



Micro Guard® LR

E-pleat® embossed pleating technology

99% Efficiency on 0.3 micron particulate

(98% Efficiency on 0.3 micron – ASHRAE Frames)

Introduction

Micro Guard® LR utilize high efficiency filtration and pleating technologies to produce a filter suitable for general HVAC systems with ASHRAE grade filter framing.

Media and Pack Design

Micro Guard LR is the result of combining filtration media and pleating technologies. The media is a hybrid synthetic incorporating proven proprietary processes. Pleated media packs are manufactured with our E-pleat® equipment, which incorporates non-metal, adhesive separators to maintain pleat geometry and spacing. This maximizes the available media area for filtration and air flow capacity.

Filter Frame

Micro Guard LR is available in 16 gauge and 24 gauge metal box construction for traditional HEPA frame and side-access system applications. Product efficiency for this style of construction is 99% on 0.3 micron particulate.

Micro Guard LR is also available in high-impact polystyrene (HIPS) frame; single-header and box designs and is intended for use in ASHRAE grade frame systems. HIPS sides result in reduced weight and easier handling, installation and removal. Product efficiency for this style of construction is 98% on 0.3 micron particulate.

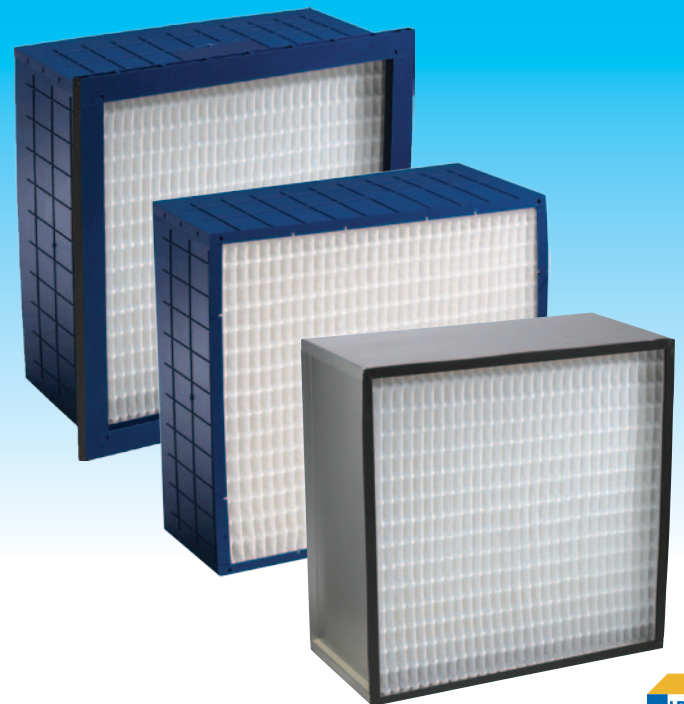
All Micro Guard LR is potted with urethane sealant to enhance performance and durability.

Gasket

Dove tail interlocking gasket is standard for Micro Guard LR. Gasket is $\frac{1}{4} \times \frac{3}{4}$ and is installed on the air leaving side of box construction and on one vertical side of the header in single header frames. Alternative gasket locations are available upon request.

UL Classification

Micro Guard LR is classified per UL Standard 900 for flammability.



Patent #6,685,833



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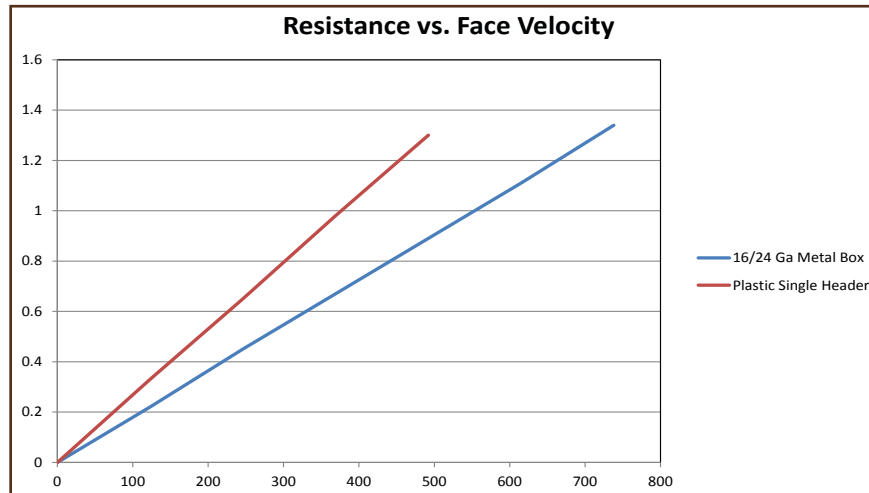
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Performance and Operating Data

Construction Code	Model Number	Actual Size (Inches) HxWxD	Rated Air Flow (CFM)	Initial Resistance (In. W.G.)	Media Area (Square Feet)	Efficiency @ 0.3 Micron	Gasket Location
24 gauge Galvanized Steel Box - HEPA Applications							
K2424B00-0EG00000E	MGLR-501-MC	24 X 24 X 11-1/2	2000	0.89	122	99%	Air-Leaving Side
K2412B00-0EG00000E	MGLR-500-MC	24 X 12 X 11-1/2	1000	0.89	61	99%	Air-Leaving Side
Plastic Frame (HIPS) Single Header - Side Access HVAC Application							
K2323B33-0PA14000E	MGLR-501A-PH-SA	23-3/8 X 23-3/8 X 11-1/2	2000	1.30	101	98%	Side Access
K2319B33-0PA14000E	MGLR-507A-PH-SA	23-3/8 X 19-3/8 X 11-1/2	1650	1.30	83	98%	Side Access
K1919BEE-0PA14000E	MGLR-506A-PH-SA	19-3/8 X 19-3/8 X 11-1/2	1400	1.30	69	98%	Side Access
K2311B33-0PA14000E	MGLR-500A-PH-SA	23-3/8 X 11-3/8 X 11-1/2	1000	1.30	49	98%	Side Access
Plastic Frame (HIPS) Box - Front Load HVAC Application							
K2323B33-0P000000E	MGLR-501A	23-3/8 X 23-3/8 X 11-1/2	2000	1.00	116	98%	Air-Leaving Side
K2319B33-0P000000E	MGLR-507A	23-3/8 X 19-3/8 X 11-1/2	1650	1.00	95	98%	Air-Leaving Side
K1919BEE-0P000000E	MGLR-506A	19-3/8 X 19-3/8 X 11-1/2	1400	1.00	79	98%	Air-Leaving Side
K2311B33-0P000000E	MGLR-500A	23-3/8 X 11-3/8 X 11-1/2	1000	1.00	56	98%	Air-Leaving Side

NOTES:

- Standard final resistance 1.5" W.G. for typical HVAC systems.
- Optimal final resistance is twice initial resistance to maximize energy savings.
- Minimum operating temperature of -5°F with a Maximum operating temperature of 160°F (Plastic) and 180°F (Metal)
- Performance data per 3rd party independent testing.



A-MICROGUARDLR-0616



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