 per carton.



Koch MG Panels packaged 24 in a single carton.



## Koch Filter Corporation

Filtration Products Crafted with Pride

### Local Sales Offices/ Distribution Centers

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Cincinnati  
Denver  
Houston\*  
Indianapolis  
Kansas City  
Nashville  
St. Louis

\* denotes manufacturing site



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