

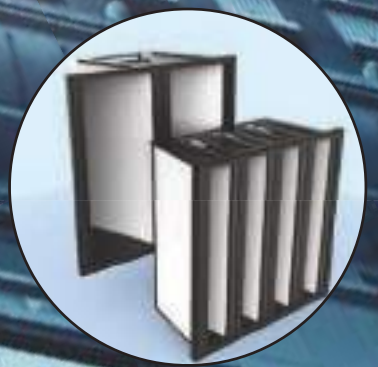
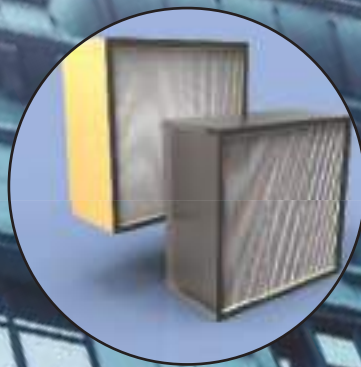
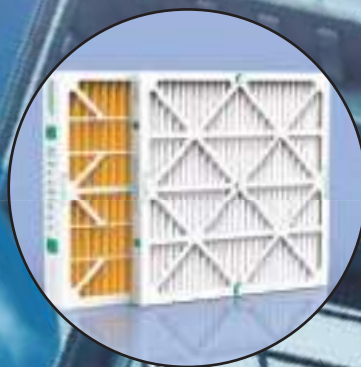


# Glasfloss<sup>®</sup> Industries

*Excellence in Air Filtration Since 1936*

## *Your National Source for Air Filtration*

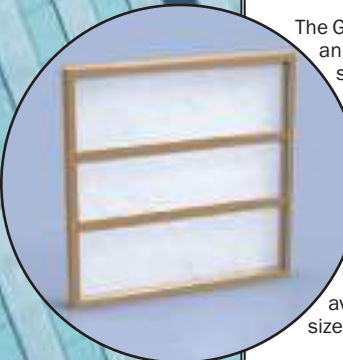
*With five manufacturing facilities  
across the U.S. to serve you.*



*Glasfloss Industries – The Clear Choice Since 1936*

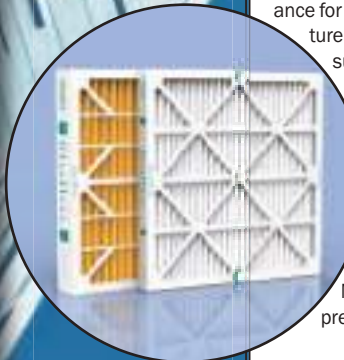
# GLASFLOSS® INDUSTRIES –

## GDS Disposable Panel Filters



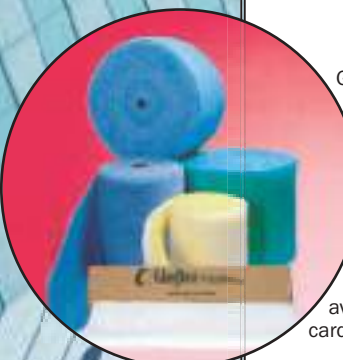
The Glasfloss GDS disposable panel filter features an innovative, reinforced, "double strut" construction for excellent durability and performance in commercial, industrial, and residential applications. The design provides 10% greater open media area than traditional metal grill filters and offers excellent dust holding capacity. In addition, the design allows for easier disposal, eliminates sharp edges for safer handling and reduces carton weight for lower shipping costs. The GDS disposable panel filter is available in 1" and 2" depths in many standard sizes.

## Z-Line® Series Pleated Filters



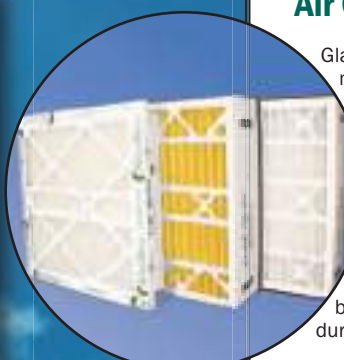
The Z-Line® Series pleated filters offer improved performance for virtually every application. All Z-Line® filters feature fibers which do not absorb moisture and will not support microbial growth. Z-Line® ZL and HV filters achieve a MERV 10 rating and MR-11 filters achieve a MERV 11 rating per the ANSI/ASHRAE 52.2 Test Standard. The Z-Line® Series products include:  
ZL - Offers excellent performance and value for a wide range of applications.  
HV - Ideal in high-velocity systems where maximum square footage of media is necessary.  
MR-11 - Provides high performance with low pressure drop for energy efficiency.

## Bulk Media & Pre-Cut Pads



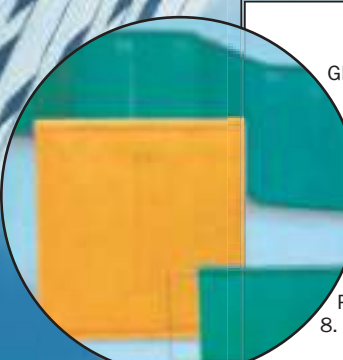
Glasfloss offers a variety of pre-cut pads and bulk media for prefilter or primary filter applications. Glasfloss pre-cut pads and bulk media come in a variety of fiberglass and 100% non-woven polyester grades that are designed for light to heavy dust-loading applications. Standard size pre-cut pads are packaged in a heavy-duty carton that allows quick access and keeps the media clean before installation. Service rolls are available and are packaged in an easy to use cardboard dispenser box.

## Air Cleaner Replacement Filters



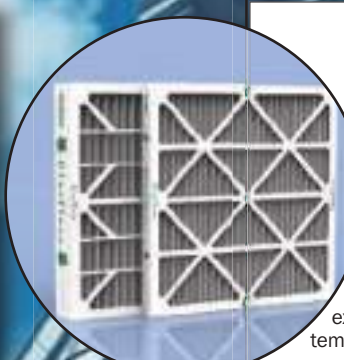
Glasfloss Z-Line® Series Air Cleaner Replacement Filters offer convenient alternatives when replacement of the original filter is necessary. The Z-Line 500AB \*(Air Bear®), 700SG (Aprilaire®), 600GA (Goodman® and Amana®), 400HW (Honeywell F-100®) and HWR Series (Honeywell FC40R®) are replacement options that require no modification to the existing housing. All are rigidly constructed utilizing high quality MERV 10, MERV 11 or MERV 13 rated filtration media backed with a metal mesh to prevent sagging during operation.

## Poly Rings, Sleeves & Links



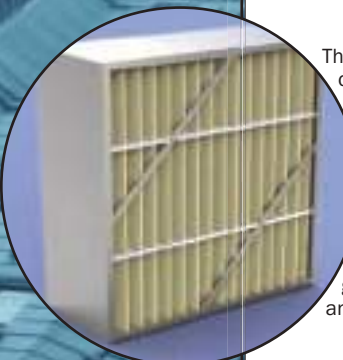
Glasfloss Poly Ring filters are made with the highest quality, multiple ply, polyester media for maximum depth loading and service life. The poly ring media is thermally sealed around a heavy-duty internal wire frame to ensure maximum durability. From an air entering filter for paint booths to upgrading a lower efficient filter installation, the Poly Ring panel filter is perfect for many filtration applications. Available in links and sleeves. PR-10 and PR-20 Poly Rings are rated MERV 8.

## Z-Line® Series Carbotron® Pleated Filters



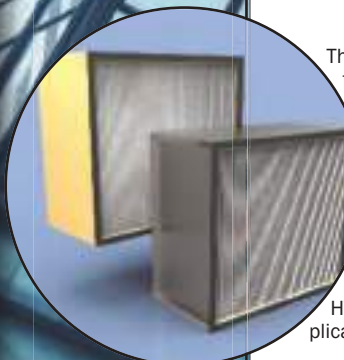
The Z-line® Series Carbotron® pleated filter combines MERV 8 particulate filtration and carbon odor removal in a single filter unit with low pressure drop. The activated carbon used in the Carbotron® Pleat has millions of tiny openings that adsorb odorous gas molecules from the air, so clean fresh smelling air remains. The Carbotron® pleat comes in a variety of sizes to directly replace existing filters with no modification to the system.

## Z-Pak® & Z-Pak® GT Rigid Cell Filters



The Glasfloss Z-Pak® extended surface filter is designed for medium and high efficiency applications. The high density microfine fibers consistently provide high performance ratings. The Glasfloss Z-Pak® is available in box or header styles and comes in a wide variety of sizes and efficiency ranges for commercial or industrial applications. Z-Pak® filters are ideal for variable air volume systems (VAV). The Z-Pak® GT is ideal for gas turbine engine, centrifugal compressor and other high velocity applications.

## Magna 600, 800, 900, HEPA, GT & HT Series



The Glasfloss Magna Series of rigid cell high efficiency and HEPA grade filters are designed to meet exact specifications in high efficiency systems. Available in a wide range of efficiencies, sizes, frame types and header combinations, the Glasfloss Magna Series combines state-of-the-art construction techniques with superior reliability offering maximum value. The Magna GT is ideal for gas turbine engine, centrifugal compressor and other high velocity applications. Magna HT filters are available for high temperature applications.

# THE CLEAR CHOICE SINCE 1936

## Excel® & Purapak® Medium & High Efficiency Bag Filters

Glasfloss offers a complete line of synthetic and fiberglass extended surface media bag filters to meet a wide range of applications. Glasfloss bag filters are rigidly constructed utilizing an exclusive internal header design that provides dependable performance. Both synthetic and fiberglass bag filters are available in a wide variety of efficiencies in standard and special sizes.

## Quad & Cube Polyester Filters

The Glasfloss line of polyester bag filters offers medium efficiency performance for a wide range of applications. The rigid, self-seal design of these filters helps prevent air bypass and allows the filters to operate under adverse conditions, especially where high humidity is present. Glasfloss Cube and Quad 440 filters feature a two-stage media for maximum efficiency and service life. The Glasfloss Quad 420 features a single stage media and is less restrictive to airflow.

## Z-Line® Series MR-13 Pleated Filters

The Z-Line® MR-13 Series pleated air filter features the latest in media technology to achieve MERV 13 while maintaining low pressure drop and good service life. The Z-Line® Series MR-13 pleat is optimized for "LEED" compliance in new and existing buildings as well as providing a cost-effective upgrade from lower efficiency pleated filters for a variety of commercial and industrial applications. The Z-Line® Series MR-13 pleat is available in many standard face dimensions in 1", 2" and 4" depths.

## Puracell® 5V Mini-Pleat Series

The Glasfloss Puracell 5V mini-pleat series offers HEPA grade performance, extremely low resistance to air flow and extended service life. The chemical resistant aluminum framework provides exceptional strength. The Glasfloss Puracell 5V mini-pleat series are produced in MERV 16 and 99.99% @ .30 micron size performance ranges and are available in exact or nominal standard sizes.

## Puracell® II Mini-Pleat Series

The Glasfloss Puracell® II Mini-Pleat Filter is ideal for use in applications where a high degree of efficiency is required in a 2" and 4" mini-pleat design. The Puracell® II offers unique advantages over traditional filters which include low cost, reduced weight and size and less impact on landfills. The Puracell® II fiberglass media is available in standard and special sizes in MERV 11, 13, 14 & 15 efficiencies, while Puracell® II-S synthetic media is available in MERV 11, 13 and 15 efficiencies. The Puracell® II M & MH fiber Series and M-S MH-S synthetic Series are available where heavy-duty metal frame construction is required.

## Puracell® VP Mini-Pleat Series

The Puracell® VP Series extended surface mini-pleat filters offer high efficiency particulate removal, extended service life and extremely low resistance to air flow. The filters incorporate a lightweight, high-impact polystyrene framework for strength and durability in demanding commercial and industrial applications. The Puracell® VP and VPX Series are available in MERV 11, 13, 14 and 15. The VP Series is also available in MERV 16 and 99.97% HEPA grade. The VP-S and VPX-S synthetic Series are available in MERV 11, 13 and 15 efficiencies. VP-GA High-Efficiency Gas Adsorber filters with activated carbon are also available.

## Puracell® II P Mini-Pleat Series

The Glasfloss Puracell® II P 4" Plastic Frame Mini-Pleat Series is designed for use in applications where a high degree of efficiency is required in a 4" deep filter. The filters combine state-of-the-art mini-pleat construction techniques with superior reliability to offer maximum value for commercial and industrial applications. Additionally, the Puracell® II P Series offers unique advantages over the traditional 12" rigid box filter including lower freight costs, reduced storage area requirements and less impact on landfills. The Glasfloss Puracell® II P & PH filters incorporate fiberglass media and are available in MERV 11, 13, 14 & 15 efficiencies, and Puracell® II P-S & PH-S filters incorporate synthetic media and are available in MERV 11, 13 & 15 efficiencies.

## Z-Pak® HC Series High Capacity Rigid Cell Filters

Glasfloss Z-Pak® HC rigid cell filters are designed for high efficiency applications and incorporate two individual filtration media layers that provide very low initial pressure drop in addition to a high dust holding capacity for superior service life. The Z-Pak® HC's total rigid construction makes it ideal for variable air volume systems (VAV), where changes in air flow can have an adverse effect on non-rigid type filters. Z-Pak® HC filters are designed to handle high airflow and are available in MERV 14 performance.

# Over 87 years of Excellence

Glasfloss Industries is the oldest American owned and operated manufacturer of HVAC filters. Established in 1936, Glasfloss has grown from a small, special-size air filter fabricator in New York City to a full-line manufacturer with plants strategically located throughout the United States.

After decades of serving the air filtration industry, Glasfloss has built a worldwide reputation for quality products which provide reliable performance and superior value. Our unique ability to work with customers on special product needs and requests is the result of over 87 years of manufacturing experience and our continuing commitment to research and development.

Today with new technologies and expanding production capabilities, Glasfloss leads the industry the same way it started more than 87 years ago: by furnishing the special needs of the air filtration industry with quality products, competitive prices, and the best lead times in the industry.

From Disposable Panel Filters to HEPA filters, Glasfloss is the Clear Choice for all of your air filtration needs.



Glasfloss manufactures a variety of medium and high efficiency air filters which can be specified for LEED certification applications. For specific information on these products, please contact your local Glasfloss Sales Representative.

## Five manufacturing facilities across the U.S. to serve you.



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CORPORATE HEADQUARTERS:  
420 E. Danieldale Rd. • DeSoto, Texas 75115  
(214) 741-7056 • Fax (800) 435-8377

[www.glasfloss.com](http://www.glasfloss.com)

Bulletin No. GBR - 1-12-2023



Glasfloss has a policy of uninterrupted research, development and product improvement and reserves the right to change design and specifications without notice.



## GDS Disposable Panel Filters

- Progressively Dense Heavy Duty Media
- Heavy-Duty One Piece Box Frame Construction
- Thermally Bonded

### FEATURES

The Glasfloss GDS disposable panel filter features an innovative, reinforced, "double strut" construction for excellent durability and performance in commercial, industrial, and residential applications. The design provides 10% greater open media area than traditional metal grill filters and offers excellent dust holding capacity. In addition, the design allows for easier disposal, eliminates sharp edges for safer handling and reduces carton weight for lower shipping costs. The GDS disposable panel filter is available in 1" and 2" depths in many standard sizes.

The Glasfloss GDS disposable filter shall be constructed of a heavy-duty, one piece craftboard frame. All corners shall be closed and sealed. The fiberglass filter media shall be coated with a non-toxic, non-flammable, odor free adhesive. The fiberglass media shall be constructed in a progressively dense fashion from air entering to air leaving side. The fiberglass media shall have a skin backing on the air entering and the air leaving side. The media and reinforced strut retainers shall be glued and sealed inside a heavy-duty, craftboard frame. All filters shall be classified under U.L. std. 900.

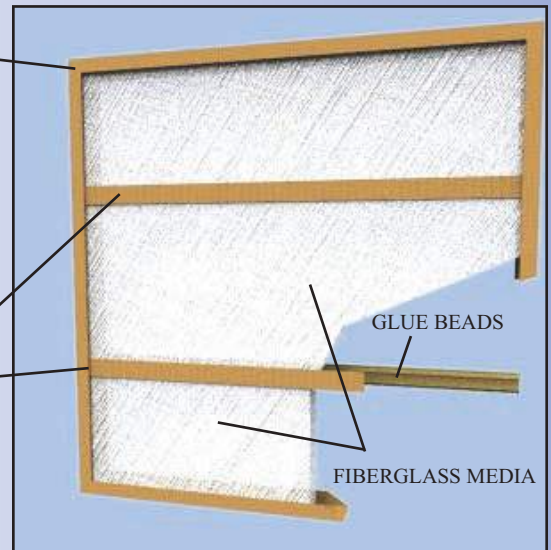
CRAFTBOARD FRAME

### SPECIFICATIONS

DOUBLE REINFORCEMENT STRUTS

GLUE BEADS

FIBERGLASS MEDIA



**1" Performance Data**

SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	MEDIA SQUARE FOOT	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
10 x 10 x 1	9-5/8 x 9-5/8 x 3/4	300	0.09	0.69	254 x 254 x 25	5490	22.41
10 x 20 x 1	9-5/8 x 19-5/8 x 3/4	300	0.09	1.38	254 x 508 x 25	5490	22.41
10 x 24 x 1	9-5/8 x 23-5/8 x 3/4	300	0.09	1.66	254 x 610 x 25	5490	22.41
10 x 25 x 1	9-5/8 x 24-5/8 x 3/4	300	0.09	1.75	254 x 635 x 25	5490	22.41
10 x 30 x 1	9-5/8 x 29-5/8 x 3/4	300	0.09	2.08	254 x 762 x 25	5490	22.41
12 x 20 x 1	11-5/8 x 19-5/8 x 3/4	300	0.09	1.66	305 x 508 x 25	5490	22.41
12 x 24 x 1	11-5/8 x 23-5/8 x 3/4	300	0.09	2.00	305 x 610 x 25	5490	22.41
12 x 25 x 1	11-5/8 x 24-5/8 x 3/4	300	0.09	2.08	305 x 635 x 25	5490	22.41
12 x 30 x 1	11-5/8 x 29-5/8 x 3/4	300	0.09	2.50	305 x 762 x 25	5490	22.41
14 x 20 x 1	13-5/8 x 19-5/8 x 3/4	300	0.09	1.94	356 x 508 x 25	5490	22.41
14 x 25 x 1	13-5/8 x 24-5/8 x 3/4	300	0.09	2.43	356 x 635 x 25	5490	22.41
14 x 30 x 1	13-5/8 x 29-5/8 x 3/4	300	0.09	2.91	356 x 762 x 25	5490	22.41
15 x 20 x 1	14-5/8 x 19-5/8 x 3/4	300	0.09	2.08	381 x 508 x 25	5490	22.41
15 x 30-5/8 x 1	14-5/8 x 30-1/4 x 3/4	300	0.09	3.19	381 x 778 x 25	5490	22.41
16 x 16 x 1	15-5/8 x 15-5/8 x 3/4	300	0.09	1.77	406 x 406 x 25	5490	22.41
16 x 20 x 1	15-5/8 x 19-5/8 x 3/4	300	0.09	2.22	406 x 508 x 25	5490	22.41
16 x 25 x 1	15-5/8 x 24-5/8 x 3/4	300	0.09	2.47	406 x 635 x 25	5490	22.41
18 x 25 x 1	17-5/8 x 24-5/8 x 3/4	300	0.09	3.13	457 x 635 x 25	5490	22.41
20 x 20 x 1	19-5/8 x 19-5/8 x 3/4	300	0.09	2.77	508 x 508 x 25	5490	22.41
20 x 25 x 1	19-5/8 x 24-5/8 x 3/4	300	0.09	3.47	508 x 635 x 25	5490	22.41
22 x 22 x 1	21-5/8 x 21-5/8 x 3/4	300	0.09	3.36	559 x 559 x 25	5490	22.41
24 x 24 x 1	23-5/8 x 23-5/8 x 3/4	300	0.09	4.00	610 x 610 x 25	5490	22.41
25 x 25 x 1	24-5/8 x 24-5/8 x 3/4	300	0.09	4.34	635 x 635 x 25	5490	22.41
8 x 30 x 1	7-5/8 x 29-5/8 x 3/4	300	0.09	1.66	203 x 762 x 25	5490	22.41
12 x 12 x 1	11-5/8 x 11-5/8 x 3/4	300	0.09	1.00	305 x 305 x 25	5490	22.41
12 x 16 x 1	11-5/8 x 15-5/8 x 3/4	300	0.09	1.33	305 x 406 x 25	5490	22.41
12 x 18 x 1	11-5/8 x 17-5/8 x 3/4	300	0.09	1.50	305 x 457 x 25	5490	22.41
12 x 36 x 1	11-5/8 x 35-5/8 x 3/4	300	0.09	3.00	305 x 914 x 25	5490	22.41
14 x 14 x 1	13 5/8 x 13 5/8 x 3/4	300	0.09	1.36	356 x 356 x 25	5490	22.41
14 x 18 x 1	13-5/8 x 17-5/8 x 3/4	300	0.09	1.75	356 x 457 x 25	5490	22.41
14 x 24 x 1	13-5/8 x 23-5/8 x 3/4	300	0.09	2.33	356 x 610 x 25	5490	22.41
15 x 25 x 1	14-5/8 x 24-5/8 x 3/4	300	0.09	2.60	381 x 635 x 25	5490	22.41
15 x 30 x 1	14-5/8 x 29-5/8 x 3/4	300	0.09	3.12	381 x 762 x 25	5490	22.41
16 x 18 x 1	15-5/8 x 17-5/8 x 3/4	300	0.09	2.00	406 x 457 x 25	5490	22.41
16 x 24 x 1	15-5/8 x 23-5/8 x 3/4	300	0.09	2.67	406 x 610 x 25	5490	22.41
16 x 30 x 1	15-5/8 x 29-5/8 x 3/4	300	0.09	3.33	406 x 762 x 25	5490	22.41
18 x 18 x 1	17-5/8 x 17-5/8 x 3/4	300	0.09	2.25	457 x 457 x 25	5490	22.41
18 x 20 x 1	17-5/8 x 19-5/8 x 3/4	300	0.09	2.50	457 x 508 x 25	5490	22.41
18 x 24 x 1	17-5/8 x 23-5/8 x 3/4	300	0.09	3.00	457 x 610 x 25	5490	22.41
18 x 30 x 1	17-5/8 x 29-5/8 x 3/4	300	0.09	3.75	457 x 762 x 25	5490	22.41
20 x 22-1/4 x 1	19-5/8 x 21-7/8 x 3/4	300	0.09	3.09	508 x 565 x 25	5490	22.41
20 x 24 x 1	19-5/8 x 23-5/8 x 3/4	300	0.09	3.33	508 x 610 x 25	5490	22.41
20 x 30 x 1	19-5/8 x 29-5/8 x 3/4	300	0.09	4.17	508 x 762 x 25	5490	22.41
24 x 30 x 1	23-5/8 x 29-5/8 x 3/4	300	0.09	5.00	610 x 762 x 25	5490	22.41

Tolerances shall be +/- 1/8" for height and width. All special sizes will be undersized 1/8" unless specified otherwise. Recommended final resistance is 0.50" in. w. g.

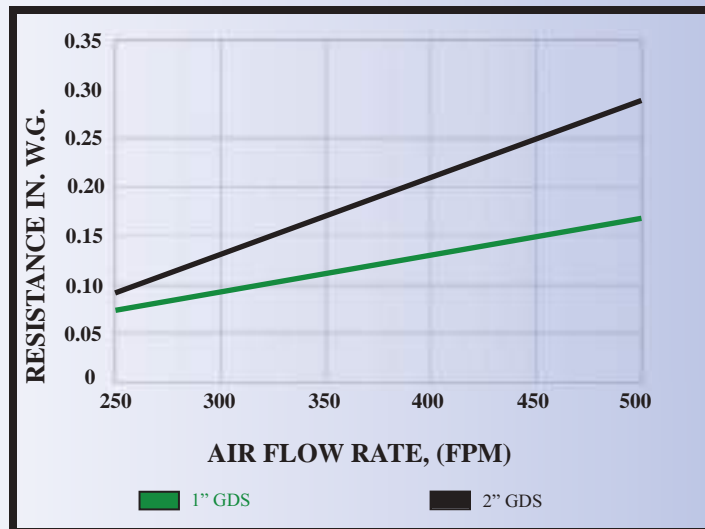
### 2" Performance Data

SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	MEDIA SQUARE FOOT	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
10 x 20 x 2	9-5/8 x 19-5/8 x 1-5/8	500	0.28	1.38	254 x 508 x 51	9150	69.74
12 x 24 x 2	11-3/8 x 23-3/8 x 1-5/8	500	0.28	2.00	305 x 610 x 51	9150	69.74
14 x 20 x 2	13-5/8 x 19-5/8 x 1-5/8	500	0.28	1.94	356 x 508 x 51	9150	69.74
14 x 25 x 2	13-5/8 x 24-5/8 x 1-5/8	500	0.28	2.43	356 x 635 x 51	9150	69.74
15 x 20 x 2	14-5/8 x 19-5/8 x 1-5/8	500	0.28	2.08	381 x 508 x 51	9150	69.74
16 x 16 x 2	15-5/8 x 15-5/8 x 1-5/8	500	0.28	1.78	406 x 407 x 51	9150	69.74
16 x 20 x 2	15-5/8 x 19-5/8 x 1-5/8	500	0.28	2.22	406 x 508 x 51	9150	69.74
16 x 24 x 2	15-5/8 x 23-5/8 x 1-5/8	500	0.28	2.67	406 x 610 x 51	9150	69.74
16 x 25 x 2	15-5/8 x 24-5/8 x 1-5/8	500	0.28	2.77	406 x 635 x 51	9150	69.74
18 x 24 x 2	17-5/8 x 23-5/8 x 1-5/8	500	0.28	3.00	457 x 610 x 51	9150	69.74
20 x 20 x 2	19-5/8 x 19-5/8 x 1-5/8	500	0.28	2.77	508 x 508 x 51	9150	69.74
20 x 24 x 2	19-3/8 x 23-3/8 x 1-5/8	500	0.28	3.33	508 x 610 x 51	9150	69.74
20 x 25 x 2	19-5/8 x 24-5/8 x 1-5/8	500	0.28	3.47	508 x 635 x 51	9150	69.74
24 x 24 x 2	23-3/8 x 23-3/8 x 1-5/8	500	0.28	4.00	610 x 610 x 51	9150	69.74
25 x 25 x 2	24-5/8 x 24-5/8 x 1-5/8	500	0.28	4.34	635 x 635 x 51	9150	69.74

Tolerances shall be +/- 1/8" for height and width. All special sizes will be undersized 1/8" unless specified otherwise. Recommended final resistance is 0.50" in. w. g.

### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" Nominal



## GDS Series Features

The Glasfloss GDS disposable panel filter features an innovative, reinforced, "double strut" construction for excellent durability and performance in commercial, industrial, and residential applications. The design provides 10% greater open media area than traditional metal grill filters and offers excellent dust holding capacity. In addition, the design allows for easier disposal, eliminates sharp edges for safer handling and reduces carton weight for lower shipping costs. The GDS disposable panel filter is available in 1" and 2" depths in many standard sizes.

Glasfloss Industries incorporates color-coded carton labels on standard sizes to help identify the product, which enhance warehouse operations and shipments.







## Pads & Bulk Media

- Progressively Dense Fiberglass or 100% Non-woven Polyester
- Standard and Special Sizes Available
- Skin Backing on Air Leaving Side of Fiberglass
- Service Roll in Easy-to-Use Cardboard Dispenser Box

### FEATURES



Glasfloss offers a variety of pre-cut pads and bulk media for pre-filter or primary filter applications. Glasfloss pre-cut pads and bulk media come in a variety of fiberglass and 100% non-woven polyester grades that are designed for light to heavy dust-loading applications. Standard size pre-cut pads are packaged in a heavy-duty carton that allows quick access and keeps the media clean before installation. Service rolls are available and are packaged in an easy to use cardboard dispenser box.



### SPECIFICATIONS

Media Type	Color	Nominal Thickness	Media Structure	Adhesive	Backing
Commercial	White	1" & 2"	Progressive Density Fiberglass	Light	"Skin"
Paint Arrestor	Green/White	2-1/2"	Progressive Density Fiberglass	-	"Skin"
Hi-Pak	Yellow/White	3"	Progressive Density Fiberglass	Heavy	"Skin"
HL-4	White	1"	Non-Woven Polyester	-	-
HL-8	White	2"		-	-
125-4P	Blue/White	5/8"	Non-Woven Polyester	Moderate	-
125-7P	Blue/White	1"		Moderate	-
P5T	Green/White	1/2"	Multi-ply Polyester	Moderate	-
P10T	Orange/White	1"	Multi-ply Polyester	Moderate	-
P20T	Orange/White	2"	Multi-ply Polyester	Moderate	-
Hoghair	Blue	1"	Synthetic Fibers	-	-

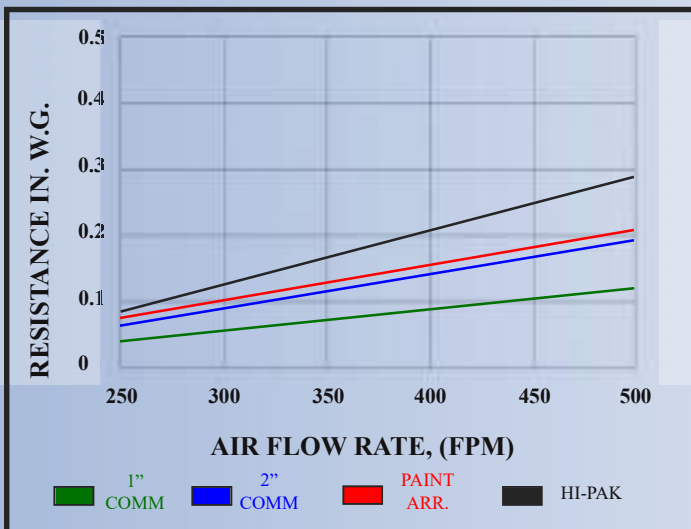
## Pads and Bulk Media Specifications

COMMERCIAL	PAINT ARRESTOR	HI-PAK
<ul style="list-style-type: none"> <li>· Continuous Filament Fiberglass</li> <li>· 1" &amp; 2" Nominal Thicknesses Available</li> <li>· Graduated Density</li> <li>· Skin Backing</li> <li>· Moderate Dust Loading Capacity</li> <li>· 74%-79% Average Arrestance Efficiency</li> <li>· White Color</li> <li>· U.L. Classified</li> </ul>	<ul style="list-style-type: none"> <li>· Continuous Filament Fiberglass</li> <li>· 2-1/2" Nominal Thickness</li> <li>· Graduated Density</li> <li>· Skin Backing</li> <li>· High Paint Holding Capacity</li> <li>· 99.3% Average Removal Efficiency</li> <li>· Green on Air Entering Side</li> <li>· U.L. Classified</li> </ul>	<ul style="list-style-type: none"> <li>· Continuous Filament Fiberglass</li> <li>· 3" Nominal Thickness</li> <li>· Graduated Density</li> <li>· Skin Backing</li> <li>· High Dust Holding Capacity</li> <li>· Yellow on Air Entering Side</li> <li>· Non-flammable, Non-toxic Odor Free Adhesive</li> <li>· 85% Average Arrestance Efficiency</li> <li>· U.L. Classified</li> </ul>

HL-4	HL-8	HOGHAIR
<ul style="list-style-type: none"> <li>· 100% Non-woven Polyester</li> <li>· 1" Nominal Thickness</li> <li>· Moderate Dust Holding Capacity</li> <li>· Fire Retarding Bonding Agent</li> <li>· 82% Average Arrestance Efficiency</li> <li>· White Color</li> <li>· U.L. Classified</li> </ul>	<ul style="list-style-type: none"> <li>· 100% Non-woven Polyester</li> <li>· 2" Nominal Thickness</li> <li>· Moderate Dust Holding Capacity</li> <li>· Fire Retarding Bonding Agent</li> <li>· 83% Average Arrestance Efficiency</li> <li>· White Color</li> <li>· U.L. Classified</li> </ul>	<ul style="list-style-type: none"> <li>· 100% Synthetic Fibers</li> <li>· 1" Nominal Thickness</li> <li>· Interlocking Fiber Design</li> <li>· Heavy Dust Holding Capacity</li> <li>· Cleanable by Vacuuming, Tap Water Rinsing, Hosing or Immersion in a Detergent Solution</li> <li>· Blue Color</li> <li>· U.L. Classified</li> </ul>

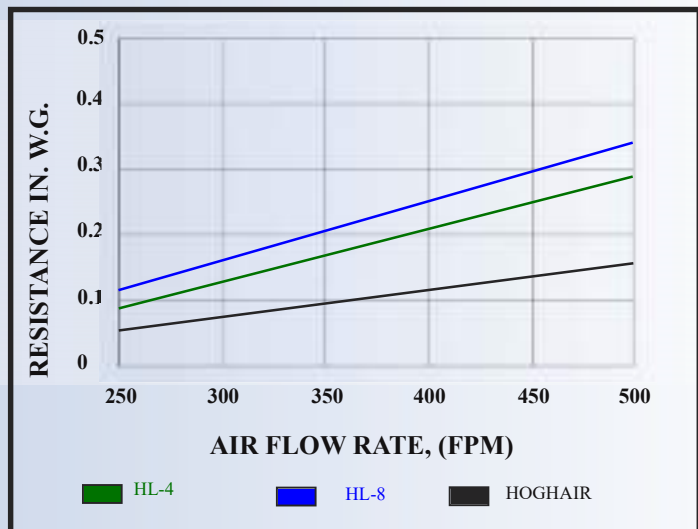
### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" Nominal



### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" Nominal



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## Pads and Bulk Media Specifications

### 125-4P

- 100% Non-woven Polyester
- 5/8" Nominal Thickness
- Graduated Density
- Non-toxic, Non-migratory Adhesive Second Stage
- Light Dust Holding Capacity
- 84% Average Arrestance Efficiency
- White on Air Entering Side
- U.L. Classified

### 125-7P

- 100% Non-woven Polyester
- 1" Nominal Thickness
- Graduated Density
- Non-toxic, Non-migratory Adhesive Second Stage
- Moderate Dust Holding Capacity
- 86% Average Arrestance Efficiency
- White on Air Entering Side
- U.L. Classified

### P5T

- 100% Non-woven Polyester
- 1/2" Nominal Thickness
- Fire Retarding Bonding Agent
- Dual Denier Fiber Configuration
- Non-toxic, Non-migratory Adhesive Second Stage
- Moderate Dust Holding Capacity
- 82% Average Arrestance Efficiency
- White on Air Entering Side
- U.L. Classified

### P10T

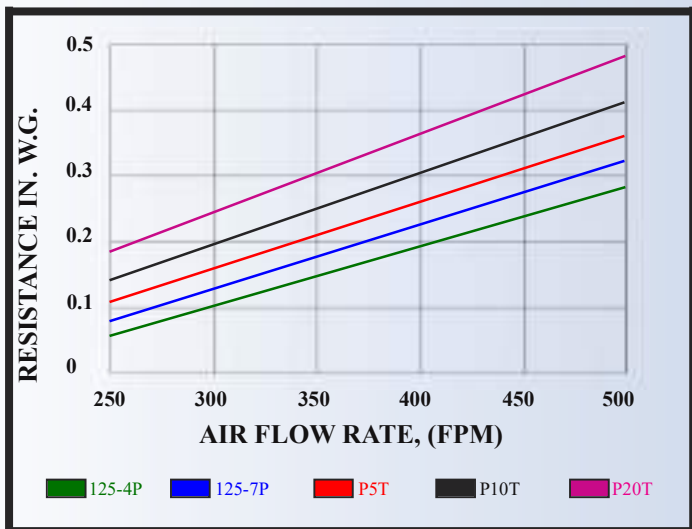
- 100% Non-woven Polyester
- 1" Nominal Thickness
- Fire Retarding Bonding Agent
- Dual Denier Fiber Configuration
- Dual Layer Filtration Stages
- Non-toxic, Non-migratory Adhesive Second Stage
- Heavy Dust Holding Capacity
- 92% Average Arrestance Efficiency
- White on Air Entering Side
- U.L. Classified
- MERV 8

### P20T

- 100% Non-woven Polyester
- 2" Nominal Thickness
- Fire Retarding Bonding Agent
- Dual Denier Fiber Configuration
- Dual Layer Filtration Stages
- Non-toxic, Non-migratory Adhesive Second Stage
- Heavy Dust Holding Capacity
- 93% Average Arrestance Efficiency
- White on Air Entering Side
- U.L. Classified
- MERV 8

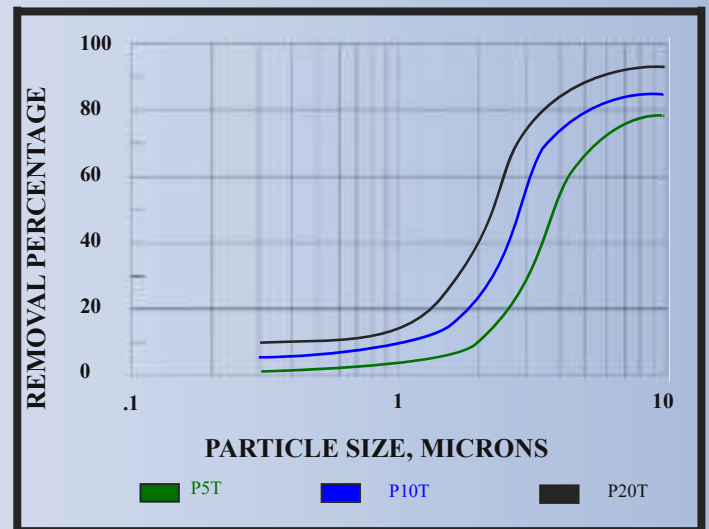
### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" Nominal



### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" Nominal





## CONSTRUCTION SPECIFICATIONS FOR PADS AND BULK MEDIA

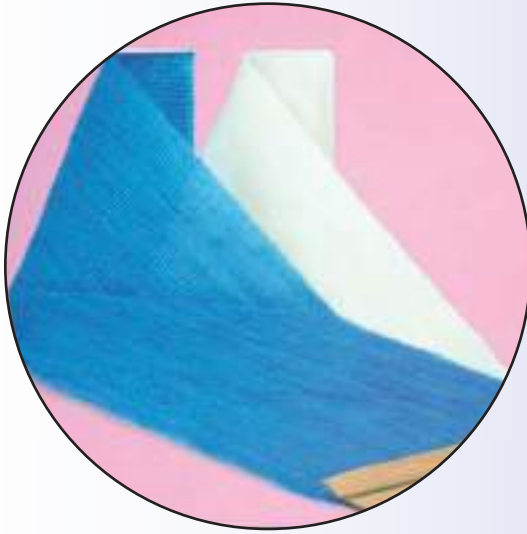
**Fiberglass:** Shall consist of continuous filament fiberglass of graduated density to ensure depth loading and long service life. The air-exit side of the fiberglass media shall incorporate a skin backing which supports the media during operation and creates a final filtration stage. The various grades of fiberglass media are engineered for a variety of dust-loading applications and shall be treated with a non-toxic, non-flammable, odorless adhesive. The paint arrestor media is engineered for various paint over-spray applications and does not contain adhesive.

**Polyester:** Shall consist of 100% non-woven polyester fibers bonded together. The polyester pre-cut pads and bulk media are engineered for a variety of applications and available in single or multi-ply grades. The polyester pre-cut pads and bulk media are available dry or treated with a non-toxic, non-migratory, odorless adhesive that is incorporated into the filter media.



Glasfloss manufactures a variety of medium and high efficiency air filters which can be specified for LEED certification applications. For specific information on these products, please contact your local Glasfloss Sales Representative.





## AUTOMATIC ROLL FILTERS

- Progressively Dense Fiberglass or 100% Non-Woven Polyester
- Scrim Backing
- Heavy-Duty Paper Leader and Trailer

### FEATURES

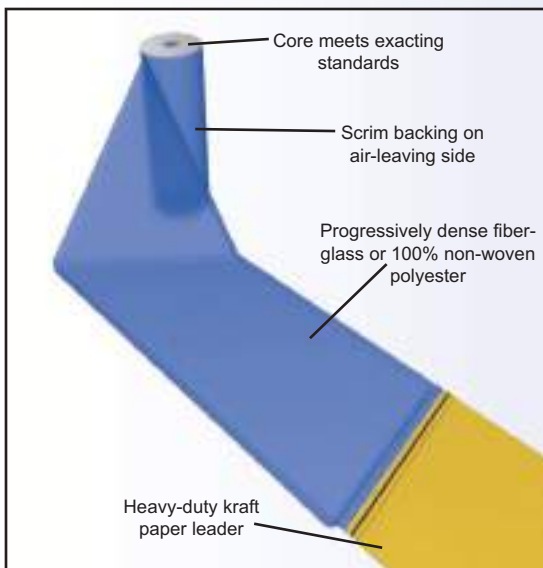


Glasfloss manufactures a complete line of roll filters for automatic roll machines. Glasfloss Automatic Roll Filters are designed to replace the original equipment filter with no modification. Glasfloss Automatic Roll Filters are available in different grades of fiberglass and polyester media in most standard widths.

Industrial facilities, commercial buildings, government installations, schools and universities use Glasfloss Automatic Roll Filters. Whether the automatic roll machine is vertical or horizontal, Glasfloss Automatic Roll Filters are available on cores designed to fit all major roll machine manufacturers.



### APPLICATIONS



### SPECIFICATIONS



Glasfloss Automatic Roll Filters are designed to fit in automatic, semi-automatic and manual type roll filter machines without modification to existing hardware. Glasfloss Roll Filters shall incorporate progressively dense fiberglass media or 100% non-woven polyester media. For added strength, the progressively dense fiberglass and 100% non-woven polyester grades of media shall incorporate a scrim backing on the air-exit side. Glasfloss Automatic Roll Filters shall incorporate a heavy-duty paper leader and trailer that is sewn to the media. The automatic roll filter's media standard length shall be sixty-five feet.

## Fiberglass Specifications

> **EC II**

EC II Automatic Roll Filters shall consist of a nominal 2" thick continuous filament fiberglass of graduated density with a unidirectional scrim backing. EC II media shall be blue in color. EC II media is engineered for moderate dust-loading applications. The fiberglass shall be treated with a non-toxic, odor-free, non-migratory tackifier. Heavy-duty kraft paper leader and trailer shall be sewn to the media to facilitate installation and removal. The media shall be wound on the specified core and shall be compatible for installation into the original equipment without modification. The media shall be sixty-five feet in length. The media shall have a 77% Average Arrestance per ANSI/ASHRAE 52.2 Test Standard. EC II Automatic Roll Filters shall incorporate media that is classified under U.L. std. 900.

## Polyester Specifications

> **1250**

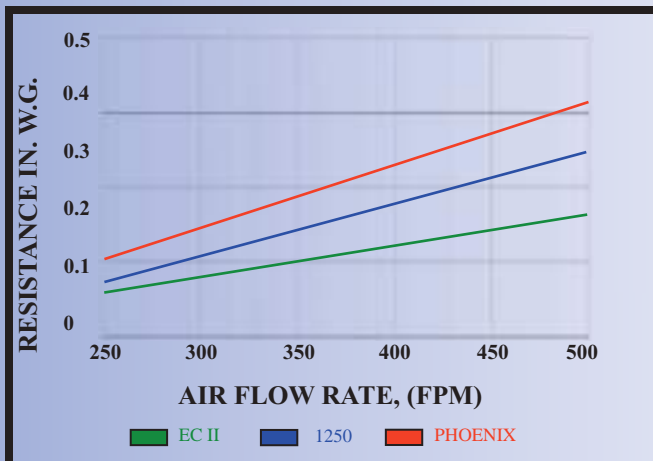
1250 Automatic Roll Filters shall consist of a nominal 5/8" thick 100% non-woven polyester media with a scrim backing. 1250 media is engineered for moderate dust-loading applications. 1250 media shall be white in color. Heavy-duty kraft paper leader and trailer shall be sewn to the media to facilitate installation and removal. The media shall be wound on the specified core and shall be compatible for installation into the original equipment without modification. The media shall be sixty-five feet in length. The media shall have a 70% Average Arrestance per ANSI/ASHRAE 52.2 Test Standard. 1250 Automatic Roll Filters shall incorporate media that is classified under U.L. std. 900.

> **PHOENIX**

PHOENIX Automatic Roll Filters shall consist of a nominal 3/4" thick 100% non-woven polyester orange and white media with a scrim backing. Phoenix media is engineered for heavy dust-loading applications. Phoenix media is impregnated during manufacturing with a non-migratory tackifier. Heavy-duty kraft paper leader and trailer shall be sewn to the media to facilitate installation and removal. The media shall be wound on the specified core and shall be compatible for installation into the original equipment without modification. The media shall be sixty-five feet in length. The media shall receive a MERV 7 rating per ANSI/ASHRAE 52.2 Test Standard. Phoenix Automatic Roll Filters shall incorporate media that is classified under U.L. std. 900.

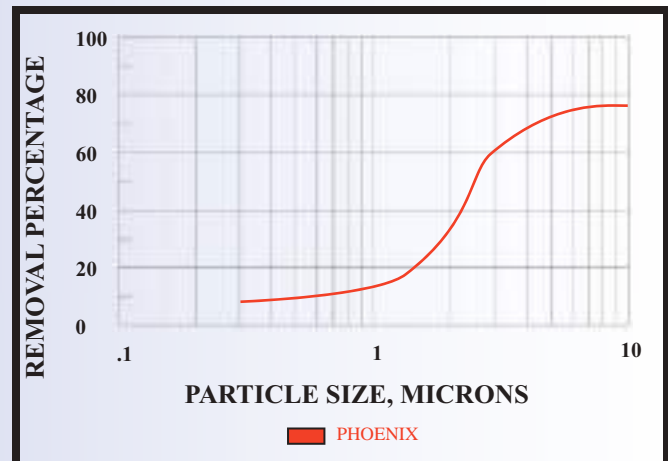
### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" Nominal





### MINIMUM PARTICLE SIZE EFFICIENCY



Test Filter Size 24" x 24" Nominal





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## Automatic Roll Filter Core Identification Guide

<b>American Air</b> Roll-O-Matic Kennard Herman- Nelson = 8" end plates Electro-Air	Type AA core is 3/4" metal pipe. Core ends are 15/16" and 13/16" with end disks of 11" diameter on both ends.		<u>Roll Width</u> 20-1/4" 22-1/4" 24-3/4" 31-7/8" 32-3/4" 38-1/2" 39-7/8" 44-3/4" 56-3/4" 68-7/8"	<u>*Model</u> 21AA 22AA 25AA 32AA 03AA 39AA 40AA 04AA 05AA 06AA	<b>Farr</b> Automatic Manual	Type FA core is 2-1/8" I.D. Notched fiberboard tube with no drive pin, discs or cups. Most Farr V-8 (vertical) units use a 1-3/4" I.D. core.		<u>Roll Width</u> 8-3/4" 14-3/4" 20-3/4" 26-3/4" 32-3/4" 38-3/4" 44-3/4" 50-3/4" 56-3/4" 68-3/4"	<u>*Model</u> 09FA 15FA 21FA 27FA 03FA 39FA 04FA 51FA 05FA 06FA
	Glasfloss ID Code <b>AA</b>	Glasfloss ID Code <b>FA</b>							

<b>Cambridge</b> Auto Roll	Type CA core is 3/4" metal pipe. Core ends are 15/16" and 13/16". Metal discs available, specify when ordering.		<u>Roll Width</u> 23-3/4" 32-3/4" 44-3/4" 56-3/4" 65-3/4" 69"	<u>*Model</u> 02CA 03CA 04CA 05CA 06CA 69CA	<b>Continental</b> Conomanual Conomatic Commercial Full-Flo Mine Safety Appl. (MSA)	Type CO core is 3" I.D. fiberboard tube with drive pin 2-1/2" from one end of tube only. No cups or discs are used.		<u>Roll Width</u> 21-7/8" 31-7/8" 43-7/8" 55-7/8" 67-7/8"	<u>*Model</u> 02CO 03CO 04CO 05CO 06CO
	Glasfloss ID Code <b>CA</b>	Glasfloss ID Code <b>CO</b>							

<b>Trane</b> Carrier	Type TR (Trane) CR (Carrier) core is 2-7/16" I.D. fiberboard tube with a metal cup secured and recessed to a depth of 1-1/2" in each end. The cups are stamped to form a 1-1/2" square.		<u>Roll Width</u> 19-3/8" 21-3/8" 25-3/4" 31-3/8" 35-3/8" 38-3/4" 45-3/8" 50-1/4" 54-3/8" 59-3/8" 61-3/4" 63-3/8"	<u>*Model</u> 19TR 21TR 25TR 31TR 35TR 38TR 45TR 50TR 54TR 59TR 61TR 63TR	<b>BLC</b>	Type BLC core is 1-1/2" I.D. EMT Conduit with 11" end plates recessed 1-3/8" from each end of core.		<u>Roll Width</u> 34-5/8" 46-5/8" 58-5/8" 70-5/8"	<u>*Model</u> 35BLC 47BLC 59BLC 71BLC
	Glasfloss ID Code <b>TR</b>	Glasfloss ID Code <b>BLC</b>							

\*The model number must be added as a suffix to the corresponding media designation to obtain proper part number.

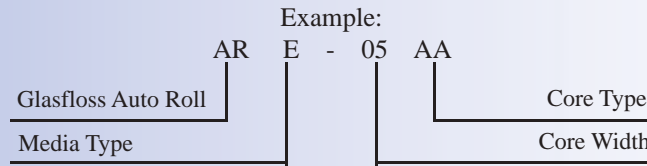
**> AUTOMATIC ROLL FILTER SPECIFICATIONS**

Glasfloss Automatic Roll Filters are designed to fit in automatic, semi-automatic and manual type roll filter machines without modification to existing hardware. Glasfloss Automatic Roll Filters shall incorporate progressively dense fiberglass media or 100% non-woven polyester media. For added strength, the progressively dense fiberglass and 100% non-woven polyester grades of media shall incorporate a scrim backing on the air-exit side. Glasfloss Automatic Roll Filters shall incorporate a heavy-duty paper leader and trailer that is sewn to the media. The automatic roll filter’s media standard length shall be sixty-five feet.

**> AUTOMATIC ROLL FILTER MEDIA SPECIFICATIONS**

- E: EC II - Nominal 2" fiberglass media with unidirectional scrim backing. The Media shall be blue in color. For moderate dust-loading applications.
- P: 1250 - Nominal 5/8" 100% Non-woven polyester media with scrim backing. The media shall be white in color. For moderate-dust loading applications.
- X: Phoenix - Nominal 3/4" 100% Non-woven polyester media with scrim backing. The media shall be orange and white in color. Tackified for heavy dust-loading applications.

**Glasfloss Automatic Roll Filter Ordering Code**



Glasfloss manufactures a variety of medium and high efficiency air filters which can be specified for LEED certification applications. For specific information on these products, please contact your local Glasfloss Sales Representative.

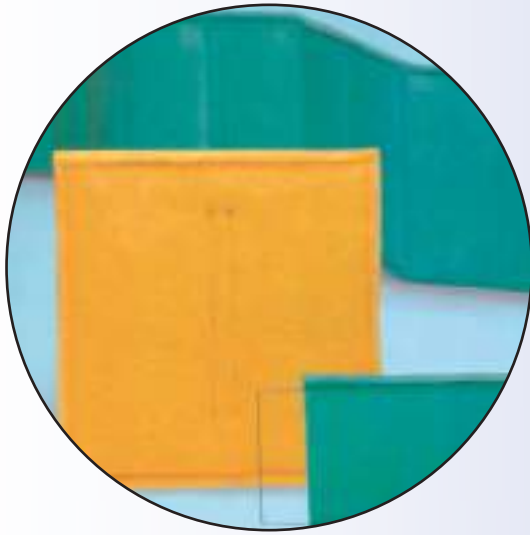


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## Phoenix Series Poly-Rings, Sleeves and Links

- Available in Rings, Sleeves and Links
- 100% Non-woven Polyester Media
- Multiple Layers of Progressively Dense Media Fibers
- Internal Wire Frame Structure
- Self-sealing Media Gasket

### FEATURES

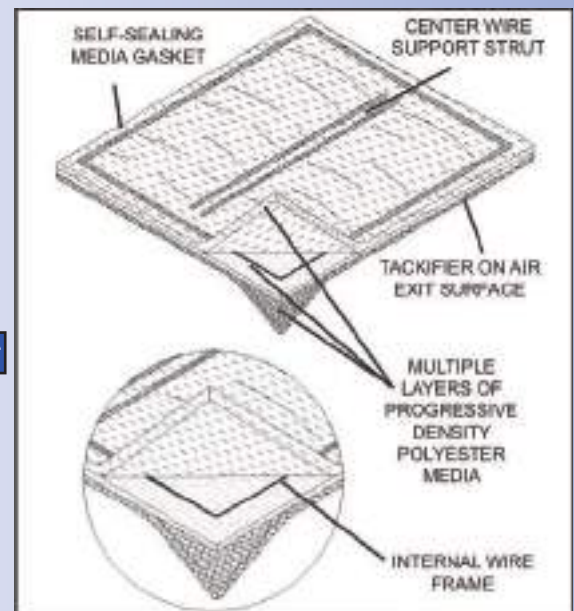


Glasfloss Phoenix Series Poly-Rings, Sleeves and Links offer a variety of styles, multiple filtration media layers and performance levels for most applications. The self-sealing media gasket advantage of the Phoenix Series prevents dirt-laden air from bypassing the filter, an occurrence common with cardboard frame filters. The Glasfloss Phoenix Series Poly-Rings are offered in nominal thicknesses (1/2": PR-5, 1": PR-10 and 2": PR-20) for a broad range of dust loading applications.

Glasfloss Phoenix Series Poly-Rings, Sleeves and Links shall be constructed utilizing layers of 100% non-woven polyester media. For optimum performance, the air leaving side of the Phoenix Series products shall be treated with a non-toxic, non-migratory adhesive. An internal wire frame shall be thermally sealed within the filter to maintain integrity. A thermal seal shall extend around the perimeter edge of the internal wire frame and on both sides of the center wire support strut, ensuring the permanent bond of all media plies. There shall be sufficient media overlap to ensure a positive seal between the filter and the holding frame, eliminating the possibility of air bypass and the need for supplemental gasketing. PR-10 and PR-20 Poly-Rings shall be rated **MERV 8** when tested in accordance with the ANSI/ASHRAE 52.2 Test Standard.



### SPECIFICATIONS



## Phoenix Series: PR-5

MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	MEDIA SQUARE FOOT
PRP1224-5	12x24x1/2	11-3/8 x 23-3/8 x 1/2	300	0.13	2.00
PRP1520-5	15x20x1/2	14-3/8 x 19-3/8 x 1/2	300	0.13	2.08
PRP1620-5	16x20x1/2	15-3/8 x 19-3/8 x 1/2	300	0.13	2.22
PRP1624-5	16x24x1/2	15-3/8 x 23-3/8 x 1/2	300	0.13	2.67
PRP1625-5	16x25x1/2	15-3/8 x 24-3/8 x 1/2	300	0.13	2.77
PRP1824-5	18x24x1/2	17-3/8 x 23-3/8 x 1/2	300	0.13	3.00
PRP2020-5	20x20x1/2	19-3/8 x 19-3/8 x 1/2	300	0.13	2.77
PRP2024-5	20x24x1/2	19-3/8 x 23-3/8 x 1/2	300	0.13	3.33
PRP2025-5	20x25x1/2	19-3/8 x 24-3/8 x 1/2	300	0.13	3.47
PRP2424-5	24x24x1/2	23-3/8 x 23-3/8 x 1/2	300	0.13	4.00
PRP2525-5	25x25x1/2	24-3/8 x 24-3/8 x 1/2	300	0.13	4.34

SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
305 x 610 x 13	5490	32.34
381 x 508 x 13	5490	32.34
406 x 508 x 13	5490	32.34
406 x 610 x 13	5490	32.34
406 x 635 x 13	5490	32.34
457 x 610 x 13	5490	32.34
508 x 508 x 13	5490	32.34
508 x 610 x 13	5490	32.34
508 x 635 x 13	5490	32.34
610 x 610 x 13	5490	32.34
635 x 635 x 13	5490	32.34

## Phoenix Series: PR-10

PRP1224-10	12x24x1	11-3/8 x 23-3/8 x 7/8	300	0.20	2.00
PRP1520-10	15x20x1	14-3/8 x 19-3/8 x 7/8	300	0.20	2.08
PRP1620-10	16x20x1	15-3/8 x 19-3/8 x 7/8	300	0.20	2.22
PRP1624-10	16x24x1	15-3/8 x 23-3/8 x 7/8	300	0.20	2.67
PRP1625-10	16x25x1	15-3/8 x 24-3/8 x 7/8	300	0.20	2.77
PRP1824-10	18x24x1	17-3/8 x 23-3/8 x 7/8	300	0.20	3.00
PRP2020-10	20x20x1	19-3/8 x 19-3/8 x 7/8	300	0.20	2.77
PRP2024-10	20x24x1	19-3/8 x 23-3/8 x 7/8	300	0.20	3.33
PRP2025-10	20x25x1	19-3/8 x 24-3/8 x 7/8	300	0.20	3.47
PRP2424-10	24x24x1	23-3/8 x 23-3/8 x 7/8	300	0.20	4.00
PRP2525-10	25x25x1	24-3/8 x 24-3/8 x 7/8	300	0.20	4.34

305 x 610 x 25	5490	42.29
381 x 508 x 25	5490	42.29
406 x 508 x 25	5490	42.29
406 x 610 x 25	5490	42.29
406 x 635 x 25	5490	42.29
457 x 610 x 25	5490	42.29
508 x 508 x 25	5490	42.29
508 x 610 x 25	5490	42.29
508 x 635 x 25	5490	42.29
610 x 610 x 25	5490	42.29
635 x 635 x 25	5490	42.29

## Phoenix Series: PR-20

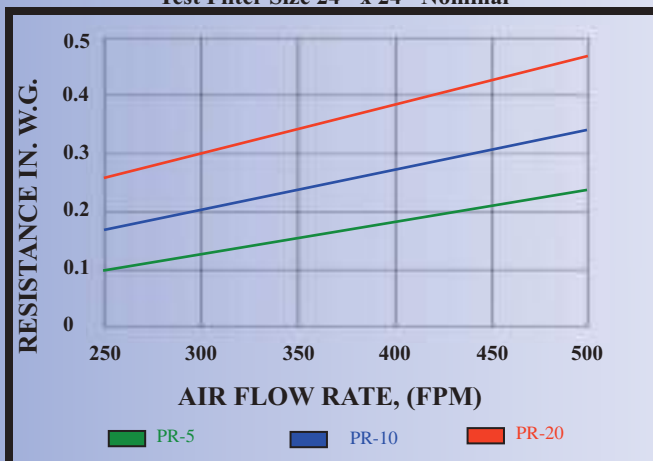
PRP1224-20	12x24x2	11-3/8 x 23-3/8 x 1-3/4	300	0.30	2.00
PRP1520-20	15x20x2	14-3/8 x 19-3/8 x 1-3/4	300	0.30	2.08
PRP1620-20	16x20x2	15-3/8 x 19-3/8 x 1-3/4	300	0.30	2.22
PRP1624-20	16x24x2	15-3/8 x 23-3/8 x 1-3/4	300	0.30	2.67
PRP1625-20	16x25x2	15-3/8 x 24-3/8 x 1-3/4	300	0.30	2.77
PRP1824-20	18x24x2	17-3/8 x 23-3/8 x 1-3/4	300	0.30	3.00
PRP2020-20	20x20x2	19-3/8 x 19-3/8 x 1-3/4	300	0.30	2.77
PRP2024-20	20x24x2	19-3/8 x 23-3/8 x 1-3/4	300	0.30	3.33
PRP2025-20	20x25x2	19-3/8 x 24-3/8 x 1-3/4	300	0.30	3.47
PRP2424-20	24x24x2	23-3/8 x 23-3/8 x 1-3/4	300	0.30	4.00
PRP2525-20	25x25x2	24-3/8 x 24-3/8 x 1-3/4	300	0.30	4.34

305 x 610 x 51	5490	74.64
381 x 508 x 51	5490	74.64
406 x 508 x 51	5490	74.64
406 x 610 x 51	5490	74.64
406 x 635 x 51	5490	74.64
457 x 610 x 51	5490	74.64
508 x 508 x 51	5490	74.64
508 x 610 x 51	5490	74.64
508 x 635 x 51	5490	74.64
610 x 610 x 51	5490	74.64
635 x 635 x 51	5490	74.64

Regular manufacturing tolerances are +/- 1/8", to be observed on all exact widths and heights. Recommended final resistance IN. W.G. is 1.00"

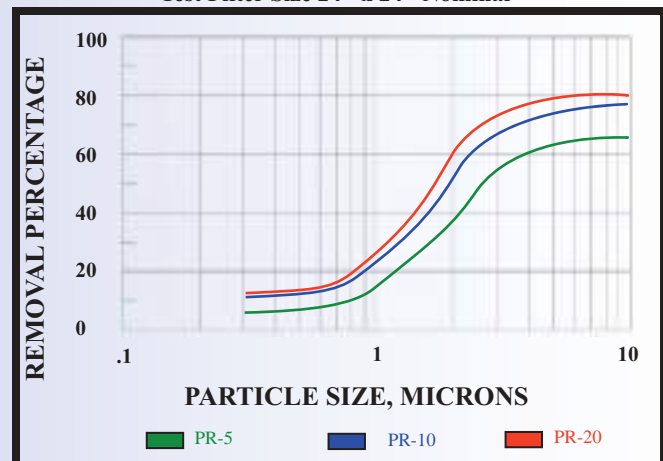
### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" Nominal



### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" Nominal



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Glasfloss has a policy of uninterrupted research, development and product improvement and reserves the right to change design and specifications without notice.

## Specifications

> PR-5

Glasfloss Phoenix Series PR-5 Ring Panels, Sleeves and Links are engineered for light dust loading applications. PR-5 shall be 100% non-woven green and white polyester. Two distinct plies of media shall be utilized, each being more dense than the one preceding it. The progressively dense fiber orientation of each media layer enables the small micron size particles to depth load within the filter. The PR-5 shall have a nominal thickness of 1/2". An internal wire frame shall be thermally sealed within the filter. There shall be sufficient media overlap to ensure a positive seal between the filter and the holding frame, eliminating air by-

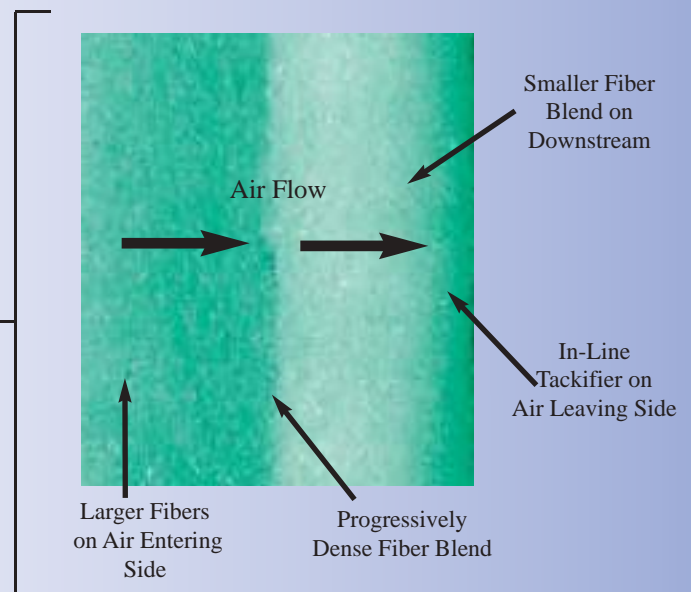
> PR-10

Glasfloss Phoenix Series PR-10 Ring Panels, Sleeves and Links are engineered for moderate dust loading applications. PR-10 shall be 100% non-woven green and yellow polyester. Three distinctly different plies of media shall be utilized, each being more dense than the one preceding it. The progressively dense fiber orientation of each media layer enables the small micron size particles to depth load within the filter. The PR-10 shall have a nominal thickness of 1". An internal wire frame shall be thermally sealed within the filter. There shall be sufficient media overlap to ensure a positive seal between the filter and the holding frame, eliminating air bypass. The PR-10 Ring Panels shall be rated MERV 8 when tested in accordance with the ANSI/ASHRAE 52.2 Test Standard.

> PR-20

Glasfloss Phoenix Series PR-20 Ring Panels, Sleeves and Links are engineered for heavy dust loading applications. PR-20 shall be 100% non-woven green and white polyester. Three distinctly different plies of media shall be utilized, each being more dense than the one preceding it. The progressively dense fiber orientation of each media layer enables the small micron size particles to depth load within the filter. The PR-20 shall have a nominal thickness of 2". An internal wire frame shall be thermally sealed within the filter. There shall be sufficient media overlap to ensure a positive seal between the filter and the holding frame, eliminating air bypass. The PR-20 Ring Panels shall be rated MERV 8 when tested in accordance with the ANSI/ASHRAE 52.2 Test Standard.

Glasfloss Phoenix Series Poly-Rings, Sleeves, and Links shall be constructed utilizing multiple layers of 100% non-woven polyester media. The progressively dense fiber orientation of each media layer enables the small micron size particles to depth load within the filter. Allowing the particles to depth load will enhance the life of the filter.



## > SPECIFICATIONS

Glasfloss Phoenix Series Poly-Rings, Sleeves and Links shall be constructed utilizing layers of 100% non-woven polyester media. The filter shall be a nominal 1/2", 1" or 2" in thickness. For optimum performance, the air leaving side of the Phoenix Series products shall be treated with a non-toxic, non-migratory adhesive. An internal wire frame shall be thermally sealed within the filter to maintain integrity. A thermal seal shall extend around the filter's perimeter and on both sides of the center wire support strut, ensuring the permanent bond of all media plies. There shall be sufficient media overlap to ensure a positive seal between the filter and the holding frame, eliminating the possibility of air bypass and the need for supplemental gasketing.

## > SLEEVES and LINKS

- **"Sleeves"** - An economical alternative to reuse the heavy-duty internal wire frame. Available in standard and special sizes, sleeves are a good alternative for difficult to install wall units.
- **"Links"** - Glasfloss manufactures a complete line of standard and special size poly-ring link filters to accommodate front load or side access housings. Glasfloss Poly-Ring Link filters are available in PR-5, PR-10 and PR-20 Series. There shall be sufficient divisions and seals between each poly-ring panel that allows for panel separation when necessary. Glasfloss Poly-Ring Links are ideal for side access housings, and unfiltered air is virtually eliminated with self-seals around and in-between each panel. Glasfloss Poly-Ring Panels also offer easier handling, especially for rooftop units, and they are not susceptible to damage as some traditional cardboard frame filters. Glasfloss Poly-Ring Panels are a convenient alternative to individual cardboard frame filters and can save labor costs during installation.

## > OPTIONS

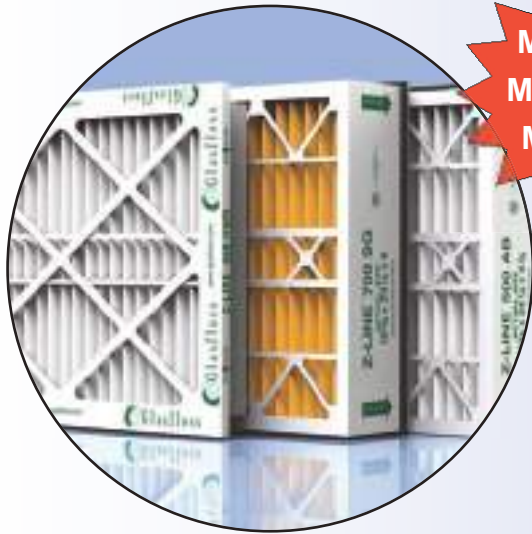
- **"Series 55"** - For added strength during operation, three center wire support struts are sealed within the filter.



Glasfloss manufactures a variety of medium and high efficiency air filters which can be specified for LEED certification applications. For specific information on these products, please contact your local Glasfloss Sales Representative.

Distributed by:





**MERV 10,  
MERV 11 &  
MERV 13**

## Z-LINE<sup>®</sup> SERIES AIR CLEANER FILTERS

- MERV 10, MERV 11 or MERV 13
- Replacement Options for Aprilaire<sup>®</sup> (formerly Space-Gard<sup>®</sup>), Trion<sup>®</sup>, Honeywell<sup>®</sup>, Goodman<sup>®</sup> & Amana<sup>®</sup> Air Cleaners
- 100% Synthetic Media
- Heavy-Duty Moisture-Resistant Construction
- Carbon Media Available for Odor Control

### FEATURES

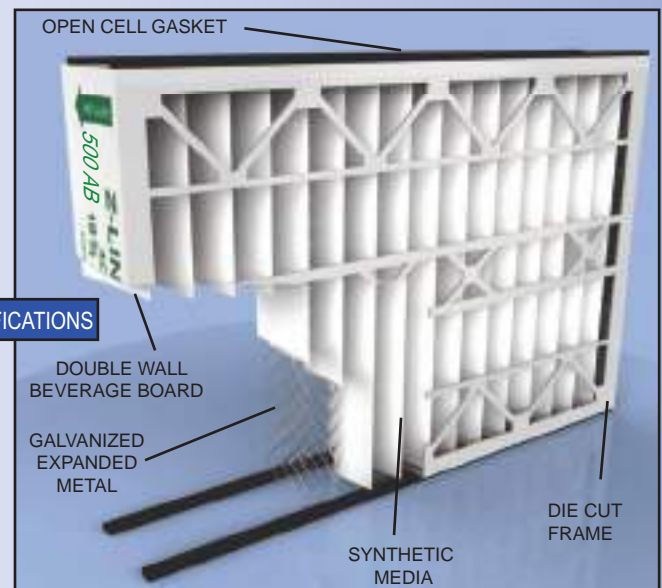


Glasfloss Z-Line Series Air Cleaner Replacement Filters offer convenient alternatives when replacement of the original filter is necessary.

- The Z-Line 700 SG filter replacement option for Aprilaire<sup>®</sup> (formerly Space-Gard<sup>®</sup>) media #201 and #401, features a convenient cartridge design to save time and money.
- The Z-Line 600 GA is a filter replacement option for Goodman<sup>®</sup> and Amana<sup>®</sup> whole-house high efficiency media air cleaners.
- The Z-Line 500 AB and 300 AB filters are replacement options for the Trion Air Bear<sup>®</sup> and Air Cub<sup>®</sup> filters.
- The Z-Line 400 HW is a filter replacement option for the Honeywell<sup>®</sup> F-100 cartridge filters.
- The Z-Line 400 HWR is a filter replacement option for the Honeywell<sup>®</sup> F-40R cartridge filters.

Glasfloss Z-Line Series Air Cleaner Replacement Filters shall be of the extended-surface pleated media type. The media utilized shall be 100% synthetic fibers. An expanded metal reinforcement will be laminated to the air-exit side of the media by a thermo-setting adhesive to maintain continuity of the radial pleats. The expanded metal shall be galvanized to resist rust and corrosion. Moisture-resistant separators are used to ensure pleat integrity during operation. The pleated cartridge will be bonded to the peripheral interior of the outer frame. A heavy-duty moisture-resistant die-cut beverage board will be utilized for an encasing frame. The frame face will be internally laminated to the pleated cartridge apexes. Gasketing on the assembled filter prevents air bypass on the Z-Line 700 SG, 500 AB and the 300 AB. Each Z-Line Series Air Cleaner Replacement Filter is individually wrapped in a plastic sleeve to protect it from contamination before installation. All filters shall be classified under U.L. std. 900 and be rated up to 180 degrees Fahrenheit. The Z-Line Series Air Cleaner Replacement Filters shall achieve a MERV 10, MERV 11 or MERV 13 when tested in accordance with the ANSI/ASHRAE 52.2 Test Standard.

### SPECIFICATIONS



MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.			MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS		
				MERV 10	MERV 11	MERV 13				MERV 10	MERV 11	MERV 13

**Z-Line 700 SG**

SGP20256	20 x 25 x 6	19-3/4 x 24-1/4 x 6	300	.09	.11	.13	37.85	508 x 635 x 152	5490	22.4	27.4	32.3
SGP16276	16 x 27 x 6	15-3/8 x 27 x 6	300	.09	.11	.13	38.06	406 x 686 x 152	5490	22.4	27.4	32.3
SGP20256AC	20 x 25 x 6	19-3/4 x 24-1/4 x 6	300	.18	-	-	37.85	508 x 635 x 152	5490	44.8	-	-

AC = Activated Carbon

**Z-Line 600 GA**

GAP16205	16 x 20 x 5	15-3/8 x 21-7/8 x 5-1/4	300	.08	.09	.10	25.26	406 x 508 x 127	5490	19.9	22.4	24.9
GAP16255	16 x 25 x 5	15-3/8 x 25-1/2 x 5-1/4	300	.08	.09	.10	27.56	406 x 635 x 127	5490	19.9	22.4	24.9
GAP20205	20 x 20 x 5	20-1/4 x 20-3/4 x 5-1/4	300	.08	.09	.10	32.48	508 x 508 x 127	5490	19.9	22.4	24.9
GAP20255	20 x 25 x 5	20-1/4 x 25-3/8 x 5-1/4	300	.08	.09	.10	35.43	508 x 635 x 127	5490	19.9	22.4	24.9

**Z-Line 500 AB & 300AB**

ABP16255	16 x 25 x 5	15-3/4 x 24-1/4 x 4-7/8	300	.07	.08	.10	18.12	406 x 635 x 127	5490	17.4	19.9	24.9
ABP20205	20 x 20 x 5	19-3/4 x 20-3/4 x 4-7/8	300	.07	.08	.10	18.72	508 x 508 x 127	5490	17.4	19.9	24.9
ABP20255	25 x 20 x 5	24-1/4 x 19-3/4 x 4-7/8	300	.07	.08	.10	22.73	635 x 508 x 127	5490	17.4	19.9	24.9
ABP16253	16 x 25 x 5	15-7/8 x 24-1/4 x 2-7/8	300	.21	.23	-	11.50	406 x 635 x 76	5490	52.2	57.2	-
ABP20255AC	25 x 20 x 5	24-1/4 x 19-3/4 x 4-7/8	300	.14	-	-	22.73	635 x 508 x 127	5490	34.8	-	-

AC = Activated Carbon

**Z-Line 400 HW**

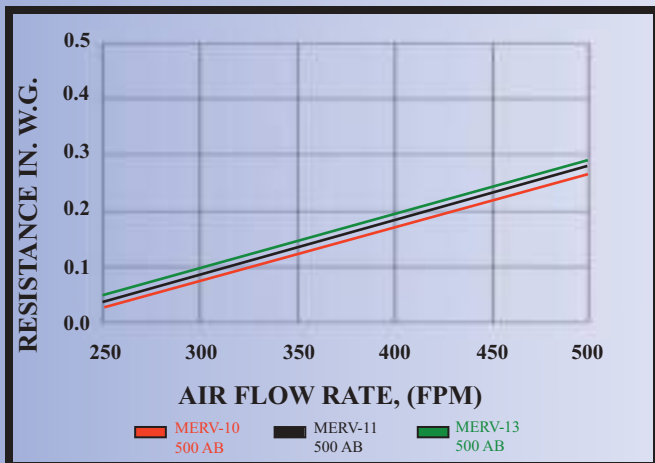
HWP13204	12-1/2 x 20 x 4	12-1/2 x 20 x 4-3/8	300	.08	.09	.11	9.75	318 x 508 x 102	5490	19.9	22.4	27.4
HWP16204	16 x 20 x 4	16 x 19-7/8 x 4-3/8	300	.08	.09	.11	12.48	406 x 508 x 102	5490	19.9	22.4	27.4
HWP16254	16 x 25 x 4	16 x 24-7/8 x 4-3/8	300	.08	.09	.11	15.64	406 x 635 x 102	5490	19.9	22.4	27.4
HWP20204	20 x 20 x 4	20 x 19-7/8 x 4-3/8	300	.08	.09	.11	15.60	508 x 508 x 102	5490	19.9	22.4	27.4
HWP20254	20 x 25 x 4	20 x 24-7/8 x 4-3/8	300	.08	.09	.11	19.55	508 x 635 x 102	5490	19.9	22.4	27.4

**Z-Line 400 HWR**

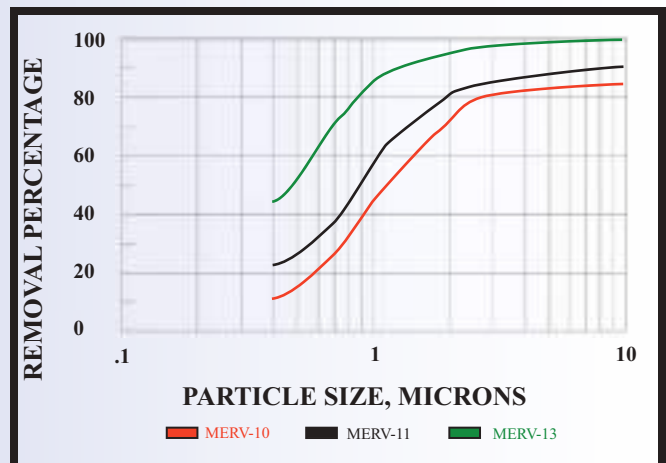
HWR12124	12 x 12 x 4	11-3/4 x 11-3/4 x 3-3/4	300	.10	.12	.14	5.14	305 x 305 x 102	5490	24.9	29.9	34.8
HWR12244	12 x 24 x 4	11-3/4 x 23-3/4 x 3-3/4	300	.10	.12	.14	12.37	305 x 610 x 102	5490	24.9	29.9	34.8
HWR14144	14 x 14 x 4	13-3/4 x 13-3/4 x 3-3/4	300	.10	.12	.14	7.09	356 x 356 x 102	5490	24.9	29.9	34.8
HWR14204	14 x 20 x 4	13-3/4 x 19-3/4 x 3-3/4	300	.10	.12	.14	11.32	356 x 508 x 102	5490	24.9	29.9	34.8
HWR14244	14 x 24 x 4	13-3/4 x 23-3/4 x 3-3/4	300	.10	.12	.14	13.61	356 x 610 x 102	5490	24.9	29.9	34.8
HWR14254	14 x 25 x 4	13-3/4 x 24-3/4 x 3-3/4	300	.10	.12	.14	14.82	356 x 635 x 102	5490	24.9	29.9	34.8
HWR14304	14 x 30 x 4	13-3/4 x 29-3/4 x 3-3/4	300	.10	.12	.14	18.05	356 x 762 x 102	5490	24.9	29.9	34.8
HWR16204	16 x 20 x 4	15-3/4 x 19-3/4 x 3-3/4	300	.10	.12	.14	13.37	406 x 508 x 102	5490	24.9	29.9	34.8
HWR16254	16 x 25 x 4	15-3/4 x 24-3/4 x 3-3/4	300	.10	.12	.14	18.87	406 x 635 x 102	5490	24.9	29.9	34.8
HWR18184	18 x 18 x 4	17-3/4 x 17-3/4 x 3-3/4	300	.10	.12	.14	12.30	450 x 450 x 102	5490	24.9	29.9	34.8
HWR18244	18 x 24 x 4	17-3/4 x 23-3/4 x 3-3/4	300	.10	.12	.14	18.55	450 x 610 x 102	5490	24.9	29.9	34.8
HWR18304	18 x 30 x 4	17-3/4 x 29-3/4 x 3-3/4	300	.10	.12	.14	21.88	450 x 762 x 102	5490	24.9	29.9	34.8
HWR20204	20 x 20 x 4	19-3/4 x 19-3/4 x 3-3/4	300	.10	.12	.14	18.52	508 x 508 x 102	5490	24.9	29.9	34.8
HWR20244	20 x 24 x 4	19-3/4 x 23-3/4 x 3-3/4	300	.10	.12	.14	22.27	508 x 610 x 102	5490	24.9	29.9	34.8
HWR20254	20 x 25 x 4	19-3/4 x 24-3/4 x 3-3/4	300	.10	.12	.14	23.66	508 x 635 x 102	5490	24.9	29.9	34.8
HWR20304	20 x 30 x 4	19-3/4 x 29-3/4 x 3-3/4	300	.10	.12	.14	28.80	508 x 762 x 102	5490	24.9	29.9	34.8
HWR24244	24 x 24 x 4	23-3/4 x 23-3/4 x 3-3/4	300	.10	.12	.14	27.21	610 x 610 x 102	5490	24.9	29.9	34.8
HWR24304	24 x 30 x 4	23-3/4 x 30-3/4 x 3-3/4	300	.10	.12	.14	34.64	610 x 781 x 102	5490	24.9	29.9	34.8

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" depth. Recommended final resistance is .50" in. w. g.

**STANDARD PRESSURE DROP**



**MINIMUM PARTICLE SIZE EFFICIENCY**



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Glasfloss has a policy of uninterrupted research, development and product improvement and reserves the right to change design and specifications without notice.

> 700 SG

**Z-Line 700 SG (Aprilaire®) :** A replacement option for the Aprilaire® (formerly Space-Gard®) media #201 and #401. The Z-Line 700 SG comes factory-assembled to assure quality and easy installation. The Z-Line 700 SG incorporates 100% synthetic fibers that are thermally-bonded, and manufactured in an engineered gradient structure. The Z-Line 700 SG achieves a MERV 10, MERV 11 or MERV 13 rating when tested in accordance with the ANSI/ASHRAE 52.2 Test Standard. Pre-applied gasketing on the assembled filters helps prevent air bypass.

Installation is quick:

- a) Simply remove the internal plastic frame from the external metal housing and remove the dirty filter and its components.
- b) Install the new Z-Line 700 SG filter with the metal grid (air-exit side) facing up. Once the plastic frame is closed, it will slide back into the metal housing.

The Glasfloss Z-Line 700 SG filter is also available in the 700 SGX, an activated carbon media. Refer to Z-Line SGX when ordering. Each filter is sealed in plastic to avoid contamination before use.

Aprilaire® is a registered trademark of Research Products Corporation.

> 600 GA

**Z-Line 600 GA (Goodman® & Amana®) :** Replacement option for the Goodman® and Amana® whole-house high efficiency media air cleaners. The Z-Line 600 GA Series incorporates 100% synthetic fibers that are thermally-bonded, and manufactured in an engineered gradient structure. The Z-Line 600 GA Series achieves a MERV 10, MERV 11 or MERV 13 rating in accordance with the ANSI/ASHRAE 52.2 Test Standard. Each filter is sealed in plastic to avoid contamination before use.

Goodman® & Amana® are registered trademarks of Goodman & Amana, Inc.

> 500 AB & 300 AB

**Z-Line 500 AB (Air Bear®) & 300 AB (Air Cub®) :** These pleated filters are an ideal replacement option for the Trion Air Bear® and Air Cub® filters. The Z-Line 500 AB & 300 AB filters incorporate 100% synthetic fibers that are thermally-bonded, and manufactured in an engineered gradient structure. Z-Line 500 AB & 300 AB filters achieve a MERV 10, MERV 11 or MERV 13 rating when tested in accordance with the ANSI/ASHRAE 52.2 Test Standard. Pre-applied gasketing on the top and bottom of the filters help prevent air bypass. No modification to the filter frame is necessary.

The Glasfloss 500 AB & 300 AB filters are available with activated carbon to absorb unpleasant household odors. Refer to Z-Line 500 ABX & 300 ABX when ordering. Each filter is sealed in plastic to avoid contamination before use.

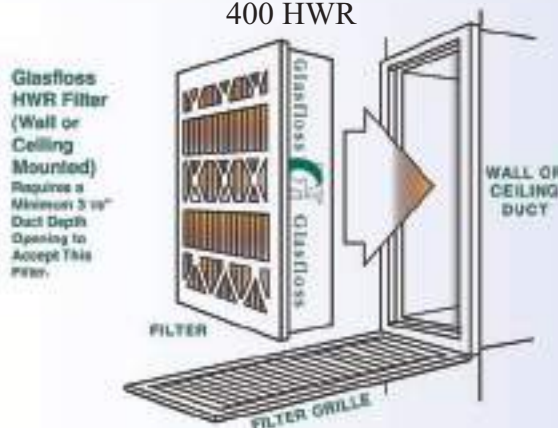
Air Bear® and Air Cub® are registered trademarks of Trion® Inc.

> 400 HW & HWR

**Z-Line 400 HW & HWR (Honeywell®) :** Replacement option for the Honeywell® F-100 and FC40R air cleaner filters. The Z-Line 400 HW and 400 HWR incorporate 100% synthetic fibers that are thermally-bonded, and manufactured in an engineered gradient structure. The Z-Line 400 HW achieves a MERV 10, MERV 11, or MERV 13 rating and 400 HWR achieve a MERV 10 or MERV 11 rating when tested in accordance with the ANSI/ASHRAE 52.2 Test Standard. Each filter is sealed in plastic to avoid contamination before use.

Honeywell is a registered trademark of Honeywell® Products, Inc.

400 HWR



- MERV 10 or MERV 11
- 100% Synthetic Fibers
- High Initial Efficiency
- Thermally Bonded
- Fibers Resist Shedding
- Media Doesn't Absorb Moisture
- No Chemical Binders

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## Air Cleaner Cross-Reference Guide

### Air Cleaner Products

### Glasfloss Model and Part Number

<p><b><u>Research Products Aprilaire<sup>®</sup></u></b>                  Model 2200, 2250 Replacement Filter Type 201                  Model 2400 Replacement Filter Type 401</p>	<p><b><u>Z-Line<sup>®</sup> 700 SG MERV 10</u></b>                  SGP20256                  SGP16276</p>
<p><b><u>Goodman<sup>®</sup> &amp; Amana<sup>®</sup></u></b>                  M0-1056                  M1-1056                  M2-1056                  M8-1056</p>	<p><b><u>Z-Line<sup>®</sup> 600 GA MERV 11</u></b>                  GAP16205M11                  GAP16255M11                  GAP20205M11                  GAP20255M11</p>
<p><b><u>Trion<sup>®</sup></u></b>                  Air Bear - 255649-105                  Air Bear - 255649-103                  Air Bear - 255649-102                  Air Cub - 255649-101</p>	<p><b><u>Z-Line<sup>®</sup> 500 AB &amp; 300 AB MERV 10</u></b>                  ABP16255                  ABP20205                  ABP20255                  ABP16253</p>
<p><b><u>Honeywell<sup>®</sup></u></b>                  Model F-100                  FC100A1052                  FC100A1003                  FC100A1029                  FC100A1011                  FC100A1037</p>	<p><b><u>Z-Line<sup>®</sup> 400 HW MERV 10</u></b>                    HWP13204                  HWP16204                  HWP16254                  HWP20204                  HWP20254</p>
<p><b><u>Honeywell<sup>®</sup></u></b>                  Model FC40R                  FC40R1094                  FC40R1037                  FC40R1102                  FC40R1110                  FC40R1128                  FC40R1045                  FC40R1169                  FC40R1052                  FC40R1060                  FC40R1185                  FC40R1136                  FC40R1830                  FC40R1003                  FC40R1144                  FC40R1011                  FC40R1029                  FC40R1078                  FC40R1177</p>	<p><b><u>Z-Line<sup>®</sup> 400 HWR MERV 10</u></b>                    HWR12124                  HWR12244                  HWR14144                  HWR14204                  HWR14244                  HWR14254                  HWR14304                  HWR16204                  HWR16254                  HWR18184                  HWR18244                  HWR18304                  HWR20204                  HWR20244                  HWR20254                  HWR20304                  HWR24244                  HWR24304</p>



Glasfloss Industries incorporates color-coded carton labels on standard sizes to help identify the product which enhances warehouse operations and shipments.

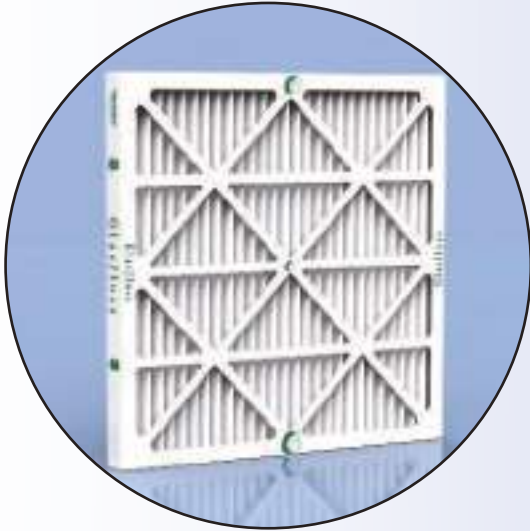


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## Z-LINE® SERIES

ZL and HV MERV 10

- MERV 10
- Heavy-Duty Moisture Resistant Construction
- Galvanized Expanded Metal Backing
- Standard Size 4" and 6" Thick  
Incorporate Media Separators

The Glasfloss Z-Line® Series pleated filters offer improved performance for virtually every application. All Glasfloss Z-Line® pleated filters feature fibers which do not absorb moisture and will not support microbial growth.

### FEATURES



The Z-Line® Series pleated filter products include:

- ZL - Offers excellent performance and value for a wide range of applications
- HV - Ideal in high-velocity systems where maximum square footage of media is necessary

Glasfloss Z-Line® Series ZL and HV air filters shall be of the extended-surface pleated-media type. The media utilized shall be made of 100% synthetic fibers. The media shall be pleated in a tapered radial configuration. A heavy duty, recycled expanded metal reinforcement shall be laminated to the air-exit side of the media by a thermo-setting adhesive to maintain continuity of the radial pleats. The expanded metal shall be galvanized to resist rust and corrosion. The pleated cartridge shall be bonded to the peripheral interior of the outer frame. A heavy-duty moisture-resistant beverage board incorporating post-consumer material shall be utilized for an encasing frame. The frame face shall be internally laminated to the pleated cartridge apexes. Glasfloss Z-Line® Series ZL and HV filters shall be classified under U.L. std. 900 and shall be rated to withstand temperatures up to 180 degrees Fahrenheit. The Glasfloss Z-Line® Series ZL and HV filters achieve a MERV 10 rating per the ANSI/ASHRAE 52.2 Test Standard.



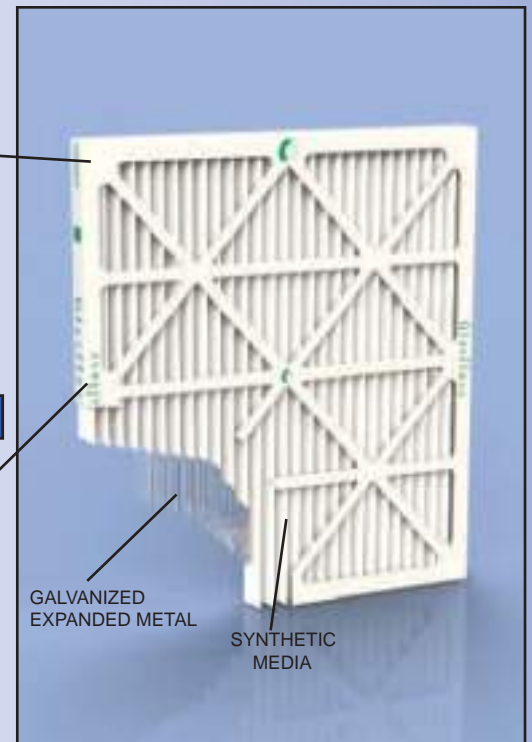
### SPECIFICATIONS

DIE CUT FRAME

DOUBLE WALL  
BEVERAGE BOARD

GALVANIZED  
EXPANDED METAL

SYNTHETIC  
MEDIA



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PRODUCT BULLETIN 6ZLINE • SECTION 6 • 3/4/22



THE CLEAR CHOICE SINCE 1936

## ZL and HV STANDARD SIZE FILTERS

SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		MEDIA SQUARE FEET		SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS	
			ZL	HV	ZL	HV			ZL	HV
10 x 10 x 1	9-1/2 x 9-1/2 x 7/8	300	.20	.18	1.48	1.61	254 x 254 x 26	5490	49.8	44.8
10 x 20 x 1	9-1/2 x 19-1/2 x 7/8	300	.20	.18	2.47	2.67	254 x 508 x 26	5490	49.8	44.8
10 x 24 x 1	9-1/2 x 23-1/2 x 7/8	300	.20	.18	2.97	3.22	254 x 610 x 26	5490	49.8	44.8
10 x 30 x 1	9-5/8 x 29-5/8 x 7/8	300	.20	.18	4.33	4.95	254 x 762 x 26	5490	49.8	44.8
12 x 12 x 1	11-1/2 x 11 1/2 x 7/8	300	.20	.18	1.80	2.06	305 x 305 x 26	5490	49.8	44.8
12 x 20 x 1	11-1/2 x 19-1/2 x 7/8	300	.20	.18	2.88	3.29	305 x 508 x 26	5490	49.8	44.8
12 x 24 x 1	11-3/8 x 23-3/8 x 7/8	300	.20	.18	3.46	3.96	305 x 610 x 26	5490	49.8	44.8
12 x 25 x 1	11-1/2 x 24-1/2 x 7/8	300	.20	.18	4.13	4.13	305 x 635 x 26	5490	49.8	44.8
12 x 30 x 1	11-5/8 x 29-1/2 x 7/8	300	.20	.18	4.51	5.16	305 x 762 x 26	5490	49.8	44.8
14 x 14 x 1	13-1/2 x 13-1/2 x 7/8	300	.20	.18	2.62	3.12	356 x 356 x 26	5490	49.8	44.8
14 x 20 x 1	13-1/2 x 19-1/2 x 7/8	300	.20	.18	3.29	3.91	356 x 508 x 26	5490	49.8	44.8
14 x 24 x 1	13 1/2 x 23 1/2 x 7/8	300	.20	.18	3.96	4.70	356 x 610 x 26	5490	49.8	44.8
14 x 25 x 1	13-1/2 x 24-1/2 x 7/8	300	.20	.18	4.13	4.90	356 x 635 x 26	5490	49.8	44.8
14 x 30 x 1	13 5/8 x 29 5/8 x 7/8	300	.20	.18	5.74	6.56	356 x 762 x 26	5490	49.8	44.8
15 x 20 x 1	14-1/2 x 19-1/2 x 7/8	300	.20	.18	3.70	4.11	381 x 508 x 26	5490	49.8	44.8
15 x 30-5/8 x 1	14-5/8 x 30-1/4 x 7/8	300	.20	.18	9.28	10.57	381 x 777 x 26	5490	49.8	44.8
16 x 16 x 1	15-1/2 x 15-1/2 x 7/8	300	.20	.18	3.12	3.45	406 x 406 x 26	5490	49.8	44.8
16 x 20 x 1	15-1/2 x 19-1/2 x 7/8	300	.20	.18	3.91	4.32	406 x 508 x 26	5490	49.8	44.8
16 x 24 x 1	15-1/2 x 23-1/2 x 7/8	300	.20	.18	4.70	5.20	406 x 610 x 26	5490	49.8	44.8
16 x 25 x 1	15-1/2 x 24-1/2 x 7/8	300	.20	.18	4.90	5.41	406 x 635 x 26	5490	49.8	44.8
16 x 30 x 1	15-5/8 x 29-5/8 x 7/8	300	.20	.18	5.83	6.67	406 x 762 x 26	5490	49.8	44.8
18 x 18 x 1	17-1/2 x 17-1/2 x 7/8	300	.20	.18	3.88	4.44	457 x 457 x 26	5490	49.8	44.8
18 x 20 x 1	17-1/2 x 19-1/2 x 7/8	300	.20	.18	4.32	4.94	457 x 508 x 26	5490	49.8	44.8
18 x 24 x 1	17-1/2 x 23-1/2 x 7/8	300	.20	.18	5.20	5.94	457 x 610 x 26	5490	49.8	44.8
18 x 25 x 1	17-1/2 x 24-1/2 x 7/8	300	.20	.18	5.41	6.19	457 x 635 x 26	5490	49.8	44.8
18 x 30 x 1	17-5/8 x 29-5/8 x 7/8	300	.20	.18	7.20	8.23	457 x 762 x 26	5490	49.8	44.8
20 x 20 x 1	19-1/2 x 19-1/2 x 7/8	300	.20	.18	4.73	5.55	508 x 508 x 26	5490	49.8	44.8
20 x 22 x 1	19-1/2 x 21-7/8 x 7/8	300	.20	.18	5.24	6.15	508 x 558 x 26	5490	49.8	44.8
20 x 24 x 1	19-3/8 x 23-3/8 x 7/8	300	.20	.18	5.69	6.68	508 x 610 x 26	5490	49.8	44.8
20 x 25 x 1	19-1/2 x 24-1/2 x 7/8	300	.20	.18	5.93	6.96	508 x 635 x 26	5490	49.8	44.8
20 x 30 x 1	19-5/8 x 29-5/8 x 7/8	300	.20	.18	7.20	8.23	508 x 762 x 26	5490	49.8	44.8
22 x 22 x 1	21-1/2 x 21-1/2 x 7/8	300	.20	.18	6.43	7.17	558 x 558 x 26	5490	49.8	44.8
24 x 24 x 1	23-3/8 x 23-3/8 x 7/8	300	.20	.18	6.93	7.92	610 x 610 x 26	5490	49.8	44.8
24 x 30 x 1	23-5/8 x 29-5/8 x 7/8	300	.20	.18	8.66	9.90	610 x 762 x 26	5490	49.8	44.8
25 x 25 x 1	24-1/2 x 24-1/2 x 7/8	300	.20	.18	7.48	8.51	635 x 635 x 26	5490	49.8	44.8
10 x 20 x 2	9-1/2 x 19-1/2 x 1-3/4	500	.29	.27	3.84	6.24	254 x 508 x 51	9150	72.2	67.2
12 x 12 x 2	11-1/2 x 11-1/2 x 1-3/4	500	.29	.27	2.89	4.33	305 x 305 x 51	9150	72.2	67.2
12 x 20 x 2	11-1/2 x 19-1/2 x 1-3/4	500	.29	.27	4.80	7.20	305 x 508 x 51	9150	72.2	67.2
12 x 24 x 2	11-3/8 x 23-3/8 x 1-3/4	500	.29	.27	5.77	8.66	305 x 610 x 51	9150	72.2	67.2
14 x 20 x 2	13-1/2 x 19-1/2 x 1-3/4	500	.29	.27	5.76	8.64	356 x 508 x 51	9150	72.2	67.2
14 x 25 x 2	13-1/2 x 24-1/2 x 1-3/4	500	.29	.27	7.22	10.83	356 x 635 x 51	9150	72.2	67.2
15 x 20 x 2	14-1/2 x 19-1/2 x 1-3/4	500	.29	.27	6.24	9.12	381 x 508 x 51	9150	72.2	67.2
16 x 16 x 2	15-1/2 x 15-1/2 x 1-3/4	500	.29	.27	4.98	7.66	406 x 406 x 51	9150	72.2	67.2
16 x 20 x 2	15-1/2 x 19-1/2 x 1-3/4	500	.29	.27	6.24	9.60	406 x 508 x 51	9150	72.2	67.2
16 x 24 x 2	15-1/2 x 23-1/2 x 1-3/4	500	.29	.27	7.50	11.55	406 x 610 x 51	9150	72.2	67.2
16 x 25 x 2	15-1/2 x 24-1/2 x 1-3/4	500	.29	.27	7.82	12.03	406 x 635 x 51	9150	72.2	67.2
18 x 18 x 2	17-1/2 x 17-1/2 x 1-3/4	500	.29	.27	6.47	9.92	457 x 457 x 51	9150	72.2	67.2
18 x 20 x 2	17-1/2 x 19-1/2 x 1-3/4	500	.29	.27	7.20	11.04	457 x 508 x 51	9150	72.2	67.2
18 x 24 x 2	17-1/2 x 23-1/2 x 1-3/4	500	.29	.27	8.66	13.28	457 x 610 x 51	9150	72.2	67.2
18 x 25 x 2	17-1/2 x 24-1/2 x 1-3/4	500	.29	.27	9.02	13.84	457 x 635 x 51	9150	72.2	67.2
20 x 20 x 2	19-1/2 x 19-1/2 x 1-3/4	500	.29	.27	8.16	12.00	508 x 508 x 51	9150	72.2	67.2
20 x 24 x 2	19-3/8 x 23-3/8 x 1-3/4	500	.29	.27	9.81	14.43	508 x 610 x 51	9150	72.2	67.2
20 x 25 x 2	19-1/2 x 24-1/2 x 1-3/4	500	.29	.27	10.23	15.04	508 x 635 x 51	9150	72.2	67.2
20 x 30 x 2	19-5/8 x 29-5/8 x 1-3/4	500	.29	.27	12.00	18.24	508 x 762 x 51	9150	72.2	67.2
24 x 24 x 2	23-3/8 x 23-3/8 x 1-3/4	500	.29	.27	11.55	17.61	610 x 610 x 51	9150	72.2	67.2
25 x 25 x 2	24-1/2 x 24-1/2 x 1-3/4	500	.29	.27	12.63	18.65	635 x 635 x 51	9150	72.2	67.2

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.00" w.g.  
All special sizes will be undersized by 1/8" unless specified otherwise.

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SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		MEDIA SQUARE FEET		SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS	
			ZL	HV	ZL	HV			ZL	HV
12 x 24 x 4	11-3/8 x 23-3/8 x 3-3/4	500	.24	.22	11.13	13.61	457 x 610 x 102	9150	59.7	54.7
16 x 20 x 4	15-1/2 x 19-1/2 x 3-3/4	500	.24	.22	12.34	15.43	406 x 508 x 102	9150	59.7	54.7
16 x 24 x 4	15-1/2 x 23-1/2 x 3-3/4	500	.24	-	14.84	-	406 x 610 x 102	9150	59.7	-
16 x 25 x 4	15-1/2 x 24-1/2 x 3-3/4	500	.24	.22	15.47	19.34	406 x 635 x 102	9150	59.7	54.7
18 x 24 x 4	17-1/2 x 23-1/2 x 3-3/4	500	.24	.22	17.32	21.03	457 x 610 x 102	9150	59.7	54.7
20 x 20 x 4	19-1/2 x 19-1/2 x 3-3/4	500	.24	.22	15.43	18.52	508 x 508 x 102	9150	59.7	54.7
20 x 24 x 4	19-3/8 x 23-3/8 x 3-3/4	500	.24	.22	18.55	22.27	508 x 610 x 102	9150	59.7	54.7
20 x 25 x 4	19-1/2 x 24-1/2 x 3-3/4	500	.24	.22	19.34	23.20	508 x 635 x 102	9150	59.7	54.7
24 x 24 x 4	23-3/8 x 23-3/8 x 3-3/4	500	.24	.22	22.27	27.21	610 x 610 x 102	9150	59.7	54.7
12 x 24 x 6	11-3/8 x 23-3/8 x 5-3/4	500	-	.18	-	20.86	305 x 610 x 152	9150	-	44.8
16 x 20 x 6	15-1/2 x 19-1/2 x 5-3/4	500	-	.18	-	23.66	406 x 508 x 152	9150	-	44.8
16 x 25 x 6	15-1/2 x 24-1/2 x 5-3/4	500	-	.18	-	29.65	406 x 635 x 152	9150	-	44.8
18 x 24 x 6	17-1/2 x 23-1/2 x 5-3/4	500	-	.18	-	32.24	457 x 610 x 152	9150	-	44.8
20 x 20 x 6	19-1/2 x 19-1/2 x 5-3/4	500	-	.18	-	28.39	508 x 508 x 152	9150	-	44.8
20 x 24 x 6	19-3/8 x 23-3/8 x 5-3/4	500	-	.18	-	34.14	508 x 610 x 152	9150	-	44.8
20 x 25 x 6	19-1/2 x 24-1/2 x 5-3/4	500	-	.18	-	35.58	508 x 635 x 152	9150	-	44.8
24 x 24 x 6	23-3/8 x 23-3/8 x 5-3/4	500	-	.18	-	41.73	610 x 610 x 152	9150	-	44.8

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.00" w.g.  
All special sizes will be undersized by 1/8" unless specified otherwise.

Pleats Per Lineal Foot

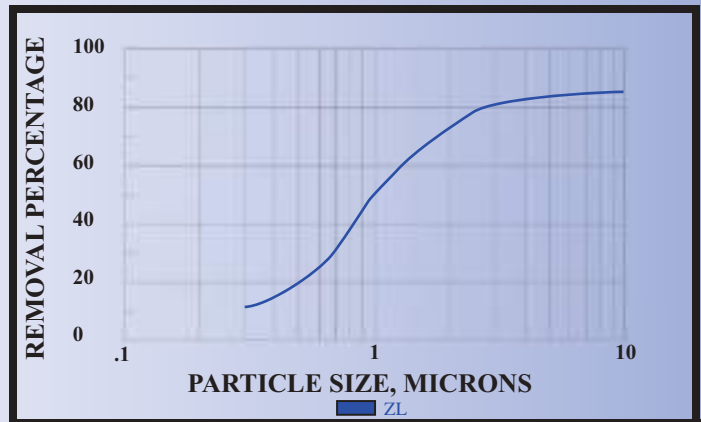
DEPTH	ZL	HV
1"	14	16
2"	10	15
4"	9	11
6"	-	11

Media Area to Face Area Ratio

DEPTH	ZL	HV
1"	1.73	1.97
2"	2.88	4.40
4"	5.56	6.80
6"	-	10.43

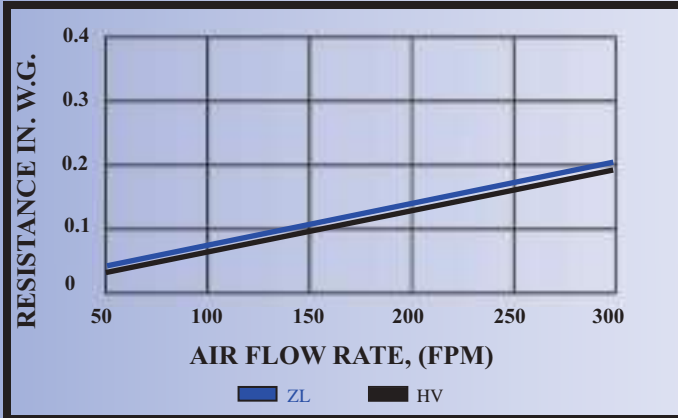
### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 2" Nominal



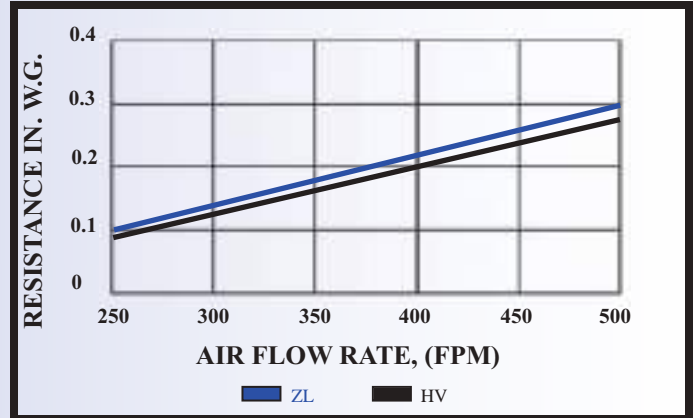
## STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 1" Nominal



## STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 2" Nominal

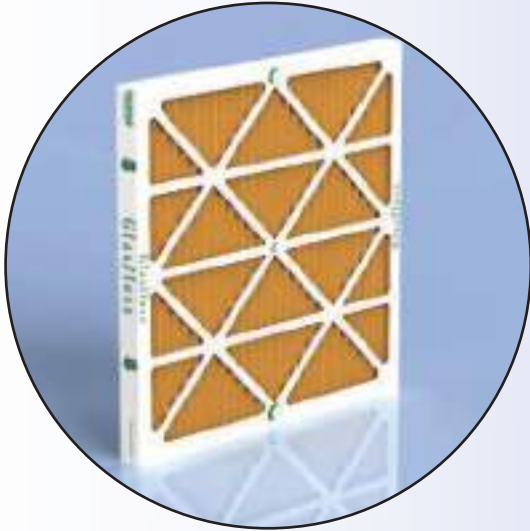


Glasfloss Industries incorporates color-coded carton labels on standard sizes to help identify the product, which enhance warehouse operations and shipments.



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## Z-LINE® SERIES MR-11

- MR-11: MERV 11
- Heavy-Duty Moisture Resistant Construction
- Galvanized Expanded Metal Backing
- Standard Size 4" and 6" Thick  
Incorporate Media Separators
- Geothermal Unit Replacement Filters

### FEATURES



The Glasfloss Z-Line® Series MR-11 pleated filters offer improved performance for virtually every application. All Glasfloss Z-Line® MR-11 pleated filters feature fibers which do not absorb moisture and will not support microbial growth. Z-Line® Series MR-11 pleated filters provide high performance with low pressure drop for energy efficiency

Glasfloss Z-Line® Series MR-11 air filters shall be of the extended-surface pleated-media type. The media utilized shall be made of 100% synthetic fibers. The media shall be pleated in a tapered radial configuration. A heavy duty, recycled expanded metal reinforcement shall be laminated to the air-exit side of the media by a thermo-setting adhesive to maintain continuity of the radial pleats. The expanded metal shall be galvanized to resist rust and corrosion. The pleated cartridge shall be bonded to the peripheral interior of the outer frame. A heavy-duty moisture-resistant beverage board incorporating post-consumer material shall be utilized for an encasing frame. The frame face shall be internally laminated to the pleated cartridge apices. Glasfloss Z-Line® Series MR-11 filters shall be classified under U.L. std. 900 and shall be rated to withstand temperatures up to 180 degrees Fahrenheit. The Glasfloss Z-Line® Series MR-11 filters achieve a MERV 11 rating per the ANSI/ASHRAE 52.2 Test Standard.

### SPECIFICATIONS

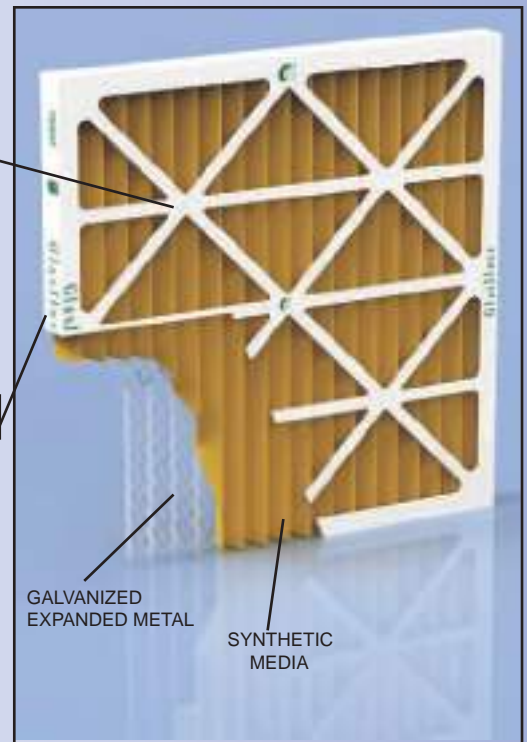


DIE CUT FRAME

DOUBLE WALL  
BEVERAGE BOARD

GALVANIZED  
EXPANDED METAL

SYNTHETIC  
MEDIA



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THE CLEAR CHOICE SINCE 1936

## MR-11 STANDARD SIZE FILTERS

SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
10 x 10 x 1	9-1/2 x 9-1/2 x 7/8	300	.24	1.61	254 x 254 x 26	5490	59.7
10 x 20 x 1	9-1/2 x 19-1/2 x 7/8	300	.24	2.67	254 x 508 x 26	5490	59.7
10 x 24 x 1	9-1/2 x 23-1/2 x 7/8	300	.24	3.22	254 x 610 x 26	5490	59.7
10 x 30 x 1	9-5/8 x 29-5/8 x 7/8	300	.24	4.95	254 x 762 x 26	5490	59.7
12 x 12 x 1	11-1/2 x 11 1/2 x 7/8	300	.24	2.06	305 x 305 x 26	5490	59.7
12 x 20 x 1	11-1/2 x 19-1/2 x 7/8	300	.24	3.29	305 x 508 x 26	5490	59.7
12 x 24 x 1	11-3/8 x 23-3/8 x 7/8	300	.24	3.96	305 x 610 x 26	5490	59.7
12 x 25 x 1	11-1/2 x 24-1/2 x 7/8	300	.24	4.13	305 x 635 x 26	5490	59.7
12 x 30 x 1	11-5/8 x 29-1/2 x 7/8	300	.24	5.16	305 x 762 x 26	5490	59.7
14 x 14 x 1	13-1/2 x 13-1/2 x 7/8	300	.24	3.12	356 x 356 x 26	5490	59.7
14 x 20 x 1	13-1/2 x 19-1/2 x 7/8	300	.24	3.91	356 x 508 x 26	5490	59.7
14 x 24 x 1	13 1/2 x 23 1/2 x 7/8	300	.24	4.70	356 x 610 x 26	5490	59.7
14 x 25 x 1	13-1/2 x 24-1/2 x 7/8	300	.24	4.90	356 x 635 x 26	5490	59.7
14 x 30 x 1	13 5/8 x 29 5/8 x 7/8	300	.24	6.56	356 x 762 x 26	5490	59.7
15 x 20 x 1	14-1/2 x 19-1/2 x 7/8	300	.24	4.11	381 x 508 x 26	5490	59.7
15 x 30-5/8 x 1	14-5/8 x 30-1/4 x 7/8	300	.24	10.57	381 x 777 x 26	5490	59.7
16 x 16 x 1	15-1/2 x 15-1/2 x 7/8	300	.24	3.45	406 x 406 x 26	5490	59.7
16 x 20 x 1	15-1/2 x 19-1/2 x 7/8	300	.24	4.32	406 x 508 x 26	5490	59.7
16 x 24 x 1	15-1/2 x 23-1/2 x 7/8	300	.24	5.20	406 x 610 x 26	5490	59.7
16 x 25 x 1	15-1/2 x 24-1/2 x 7/8	300	.24	5.41	406 x 635 x 26	5490	59.7
16 x 30 x 1	15-5/8 x 29-5/8 x 7/8	300	.24	6.67	406 x 762 x 26	5490	59.7
18 x 18 x 1	17-1/2 x 17-1/2 x 7/8	300	.24	4.44	457 x 457 x 26	5490	59.7
18 x 20 x 1	17-1/2 x 19-1/2 x 7/8	300	.24	4.94	457 x 508 x 26	5490	59.7
18 x 24 x 1	17-1/2 x 23-1/2 x 7/8	300	.24	5.94	457 x 610 x 26	5490	59.7
18 x 25 x 1	17-1/2 x 24-1/2 x 7/8	300	.24	6.19	457 x 635 x 26	5490	59.7
18 x 30 x 1	17-5/8 x 29-5/8 x 7/8	300	.24	8.23	457 x 762 x 26	5490	59.7
20 x 20 x 1	19-1/2 x 19-1/2 x 7/8	300	.24	5.55	508 x 508 x 26	5490	59.7
20 x 22 x 1	19-1/2 x 21-7/8 x 7/8	300	.24	6.15	508 x 558 x 26	5490	59.7
20 x 24 x 1	19-3/8 x 23-3/8 x 7/8	300	.24	6.68	508 x 610 x 26	5490	59.7
20 x 25 x 1	19-1/2 x 24-1/2 x 7/8	300	.24	6.96	508 x 635 x 26	5490	59.7
20 x 30 x 1	19-5/8 x 29-5/8 x 7/8	300	.24	8.23	508 x 762 x 26	5490	59.7
22 x 22 x 1	21-1/2 x 21-1/2 x 7/8	300	.24	7.17	558 x 558 x 26	5490	59.7
24 x 24 x 1	23-3/8 x 23-3/8 x 7/8	300	.24	7.92	610 x 610 x 26	5490	59.7
24 x 30 x 1	23-5/8 x 29-5/8 x 7/8	300	.24	9.90	610 x 762 x 26	5490	59.7
25 x 25 x 1	24-1/2 x 24-1/2 x 7/8	300	.24	8.51	635 x 635 x 26	5490	59.7
10 x 20 x 2	9-1/2 x 19-1/2 x 1-3/4	500	.31	6.24	254 x 508 x 51	9150	77.1
12 x 12 x 2	11-1/2 x 11-1/2 x 1-3/4	500	.31	4.33	305 x 305 x 51	9150	77.1
12 x 20 x 2	11-1/2 x 19-1/2 x 1-3/4	500	.31	7.20	305 x 508 x 51	9150	77.1
12 x 24 x 2	11-3/8 x 23-3/8 x 1-3/4	500	.31	8.66	305 x 610 x 51	9150	77.1
14 x 20 x 2	13-1/2 x 19-1/2 x 1-3/4	500	.31	8.64	356 x 508 x 51	9150	77.1
14 x 25 x 2	13-1/2 x 24-1/2 x 1-3/4	500	.31	10.83	356 x 635 x 51	9150	77.1
15 x 20 x 2	14-1/2 x 19-1/2 x 1-3/4	500	.31	9.12	381 x 508 x 51	9150	77.1
16 x 16 x 2	15-1/2 x 15-1/2 x 1-3/4	500	.31	7.66	406 x 406 x 51	9150	77.1
16 x 20 x 2	15-1/2 x 19-1/2 x 1-3/4	500	.31	9.60	406 x 508 x 51	9150	77.1
16 x 24 x 2	15-1/2 x 23-1/2 x 1-3/4	500	.31	11.55	406 x 610 x 51	9150	77.1
16 x 25 x 2	15-1/2 x 24-1/2 x 1-3/4	500	.31	12.03	406 x 635 x 51	9150	77.1
18 x 18 x 2	17-1/2 x 17-1/2 x 1-3/4	500	.31	9.92	457 x 457 x 51	9150	77.1
18 x 20 x 2	17-1/2 x 19-1/2 x 1-3/4	500	.31	11.04	457 x 508 x 51	9150	77.1
18 x 24 x 2	17-1/2 x 23-1/2 x 1-3/4	500	.31	13.28	457 x 610 x 51	9150	77.1
18 x 25 x 2	17-1/2 x 24-1/2 x 1-3/4	500	.31	13.84	457 x 635 x 51	9150	77.1
20 x 20 x 2	19-1/2 x 19-1/2 x 1-3/4	500	.31	12.00	508 x 508 x 51	9150	77.1
20 x 24 x 2	19-3/8 x 23-3/8 x 1-3/4	500	.31	14.43	508 x 610 x 51	9150	77.1
20 x 25 x 2	19-1/2 x 24-1/2 x 1-3/4	500	.31	15.04	508 x 635 x 51	9150	77.1
20 x 30 x 2	19-5/8 x 29-5/8 x 1-3/4	500	.31	18.24	508 x 762 x 51	9150	77.1
24 x 24 x 2	23-3/8 x 23-3/8 x 1-3/4	500	.31	17.61	610 x 610 x 51	9150	77.1
25 x 25 x 2	24-1/2 x 24-1/2 x 1-3/4	500	.31	18.65	635 x 635 x 51	9150	77.1
24 x 28 x 2	23-1/2 x 27-3/4 x 1-3/4	500	.31	21.69	610 x 762 x 51	9150	77.1
28 x 30 x 2	27-3/4 x 29-3/8 x 1-3/4	500	.31	25.31	711 x 762 x 51	9150	77.1
30 x 32 x 2	29-3/8 x 31-3/4 x 1-3/4	500	.31	28.92	762 x 813 x 51	9150	77.1
30 x 36 x 2	29-3/8 x 35-3/4 x 1-3/4	500	.31	32.54	762 x 914 x 51	9150	77.1

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.00" w.g.  
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SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
12 x 24 x 4	11-3/8 x 23-3/8 x 3-3/4	500	.25	13.61	457 x 610 x 102	9150	62.2
16 x 20 x 4	15-1/2 x 19-1/2 x 3-3/4	500	.25	15.43	406 x 508 x 102	9150	62.2
16 x 25 x 4	15-1/2 x 24-1/2 x 3-3/4	500	.25	19.34	406 x 635 x 102	9150	62.2
18 x 24 x 4	17-1/2 x 23-1/2 x 3-3/4	500	.25	21.03	457 x 610 x 102	9150	62.2
20 x 20 x 4	19-1/2 x 19-1/2 x 3-3/4	500	.25	18.52	508 x 508 x 102	9150	62.2
20 x 24 x 4	19-3/8 x 23-3/8 x 3-3/4	500	.25	22.27	508 x 610 x 102	9150	62.2
20 x 25 x 4	19-1/2 x 24-1/2 x 3-3/4	500	.25	23.20	508 x 635 x 102	9150	62.2
24 x 24 x 4	23-3/8 x 23-3/8 x 3-3/4	500	.25	27.21	610 x 610 x 102	9150	62.2
12 x 24 x 6	11-3/8 x 23-3/8 x 5-3/4	500	.22	20.86	305 x 610 x 152	9150	54.7
16 x 20 x 6	15-1/2 x 19-1/2 x 5-3/4	500	.22	23.66	406 x 508 x 152	9150	54.7
16 x 25 x 6	15-1/2 x 24-1/2 x 5-3/4	500	.22	29.65	406 x 635 x 152	9150	54.7
18 x 24 x 6	17-1/2 x 23-1/2 x 5-3/4	500	.22	32.24	457 x 610 x 152	9150	54.7
20 x 20 x 6	19-1/2 x 19-1/2 x 5-3/4	500	.22	28.39	508 x 508 x 152	9150	54.7
20 x 24 x 6	19-3/8 x 23-3/8 x 5-3/4	500	.22	34.14	508 x 610 x 152	9150	54.7
20 x 25 x 6	19-1/2 x 24-1/2 x 5-3/4	500	.22	35.58	508 x 635 x 152	9150	54.7
24 x 24 x 6	23-3/8 x 23-3/8 x 5-3/4	500	.22	41.73	610 x 610 x 152	9150	54.7

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.00" w.g.  
All special sizes will be undersized by 1/8" unless specified otherwise.

Pleats Per Lineal Foot

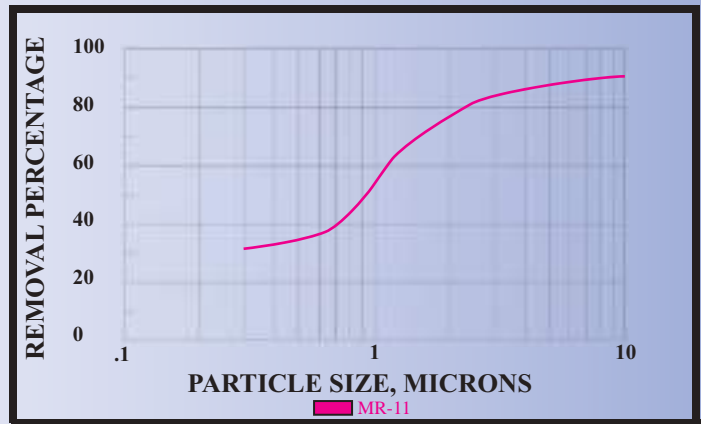
DEPTH	MR-11
1"	16
2"	15
4"	11
6"	11

Media Area to Face Area Ratio

DEPTH	MR-11
1"	1.97
2"	4.40
4"	6.80
6"	10.43

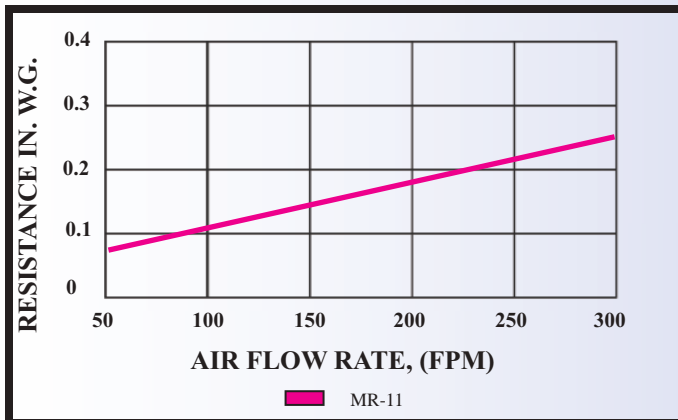
## MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 2" Nominal



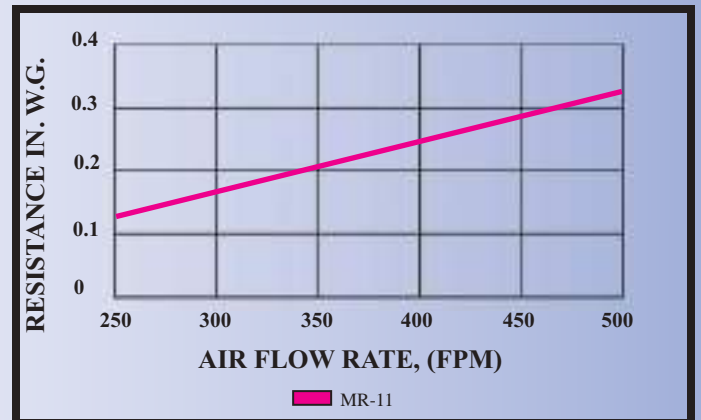
## STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 1" Nominal



## STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 2" Nominal



"Serving You With Locations Throughout The Nation"

**Glasfloss Z-Line® MERV 11  
Geothermal Unit Replacement Filters  
One Piece Die-Cut Frame Construction**

- Improved Rigidity
- Increased Media Area
- MERV 11 Performance



GEOTHERMAL REPLACEMENT SIZES			
PART NUMBER	ACTUAL SIZES	CARTON QUANTITY	CARTON WEIGHT
M1124282	23-1/2 x 27-3/4 x 2	6	14 LB
M1128302	27-3/4 x 29-3/8 x 2	6	16 LB
M1130322	29-3/8 x 31-3/4 x 2	6	17 LB
M1130362	29-3/8 x 35-3/4 x 2	6	18 LB

Glasfloss Industries incorporates color-coded carton labels on standard sizes to help identify the product, which enhance warehouse operations and shipments.

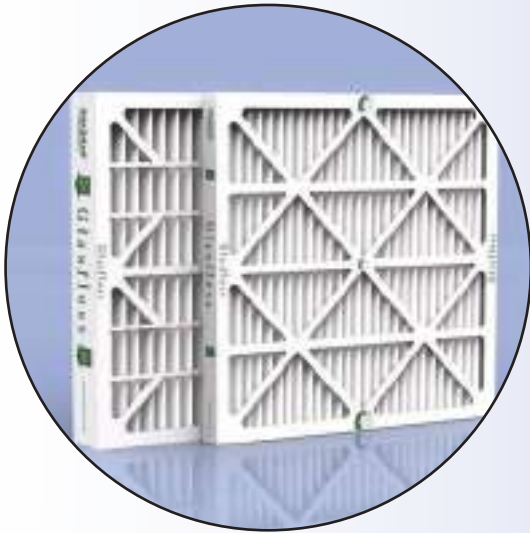


Glasfloss manufactures a variety of medium and high efficiency air filters which can be specified for LEED certification applications. For specific information on these products, please contact your local Glasfloss Sales Representative.



"Serving You With Locations Throughout The Nation"





## Z-LINE<sup>®</sup> SERIES MR-13

Environmentally Friendly!



- MERV 13
- Electrostatically-Charged 100% Synthetic Media
- Heavy-Duty Moisture-Resistant Construction
- Standard Size 4" Incorporate Media Separators

### FEATURES

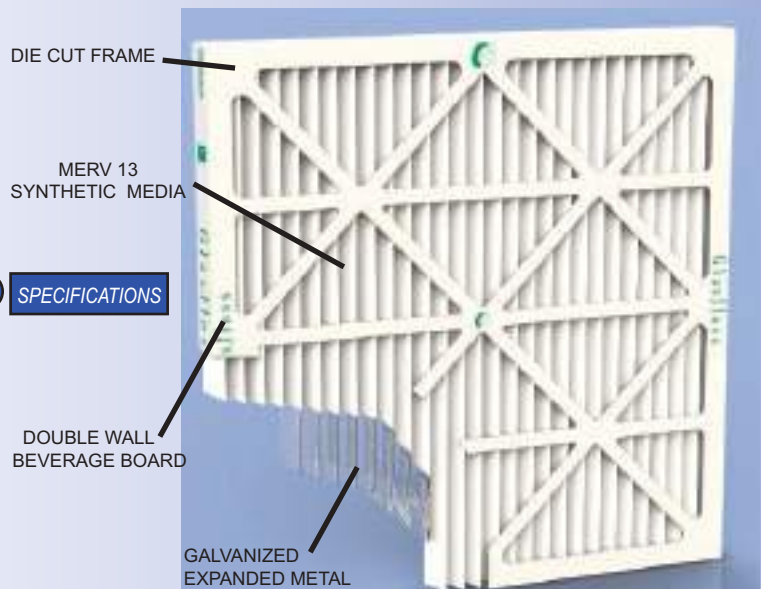


The Glasfloss Z-Line Series MR-13 pleated air filter features the latest in media technology to achieve MERV 13 while maintaining low pressure drop and good service life. The new Z-Line Series MR-13 pleat is optimized for "LEED" compliance in new and existing buildings as well as providing a cost-effective upgrade from lower efficiency pleated filters for a variety of commercial and industrial applications. The Z-Line Series MR-13 pleat is available in many standard face dimensions in 1", 2" and 4" depths.

The Glasfloss Z-Line Series MR-13 air filter shall be of the extended-surface pleated-media type. The media incorporates 100% synthetic fibers that are electrostatically charged. The filter fibers are thermally bonded and manufactured in an engineered gradient structure. An expanded metal reinforcement shall be laminated to the air-exit side of the media by a thermo-setting adhesive to maintain continuity of the radial pleats. The expanded metal shall be galvanized to resist rust and corrosion. The media shall be pleated in a tapered radial configuration. The pleated cartridge shall be bonded to the peripheral interior of the outer frame. A heavy-duty moisture-resistant beverage board shall be utilized for an encasing frame. The frame shall be internally laminated to the pleated cartridge apexes. Z-Line MR-13 Series filters shall be classified under U.L. std. 900 and shall be rated to withstand temperatures up to 180 degrees Fahrenheit. Z-Line MR-13 Series filters shall be rated MERV 13 when tested in accordance with the ANSI/ASHRAE 52.2 Test Standard.



### SPECIFICATIONS



"Serving You With Locations Throughout The Nation"

Glasfloss has a policy of uninterrupted research, development and product improvement and reserves the right to change design and specifications without notice.

Z-LINE SERIES MR-13 STANDARD SIZE FILTERS

MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G	MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCAL
M1310101	10 x 10 x 1	9-1/2 x 9-1/2 x 7/8	300	.35	1.61	254 x 254 x 25	5490	112.09
M1310201	10 x 20 x 1	9-1/2 x 19-1/2 x 7/8	300	.35	2.67	254 x 508 x 25	5490	112.09
M1310241	10 x 24 x 1	9-1/2 x 23-3/8 x 7/8	300	.35	3.22	254 x 610 x 25	5490	112.09
M1310301	10 x 30 x 1	9-5/8 x 29-5/8 x 7/8	300	.35	4.95	254 x 762 x 25	5490	112.09
M1312121	12 x 12 x 1	11-1/2 x 11-1/2 x 7/8	300	.35	2.06	305 x 305 x 25	5490	112.09
M1312201	12 x 20 x 1	11-1/2 x 19-1/2 x 7/8	300	.35	3.29	305 x 508 x 25	5490	112.09
M1312241	12 x 24 x 1	11-3/8 x 23-3/8 x 7/8	300	.35	3.96	305 x 610 x 25	5490	112.09
M1312251	12 x 25 x 1	11-1/2 x 24-1/2 x 7/8	300	.35	4.13	305 x 635 x 25	5490	112.09
M1312301	12 x 30 x 1	11-5/8 x 29-1/2 x 7/8	300	.35	5.16	305 x 762 x 25	5490	112.09
M1314141	14 x 14 x 1	13-1/2 x 13-1/2 x 7/8	300	.35	3.12	356 x 356 x 25	5490	112.09
M1314201	14 x 20 x 1	13-1/2 x 19-1/2 x 7/8	300	.35	3.91	356 x 508 x 25	5490	112.09
M1314241	14 x 24 x 1	13-1/2 x 23-3/8 x 7/8	300	.35	4.70	356 x 610 x 25	5490	112.09
M1314251	14 x 25 x 1	13-1/2 x 24-1/2 x 7/8	300	.35	4.90	356 x 635 x 25	5490	112.09
M1314301	14 x 30 x 1	13-5/8 x 29-5/8 x 7/8	300	.35	6.56	356 x 762 x 25	5490	112.09
M1315201	15 x 20 x 1	14-1/2 x 19-1/2 x 7/8	300	.35	4.11	381 x 508 x 25	5490	112.09
M131530K1	15 x 30-5/8 x 1	14-5/8 x 30-1/4 x 7/8	300	.35	10.57	381 x 778 x 25	5490	112.09
M1316161	16 x 16 x 1	15-1/2 x 15-1/2 x 7/8	300	.35	3.45	406 x 406 x 25	5490	112.09
M1316201	16 x 20 x 1	15-1/2 x 19-1/2 x 7/8	300	.35	4.32	406 x 508 x 25	5490	112.09
M1316241	16 x 24 x 1	15-1/2 x 23-1/2 x 7/8	300	.35	5.20	406 x 610 x 25	5490	112.09
M1316251	16 x 25 x 1	15-1/2 x 24-1/2 x 7/8	300	.35	5.41	406 x 635 x 25	5490	112.09
M1316301	16 x 30 x 1	15-5/8 x 29-5/8 x 7/8	300	.35	6.67	406 x 762 x 25	5490	112.09
M1318181	18 x 18 x 1	17-1/2 x 17-1/2 x 7/8	300	.35	4.44	457 x 457 x 25	5490	112.09
M1318201	18 x 20 x 1	17-1/2 x 19-1/2 x 7/8	300	.35	4.94	457 x 508 x 25	5490	112.09
M1318241	18 x 24 x 1	17-1/2 x 23-3/8 x 7/8	300	.35	5.94	457 x 610 x 25	5490	112.09
M1318251	18 x 25 x 1	17-1/2 x 24-1/2 x 7/8	300	.35	6.19	457 x 635 x 25	5490	112.09
M1318301	18 x 30 x 1	17-5/8 x 29-5/8 x 7/8	300	.35	8.23	457 x 762 x 25	5490	112.09
M1320201	20 x 20 x 1	19-5/8 x 19-5/8 x 7/8	300	.35	5.55	508 x 508 x 25	5490	112.09
M1320221	20 x 22 x 1	19-5/8 x 21-1/2 x 7/8	300	.35	6.15	508 x 559 x 25	5490	112.09
M1320241	20 x 24 x 1	19-5/8 x 23-3/8 x 7/8	300	.35	6.68	508 x 610 x 25	5490	112.09
M1320251	20 x 25 x 1	19-5/8 x 24-1/2 x 7/8	300	.35	6.96	508 x 635 x 25	5490	112.09
M1320301	20 x 30 x 1	19-5/8 x 29-5/8 x 7/8	300	.35	8.23	508 x 762 x 25	5490	112.09
M1322221	22 x 22 x 1	21-1/2 x 21-1/2 x 7/8	300	.35	7.17	559 x 559 x 25	5490	112.09
M1324241	24 x 24 x 1	23-3/8 x 23-3/8 x 7/8	300	.35	7.92	610 x 610 x 25	5490	112.09
M1324301	24 x 30 x 1	23-3/8 x 29-5/8 x 7/8	300	.35	9.90	610 x 762 x 25	5490	112.09
M1325251	25 x 25 x 1	24-1/2 x 24-1/2 x 7/8	300	.35	8.51	635 x 635 x 25	5490	112.09

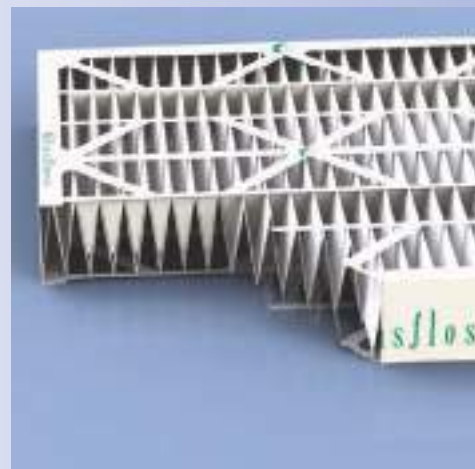
Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.00" w.g.

**Z-LINE SERIES MR-13 STANDARD SIZE FILTERS**

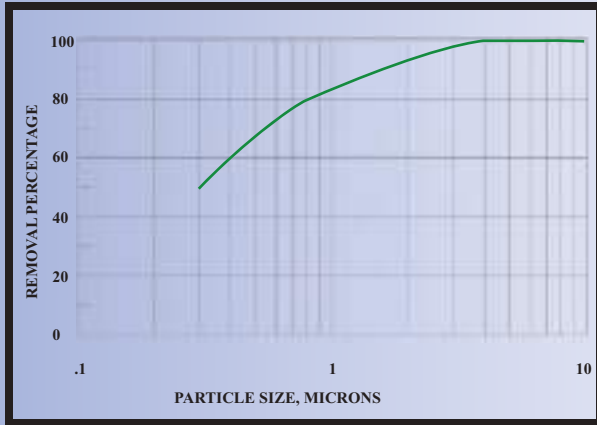
MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G	MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCAL
M1310202	10 x 20 x 2	9-1/2 x 19-1/2 x 1-3/4	500	.39	6.24	254 x 508 x 51	9150	94.65
M1312122	12 x 12 x 2	11-1/2 x 11-1/5 x 1-3/4	500	.39	4.33	305 x 305 x 51	9150	94.65
M1312202	12 x 20 x 2	11-1/2 x 19-1/2 x 1-3/4	500	.39	7.20	305 x 508 x 51	9150	94.65
M1312242	12 x 24 x 2	11-3/8 x 23-3/8 x 1-3/4	500	.39	8.66	305 x 610 x 51	9150	94.65
M1314202	14 x 20 x 2	13-1/2 x 19-1/2 x 1-3/4	500	.39	8.64	356 x 508 x 51	9150	94.65
M1314252	14 x 25 x 2	13-1/2 x 24-1/2 x 1-3/4	500	.39	10.83	356 x 635 x 51	9150	94.65
M1315202	15 x 20 x 2	14-1/2 x 19-1/2 x 1-3/4	500	.39	9.12	381 x 508 x 51	9150	94.65
M1316162	16 x 16 x 2	15-1/2 x 15-1/2 x 1-3/4	500	.39	7.66	406 x 406 x 51	9150	94.65
M1316202	16 x 20 x 2	15-1/2 x 19-1/2 x 1-3/4	500	.39	9.60	406 x 508 x 51	9150	94.65
M1316242	16 x 24 x 2	15-1/2 x 23-1/2 x 1-3/4	500	.39	11.55	406 x 610 x 51	9150	94.65
M1316252	16 x 25 x 2	15-1/2 x 24-1/2 x 1-3/4	500	.39	12.03	406 x 635 x 51	9150	94.65
M1318182	18 x 18 x 2	17-1/2 x 17-1/2 x 1-3/4	500	.39	9.92	457 x 457 x 51	9150	94.65
M1318202	18 x 20 x 2	17-1/2 x 19-1/2 x 1-3/4	500	.39	11.04	457 x 508 x 51	9150	94.65
M1318242	18 x 24 x 2	17-1/2 x 23-1/2 x 1-3/4	500	.39	13.28	457 x 610 x 51	9150	94.65
M1318252	18 x 25 x 2	17-1/2 x 24-1/2 x 1-3/4	500	.39	13.84	457 x 635 x 51	9150	94.65
M1320202	20 x 20 x 2	19-1/2 x 19-1/2 x 1-3/4	500	.39	12.00	508 x 508 x 51	9150	94.65
M1320242	20 x 24 x 2	19-3/8 x 23-3/8 x 1-3/4	500	.39	14.43	508 x 610 x 51	9150	94.65
M1320252	20 x 25 x 2	19-1/2 x 24-1/2 x 1-3/4	500	.39	15.04	508 x 635 x 51	9150	94.65
M1320302	20 x 30 x 2	19-5/8 x 29-5/8 x 1-3/4	500	.39	18.24	508 x 762 x 51	9150	94.65
M1324242	24 x 24 x 2	23-3/8 x 23-3/8 x 1-3/4	500	.39	17.61	610 x 610 x 51	9150	94.65
M1325252	25 x 25 x 2	24-1/2 x 24-1/2 x 1-3/4	500	.39	18.65	635 x 635 x 51	9150	94.65
M1312244	12 x 24 x 4	11-3/8 x 23-3/8 x 3-3/4	500	.34	13.61	305 x 610 x 102	9150	82.20
M1316204	16 x 20 x 4	15-1/2 x 19-1/2 x 3-3/4	500	.34	15.43	406 x 508 x 102	9150	82.20
M1316254	16 x 25 x 4	15-1/2 x 24-1/2 x 3-3/4	500	.34	19.34	406 x 635 x 102	9150	82.20
M1318244	18 x 24 x 4	17-1/2 x 23-1/2 x 3-3/4	500	.34	21.03	457 x 610 x 102	9150	82.20
M1320204	20 x 20 x 4	19-1/2 x 19-1/2 x 3-3/4	500	.34	18.52	508 x 508 x 102	9150	82.20
M1320244	20 x 24 x 4	19-3/8 x 23-3/8 x 3-3/4	500	.34	22.27	508 x 610 x 102	9150	82.20
M1320254	20 x 25 x 4	19-1/2 x 24-1/2 x 3-3/4	500	.34	23.20	508 x 635 x 102	9150	82.20
M1324244	24 x 24 x 4	23-3/8 x 23-3/8 x 3-3/4	500	.34	27.21	610 x 610 x 102	9150	82.20

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.00" w.g.

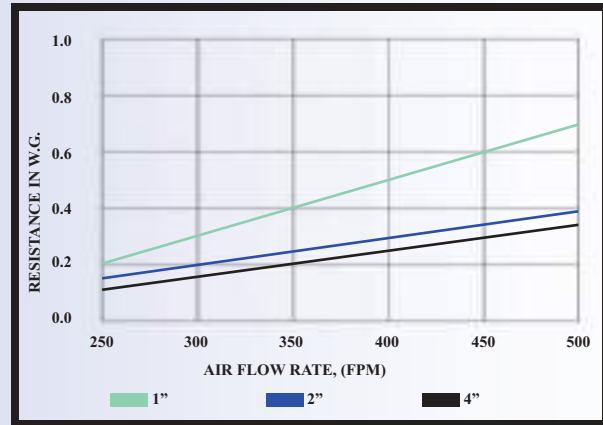
Standard size 4" thick MR-13 pleated filters incorporate media separators.



**MINIMUM PARTICLE SIZE EFFICIENCY**



**STANDARD PRESSURE DROP**



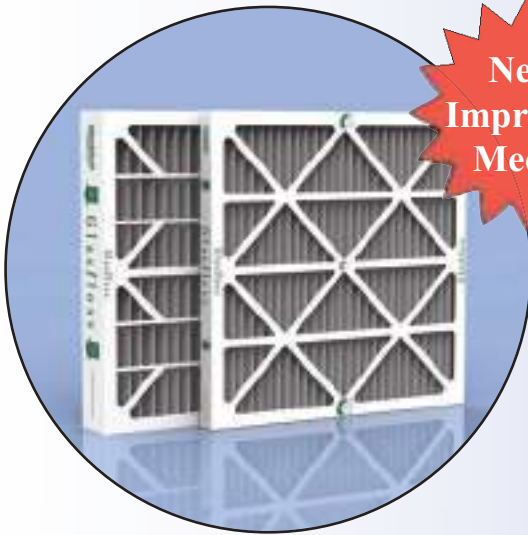
**GLASFLOSS' COMMITMENT to GREEN**



For years, Glasfloss has been designing air filtration products for maximum energy savings and environmental benefits in HVAC systems. Now more than ever, our commitment to Green products and manufacturing processes is at the heart of our company. For more information on Glasfloss Green products and LEED project certification options, please contact your Glasfloss Sales Representative.



"Serving You With Locations Throughout The Nation"



**New  
Improved  
Media**

## Z-LINE<sup>®</sup> SERIES CARBOTRON<sup>®</sup>

- MERV 8
- Reduces Odors
- 100% Synthetic Media
- Heavy-Duty Moisture-Resistant Construction
- Galvanized Expanded Metal Backing
- Standard Size 4" Filters Incorporate Media Separators

### FEATURES

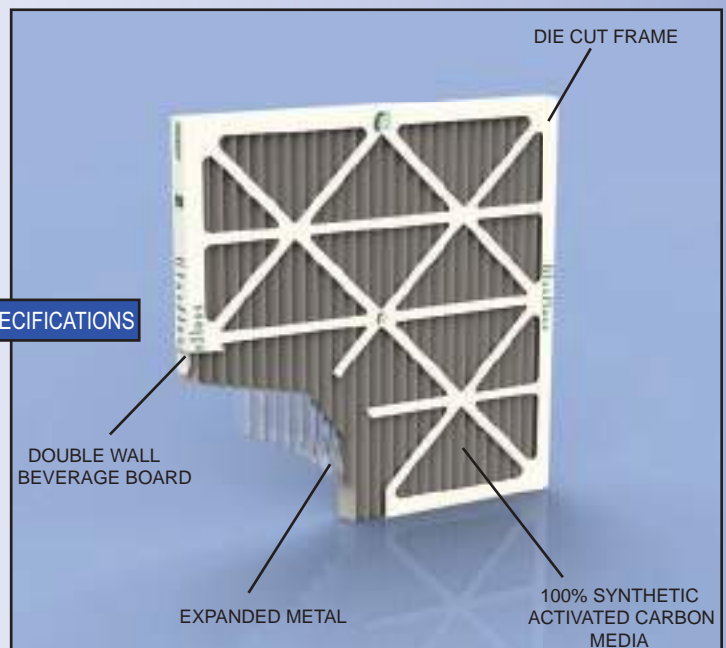


Cigarette smoke, vehicle exhaust, and cooking odors, along with thousands of other activities generate unpleasant odors. The solution to these problems and many offensive odors associated with Indoor Air Quality is the Z-Line Series Carbotron Pleat. The activated carbon used in the Carbotron Pleat has millions of tiny openings that adsorb odorous gas molecules from the air, so clean fresh smelling air remains. The Carbotron Pleat is offered in a wide range of standard and special sizes that allow installation in almost any Air Conditioning, Heating or Ventilating application.

The Glasfloss Z-Line Series Carbotron air filter is an extended-surface pleated-media type filter. The gradient density media combines particulate filtration with odor control in a single filter unit. The media shall be pleated in a tapered radial configuration. An expanded metal reinforcement shall be laminated to the air-exit side of the media by a thermo-setting adhesive to maintain continuity of the radial pleats. The expanded metal shall be galvanized to resist rust and corrosion. The pleated cartridge shall be bonded to the peripheral interior of the outer frame. A heavy-duty moisture-resistant beverage board shall be utilized for an enclosing frame. The frame face shall be internally laminated to the pleated cartridge apexes. Z-Line Carbotron filters shall be rated to withstand temperatures of 180 degrees Fahrenheit. Z-Line Carbotron filters shall be rated under U.L. std. 900. The Z-Line Carbotron shall be rated MERV 8 when tested in accordance with the ANSI/ASHRAE 52.2 Test Standard. The recommended final pressure drop shall be 1.00" w.g.



### SPECIFICATIONS



"Serving You With Locations Throughout The Nation"

Glasfloss has a policy of uninterrupted research, development and product improvement and reserves the right to change design and specifications without notice.

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PRODUCT BULLETIN 6ZLINE • SECTION 6 • 11-1-15

Z-LINE SERIES CARBOTRON STANDARD SIZE FILTERS

MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
ZLN101014AC	10 x 10 x 1	9-1/2 x 9-1/2 x 7/8	300	0.18	1.61	54 x 254 x 26	5490	52.2
ZLN102014AC	10 x 20 x 1	9-1/2 x 19-1/2 x 7/8	300	0.18	2.67	254 x 508 x 26	5490	52.2
ZLN102414AC	10 x 24 x 1	9-1/2 x 23-1/2 x 7/8	300	0.18	3.22	254 x 610 x 26	5490	52.2
ZLN103014AC	10 x 30 x 1	9-5/8 x 29-5/8 x 7/8	300	0.18	4.95	254 x 762 x 26	5490	52.2
ZLN121214AC	12 x 12 x 1	11-1/2 x 11-1/2 x 7/8	300	0.18	2.06	305 x 305 x 26	5490	52.2
ZLN122014AC	12 x 20 x 1	11-1/2 x 19-1/2 x 7/8	300	0.18	3.29	305 x 508 x 26	5490	52.2
ZLN122414AC	12 x 24 x 1	11-3/8 x 23-3/8 x 7/8	300	0.18	3.96	305 x 610 x 26	5490	52.2
ZLN122514AC	12 x 25 x 1	11-1/2 x 24-1/2 x 7/8	300	0.18	4.13	305 x 635 x 26	5490	52.2
ZLN123014AC	12 x 30 x 1	11-5/8 x 29-5/8 x 7/8	300	0.18	5.16	305 x 762 x 26	5490	52.2
ZLN141414AC	14 x 14 x 1	13-1/2 x 13-1/2 x 7/8	300	0.18	3.12	356 x 356 x 26	5490	52.2
ZLN142014AC	14 x 20 x 1	13-1/2 x 19-1/2 x 7/8	300	0.18	3.91	356 x 508 x 26	5490	52.2
ZLN142414AC	14 x 24 x 1	13-1/2 x 23-1/2 x 7/8	300	0.18	4.70	356 x 610 x 26	5490	52.2
ZLN142514AC	14 x 25 x 1	13-1/2 x 24-1/2 x 7/8	300	0.18	4.90	356 x 635 x 26	5490	52.2
ZLN143014AC	14 x 30 x 1	13 5/8 x 29-5/8 x 7/8	300	0.18	6.56	356 x 762 x 26	5490	52.2
ZLN152014AC	15 x 20 x 1	14-1/2 x 19-1/2 x 7/8	300	0.18	4.11	381 x 508 x 26	5490	52.2
ZLN1530K14AC	15 x 30-5/8 x 1	14-5/8 x 30-1/4 x 7/8	300	0.18	10.57	381 x 777 x 26	5490	52.2
ZLN1616144AC	16 x 16 x 1	15-1/2 x 15-1/2 x 7/8	300	0.18	3.45	406 x 406 x 26	5490	52.2
ZLN162014AC	16 x 20 x 1	15-1/2 x 19-1/2 x 7/8	300	0.18	4.32	406 x 508 x 26	5490	52.2
ZLN162414AC	16 x 24 x 1	15-1/2 x 23-1/2 x 7/8	300	0.18	5.20	406 x 610 x 26	5490	52.2
ZLN162514AC	16 x 25 x 1	15-1/2 x 24-1/2 x 7/8	300	0.18	5.41	406 x 635 x 26	5490	52.2
ZLN163014AC	16 x 30 x 1	15-5/8 x 29-5/8 x 7/8	300	0.18	6.67	406 x 762 x 26	5490	52.2
ZLN181814AC	18 x 18 x 1	17-1/2 x 17-1/2 x 7/8	300	0.18	4.44	457 x 457 x 26	5490	52.2
ZLN182014AC	18 x 20 x 1	17-1/2 x 19-1/2 x 7/8	300	0.18	4.94	457 x 508 x 26	5490	52.2
ZLN182414AC	18 x 24 x 1	17-1/2 x 23-1/2 x 7/8	300	0.18	5.94	457 x 610 x 26	5490	52.2
ZLN182514AC	18 x 25 x 1	17-1/2 x 24-1/2 x 7/8	300	0.18	6.19	457 x 635 x 26	5490	52.2
ZLN183014AC	18 x 30 x 1	17-1/2 x 17-1/2 x 7/8	300	0.18	8.23	457 x 762 x 26	5490	52.2
ZLN202014AC	20 x 20 x 1	19-1/2 x 19-1/2 x 7/8	300	0.18	5.55	508 x 508 x 26	5490	52.2
ZLN202214AC	20 x 22 x 1	19-1/2 x 21-7/8 x 7/8	300	0.18	6.15	508 x 558 x 26	5490	52.2
ZLN202414AC	20 x 24 x 1	19-3/8 x 23-3/8 x 7/8	300	0.18	6.68	508 x 610 x 26	5490	52.2
ZLN202514AC	20 x 25 x 1	19-1/2 x 24-1/2 x 7/8	300	0.18	6.96	508 x 635 x 26	5490	52.2
ZLN203014AC	20 x 30 x 1	19-5/8 x 29-5/8 x 7/8	300	0.18	8.23	508 x 726 x 26	5490	52.2
ZLN222214AC	22 x 22 x 1	21-1/2 x 21-1/2 x 7/8	300	0.18	7.17	558 x 558 x 26	5490	52.2
ZLN242414AC	24 x 24 x 1	23-3/8 x 23-3/8 x 7/8	300	0.18	7.92	610 x 610 x 26	5490	52.2
ZLN243014AC	24 x 30 x 1	23-5/8 x 29-5/8 x 7/8	300	0.18	9.90	610 x 762 x 26	5490	52.2
ZLN252514AC	25 x 25 x 1	24-1/2 x 24-1/2 x 7/8	300	0.18	8.51	635 x 635 x 26	5490	52.2
ZLN102024AC	10 x 20 x 2	9-1/2 x 19-1/2 x 1-3/4	500	0.27	6.24	254 x 508 x 51	9150	74.6
ZLN121224AC	12 x 12 x 2	11-1/2 x 11-1/2 x 1-3/4	500	0.27	4.33	305 x 305 x 51	9150	74.6
ZLN122024AC	12 x 20 x 2	11-3/8 x 23-3/8 x 1-3/4	500	0.27	7.20	305 x 508 x 51	9150	74.6
ZLN122424AC	12 x 24 x 2	11-3/8 x 23-3/8 x 1-3/4	500	0.27	8.66	305 x 610 x 51	9150	74.6
ZLN142024AC	14 x 20 x 2	13-1/2 x 19-1/2 x 1-3/4	500	0.27	8.64	356 x 508 x 51	9150	74.6
ZLN142524AC	14 x 25 x 2	13-1/2 x 24-1/2 x 1-3/4	500	0.27	10.83	356 x 635 x 51	9150	74.6
ZLN152024AC	15 x 20 x 2	14-1/2 x 19-1/2 x 1-3/4	500	0.27	9.12	381 x 508 x 51	9150	74.6
ZLN161624AC	16 x 16 x 2	15-1/2 x 15-1/2 x 1-3/4	500	0.27	7.66	406 x 406 x 51	9150	74.6
ZLN162024AC	16 x 20 x 2	15-1/2 x 19-1/2 x 1-3/4	500	0.27	9.60	406 x 508 x 51	9150	74.6
ZLN162424AC	16 x 24 x 2	15-1/2 x 23-1/2 x 1-3/4	500	0.27	11.55	406 x 610 x 51	9150	74.6
ZLN162524AC	16 x 25 x 2	15-1/2 x 24-1/2 x 1-3/4	500	0.27	12.03	406 x 635 x 51	9150	74.6
ZLN181824AC	18 x 18 x 2	17-1/2 x 17-1/2 x 1-3/4	500	0.27	9.92	457 x 457 x 51	9150	74.6
ZLN182024AC	18 x 20 x 2	17-1/2 x 19-1/2 x 1-3/4	500	0.27	11.04	457 x 508 x 51	9150	74.6
ZLN182424AC	18 x 24 x 2	17-1/2 x 23-1/2 x 1-3/4	500	0.27	13.28	457 x 610 x 51	9150	74.6
ZLN182524AC	18 x 25 x 2	17-1/2 x 24-1/2 x 1-3/4	500	0.27	13.84	457 x 635 x 51	9150	74.6
ZLN202024AC	20 x 20 x 2	19-1/2 x 19-1/2 x 1-3/4	500	0.27	12.00	508 x 508 x 51	9150	74.6
ZLN202424AC	20 x 24 x 2	19-3/8 x 23-3/8 x 1-3/4	500	0.27	14.43	508 x 610 x 51	9150	74.6
ZLN202524AC	20 x 25 x 2	19-1/2 x 24-1/2 x 1-3/4	500	0.27	15.04	508 x 635 x 51	9150	74.6
ZLN203024A	20 x 30 x 2	19-5/8 x 29-5/8 x 1-3/4	500	0.27	18.24	508 x 762 x 51	9150	74.6
ZLN242424AC	24 x 24 x 2	23-3/8 x 23-3/8 x 1-3/4	500	0.27	17.61	610 x 610 x 51	9150	74.6
ZLN252524AC	25 x 25 x 2	24-1/2 x 24-1/2 x 1-3/4	500	0.27	18.65	635 x 635 x 51	9150	74.6

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.00" w. g. All special sizes will be undersized by 1/8" unless specified otherwise.

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MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
ZLN122444AC	12 x 24 x 4	11-3/8 x 23-3/8 x 3-3/4	500	0.22	13.61	305 x 610 x 102	9150	62.2
ZLN162044AC	16 x 20 x 4	15-1/2 x 19-1/2 x 3-3/4	500	0.22	15.43	406 x 508 x 102	9150	62.2
ZLN162544AC	16 x 25 x 4	15-1/2 x 24-1/2 x 3-3/4	500	0.22	19.34	406 x 635 x 102	9150	62.2
ZLN182444AC	18 x 24 x 4	17-1/2 x 23-1/2 x 3-3/4	500	0.22	21.03	457 x 610 x 102	9150	62.2
ZLN202044AC	20 x 20 x 4	19-1/2 x 19-1/2 x 3-3/4	500	0.22	18.52	508 x 508 x 102	9150	62.2
ZLN202444AC	20 x 24 x 4	19-3/8 x 23-3/8 x 3-3/4	500	0.22	22.27	508 x 610 x 102	9150	62.2
ZLN202544AC	20 x 25 x 4	19-1/2 x 24-1/2 x 3-3/4	500	0.22	23.20	508 x 635 x 102	9150	62.2
ZLN242444AC	24 x 24 x 4	23-3/8 x 23-3/8 x 3-3/4	500	0.22	27.21	610 x 610 x 102	9150	62.2

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.00" w.g.

Pleats Per Lineal Foot

DEPTH	CARBOTRON
1"	16
2"	15
4"	11

Media Area to Face Area Ratio

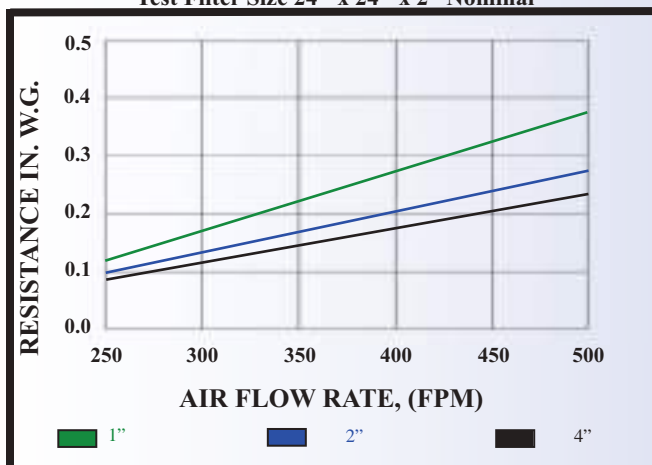
DEPTH	CARBOTRON
1"	1.97
2"	4.40
4"	6.80

The Glasfloss Z-Line Carbotron pleated filter offers MERV 8 particulate filtration combined with odor control in a single unit. The Z-Line Carbotron pleated filter helps reduce unpleasant odors created by cooking, cigarette smoke and numerous other offensive airborne odors. The gradient density media is supported by a galvanized expanded metal that maintains the pleated media pack. The media pack is sealed with a heavy-duty beverage board, die-cut frame.

The Z-Line Carbotron is used in a wide range of residential, commercial and institutional applications and comes in a wide variety of standard and special sizes in 1", 2" and 4" depths. The Z-Line Carbotron is rated under U.L. std. 900.

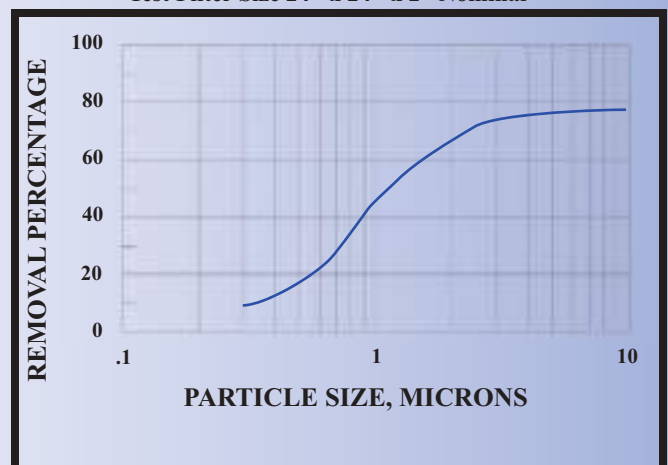
STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 2" Nominal



MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 2" Nominal





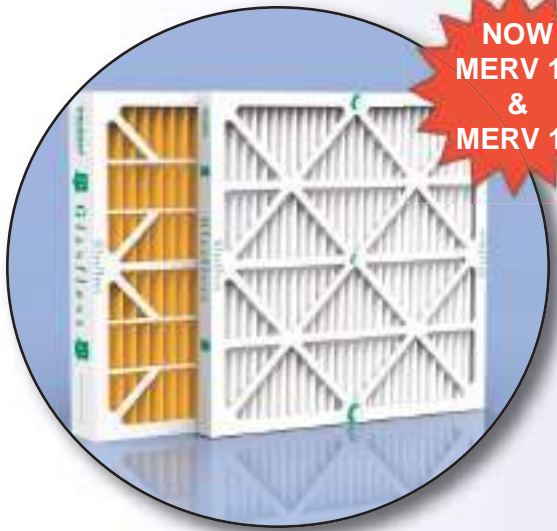
## Z-LINE SERIES CARBOTRON FEATURES

- MERV 8
- Increased Initial Efficiency
- Activated Carbon Reduces Odors
- High Dust-Holding Capacity
- Thermally- Bonded 100% Synthetic Fibers
- Heavy-duty Beverage Board Frame Construction
- Wide Range of Standard & Special Sizes
- Rated under U.L. std. 900

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**NOW  
MERV 10  
&  
MERV 11**

## Z-LINE<sup>®</sup> SERIES XM Pleated Filters

- MERV 10 & MERV 11 Performances
- Designed for Higher Air Volume Systems
- Higher Breach Strength
- Heavy-Duty Moisture Resistant Construction
- Extra Heavy-Duty Galvanized Metal Backing
- Standard 1", 2" & 4" Sizes

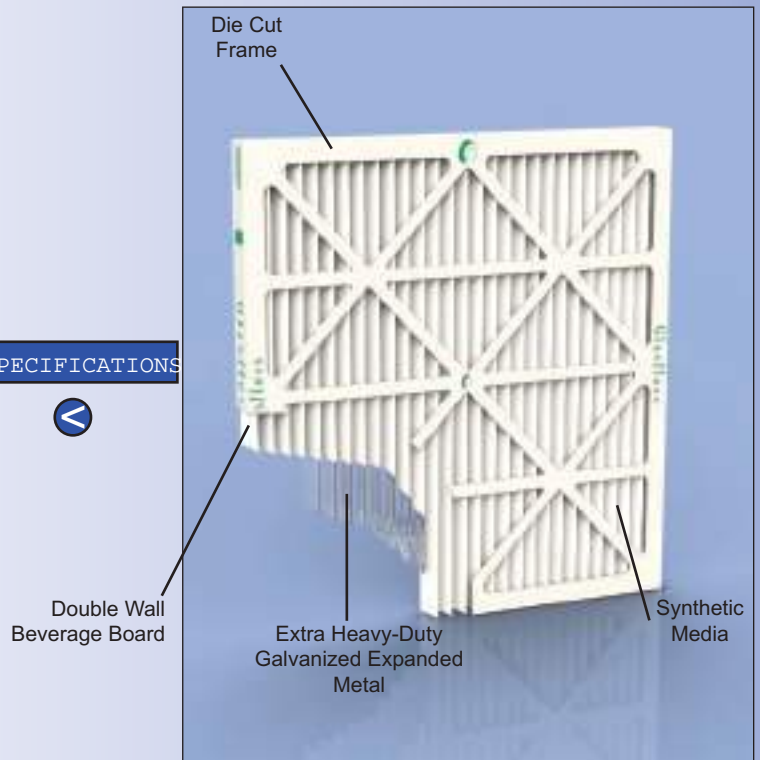
### FEATURES



The Glasfloss Z-Line Series HVXM and MR11XM pleated filters offer superior integrity construction for higher velocity applications. The Z-Line Series HVXM and MR11XM incorporate 100% synthetic media that will not absorb moisture and will not support microbial growth. The extra heavy-duty galvanized expanded metal which incorporates approximately 75% more support provides robust performance under higher air velocity applications.

Glasfloss Z-Line Series HVXM and MR11XM air filters shall be of the extended-surface pleated-media type. The media utilized shall be made of 100% synthetic fibers. The media shall be pleated in a tapered radial configuration. An extra heavy duty, recycled expanded metal reinforcement shall be laminated to the air-exit side of the media by a thermo-setting adhesive to maintain continuity of the radial pleats. The expanded metal shall be galvanized to resist rust and corrosion. The pleated cartridge shall be bonded to the peripheral interior of the outer frame. A heavy-duty moisture-resistant beverage board incorporating post-consumer material shall be utilized for an encasing frame. The frame face shall be internally laminated to the pleated cartridge apexes. The Glasfloss Z-Line Series HVXM shall achieve a MERV 10 and MR11XM shall achieve a MERV 11 per the ANSI/ASHRAE 52.2 Test Standard. Glasfloss Z-Line Series HVXM and MR11XM filters shall be classified under U.L. std. 900 and shall be rated to withstand temperatures up to 180 degrees Fahrenheit.

### SPECIFICATIONS



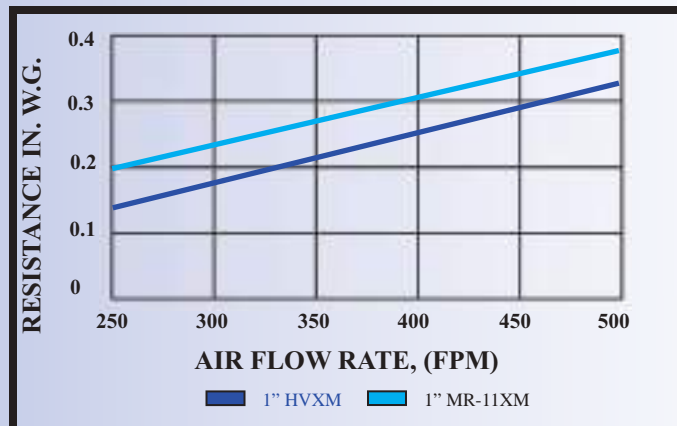
## Z-LINE SERIES HVXM & MR11XM STANDARD SIZES

SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS	
			HVXM	MR11XM				HVXM	MR11XM
10 x 10 x 1	9-1/2 x 9-1/2 x 7/8	300	.18	.24	1.61	254 x 254 x 26	5490	44.8	59.7
10 x 20 x 1	9-1/2 x 19-1/2 x 7/8	300	.18	.24	2.67	254 x 508 x 26	5490	44.8	59.7
10 x 24 x 1	9-1/2 x 23-1/2 x 7/8	300	.18	.24	3.22	254 x 610 x 26	5490	44.8	59.7
10 x 30 x 1	9-5/8 x 29-5/8 x 7/8	300	.18	.24	4.95	254 x 762 x 26	5490	44.8	59.7
12 x 12 x 1	11-1/2 x 11 1/2 x 7/8	300	.18	.24	2.06	305 x 305 x 26	5490	44.8	59.7
12 x 20 x 1	11-1/2 x 19-1/2 x 7/8	300	.18	.24	3.29	305 x 508 x 26	5490	44.8	59.7
12 x 24 x 1	11-3/8 x 23-3/8 x 7/8	300	.18	.24	3.96	305 x 610 x 26	5490	44.8	59.7
12 x 25 x 1	11-1/2 x 24-1/2 x 7/8	300	.18	.24	4.13	305 x 635 x 26	5490	44.8	59.7
12 x 30 x 1	11-5/8 x 29-1/2 x 7/8	300	.18	.24	5.16	305 x 762 x 26	5490	44.8	59.7
14 x 14 x 1	13-1/2 x 13-1/2 x 7/8	300	.18	.24	3.12	356 x 356 x 26	5490	44.8	59.7
14 x 20 x 1	13-1/2 x 19-1/2 x 7/8	300	.18	.24	3.91	356 x 508 x 26	5490	44.8	59.7
14 x 24 x 1	13 1/2 x 23 1/2 x 7/8	300	.18	.24	4.70	356 x 610 x 26	5490	44.8	59.7
14 x 25 x 1	13-1/2 x 24-1/2 x 7/8	300	.18	.24	4.90	356 x 635 x 26	5490	44.8	59.7
14 x 30 x 1	13 5/8 x 29 5/8 x 7/8	300	.18	.24	6.56	356 x 762 x 26	5490	44.8	59.7
15 x 20 x 1	14-1/2 x 19-1/2 x 7/8	300	.18	.24	4.11	381 x 508 x 26	5490	44.8	59.7
15 x 30-5/8 x 1	14-5/8 x 30-1/4 x 7/8	300	.18	.24	10.57	381 x 778 x 26	5490	44.8	59.7
16 x 16 x 1	15-1/2 x 15-1/2 x 7/8	300	.18	.24	3.45	407 x 407 x 26	5490	44.8	59.7
16 x 20 x 1	15-1/2 x 19-1/2 x 7/8	300	.18	.24	4.32	407 x 508 x 26	5490	44.8	59.7
16 x 24 x 1	15-1/2 x 23-1/2 x 7/8	300	.18	.24	5.20	407 x 610 x 26	5490	44.8	59.7
16 x 25 x 1	15-1/2 x 24-1/2 x 7/8	300	.18	.24	5.41	407 x 635 x 26	5490	44.8	59.7
16 x 30 x 1	15-5/8 x 29-5/8 x 7/8	300	.18	.24	6.67	407 x 762 x 26	5490	44.8	59.7
18 x 18 x 1	17-1/2 x 17-1/2 x 7/8	300	.18	.24	4.44	457 x 457 x 26	5490	44.8	59.7
18 x 20 x 1	17-1/2 x 19-1/2 x 7/8	300	.18	.24	4.94	457 x 508 x 26	5490	44.8	59.7
18 x 24 x 1	17-1/2 x 23-1/2 x 7/8	300	.18	.24	5.94	457 x 610 x 26	5490	44.8	59.7
18 x 25 x 1	17-1/2 x 24-1/2 x 7/8	300	.18	.24	6.19	457 x 635 x 26	5490	44.8	59.7
18 x 30 x 1	17-5/8 x 29-5/8 x 7/8	300	.18	.24	8.23	457 x 762 x 26	5490	44.8	59.7
20 x 20 x 1	19-1/2 x 19-1/2 x 7/8	300	.18	.24	5.55	508 x 508 x 26	5490	44.8	59.7
20 x 22 x 1	19-1/2 x 21-7/8 x 7/8	300	.18	.24	6.15	508 x 508 x 26	5490	44.8	59.7
20 x 24 x 1	19-3/8 x 23-3/8 x 7/8	300	.18	.24	6.68	508 x 610 x 26	5490	44.8	59.7
20 x 25 x 1	19-1/2 x 24-1/2 x 7/8	300	.18	.24	6.96	508 x 635 x 26	5490	44.8	59.7
20 x 30 x 1	19-5/8 x 29-5/8 x 7/8	300	.18	.24	8.23	508 x 762 x 26	5490	44.8	59.7
22 x 22 x 1	21-1/2 x 21-1/2 x 7/8	300	.18	.24	7.17	508 x 508 x 26	5490	44.8	59.7
24 x 24 x 1	23-3/8 x 23-3/8 x 7/8	300	.18	.24	7.92	610 x 610 x 26	5490	44.8	59.7
24 x 30 x 1	23-5/8 x 29-5/8 x 7/8	300	.18	.24	9.90	610 x 762 x 26	5490	44.8	59.7
25 x 25 x 1	24-1/2 x 24-1/2 x 7/8	300	.18	.24	8.51	635 x 635 x 26	5490	44.8	59.7

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.00" w.g.

### PRESSURE DROP

Test Filter Size 24" x 24" x 1" Nominal



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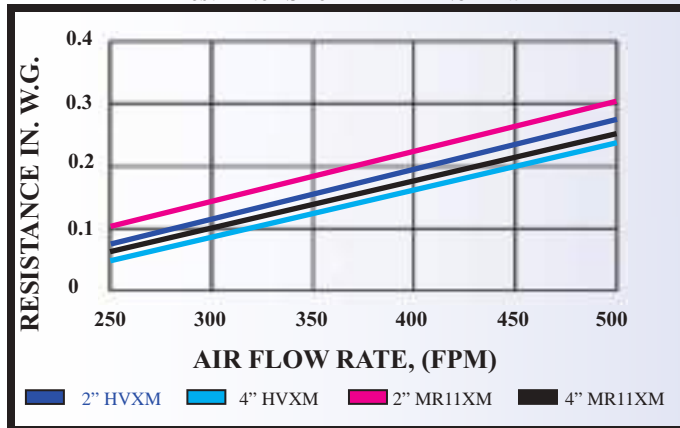
## Z-LINE SERIES HVXM & MR11XM STANDARD SIZES

SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS	
			HVXM	MR11XM				HVXM	MR11XM
10 x 20 x 2	9-1/2 x 19-1/2 x 1-3/4	500	.27	.31	6.24	254 x 508 x 51	9150	67.25	77.22
12 x 12 x 2	11-1/2 x 11-1/2 x 1-3/4	500	.27	.31	4.33	305 x 305 x 51	9150	67.25	77.22
12 x 20 x 2	11-1/2 x 19-1/2 x 1-3/4	500	.27	.31	7.20	305 x 508 x 51	9150	67.25	77.22
12 x 24 x 2	11-3/8 x 23-3/8 x 1-3/4	500	.27	.31	8.66	305 x 610 x 51	9150	67.25	77.22
14 x 20 x 2	13-1/2 x 19-1/2 x 1-3/4	500	.27	.31	8.64	356 x 508 x 51	9150	67.25	77.22
14 x 25 x 2	13-1/2 x 24-1/2 x 1-3/4	500	.27	.31	10.83	356 x 635 x 51	9150	67.25	77.22
15 x 20 x 2	14-1/2 x 19-1/2 x 1-3/4	500	.27	.31	9.12	381 x 508 x 51	9150	67.25	77.22
16 x 16 x 2	15-1/2 x 15-1/2 x 1-3/4	500	.27	.31	7.66	406 x 406 x 51	9150	67.25	77.22
16 x 20 x 2	15-1/2 x 19-1/2 x 1-3/4	500	.27	.31	9.60	406 x 508 x 51	9150	67.25	77.22
16 x 24 x 2	15-1/2 x 23-1/2 x 1-3/4	500	.27	.31	11.55	406 x 610 x 51	9150	67.25	77.22
16 x 25 x 2	15-1/2 x 24-1/2 x 1-3/4	500	.27	.31	12.03	406 x 635 x 51	9150	67.25	77.22
18 x 18 x 2	17-1/2 x 17-1/2 x 1-3/4	500	.27	.31	9.92	457 x 457 x 51	9150	67.25	77.22
18 x 20 x 2	17-1/2 x 19-1/2 x 1-3/4	500	.27	.31	11.04	457 x 508 x 51	9150	67.25	77.22
18 x 24 x 2	17-1/2 x 23-1/2 x 1-3/4	500	.27	.31	13.28	457 x 610 x 51	9150	67.25	77.22
18 x 25 x 2	17-1/2 x 24-1/2 x 1-3/4	500	.27	.31	13.84	457 x 635 x 51	9150	67.25	77.22
20 x 20 x 2	19-1/2 x 19-1/2 x 1-3/4	500	.27	.31	12.00	508 x 508 x 51	9150	67.25	77.22
20 x 24 x 2	19-3/8 x 23-3/8 x 1-3/4	500	.27	.31	14.43	508 x 610 x 51	9150	67.25	77.22
20 x 25 x 2	19-1/2 x 24-1/2 x 1-3/4	500	.27	.31	15.04	508 x 635 x 51	9150	67.25	77.22
20 x 30 x 2	19-5/8 x 29-5/8 x 1-3/4	500	.27	.31	18.24	508 x 762 x 51	9150	67.25	77.22
24 x 24 x 2	23-3/8 x 23-3/8 x 1-3/4	500	.27	.31	17.61	610 x 610 x 51	9150	67.25	77.22
25 x 25 x 2	24-1/2 x 24-1/2 x 1-3/4	500	.27	.31	18.65	635 x 635 x 51	9150	67.25	77.22
12 x 24 x 4	11-3/8 x 23-3/8 x 3-3/4	500	.22	.25	13.61	457 x 610 x 102	9150	54.80	62.27
16 x 20 x 4	15-1/2 x 19-1/2 x 3-3/4	500	.22	.25	15.43	406 x 508 x 102	9150	54.80	62.27
16 x 25 x 4	15-1/2 x 24-1/2 x 3-3/4	500	.22	.25	19.34	406 x 635 x 102	9150	54.80	62.27
18 x 24 x 4	17-1/2 x 23-1/2 x 3-3/4	500	.22	.25	21.03	457 x 610 x 102	9150	54.80	62.27
20 x 20 x 4	19-1/2 x 19-1/2 x 3-3/4	500	.22	.25	18.52	508 x 508 x 102	9150	54.80	62.27
20 x 24 x 4	19-3/8 x 23-3/8 x 3-3/4	500	.22	.25	22.27	508 x 610 x 102	9150	54.80	62.27
20 x 25 x 4	19-1/2 x 24-1/2 x 3-3/4	500	.22	.25	23.20	508 x 635 x 102	9150	54.80	62.27
24 x 24 x 4	23-3/8 x 23-3/8 x 3-3/4	500	.22	.25	27.21	610 x 610 x 102	9150	54.80	62.27

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.00" w.g.

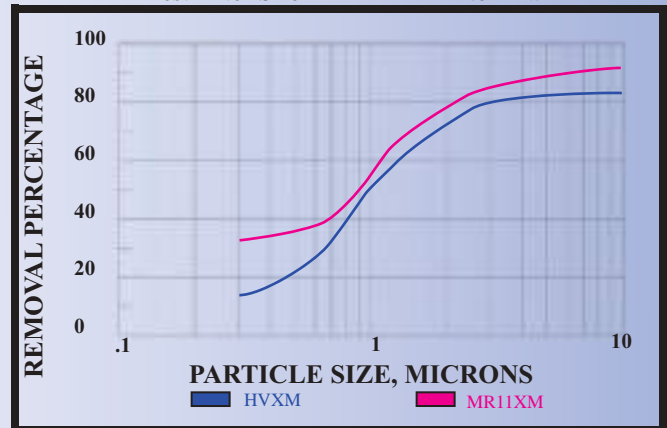
### PRESSURE DROP

Test Filter Size 24" x 24" Nominal



### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 2" Nominal



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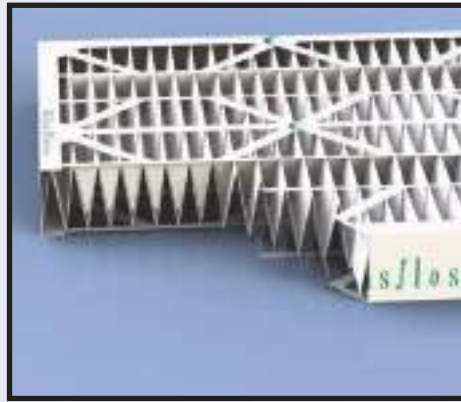
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## Z-LINE® SERIES XM Pleated Filters

- MERV 10 & MERV 11 Performances
- Designed for Higher Air Volume Systems
- Higher Breach Strength
- Heavy-Duty Moisture Resistant Construction
- Extra Heavy-Duty Galvanized Metal Backing
- Standard 1", 2" & 4" Sizes

Standard size 4" thick XM pleated filters incorporate media separators.



Glasfloss Industries incorporates color-coded carton labels on standard sizes to help identify the product, which enhance warehouse operations and shipments.



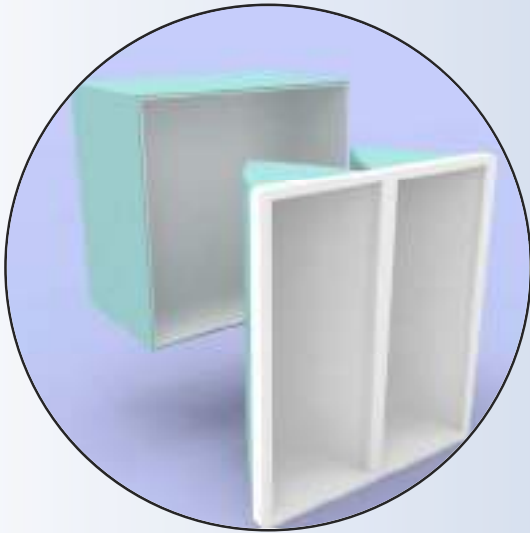
Glasfloss manufactures a variety of medium and high efficiency air filters which can be specified for LEED certification applications. For specific information on these products, please contact your local Glasfloss Sales Representative.



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## [ QUAD & CUBE FILTERS ]

- Versatile, Self-Seal Design
- Heavy-Duty Construction
- High Moisture Resistance and Durability

### FEATURES

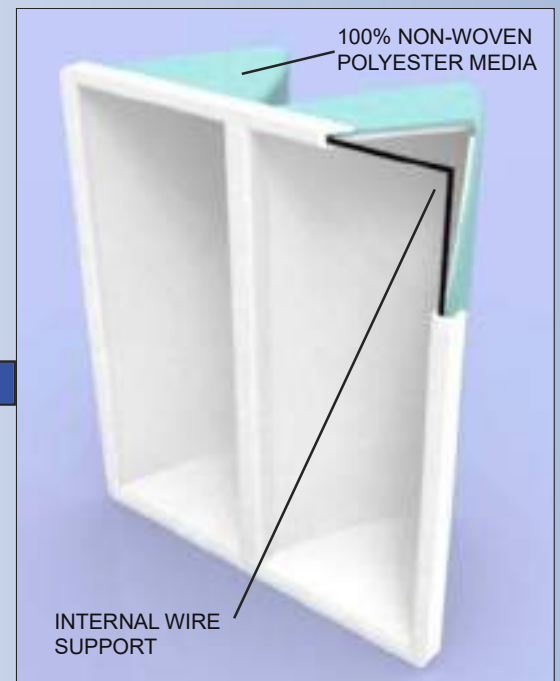


The Glasfloss line of polyester bag filters offers medium efficiency in a wide range of applications. The rigid, self-seal design of these filters helps prevent air bypass and allows the filters to operate under adverse conditions, especially where high humidity is present. The Glasfloss Quad 440 features a two-stage 100% non-woven green/white polyester media for maximum efficiency and service life. The open fibers on the intake layer catch the larger particles allowing the finer particles to be caught by the dense outflow layer. The Glasfloss Quad 420 yellow media is less restrictive to airflow and performs well in moderate dust loading applications. Glasfloss Cube Filters feature the same two-stage polyester media found in the Quad 440 and are available in regular, internal supported and unitized construction. Glasfloss Quad & Cube Filters perform well in both variable and constant volume systems.

Quad 440 & 420 extended surface air filters shall be manufactured of 100% non-woven polyester. The air entering side shall be a highly lofted, coarse fiber, designed to facilitate the depth loading of dirt particles, thus acting as an integral prefilter for the more dense second stage. The air leaving side shall incorporate a skin backing. The filter shall be manufactured to fit existing hardware and shall retain rigidity under varying air volumes. The outer and center edges of the individual pockets shall be thermally sealed. The pockets are sewn together and supported by a heavy-duty cross wire, which insures maximum rigidity and eliminates the possibility of element detachment. There shall be sufficient media overlap to ensure a positive seal between the filter and holding frame, eliminating the possibility of air bypass and the need for supplemental gasketing. All filters shall incorporate media that is classified under U.L. std. 900. The Quad 440 shall achieve a MERV 7 rating when tested in accordance with the ANSI/ASHRAE 52.2 Test Standard.



### SPECIFICATIONS



### QUAD 440 & 420 FILTERS

BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS	
				420	440				420	440
QAD122415	12 x 24 x 15	11-3/8 x 23-3/8 x 14-7/8	500	.16	.18	13.70	305 x 610 x 381	5150	39.8	62.2
QAD162015	16 x 20 x 15	15-1/2 x 19-1/2 x 14-7/8	500	.16	.18	11.90	406 x 508 x 381	5150	39.8	62.2
QAD162515	16 x 25 x 15	15-1/2 x 24-1/2 x 14-7/8	500	.16	.18	15.20	406 x 635 x 381	5150	39.8	62.2
QAD202015	20 x 20 x 15	19-1/2 x 19-1/2 x 14-7/8	500	.16	.18	12.70	508 x 508 x 381	5150	39.8	62.2
QAD202415	20 x 24 x 15	19-1/2 x 23-1/2 x 14-7/8	500	.16	.18	14.70	508 x 610 x 381	5150	39.8	62.2
QAD202515	20 x 25 x 15	19-1/2 x 24-1/2 x 14-7/8	500	.16	.18	15.20	508 x 635 x 381	5150	39.8	62.2
QAD242415	24 x 24 x 15	23-3/8 x 23-3/8 x 14-7/8	500	.16	.18	15.60	610 x 610 x 381	5150	39.8	62.2

Tolerances shall be +/- 1/16" for width and height.

### POLY CUBE FILTERS

BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	MEDIA SQUARE FEET Std. Unit.	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
QUB16208	16 x 20 x 8	15-1/2 x 19-1/2 x 7-7/8	500	.23	7.22	406 x 508 x 203	5150	57.22
QUB16258	16 x 25 x 8	15-1/2 x 24-1/2 x 7-7/8	500	.23	8.47	406 x 635 x 203	5150	57.22
QUB20208	20 x 20 x 8	19-1/2 x 19-1/2 x 7-7/8	500	.23	8.33	508 x 508 x 203	5150	57.22
QUB20258	20 x 25 x 8	19-1/2 x 24-1/2 x 7-7/8	500	.23	9.72	508 x 635 x 203	5150	57.22
QUB24248	24 x 24 x 8	23-3/8 x 23-3/8 x 7-7/8	500	.23	10.67	610 x 610 x 203	5150	57.22
QUB122411	12 x 24 x 11	11-3/8 x 23-3/8 x 10-7/8	500	.22	8.50	305 x 610 x 280	5150	54.73
QUB162011	16 x 20 x 11	15-1/2 x 19-1/2 x 10-7/8	500	.22	8.72	406 x 508 x 280	5150	54.73
QUB162511	16 x 25 x 11	15-1/2 x 24-1/2 x 10-7/8	500	.22	10.18	406 x 635 x 280	5150	54.73
QUB202011	20 x 20 x 11	19-1/2 x 19-1/2 x 10-7/8	500	.22	10.00	508 x 508 x 280	5150	54.73
QUB202511	20 x 25 x 11	19-1/2 x 24-1/2 x 10-7/8	500	.22	11.60	508 x 635 x 280	5150	54.73
QUB242411	24 x 24 x 11	23-3/8 x 23-3/8 x 10-7/8	500	.22	12.67	610 x 610 x 280	5150	54.73
QUB122420	12 x 24 x 20	11-3/8 x 23-3/8 x 19-7/8	500	.20	13.00	305 x 610 x 508	5150	49.76
QUB162020	16 x 20 x 20	15-1/2 x 19-1/2 x 19-7/8	500	.20	13.22	406 x 508 x 508	5150	49.76
QUB162520	16 x 25 x 20	15-1/2 x 24-1/2 x 19-7/8	500	.20	15.31	406 x 635 x 508	5150	49.76
QUB202020	20 x 20 x 20	19-1/2 x 19-1/2 x 19-7/8	500	.20	15.00	508 x 508 x 508	5150	49.76
QUB202520	20 x 25 x 20	19-1/2 x 24-1/2 x 19-7/8	500	.20	17.22	508 x 635 x 508	5150	49.76
QUB242420	24 x 24 x 20	23-3/8 x 23-3/8 x 19-7/8	500	.20	18.67	610 x 610 x 508	5150	49.76

Tolerances shall be +/- 1/16" for width and height. Recommended final resistance is 1.00" w.g.

### UNITIZED POLY CUBE FILTERS

BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATE D VEL. FPM	INITIAL RESIST. IN. W.G.	MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
QUB1620154USS	16 x 20 x 15	15-1/2 x 19-1/2 x 14-7/8	500	.20	8.50	406 x 508 x 381	5150	49.76
QUB1625154USS	16 x 25 x 15	15-1/2 x 24-1/2 x 14-7/8	500	.20	9.68	406 x 635 x 381	5150	49.76
QUB2020154USS	20 x 20 x 15	19-1/2 x 19-1/2 x 14-7/8	500	.20	9.44	508 x 508 x 381	5150	49.76
QUB2024154USS	20 x 24 x 15	19-1/2 x 23-3/8 x 14-7/8	500	.20	10.39	508 x 610 x 381	5150	49.76
QUB2025154USS	20 x 25 x 15	19-1/2 x 24-1/2 x 14-7/8	500	.20	10.63	508 x 635 x 381	5150	49.76
QUB2424154USS	24 x 24 x 15	23-3/8 x 23-3/8 x 14-7/8	500	.20	11.33	610 x 610 x 381	5150	49.76

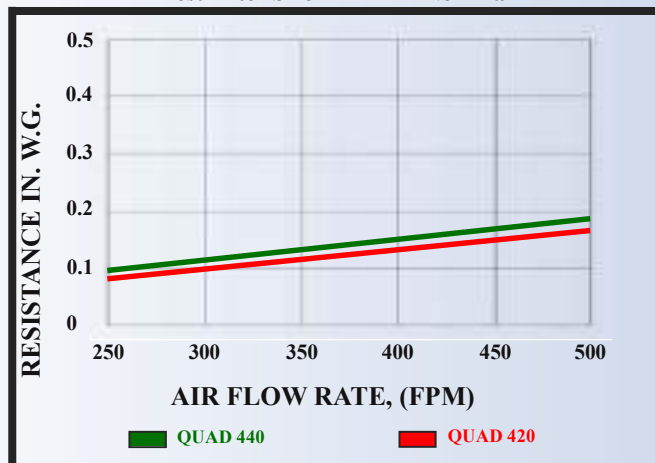
Tolerances shall be +/- 1/16" for width and height. Recommended final resistance is 1.00" w.g.

**SPECIFICATIONS FOR CUBE FILTERS**

Glasfloss Standard, Internal Supported and Unitized Cubes shall be made from 100% non-woven polyester fibers. The uniform fiber orientation and graduated density lends itself to greater depth loading and higher arrestance. The air entering side shall be a highly lofted, coarse fiber, designed to facilitate the depth loading of dirt particles, thus acting as an integral prefilter for the more dense second stage. The air leaving side shall incorporate a skin backing. Glasfloss Cubes shall be green and white in color, white being the air entry side. There shall be a skin backing on the air leaving side. Internal Supported and Unitized Cubes are constructed using a heavy gauge wire support frame. The media blanket completely encloses the perimeter wire and offers a self-sealing, self-supporting filter. Standard, Internal Supported and Unitized Cubes are engineered for use in temperatures up to 250 degrees Fahrenheit (121 degrees Celsius). Glasfloss Cubes achieve a MERV 7 rating when tested in accordance with the ANSI/ASHRAE 52.2 Test Standard.

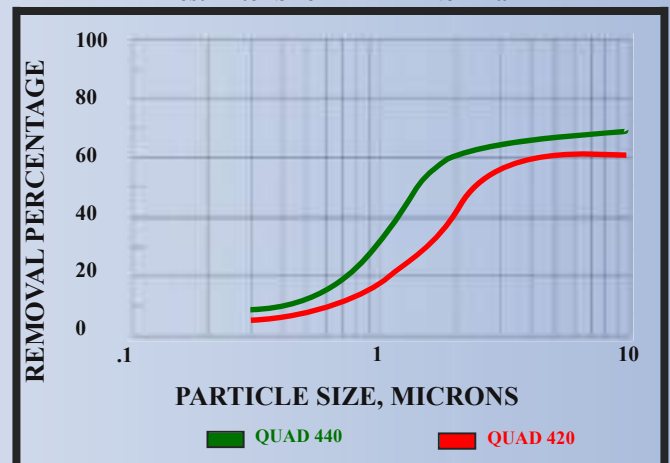
**STANDARD PRESSURE DROP**

Test Filter Size 24" x 24" Nominal



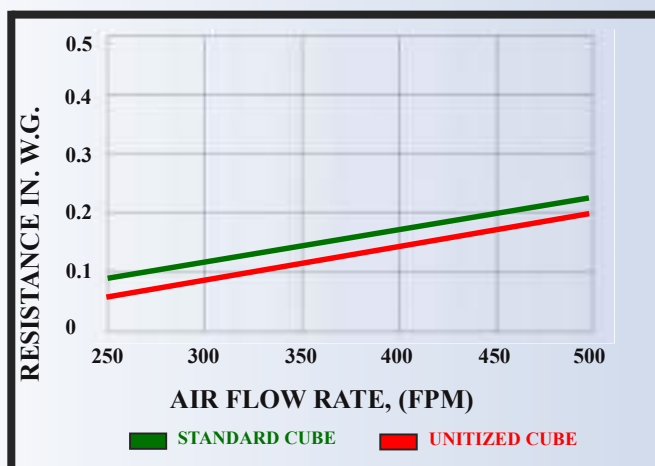
**MINIMUM PARTICLE SIZE EFFICIENCY**

Test Filter Size 24" x 24" Nominal



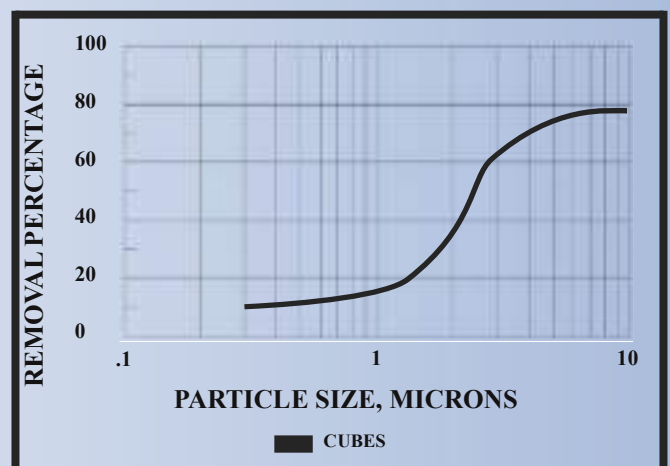
**STANDARD PRESSURE DROP**

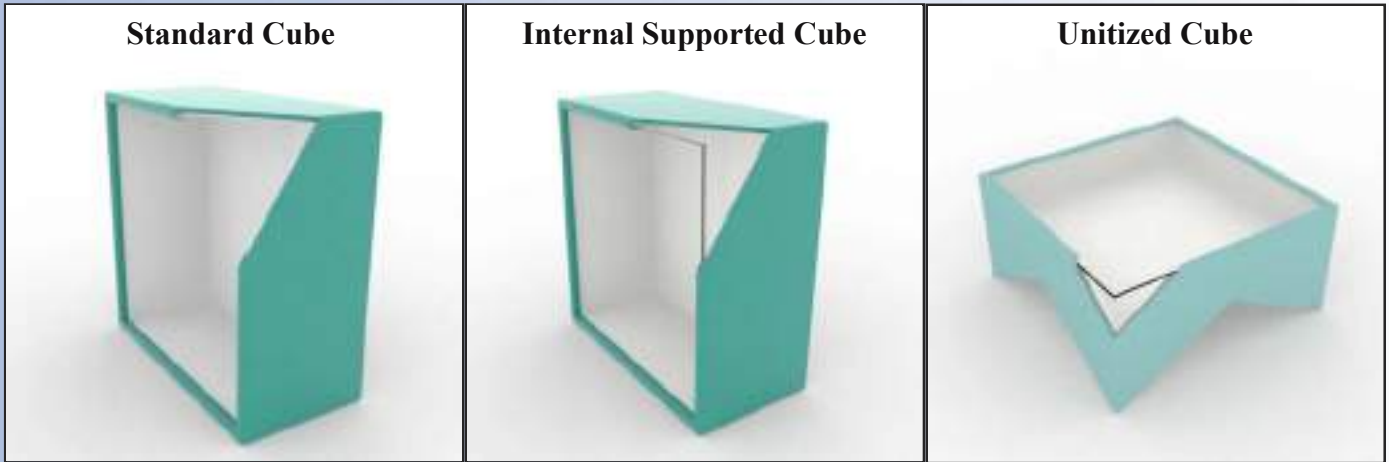
Test Filter Size 24" x 24" Nominal



**MINIMUM PARTICLE SIZE EFFICIENCY**

Test Filter Size 24" x 24" Nominal





**Quads** - Glasfloss Quad 440 and Quad 420 filters are made with 100% non-woven polyester media. Glasfloss Quad 440 features a special, two-stage green/white media and Quad 420 features a dual-textured fiber blend yellow media. A header option is also available.

**Cubes** - Glasfloss Cube filters are made with a two-stage 100% non-woven polyester media. The seams of all Glasfloss Cubes are sewn together for maximum durability. The Internal Supported Cubes use a heavy-duty

< CONSTRUCTION

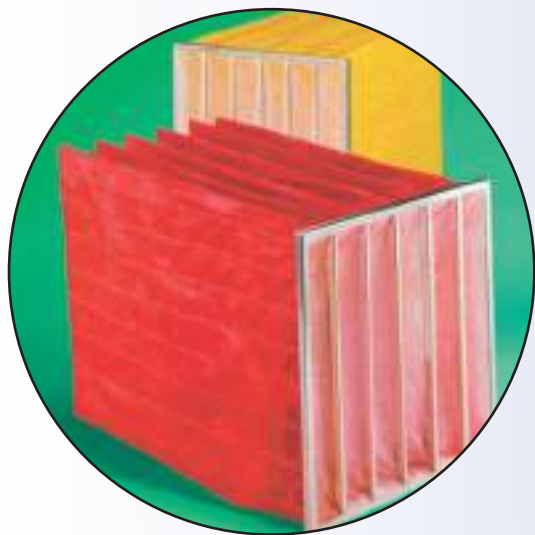
These versatile air filters can be used in a wide range of industrial and commercial applications, both as primary filters and pre-filters to more efficient final filters. Their self-seal design and high dust-holding capacity make them a good choice for automatic roll conversions. Glasfloss Quad and Cube filters are also ideal for high-moisture applications, and they perform well in variable air volume systems.

< APPLICATIONS

Distributed by:







## EXCEL<sup>®</sup> & PURAPAK<sup>®</sup> Extended Surface Bag Filters

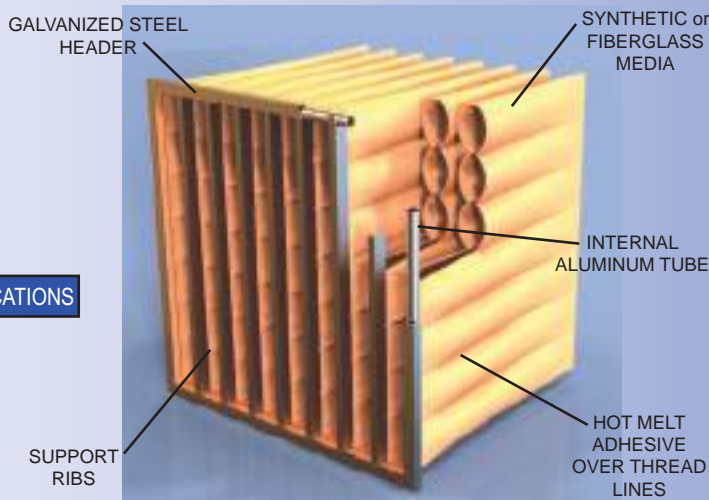
- Synthetic or Fiberglass Media Available
- Exclusive Reinforced Header Design
- Heavy-duty Span-stitched Construction
- High Dust Holding Capacity
- Special Sizes Available

### FEATURES

Glasfloss Excel and Purapak extended surface bag filters offer excellent performance and durability for applications requiring medium to high efficiencies. The Excel bag filter features 100% synthetic media and offers excellent value and performance for most applications. The Purapak bag filter features ultra-fine fiberglass media and is ideal for applications where fiberglass is specified. Both the Excel and Purapak bag filters feature an exclusive internal header design which adds strength to the filters and virtually eliminates "racking" during installation. ANSI/ASHRAE 52.2 test method performance ranges include MERV 9 (40-45%), MERV 11 (60-65%), MERV 13 (80-85%) and MERV 15 (90-95%). Glasfloss Excel and Purapak bag filters are available in most standard and special-size face dimensions in standard and special depths.

The Glasfloss Excel extended surface bag filter shall incorporate an ultra-fine, dual ply 100% synthetic media. The Glasfloss Purapak extended surface bag filter shall incorporate an ultra-fine fiberglass media. Individual pockets shall be formed by span stitching down the length of the pockets to maximize the utilization of media. The stitching shall be coated with a thin line of hot melt adhesive to secure the thread to the media and seal any perforations in the media caused by sewing. The pockets shall be individually adhered to an internal aluminum tube header. Each individual pocket shall be fastened to the next by means of pocket support ribs, which are mechanically attached to the internal header. The entire assembly shall be encased in a galvanized steel header frame to prevent racking and possible bypass of unfiltered air. Glasfloss Excel and Purapak filters shall be Classified under U.L. standard 900. Excel and Purapak filters shall be rated to withstand temperatures up to 160 degrees Fahrenheit.

### SPECIFICATIONS



Efficiency	40-45%	60-65%	80-85%	90-95%
MERV	9	11	13	15

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PRODUCT BULLETIN 8BAG • SECTION 8 • 7-18-16



THE CLEAR CHOICE SINCE 1936

EXCEL				90-95% MERV 15			80-85% MERV 13			60-65% MERV 11			40-45% MERV 9			MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM	
SIZE W x H x D NOMINAL	PKT NO.	AIR FLOW CAPACITY CFM			INITIAL RESIST. IN. W.G.			INITIAL RESIST. IN. W.G.			INITIAL RESIST. IN. W.G.			INITIAL RESIST. IN. W.G.				
24 x 24 x 15	6	1000	1250	1500	.45	.55	.66	.37	.46	.55	.31	.38	.46	.25	.32	.38	35.75	610 x 610 x 381
24 x 24 x 15	7	1000	1250	1500	.42	.51	.62	.35	.43	.52	.29	.35	.43	.24	.29	.36	41.71	610 x 610 x 381
24 x 24 x 15	8	1000	1250	1500	.37	.47	.60	.31	.40	.50	.26	.33	.42	.21	.27	.34	47.66	610 x 610 x 381
24 x 24 x 15	10	1000	1250	1500	.34	.40	.53	.28	.34	.45	.24	.28	.37	-	-	-	59.58	610 x 610 x 381
24 x 24 x 15	12	1000	1250	1500	.27	.33	.47	.22	.28	.40	.19	.23	.33	-	-	-	71.50	610 x 610 x 381
24 x 24 x 21	6	1000	1250	1500	.38	.50	.57	.32	.42	.48	.27	.35	.40	.22	.28	.33	48.75	610 x 610 x 533
24 x 24 x 21	8	1000	1500	2000	.34	.46	.56	.28	.39	.47	.24	.32	.39	.19	.26	.32	65.00	610 x 610 x 533
24 x 24 x 21	10	1000	1500	2000	.30	.40	.52	.25	.34	.43	.21	.28	.36	.17	.23	.30	81.25	610 x 610 x 533
24 x 24 x 25	6	1000	1500	2000	.28	.49	.61	.24	.41	.51	.20	.34	.42	-	-	-	57.41	610 x 610 x 635
24 x 24 x 25	8	1000	1500	2000	.20	.36	.53	.17	.31	.44	.14	.25	.37	-	-	-	76.55	610 x 610 x 635
24 x 24 x 25	10	1500	2000	2500	.26	.45	.59	.22	.37	.49	.18	.31	.41	-	-	-	95.69	610 x 610 x 635
24 x 24 x 29	6	1500	2000	2500	.45	.55	.66	.38	.46	.55	.32	.38	.46	-	-	-	66.08	610 x 610 x 737
24 x 24 x 29	8	1500	2000	2500	.35	.44	.55	.29	.37	.46	.24	.30	.38	.20	.27	-	88.11	610 x 610 x 737
24 x 24 x 29	10	1500	2000	2500	.22	.36	.52	.19	.31	.43	.16	.25	.36	-	-	-	110.13	610 x 610 x 737
24 x 24 x 36	6	1500	2000	2500	.34	.51	.64	.28	.43	.54	.24	.35	.45	-	-	-	81.25	610 x 610 x 914
24 x 24 x 36	8	1500	2000	2500	.26	.43	.54	.22	.36	.46	.18	.30	.38	-	-	-	108.83	610 x 610 x 914
24 x 24 x 36	10	1500	2000	2500	.20	.34	.47	.16	.28	.40	.14	.24	.33	-	-	-	135.41	610 x 610 x 914
20 x 24 x 15	6	850	1050	1250	.45	.55	.66	.37	.46	.55	.31	.38	.46	.25	.32	.38	35.75	508 x 610 x 381
20 x 24 x 15	8	850	1050	1250	.37	.47	.60	.31	.40	.50	.26	.33	.42	.21	.27	.34	47.66	508 x 610 x 381
20 x 24 x 15	10	850	1050	1250	.34	.40	.53	.28	.34	.45	.24	.28	.37	.19	.23	.31	59.58	508 x 610 x 381
20 x 24 x 21	6	850	1050	1250	.38	.50	.57	.32	.42	.48	.27	.35	.40	.22	.28	.33	48.75	508 x 610 x 533
20 x 24 x 21	8	850	1250	1650	.34	.46	.56	.28	.39	.47	.24	.32	.39	.19	.26	.32	65.00	508 x 610 x 533
20 x 24 x 21	10	850	1250	1650	.30	.40	.52	.25	.34	.43	.21	.28	.36	.17	.23	.30	81.25	508 x 610 x 533
20 x 24 x 25	6	850	1250	1650	.28	.49	.61	.24	.41	.51	.20	.34	.42	-	-	-	57.41	508 x 610 x 533
20 x 24 x 25	8	850	1250	1650	.20	.36	.53	.17	.31	.44	.14	.25	.37	-	-	-	76.55	508 x 610 x 533
20 x 24 x 25	10	1250	1650	2100	.26	.45	.59	.22	.37	.49	.18	.31	.41	-	-	-	95.69	508 x 610 x 533
20 x 24 x 29	6	1250	1650	2100	.45	.55	.66	.38	.46	.55	.32	.38	.46	-	-	-	66.08	508 x 610 x 737
20 x 24 x 29	8	1250	1650	2100	.35	.44	.55	.29	.37	.46	.24	.30	.38	-	-	-	88.11	508 x 610 x 737
20 x 24 x 29	10	1250	1650	2100	.22	.36	.52	.19	.31	.43	.16	.25	.36	-	-	-	110.13	508 x 610 x 737
20 x 24 x 36	6	1250	1650	2100	.34	.51	.64	.28	.43	.54	.24	.35	.45	-	-	-	81.25	508 x 610 x 914
20 x 24 x 36	8	1250	1650	2100	.26	.43	.54	.22	.36	.46	.18	.30	.38	-	-	-	108.83	508 x 610 x 914
20 x 24 x 36	10	1250	1650	2100	.20	.34	.47	.16	.28	.40	.14	.24	.33	-	-	-	135.41	508 x 610 x 914
12 x 24 x 15	3	500	625	750	.45	.55	.66	.37	.46	.55	.31	.38	.46	.25	.32	.38	17.87	305 x 610 x 381
12 x 24 x 15	4	500	625	750	.37	.47	.60	.31	.40	.50	.26	.33	.42	.21	.27	.34	23.83	305 x 610 x 381
12 x 24 x 15	5	500	625	750	.34	.40	.53	.28	.34	.45	.24	.28	.37	.19	.23	.31	29.79	305 x 610 x 381
12 x 24 x 15	6	500	625	750	.27	.33	.47	.22	.28	.40	.19	.23	.33	.15	.19	.27	35.75	305 x 610 x 381
12 x 24 x 21	3	500	625	750	.38	.50	.57	.32	.42	.48	.27	.35	.40	.22	.28	.33	24.37	305 x 610 x 533
12 x 24 x 21	4	500	750	1000	.34	.46	.56	.28	.39	.47	.24	.32	.39	.19	.26	.32	32.50	305 x 610 x 533
12 x 24 x 21	5	500	750	1000	.30	.40	.52	.25	.34	.43	.21	.28	.36	.17	.23	.30	40.63	305 x 610 x 533
12 x 24 x 25	3	500	750	1000	.28	.49	.61	.24	.41	.51	.20	.34	.42	-	-	-	28.70	305 x 610 x 635
12 x 24 x 25	4	500	750	1000	.20	.36	.53	.17	.31	.44	.14	.25	.37	-	-	-	38.27	305 x 610 x 635
12 x 24 x 25	5	750	1000	1250	.26	.45	.59	.22	.37	.49	.18	.31	.41	-	-	-	47.84	305 x 610 x 635
12 x 24 x 29	3	750	1000	1250	.45	.55	.66	.38	.46	.55	.32	.38	.46	-	-	-	33.04	305 x 610 x 737
12 x 24 x 29	4	750	1000	1250	.35	.44	.55	.29	.37	.46	.24	.30	.38	-	-	-	44.05	305 x 610 x 737
12 x 24 x 29	5	750	1000	1250	.22	.36	.52	.19	.31	.43	.16	.25	.36	-	-	-	55.07	305 x 610 x 737
12 x 24 x 36	3	750	1000	1250	.34	.51	.64	.28	.43	.54	.24	.35	.45	-	-	-	40.62	305 x 610 x 914
12 x 24 x 36	4	750	1000	1250	.26	.43	.54	.22	.36	.46	.18	.30	.38	-	-	-	54.16	305 x 610 x 914
12 x 24 x 36	5	750	1000	1250	.20	.34	.47	.16	.28	.40	.14	.24	.33	-	-	-	67.70	305 x 610 x 914
24 x 24 x 12	6	1500	2000	2500	-	-	-	-	-	-	-	-	-	.40	.46	.52	29.25	610 x 610 x 305
20 x 24 x 12	4	1000	1250	1500	-	-	-	-	-	-	-	-	-	.37	.42	.49	19.50	508 x 610 x 305
20 x 24 x 12	5	1250	1500	1750	-	-	-	-	-	-	-	-	-	.38	.42	.48	24.37	508 x 610 x 305
20 x 24 x 12	6	1250	1500	2000	-	-	-	-	-	-	-	-	-	.34	.40	.46	29.25	508 x 610 x 305
20 x 20 x 12	4	1000	1250	1500	-	-	-	-	-	-	-	-	-	.39	.44	.51	16.50	508 x 508 x 305
20 x 20 x 12	5	1000	1500	1750	-	-	-	-	-	-	-	-	-	.35	.47	.54	20.62	508 x 508 x 305
20 x 20 x 12	6	1250	1500	1750	-	-	-	-	-	-	-	-	-	.36	.43	.49	24.75	508 x 508 x 305
20 x 20 x 21	5	1250	1500	2000	-	-	-	-	-	-	-	-	-	.27	.33	.39	34.63	508 x 508 x 533
20 x 20 x 21	6	1250	1500	2000	-	-	-	-	-	-	-	-	-	.23	.29	.34	41.25	508 x 508 x 533
20 x 20 x 21	7	1250	1500	2000	-	-	-	-	-	-	-	-	-	.19	.25	.31	48.63	508 x 508 x 533
12 x 24 x 12	3	750	1000	1250	-	-	-	-	-	-	-	-	-	.40	.46	.52	14.63	305 x 610 x 305

Actual size of face dimension is 5/8" less than nominal. Header thickness is 13/16"

Tolerances shall be +/- 1/8" for height, width and +/- 1" on depth.

All special sizes will be undersized 1/4" unless specified otherwise.

Depth of filter is measured from the front of the header to the end of the pocket.

Recommended final resistance is 1.50" in. w.g.

Performance values based on ASHRAE and in-house testing methods.

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PURAPAK				90-95% MERV 15			80-85% MERV 13			60-65% MERV 11			40-45% MERV 9			MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM	
SIZE W x H x D NOMINAL	PKT NO.	AIR FLOW CAPACITY CFM			INITIAL RESIST. IN. W.G.			INITIAL RESIST. IN. W.G.			INITIAL RESIST. IN. W.G.			INITIAL RESIST. IN. W.G.				
24 x 24 x 15	6	1000	1250	1500	.50	.62	.74	.42	.52	.62	.35	.43	.52	.29	.35	.42	35.75	610 x 610 x 381
24 x 24 x 15	7	1000	1250	1500	.47	.57	.70	.39	.48	.59	.33	.40	.49	.27	.33	.40	41.71	610 x 610 x 381
24 x 24 x 15	8	1000	1250	1500	.42	.53	.67	.35	.45	.56	.29	.37	.47	.24	.30	.38	47.66	610 x 610 x 381
24 x 24 x 15	10	1000	1250	1500	.38	.45	.60	.32	.38	.50	.26	.31	.42	-	-	-	59.58	610 x 610 x 381
24 x 24 x 15	12	1000	1250	1500	.30	.37	.53	.25	.31	.45	.21	.26	.37	-	-	-	71.50	610 x 610 x 381
24 x 24 x 21	6	1000	1250	1500	.43	.56	.64	.36	.47	.54	.30	.39	.45	.25	.32	.37	48.75	610 x 610 x 533
24 x 24 x 21	8	1000	1500	2000	.38	.52	.63	.32	.44	.53	.26	.36	.44	.22	.30	.36	65.00	610 x 610 x 533
24 x 24 x 21	10	1000	1500	2000	.34	.45	.58	.29	.38	.49	.24	.31	.40	.19	.26	.33	81.25	610 x 610 x 533
24 x 24 x 25	6	1000	1500	2000	.32	.55	.68	.27	.46	.57	.22	.38	.47	-	-	-	57.41	610 x 610 x 635
24 x 24 x 25	8	1000	1500	2000	.23	.41	.59	.19	.34	.50	.16	.29	.41	-	-	-	76.55	610 x 610 x 635
24 x 24 x 25	10	1500	2000	2500	.29	.50	.66	.24	.42	.55	.20	.35	.46	-	-	-	95.69	610 x 610 x 635
24 x 24 x 29	6	1500	2000	2500	.51	.62	.74	.43	.52	.62	.36	.43	.52	-	-	-	66.08	610 x 610 x 737
24 x 24 x 29	8	1500	2000	2500	.39	.49	.62	.33	.41	.52	.27	.34	.43	.22	.30	-	88.11	610 x 610 x 737
24 x 24 x 29	10	1500	2000	2500	.25	.41	.58	.21	.34	.49	.17	.29	.40	-	-	-	110.13	610 x 610 x 737
24 x 24 x 36	6	1500	2000	2500	.38	.57	.72	.32	.48	.60	.26	.40	.50	-	-	-	81.25	610 x 610 x 914
24 x 24 x 36	8	1500	2000	2500	.29	.48	.61	.24	.40	.51	.20	.33	.43	-	-	-	108.83	610 x 610 x 914
24 x 24 x 36	10	1500	2000	2500	.22	.38	.53	.18	.32	.45	.15	.26	.37	-	-	-	135.41	610 x 610 x 914
20 x 24 x 15	6	850	1050	1250	.50	.62	.74	.42	.52	.62	.35	.43	.52	.29	.35	.42	35.75	508 x 610 x 381
20 x 24 x 15	8	850	1050	1250	.42	.53	.67	.35	.45	.56	.29	.37	.47	.24	.30	.38	47.66	508 x 610 x 381
20 x 24 x 15	10	850	1050	1250	.38	.45	.60	.32	.38	.50	.26	.31	.42	.22	.26	.34	59.58	508 x 610 x 381
20 x 24 x 21	6	850	1050	1250	.43	.56	.64	.36	.47	.54	.30	.39	.45	.25	.32	.37	48.75	508 x 610 x 533
20 x 24 x 21	8	850	1250	1650	.38	.52	.63	.32	.44	.53	.26	.36	.44	.22	.30	.36	65.00	508 x 610 x 533
20 x 24 x 21	10	850	1250	1650	.34	.45	.58	.29	.38	.49	.24	.31	.40	.19	.26	.33	81.25	508 x 610 x 533
20 x 24 x 25	6	850	1250	1650	.32	.55	.68	.27	.46	.57	.22	.38	.47	-	-	-	57.41	508 x 610 x 533
20 x 24 x 25	8	850	1250	1650	.23	.41	.59	.19	.34	.50	.16	.29	.41	-	-	-	76.55	508 x 610 x 533
20 x 24 x 25	10	1250	1650	2100	.29	.50	.66	.24	.42	.55	.20	.35	.46	-	-	-	95.69	508 x 610 x 533
20 x 24 x 29	6	1250	1650	2100	.51	.62	.74	.43	.52	.62	.36	.43	.52	-	-	-	66.08	508 x 610 x 737
20 x 24 x 29	8	1250	1650	2100	.39	.49	.62	.33	.41	.52	.27	.34	.43	-	-	-	88.11	508 x 610 x 737
20 x 24 x 29	10	1250	1650	2100	.25	.41	.58	.21	.34	.49	.17	.29	.40	-	-	-	110.13	508 x 610 x 737
20 x 24 x 36	6	1250	1650	2100	.38	.57	.72	.32	.48	.60	.26	.40	.50	-	-	-	81.25	508 x 610 x 914
20 x 24 x 36	8	1250	1650	2100	.29	.48	.61	.24	.40	.51	.20	.33	.43	-	-	-	108.83	508 x 610 x 914
20 x 24 x 36	10	1250	1650	2100	.22	.38	.53	.18	.32	.45	.15	.26	.37	-	-	-	135.41	508 x 610 x 914
12 x 24 x 15	3	500	625	750	.50	.62	.74	.42	.52	.62	.35	.43	.52	.29	.35	.42	17.87	305 x 610 x 381
12 x 24 x 15	4	500	625	750	.42	.53	.67	.35	.45	.56	.29	.37	.47	.24	.30	.38	23.83	305 x 610 x 381
12 x 24 x 15	5	500	625	750	.38	.45	.60	.32	.38	.50	.26	.31	.42	.22	.26	.34	29.79	305 x 610 x 381
12 x 24 x 15	6	500	625	750	.30	.37	.53	.25	.31	.45	.21	.26	.37	.17	.21	.30	35.75	305 x 610 x 381
12 x 24 x 21	3	500	625	750	.43	.56	.64	.36	.47	.54	.30	.39	.45	.25	.32	.37	24.37	305 x 610 x 533
12 x 24 x 21	4	500	750	1000	.38	.52	.63	.32	.44	.53	.26	.36	.44	.22	.30	.36	32.50	305 x 610 x 533
12 x 24 x 21	5	500	750	1000	.34	.45	.58	.29	.38	.49	.24	.31	.40	.19	.26	.33	40.63	305 x 610 x 533
12 x 24 x 25	3	500	750	1000	.32	.55	.68	.27	.46	.57	.22	.38	.47	-	-	-	28.70	305 x 610 x 635
12 x 24 x 25	4	500	750	1000	.23	.41	.59	.19	.34	.50	.16	.29	.41	-	-	-	38.27	305 x 610 x 635
12 x 24 x 25	5	750	1000	1250	.29	.50	.66	.24	.42	.55	.20	.35	.46	-	-	-	47.84	305 x 610 x 635
12 x 24 x 29	3	750	1000	1250	.51	.62	.74	.43	.52	.62	.36	.43	.52	-	-	-	33.04	305 x 610 x 737
12 x 24 x 29	4	750	1000	1250	.39	.49	.62	.33	.41	.52	.27	.34	.43	-	-	-	44.05	305 x 610 x 737
12 x 24 x 29	5	750	1000	1250	.25	.41	.58	.21	.34	.49	.17	.29	.40	-	-	-	55.07	305 x 610 x 737
12 x 24 x 36	3	750	1000	1250	.38	.57	.72	.32	.48	.60	.26	.40	.50	-	-	-	40.62	305 x 610 x 914
12 x 24 x 36	4	750	1000	1250	.29	.48	.61	.24	.40	.51	.20	.33	.43	-	-	-	54.16	305 x 610 x 914
12 x 24 x 36	5	750	1000	1250	.22	.38	.53	.18	.32	.45	.15	.26	.37	-	-	-	67.70	305 x 610 x 914
24 x 24 x 12	6	1500	2000	2500	-	-	-	-	-	-	-	-	-	.44	.51	.57	29.25	610 x 610 x 305
20 x 24 x 12	4	1000	1250	1500	-	-	-	-	-	-	-	-	-	.41	.46	.54	19.50	508 x 610 x 305
20 x 24 x 12	5	1250	1500	1750	-	-	-	-	-	-	-	-	-	.42	.46	.53	24.37	508 x 610 x 305
20 x 24 x 12	6	1250	1500	2000	-	-	-	-	-	-	-	-	-	.37	.44	.51	29.25	508 x 610 x 305
20 x 20 x 12	4	1000	1250	1500	-	-	-	-	-	-	-	-	-	.43	.48	.56	16.50	508 x 508 x 305
20 x 20 x 12	5	1000	1500	1750	-	-	-	-	-	-	-	-	-	.39	.52	.59	20.62	508 x 508 x 305
20 x 20 x 12	6	1250	1500	1750	-	-	-	-	-	-	-	-	-	.40	.47	.54	24.75	508 x 508 x 305
20 x 20 x 21	5	1250	1500	2000	-	-	-	-	-	-	-	-	-	.30	.36	.43	34.63	508 x 508 x 533
20 x 20 x 21	6	1250	1500	2000	-	-	-	-	-	-	-	-	-	.25	.32	.37	41.25	508 x 508 x 533
20 x 20 x 21	7	1250	1500	2000	-	-	-	-	-	-	-	-	-	.21	.28	.34	48.63	508 x 508 x 533
12 x 24 x 12	3	750	1000	1250	-	-	-	-	-	-	-	-	-	.44	.51	.57	14.63	305 x 610 x 305

Actual size of face dimension is 5/8" less than nominal. Header thickness is 13/16"

Tolerances shall be +/- 1/8" for height, width and +/- 1" on depth.

All special sizes will be undersized 1/4" unless specified otherwise.

Depth of filter is measured from the front of the header to the end of the pocket.

Recommended final resistance is 1.50" in. w.g.

Performance values based on ASHRAE and in-house testing methods.

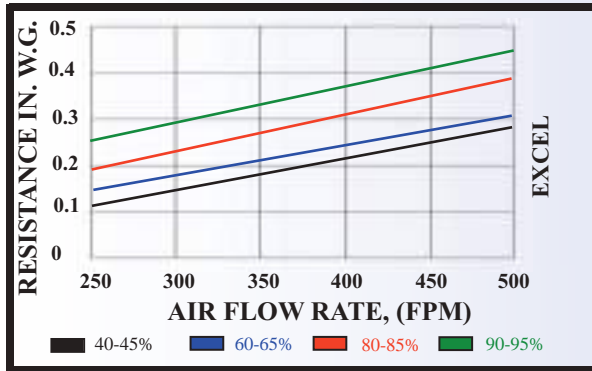
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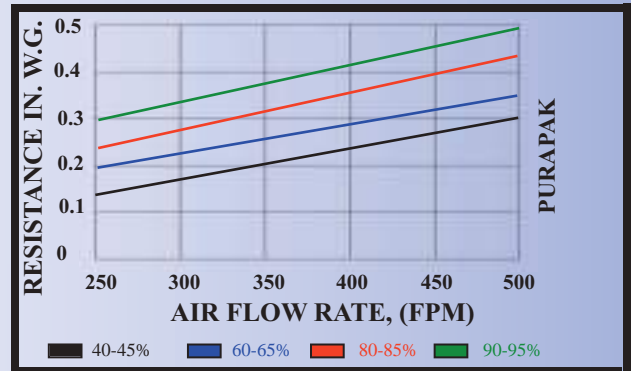
### INITIAL PRESSURE DROP

Test Filter Size 24" x 24" x 29" 8 PKT Nominal



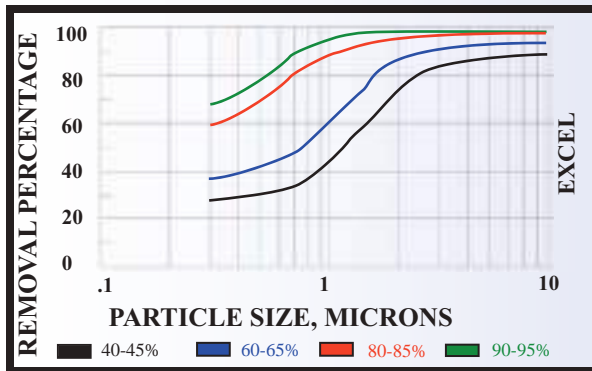
### INITIAL PRESSURE DROP

Test Filter Size 24" x 24" x 29" 8 PKT Nominal



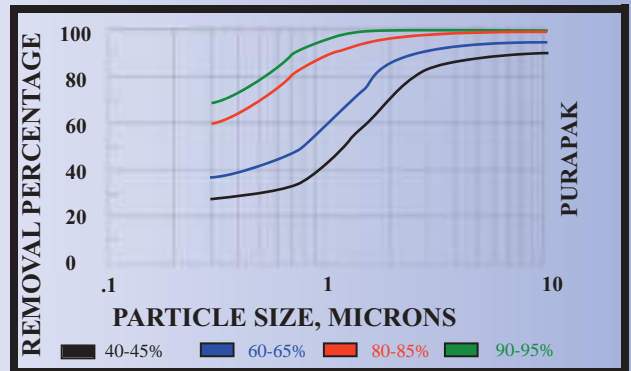
### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 29" 8 PKT Nominal



### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 29" 8 PKT Nominal



### PART NUMBER CONFIGURATION

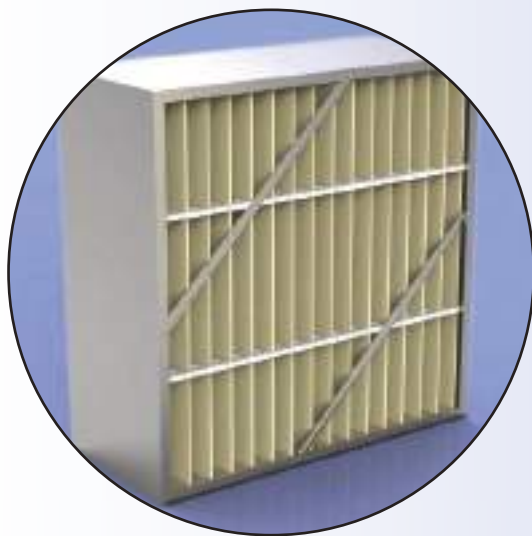
PREFIX	FILTER SIZE	EFFICIENCY	POCKETS	GASKET LOCATION	HANGER LOOPS	HEADER STYLE	EXACT
SBG = Excel PBG = Purapak OBG = FG Oil Mist**	NUMERICAL SIZE OF FILTER Width/Height/Depth i.e 242412	4 = 40-45% 6 = 60-65% 8 = 80-85% 9 = 90-95%	3 4 5 6 7 8 10 12	Blank = None A = Air Exit 4 Sides B = Air Entry 4 Sides C = Air Entry/Exit 8 Sides D = Side Load 2 Vertical Sides S = One Vertical Side	Blank = None 1 = One End, Each Pocket 2 = Middle of Each Pocket 3 = Both Ends, Each Pocket OR **6" Reinforced loops on OBG 4 = Both Ends & Middle, Each Pocket 5 = 4" Continuous Loops	Blank = Standard 7/8 CM = Cambridge 1 1/8	Blank = Standard E = Exact

Example: Synthetic Bag, 24 x 24 x 25, 95%, 6 pocket, gasket on air exit 4 sides & loops both ends, each pocket.  
**PART NUMBER = "SBG24242596A3"**

Glasfloss' unique internal tube header design creates unmatched header rigidity and is ideal for side access housings. Glasfloss Excel & Purapak extended surface bag filters incorporate media that is color coded to identify efficiency:

- 90-95% Yellow
- 80-85% Pink
- 60-65% Orange
- 40-45%\*  \*Tan/Yellow (Fiberglass), White (Synthetic)





## Z-PAK<sup>®</sup> SERIES

High Efficiency Rigid Cell

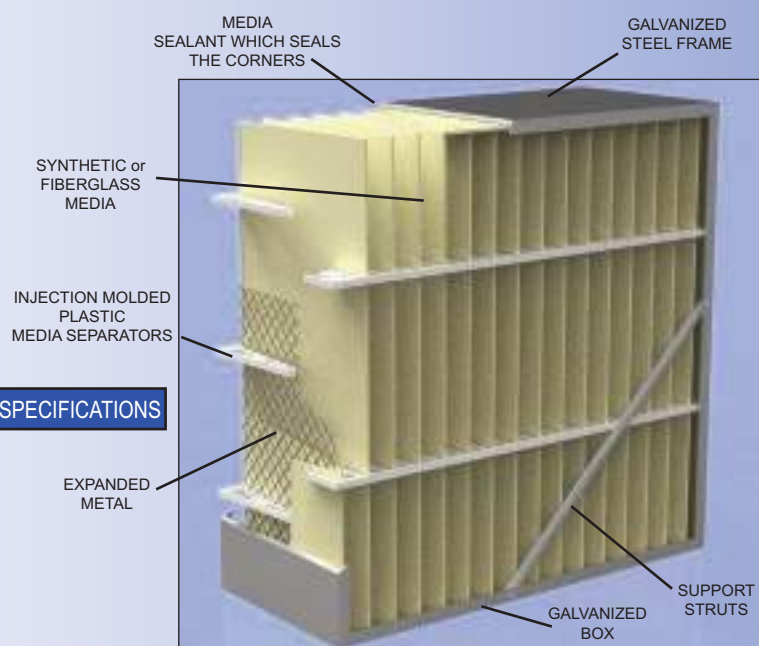
- Synthetic or Fiberglass Media Available
- Injection Molded Pleat Separators
- Header or Box Styles
- High Dust Holding Capacity
- Ideal for VAV Systems

**FEATURES** >

Glasfloss Z-Pak air filters are designed for medium and high efficiency applications and offer superior service life. The Z-Pak's total rigid construction makes it ideal for variable air volume systems (VAV), where changes in air flow can have an adverse affect on non-rigid type filters. Z-Pak filters are available with fiberglass or synthetic media in four efficiency performance levels: MERV 9 (40-45%), MERV 11 (60-65%), MERV 13 (80-85%) and MERV 14 / 15 (90-95%). The Z-Pak is available in a variety of filter face dimensions with two optional depths.

The Glasfloss Z-Pak Series frame shall be a rigid construction of 26 gauge galvanized steel. A heavy gauge, galvanized steel header is optional for the Z-Pak Series. The media shall be a high density synthetic fiber or a microfine glass fiber. The filter media pack shall be constructed by pleating a continuous sheet of media into uniform spaced pleats, which are separated by flame retardant, injection molded plastic media separators. A heavy-duty expanded metal reinforcement shall be laminated to the air exit side of the media by a thermo-setting adhesive to maintain continuity of the radial pleats. The expanded metal shall be galvanized to resist rust and corrosion. Metal vertical brackets shall be utilized to stabilize the media pack and prevent air bypass. The air entry and air exit side shall be fitted with two 26 gauge support struts. The pleated media ends are sealed to the top and bottom of the metal frame to prevent air bypass. Gasket material, 3/4" in width and 1/4" in thickness, is optional. Glasfloss Z-Pak series filters shall be rated to withstand temperatures up to 180 degrees Fahrenheit. Glasfloss Z-Pak filters shall be Classified under U.L. std. 900.

< **SPECIFICATIONS**



Efficiency	40-45%	60-65%	80-85%	90-95%
MERV	9	11	13	14-15

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PRODUCT BULLETIN 9ZPAK · SECTION 9 · 11-1 -15

### Z-PAK SYNTHETIC SERIES

BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		FINAL RESIST. IN. W.G.	MEDIA SQUARE FEET
				BOX	HEADER		
<b>MERV 14 - 90-95% Efficiency</b>							
ZPS242412	24 X 24 X 12	23-3/8 X 23-3/8 X 11-1/2	500	.55	.65	1.50	58.33
ZPS122412	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	.55	.65	1.50	29.17
ZPS202012	20 X 20 X 12	19-3/8 X 19-3/8 X 11-1/2	500	.55	.65	1.50	42.66
ZPS202412	20 X 24 X 12	19-3/8 X 23-3/8 X 11-1/2	500	.55	.65	1.50	47.40
ZPS252012	25 X 20 X 12	24-3/8 X 19-3/8 X 11-1/2	500	.55	.65	1.50	55.78
ZPS24246	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	.29	.37	1.50	26.39
ZPS12246	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	.29	.37	1.50	13.20
ZPS20206	20 X 20 X 6	19-3/8 X 19-3/8 X 5-7/8	250	.29	.37	1.50	19.30
ZPS20246	20 X 24 X 6	19-3/8 X 23-3/8 X 5-7/8	250	.29	.37	1.50	21.45
ZPS25206	25 X 20 X 6	24-3/8 X 19-3/8 X 5-7/8	250	.29	.37	1.50	25.24
<b>MERV 13 - 80-85% Efficiency</b>							
ZPS242412	24 X 24 X 12	23-3/8 X 23-3/8 X 11-1/2	500	.40	.54	1.50	58.33
ZPS122412	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	.40	.54	1.50	29.17
ZPS202012	20 X 20 X 12	19-3/8 X 19-3/8 X 11-1/2	500	.40	.54	1.50	42.66
ZPS202412	20 X 24 X 12	19-3/8 X 23-3/8 X 11-1/2	500	.40	.54	1.50	47.40
ZPS252012	25 X 20 X 12	24-3/8 X 19-3/8 X 11-1/2	500	.40	.54	1.50	55.78
ZPS24246	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	.22	.28	1.50	26.39
ZPS12246	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	.22	.28	1.50	13.20
ZPS20206	20 X 20 X 6	19-3/8 X 19-3/8 X 5-7/8	250	.22	.28	1.50	19.30
ZPS20246	20 X 24 X 6	19-3/8 X 23-3/8 X 5-7/8	250	.22	.28	1.50	21.45
ZPS25206	25 X 20 X 6	24-3/8 X 19-3/8 X 5-7/8	250	.22	.28	1.50	25.24
<b>MERV 11 - 60-65% Efficiency</b>							
ZPS242412	24 X 24 X 12	23-3/8 X 23-3/8 X 11-1/2	500	.24	.34	1.50	58.33
ZPS122412	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	.24	.34	1.50	29.17
ZPS202012	20 X 20 X 12	19-3/8 X 19-3/8 X 11-1/2	500	.24	.34	1.50	42.66
ZPS202412	20 X 24 X 12	19-3/8 X 23-3/8 X 11-1/2	500	.24	.34	1.50	47.40
ZPS252012	25 X 20 X 12	24-3/8 X 19-3/8 X 11-1/2	500	.24	.34	1.50	55.78
ZPS24246	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	.14	.22	1.50	26.39
ZPS12246	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	.14	.22	1.50	13.20
ZPS20206	20 X 20 X 6	19-3/8 X 19-3/8 X 5-7/8	250	.14	.22	1.50	19.30
ZPS20246	20 X 24 X 6	19-3/8 X 23-3/8 X 5-7/8	250	.14	.22	1.50	21.45
ZPS25206	25 X 20 X 6	24-3/8 X 19-3/8 X 5-7/8	250	.14	.22	1.50	25.24
<b>MERV 9 - 40-45% Efficiency</b>							
ZPS242412	24 X 24 X 12	23-3/8 X 23-3/8 X 11-1/2	500	.20	.25	1.50	58.33
ZPS122412	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	.20	.25	1.50	29.17
ZPS202012	20 X 20 X 12	19-3/8 X 19-3/8 X 11-1/2	500	.20	.25	1.50	42.66
ZPS202412	20 X 24 X 12	19-3/8 X 23-3/8 X 11-1/2	500	.20	.25	1.50	47.40
ZPS252012	25 X 20 X 12	24-3/8 X 19-3/8 X 11-1/2	500	.20	.25	1.50	55.78
ZPS24246	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	.11	.16	1.50	26.39
ZPS12246	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	.11	.16	1.50	13.20
ZPS20206	20 X 20 X 6	19-3/8 X 19-3/8 X 5-7/8	250	.11	.16	1.50	19.30
ZPS20246	20 X 24 X 6	19-3/8 X 23-3/8 X 5-7/8	250	.11	.16	1.50	21.45
ZPS25206	25 X 20 X 6	24-3/8 X 19-3/8 X 5-7/8	250	.11	.16	1.50	25.24

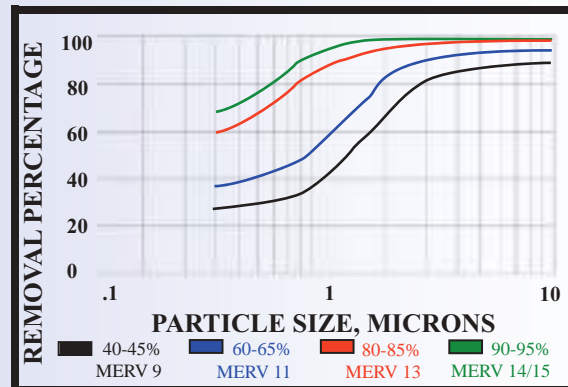
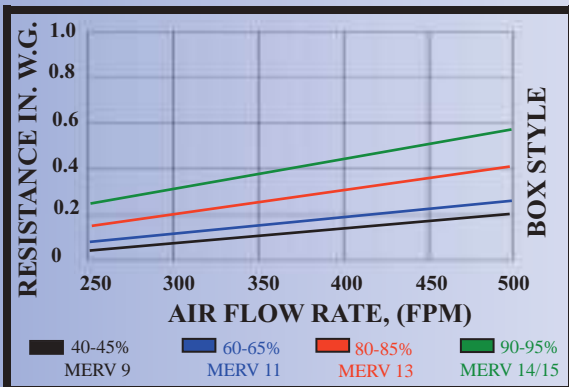
Tolerances shall be +/- 1/16" for width and height. The frame depth shall not exceed 5-7/8" and 11-1/2". All special sizes will be undersized 1/4" unless specified otherwise. Header thickness shall be 13/16". Performance values based on ASHRAE and in-house testing methods.

#### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 12" Nominal

#### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 12" Nominal



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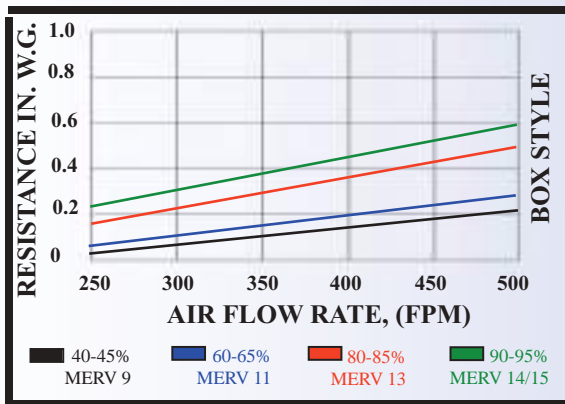
### Z-PAK FIBERGLASS SERIES

BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		FINAL RESIST. IN. W.G.	MEDIA SQUARE FEET
				BOX	HEADER		
<b>MERV 15 - 90-95% Efficiency</b>							
ZPK242412	24 X 24 X 12	23-3/8 X 23-3/8 X 11-1/2	500	0.59	0.70	1.50	58.33
ZPK122412	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	0.59	0.70	1.50	29.17
ZPK202012	20 X 20 X 12	19-3/8 X 19-3/8 X 11-1/2	500	0.59	0.70	1.50	42.66
ZPK202412	20 X 24 X 12	19-3/8 X 23-3/8 X 11-1/2	500	0.59	0.70	1.50	47.40
ZPK252012	25 X 20 X 12	24-3/8 X 19-3/8 X 11-1/2	500	0.59	0.70	1.50	55.78
ZPK24246	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	0.31	0.41	1.50	26.39
ZPK12246	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	0.31	0.41	1.50	13.20
ZPK20206	20 X 20 X 6	19-3/8 X 19-3/8 X 5-7/8	250	0.31	0.41	1.50	19.30
ZPK20246	20 X 24 X 6	19-3/8 X 23-3/8 X 5-7/8	250	0.31	0.41	1.50	21.45
ZPK25206	25 X 20 X 6	24-3/8 X 19-3/8 X 5-7/8	250	0.31	0.41	1.50	25.24
<b>MERV 13 - 80-85% Efficiency</b>							
ZPK242412	24 X 24 X 12	23-3/8 X 23-3/8 X 11-1/2	500	0.48	0.58	1.50	58.33
ZPK122412	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	0.48	0.58	1.50	29.17
ZPK202012	20 X 20 X 12	19-3/8 X 19-3/8 X 11-1/2	500	0.48	0.58	1.50	42.66
ZPK202412	20 X 24 X 12	19-3/8 X 23-3/8 X 11-1/2	500	0.48	0.58	1.50	47.40
ZPK252012	25 X 20 X 12	24-3/8 X 19-3/8 X 11-1/2	500	0.48	0.58	1.50	55.78
ZPK24246	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	0.26	0.35	1.50	26.39
ZPK12246	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	0.26	0.35	1.50	13.20
ZPK20206	20 X 20 X 6	19-3/8 X 19-3/8 X 5-7/8	250	0.26	0.35	1.50	19.30
ZPK20246	20 X 24 X 6	19-3/8 X 23-3/8 X 5-7/8	250	0.26	0.35	1.50	21.45
ZPK25206	25 X 20 X 6	24-3/8 X 19-3/8 X 5-7/8	250	0.26	0.35	1.50	25.24
<b>MERV 11 - 60-65% Efficiency</b>							
ZPK242412	24 X 24 X 12	23-3/8 X 23-3/8 X 11-1/2	500	.32	.48	1.50	58.33
ZPK122412	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	.32	.48	1.50	29.17
ZPK202012	20 X 20 X 12	19-3/8 X 19-3/8 X 11-1/2	500	.32	.48	1.50	42.66
ZPK202412	20 X 24 X 12	19-3/8 X 23-3/8 X 11-1/2	500	.32	.48	1.50	47.40
ZPK252012	25 X 20 X 12	24-3/8 X 19-3/8 X 11-1/2	500	.32	.48	1.50	55.78
ZPK24246	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	.21	.28	1.50	26.39
ZPK12246	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	.21	.28	1.50	13.20
ZPK20206	20 X 20 X 6	19-3/8 X 19-3/8 X 5-7/8	250	.21	.28	1.50	19.30
ZPK20246	20 X 24 X 6	19-3/8 X 23-3/8 X 5-7/8	250	.21	.28	1.50	21.45
ZPK25206	25 X 20 X 6	24-3/8 X 19-3/8 X 5-7/8	250	.21	.28	1.50	25.24
<b>MERV 9 - 40-45% Efficiency</b>							
ZPK242412	24 X 24 X 12	23-3/8 X 23-3/8 X 11-1/2	500	.22	.27	1.50	58.33
ZPK122412	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	.22	.27	1.50	29.17
ZPK202012	20 X 20 X 12	19-3/8 X 19-3/8 X 11-1/2	500	.22	.27	1.50	42.66
ZPK202412	20 X 24 X 12	19-3/8 X 23-3/8 X 11-1/2	500	.22	.27	1.50	47.40
ZPK252012	25 X 20 X 12	24-3/8 X 19-3/8 X 11-1/2	500	.22	.27	1.50	55.78
ZPK24246	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	.13	.18	1.50	26.39
ZPK12246	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	.13	.18	1.50	13.20
ZPK20206	20 X 20 X 6	19-3/8 X 19-3/8 X 5-7/8	250	.13	.18	1.50	19.30
ZPK20246	20 X 24 X 6	19-3/8 X 23-3/8 X 5-7/8	250	.13	.18	1.50	21.45
ZPK25206	25 X 20 X 6	24-3/8 X 19-3/8 X 5-7/8	250	.13	.18	1.50	25.24

Tolerances shall be +/- 1/16" for width and height. The frame depth shall not exceed 5-7/8" and 11-1/2". All special sizes will be undersized 1/4" unless specified otherwise. Header thickness shall be 13/16". Performance values based on ASHRAE and in-house testing methods.

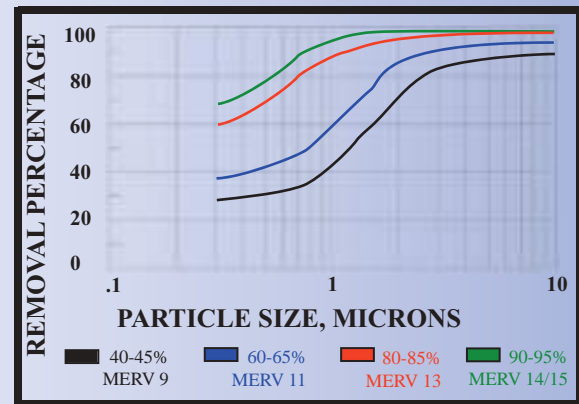
#### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 12" Nominal



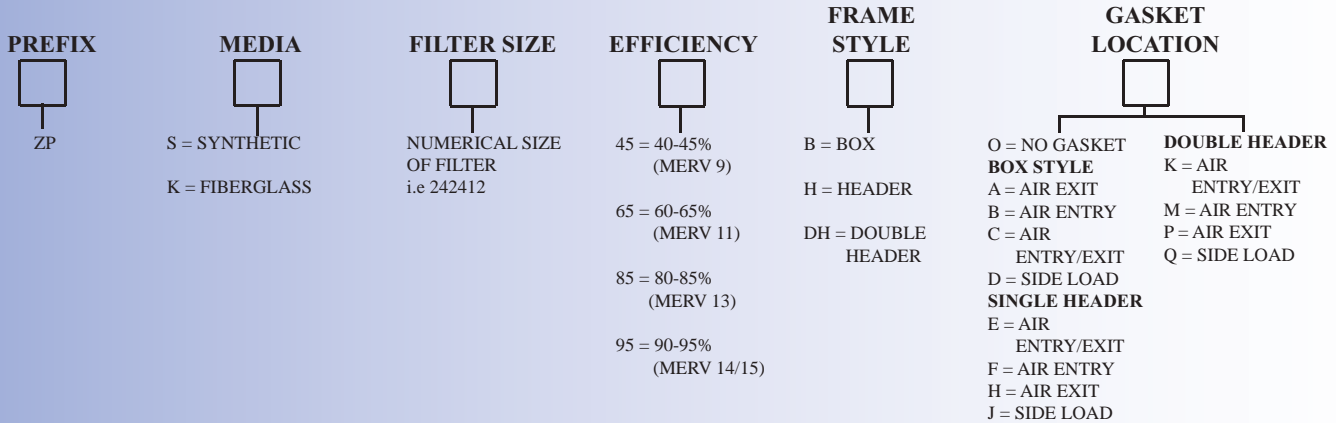
#### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 12" Nominal



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## PART NUMBER CONFIGURATION



>

### Z-PAK SERIES FILTERS

- High Efficiency Synthetic or Fiberglass Media
- Ideal for Variable Air Volume Systems
- 6" and 12" Depths
- Available with Box or Header Construction
- Ideal for High Humidity Applications (Synthetic Series)
- Spring Clip Holes (box style)

Glasfloss Z-PAK Series incorporates media that is color coded to identify efficiency:

90-95% Yellow	<div style="width: 20px; height: 10px; background-color: yellow; border: 1px solid black;"></div>
80-85% Pink	<div style="width: 20px; height: 10px; background-color: pink; border: 1px solid black;"></div>
60-65% Orange	<div style="width: 20px; height: 10px; background-color: orange; border: 1px solid black;"></div>
40-45%*	<div style="display: inline-block; width: 20px; height: 10px; background-color: #f5deb3; border: 1px solid black; margin-right: 5px;"></div> <div style="width: 20px; height: 10px; background-color: white; border: 1px solid black;"></div>

\*Tan/Yellow (Fiberglass), White (Synthetic)

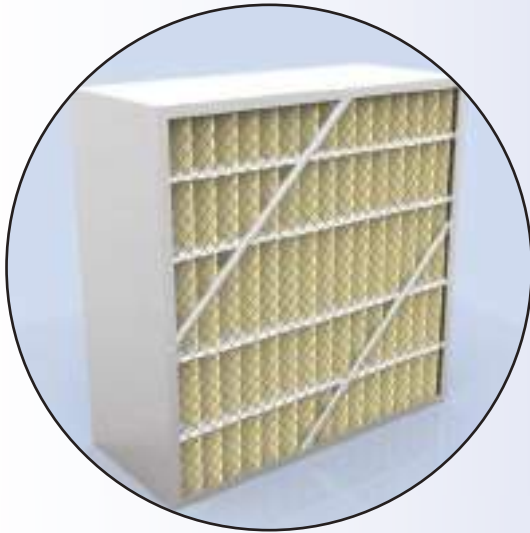


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## Z-PAK® GT SERIES

Gas Turbine Series

- Heavy-Duty Construction for Gas Turbine Applications
- Synthetic Media for Extra Durability and Moisture Resistance
- Injection Molded Pleat Separators
- Extra Durability for Demanding HVAC Applications
- MERV 11, 13 and 14

### FEATURES

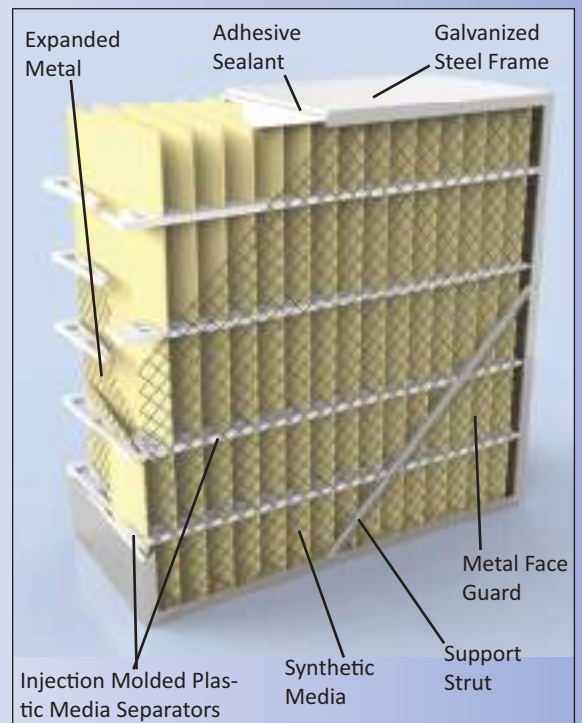


Glasfloss Z-Pak GT filters are designed to withstand the rigors of a gas turbine engine, centrifugal compressor and other high velocity applications. Heavy-duty face grills and additional media pack reinforcements ensure the integrity of the filters under the most demanding conditions. Z-Pak GT filters are available in 12" and 6" depths in most standard size dimensions in box style construction.

The Glasfloss Z-Pak GT Series frame shall be a rigid construction of 26 gauge galvanized steel. The media shall be a high density, 100% synthetic fiber. The filter media pack shall be constructed by pleating a continuous sheet of media into uniform spaced pleats that are separated by flame retardant, injection molded plastic media separators. There shall be four separate rows of media separators on the air entering sides and five separate rows on the air exit side. A heavy-duty expanded metal reinforcement shall be laminated to the air exit side of the media by a thermo-setting adhesive to maintain continuity of the radial pleats. The expanded metal shall be galvanized to resist rust and corrosion. Metal vertical brackets shall be utilized to stabilize the media pack and prevent air bypass. An expanded metal reinforcement face guard is on the air entering and air leaving sides of the frame to insure filter integrity and increase rigidity. The pleated media ends are adhered to the top and bottom of the metal frame with an adhesive sealant to prevent air bypass. Gasket material, 3/4" in width and 1/4" in thickness, is optional. The filter shall be rated to withstand temperatures up to 180 degrees Fahrenheit. The filters shall be Classified under U. L. Std. 900 and withstand up to 8 in. w.g. in an "Air Filter Breaching Test."



### SPECIFICATIONS



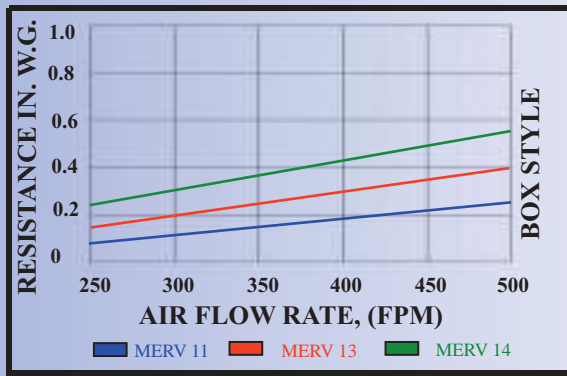
### Z-PAK GT

MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	FINAL RESIST. IN. W.G.	MEDIA SQUARE FEET	WEIGHT (lbs.)
<b>MERV 14</b>							
ZPS24241295BOGT	24 X 24 X 12	23-3/8 X 23-3/8 X 11-1/2	500	.55	1.50	58.33	20
ZPS12241295BOGT	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	.55	1.50	29.17	14
ZPS2424695BOGT	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	.29	1.50	26.39	11
ZPS1224695BOGT	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	.29	1.50	13.20	8
<b>MERV 13</b>							
ZPS24241285BOGT	24 X 24 X 12	23-3/8 X 23-3/8 X 11-1/2	500	.41	1.50	58.33	20
ZPS12241285BOGT	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	.41	1.50	29.17	14
ZPS2424685BOGT	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	.23	1.50	26.39	11
ZPS1224685BOGT	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	.23	1.50	13.20	8
<b>MERV 11</b>							
ZPS24241265BOGT	24 X 24 X 12	23-3/8 X 23-3/8 X 11-1/2	500	.24	1.50	58.33	20
ZPS12241265BOGT	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	.24	1.50	29.17	14
ZPS2424665BOGT	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	.14	1.50	26.39	11
ZPS1224665BOGT	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	.14	1.50	13.20	8

\* Model Number represents a non-gasketed filter.

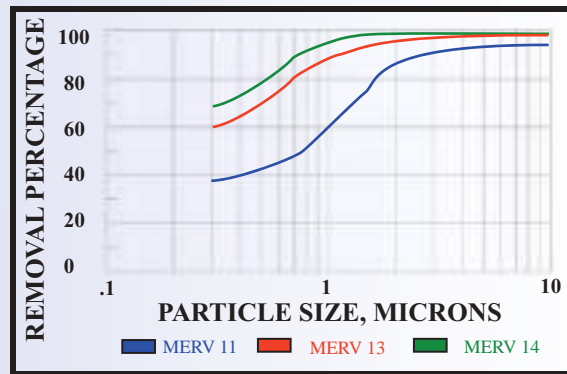
#### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 12" Nominal



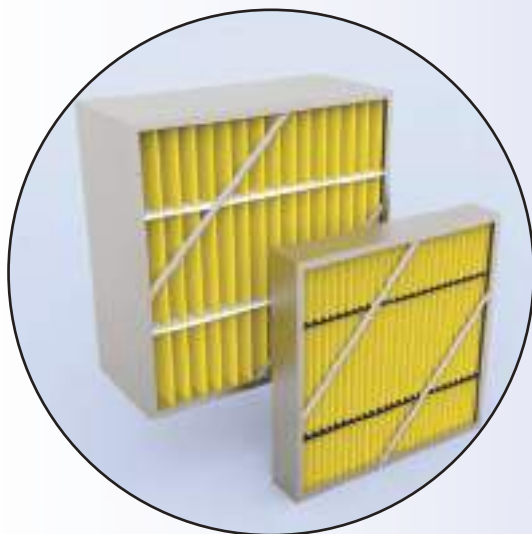
#### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 12" Nominal



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# Z-PAK<sup>®</sup> HC SERIES

High Capacity Rigid Cell

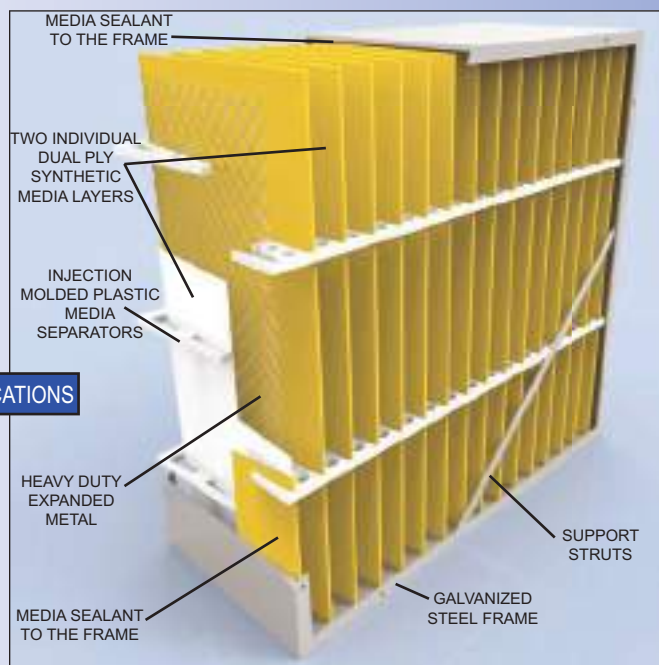
- Low Pressure Drop and Superior Service Life
- Two Individual Dual Ply Synthetic Media Layers
- Injection Molded Pleat Separators
- Header or Box Styles
- High Dust Holding Capacity
- Ideal for VAV Systems

**FEATURES** >

Glasfloss Z-Pak HC rigid cell filters are designed for high efficiency applications and incorporate two individual filtration media layers that provide very low pressure drop and superior service life. The Z-Pak HC's total rigid construction makes it ideal for variable air volume systems (VAV), where changes in air flow can have an adverse effect on non-rigid type filters. Z-Pak HC filters are designed to handle high airflow and are available in MERV 14 performance.

The Glasfloss Z-Pak HC Series frame shall be a rigid construction of 26 gauge galvanized steel. A heavy gauge galvanized steel header is optional for the Z-Pak HC Series. The two distinct filtration media layers shall be a high density synthetic fiber blend. The filter media pack shall be constructed by pleating continuous sheets of media into uniform spaced pleats, which are separated and secured by flame retardant, injection molded plastic media separators. Heavy duty expanded metal shall be bonded and secured between the two layers of media. The heavy duty expanded metal shall be galvanized to resist rust and corrosion. The air entry and air exit side shall be fitted with two 26 gauge support struts. The pleated media ends are sealed and secured to the top and bottom of the metal frame to prevent air bypass. Gasket material, 3/4" in width and 1/4" in thickness, is optional. Glasfloss Z-Pak HC series filters shall be rated to withstand temperatures up to 180 degrees Fahrenheit. Glasfloss Z-Pak HC filters shall be Classified under U.L. std. 900.

< **SPECIFICATIONS**



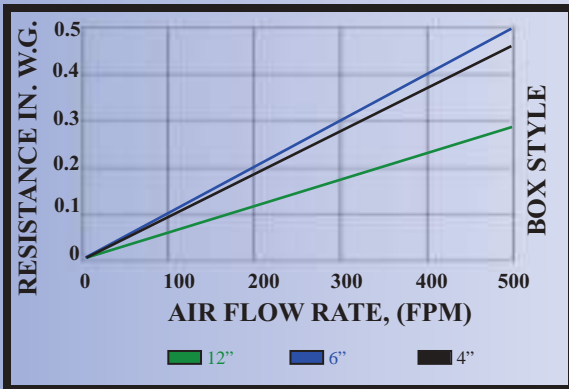
### Z-PAK HC SYNTHETIC SERIES

BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		FINAL RESIST. IN. W.G.	MEDIA SQUARE FOOTAGE	
				BOX	HEADER		BOX	HEADER
<b>MERV 14</b>								
ZPS242412	24 X 24 X 12	23-3/8 X 23-3/8 X 11-1/2	500	.28	.35	1.50	58.33	52.50
ZPS122412	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	.28	.35	1.50	29.17	26.25
ZPS202412	20 X 24 X 12	19-3/8 X 23-3/8 X 11-1/2	500	.28	.35	1.50	47.40	42.66
ZPS24246	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	.24	.29	1.50	26.39	23.75
ZPS12246	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	.24	.29	1.50	13.20	11.88
ZPS20246	20 X 24 X 6	19-3/8 X 23-3/8 X 5-7/8	250	.24	.29	1.50	21.45	19.30
ZPS24244	24 X 24 X 4	23-3/8 X 23-3/8 X 3-3/4	250	.23	.28	1.50	38.91	35.10
ZPS12244	12 X 24 X 4	11-3/8 X 23-3/8 X 3-3/4	250	.23	.28	1.50	18.95	17.15
ZPS20244	20 X 24 X 4	19-3/8 X 23-3/8 X 3-3/4	250	.23	.28	1.50	32.29	29.06

Tolerances shall be +/- 1/16" for width and height. The frame depth shall not exceed 11-1/2", 5-7/8" and 3-3/4". Header thickness shall be 13/16". Performance values based on ASHRAE and in-house testing methods.

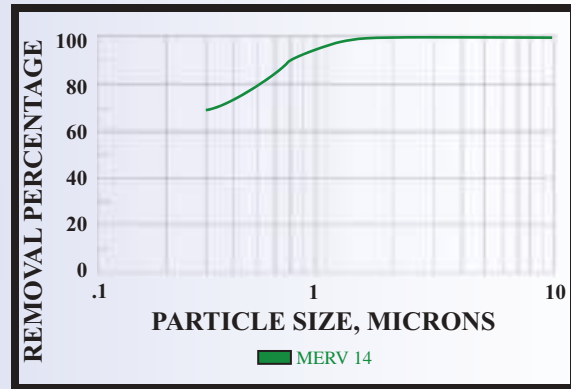
#### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 12" Nominal



#### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 12" Nominal



#### PART NUMBER CONFIGURATION

PREFIX



ZP

MEDIA



S = SYNTHETIC

FILTER SIZE



NUMERICAL SIZE OF FILTER  
i.e 242412

EFFICIENCY



95 = (MERV 14)

FRAME STYLE



B = BOX  
H = HEADER  
DH = DOUBLE HEADER

GASKET LOCATION



O = NO GASKET  
**BOX STYLE**  
A = AIR EXIT  
B = AIR ENTRY  
C = AIR ENTRY / EXIT  
D = SIDE LOAD  
**SINGLE HEADER**  
E = AIR ENTRY / EXIT  
F = AIR ENTRY  
H = AIR EXIT  
J = SIDE LOAD (2)  
S = SIDE LOAD (1)  
**DOUBLE HEADER**  
K = AIR ENTRY / EXIT  
M = AIR ENTRY  
P = AIR EXIT  
Q = SIDE LOAD

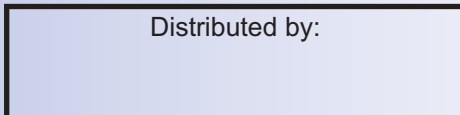
SUFFIX



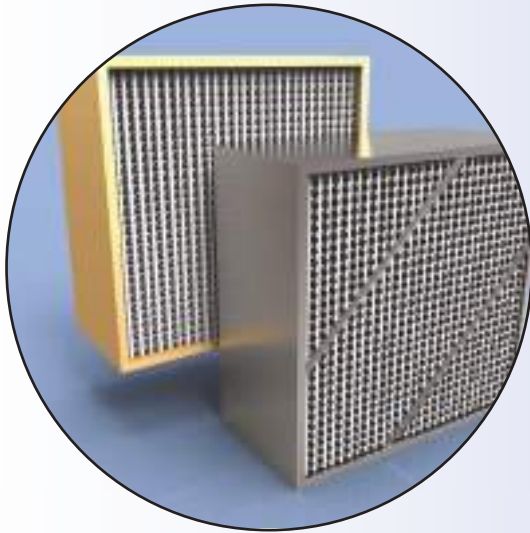
HC



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## [ MAGNA ]

600, 800 & 900 Series

- High Efficiency Glass Microfiber
- Heavy-Duty 3/4" Particleboard or Galvanized Metal Frames
- Sealed Media Pack
- Optional 1/4" Thick Gasketing
- High Capacity and High Temperature Filters Available

*Glasfloss Magna 600, 800 and 900 Series filters are designed to meet exact specifications in medium- to high-efficiency commercial or industrial applications. Performance efficiency ranges include 600 Series: MERV 11, 800 Series: MERV 13 and 900 Series: MERV 14. Glasfloss Magna filters are produced in a wide range of sizes, frame types and header combinations and are ideal for converting or upgrading existing systems. Glasfloss Magna Series filters are designed for use where a high degree of cleanliness is required and contaminants must be removed to protect life, products or building interiors. The filters are ideal in a variety of applications including hospitals, manufacturing plants, microelectronic component assembly, food processing, gas turbine, centrifugal compressor and high temperature processes.*

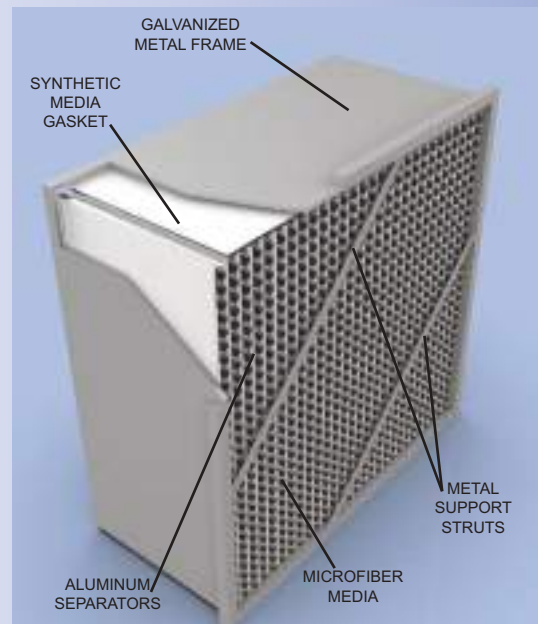
### FEATURES



The frame shall be made of a rigid high-density 3/4" particleboard or 26-gauge galvanized metal. The metal frame shall have two support struts on the air-entry and air-exit sides. A 26-gauge galvanized steel header is available on the metal frame. The media shall be constructed of a water-resistant inorganic glass microfiber. For quality assurance, the glass microfiber media rolls are randomly tested and certified to meet minimum efficiency requirements by the media manufacturer. The media pack shall consist of a continuous sheet of the pleated glass microfiber. The pleated media pack is separated with multiple rolled-edge corrugated aluminum separators. The media pack shall be pressure-fitted with a synthetic media gasket on metal frame filters. A 1/4" thick gasket shall be applied on the filter as an option. The filter shall be rated to withstand temperatures up to 180 degrees Fahrenheit. The particleboard filters and metal frame filters shall be Classified under U. L. Std. 900. The Magna Series shall have the following performance.



### SPECIFICATIONS



Series	600	800	900
Avg. Efficiency	60-65%	80-85%	90-95%
MERV	11	13	14

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**600 Series: MERV 11 & 800 Series: MERV 13**

BASE MODEL NUMBER		SIZE H x W x D NOMINAL	SIZE H x W x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		MEDIA SQUARE FEET	SIZE H x W x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS	
MERV 11	MERV 13				MERV 11	MERV 13				MERV 11	MERV 13
2016A1	2016A2	20 x 16 x 6	19-3/8 x 15-3/8 x 5-7/8	250	.20	.30	30.46	508 x 406 x 152	4575	49.7	74.6
2020A1	2020A2	20 x 20 x 6	19-3/8 x 19-3/8 x 5-7/8	250	.20	.30	38.67	508 x 508 x 152	4575	49.7	74.6
2412A1	2412A2	24 x 12 x 6	23-3/8 x 11-3/8 x 5-7/8	250	.20	.30	27.46	610 x 305 x 152	4575	49.7	74.6
2418A1	2418A2	24 x 18 x 6	23-3/8 x 17-3/8 x 5-7/8	250	.20	.30	41.85	610 x 457 x 152	4575	49.7	74.6
2420A1	2420A2	24 x 20 x 6	23-3/8 x 19-3/8 x 5-7/8	250	.20	.30	46.49	610 x 508 x 152	4575	49.7	74.6
2424A1	2424A2	24 x 24 x 6	23-3/8 x 23-3/8 x 5-7/8	250	.20	.30	55.46	610 x 610 x 152	4575	49.7	74.6
1625A1	1625A2	16 x 25 x 6	15-3/8 x 24-3/8 x 5-7/8	250	.20	.30	38.79	406 x 635 x 152	4575	49.7	74.6
2025A1	2025A2	20 x 25 x 6	19-3/8 x 24-3/8 x 5-7/8	250	.20	.30	48.19	508 x 635 x 152	4575	49.7	74.6
2016B1	2016B2	20 x 16 x 12	19-3/8 x 15-3/8 x 11-1/2	500	.50	.55	61.38	508 x 406 x 305	9150	124.4	136.8
2020B1	2020B2	20 x 20 x 12	19-3/8 x 19-3/8 x 11-1/2	500	.50	.55	76.24	508 x 508 x 305	9150	124.4	136.8
2412B1	2412B2	24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	500	.50	.55	55.82	610 x 305 x 305	9150	124.4	136.8
2418B1	2418B2	24 x 18 x 12	23-3/8 x 17-3/8 x 11-1/2	500	.50	.55	82.4	610 x 457 x 305	9150	124.4	136.8
2420B1	2420B2	24 x 20 x 12	23-3/8 x 19-3/8 x 11-1/2	500	.50	.55	91.22	610 x 508 x 305	9150	124.4	136.8
2424B1	2424B2	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	500	.50	.55	110.91	610 x 610 x 305	9150	124.4	136.8
1625B1	1625B2	16 x 25 x 12	15-3/8 x 24-3/8 x 11-1/2	500	.50	.55	76.95	406 x 635 x 305	9150	124.4	136.8
2025B1	2025B2	20 x 25 x 12	19-3/8 x 24-3/8 x 11-1/2	500	.50	.55	95.16	508 x 635 x 305	9150	124.4	136.8

**900 Series: MERV 14**

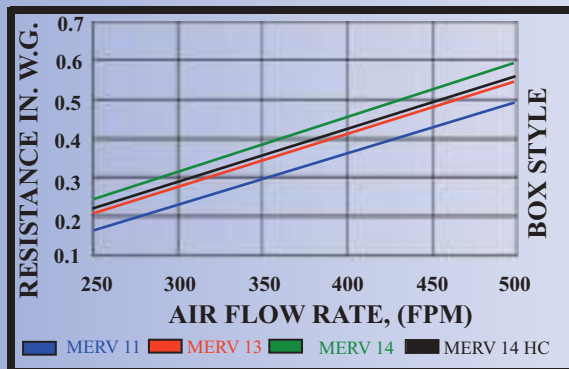
BASE MODEL NUMBER		SIZE H x W x D NOMINAL	SIZE H x W x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		MEDIA SQUARE FEET		SIZE H x W x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS	
					MERV 14	HC	MERV 14	HC			MERV 14	HC
2016A3		20 x 16 x 6	19-3/8 x 15-3/8 x 5-7/8	250	.35	-	30.46	-	508 x 406 x 152	4575	87.1	-
2020A3		20 x 20 x 6	19-3/8 x 19-3/8 x 5-7/8	250	.35	-	38.67	-	508 x 508 x 152	4575	87.1	-
2412A3		24 x 12 x 6	23-3/8 x 11-3/8 x 5-7/8	250	.35	-	27.46	-	610 x 305 x 152	4575	87.1	-
2418A3		24 x 18 x 6	23-3/8 x 17-3/8 x 5-7/8	250	.35	-	41.85	-	610 x 457 x 152	4575	87.1	-
2420A3		24 x 20 x 6	23-3/8 x 19-3/8 x 5-7/8	250	.35	-	46.49	-	610 x 508 x 152	4575	87.1	-
2424A3		24 x 24 x 6	23-3/8 x 23-3/8 x 5-7/8	250	.35	-	55.46	-	610 x 610 x 152	4575	87.1	-
1625A3		16 x 25 x 6	15-3/8 x 24-3/8 x 5-7/8	250	.35	-	38.79	-	406 x 635 x 152	4575	87.1	-
2025A3		20 x 25 x 6	19-3/8 x 24-3/8 x 5-7/8	250	.35	-	48.19	-	508 x 635 x 152	4575	87.1	-
2016B3		20 x 16 x 12	19-3/8 x 15-3/8 x 11-1/2	500	.60	.55	61.38	73.66	508 x 406 x 305	9150	149.3	136.8
2020B3		20 x 20 x 12	19-3/8 x 19-3/8 x 11-1/2	500	.60	.55	76.24	91.49	508 x 508 x 305	9150	149.3	136.8
2412B3		24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	500	.60	.55	55.82	66.98	610 x 305 x 305	9150	149.3	136.8
2418B3		24 x 18 x 12	23-3/8 x 17-3/8 x 11-1/2	500	.60	.55	82.4	98.88	610 x 457 x 305	9150	149.3	136.8
2420B3		24 x 20 x 12	23-3/8 x 19-3/8 x 11-1/2	500	.60	.55	91.22	109.46	610 x 508 x 305	9150	149.3	136.8
2424B3		24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	500	.60	.55	110.91	133.09	610 x 610 x 305	9150	149.3	136.8
1625B3		16 x 25 x 12	15-3/8 x 24-3/8 x 11-1/2	500	.60	.55	76.95	92.34	406 x 635 x 305	9150	149.3	136.8
2025B3		20 x 25 x 12	19-3/8 x 24-3/8 x 11-1/2	500	.60	.55	95.16	114.19	508 x 635 x 305	9150	149.3	136.8

Tolerances shall be +/- 1/16" for height and width. The frame depth shall not exceed 5-7/8" and 11-1/2". High Capacity MERV 14 Magna filters contains 20% more media.

Performance values based on ASHRAE and in-house testing methods. Recommended final resistance is 1.50" in. w.g.

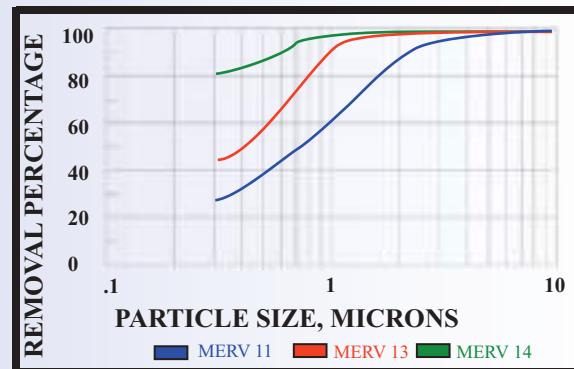
**STANDARD PRESSURE DROP**

Test Filter Size 24" x 24" x 12" Nominal



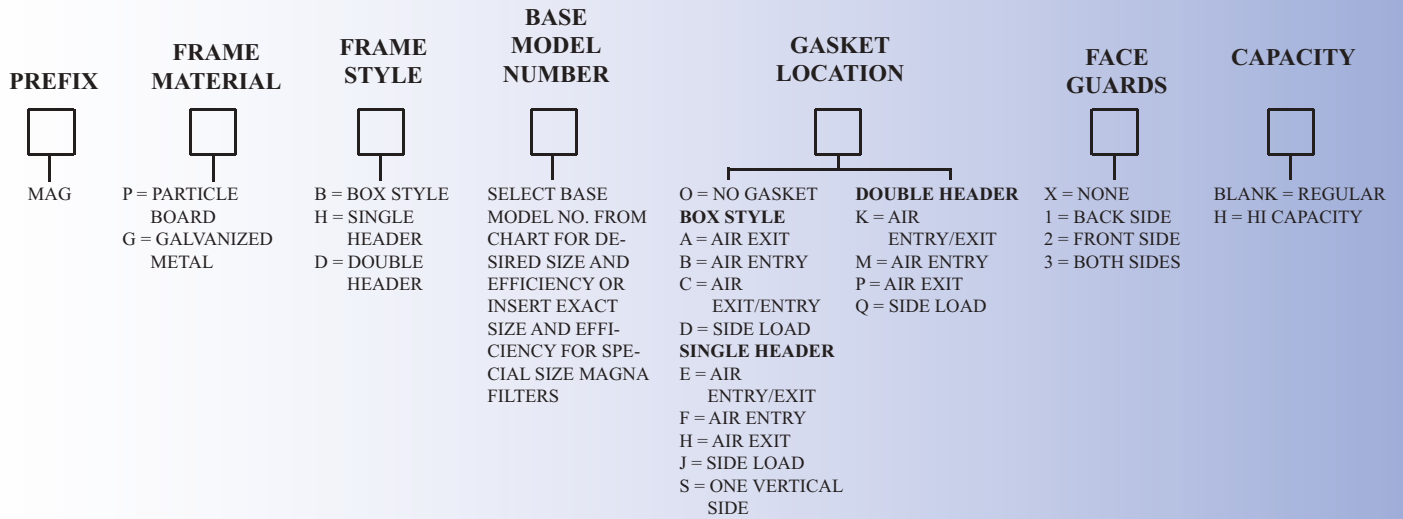
**MINIMUM PARTICLE SIZE EFFICIENCY**

Test Filter Size 24" x 24" x 12" Nominal

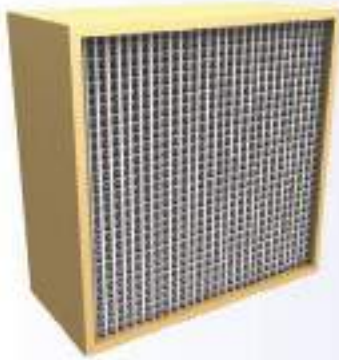


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## PART NUMBER CONFIGURATION



WOOD BOX



METAL SINGLE HEADER



METAL BOX



METAL DOUBLE HEADER



**Features:**

- Media produced from glass microfibers are moisture resistant and will not support microbial growth.
- Frame is available in either 3/4" particleboard or 26-gauge galvanized metal.
- Aluminum separators incorporate rolled edges that help prevent media chaffing and damage in handling.
- The filter cartridge is secured within the frame using a pressure-fit synthetic media gasket on metal frames and a two-part polyurethane sealant on particleboard frames to prevent air-bypass.
- Magna 600, 800 and 900 series are available in standard and special size face dimensions.

**Optional Features:**

- An expanded metal wire lathe face guard can be placed on air-entry and/or air-exit side of the filter.
- High-temperature, high-capacity and turbine-style filters are available.
- A 1/4" thick gasket may be applied on the filter.



**SPECIFICATIONS FOR MAGNA SERIES**

Series	600	800	900
Avg. Efficiency	60-65%	80-85%	90-95%
MERV	11	13	14

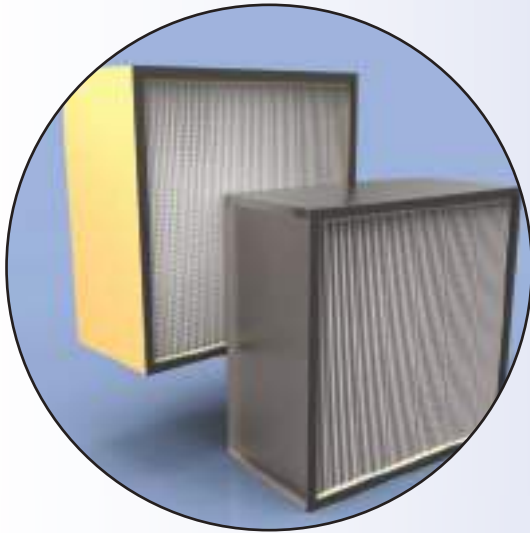
The filter element shall be factory-constructed by pleating a continuous sheet of glass microfiber media into uniform spaced pleats which are separated by rolled-edge corrugated aluminum. The filter pack shall be encased in a rigid frame of 3/4" particleboard or 26-gauge galvanized metal. The media pack shall be pressure-fitted with a synthetic media gasket on metal frame filters. The 26-gauge steel frames shall have two support struts on the air-entry and air-exit sides. The frame shall not exceed 5-7/8" or 11-1/2" in depth and standard tolerances shall be +/- 1/16" on height and width. Each filter shall be packaged into a heavy-duty carton. All filters shall be Classified under U. L. Std. 900.



Distributed by:







## MAGNA

950, 1000, 1100 & 1200 Series

- High Efficiency Glass Microfiber
- Heavy-Duty 3/4" Particleboard or Galvanized Metal Frames
- Two Part Polyurethane Sealant
- Standard Neoprene Gasketing
- High Capacity Filters Available

### FEATURES

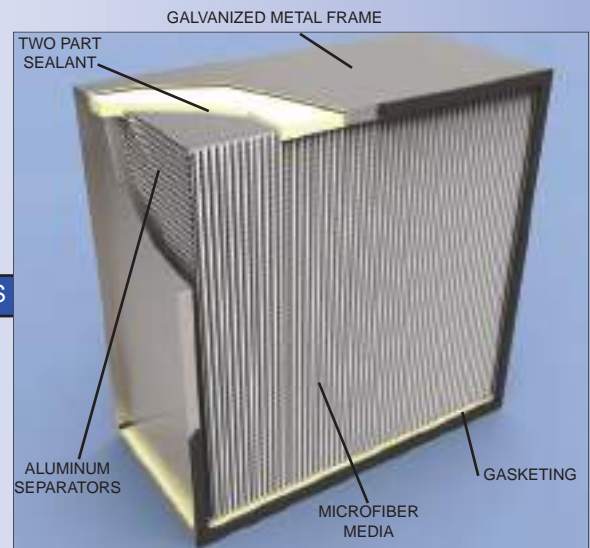


The Glasfloss Magna Series HEPA grade air filters are designed for high-efficiency commercial and industrial applications. Magna Series efficiency ranges include: 950 Series - 95% (MERV 16), 1000 Series - 99.97%, 1100 Series - 99.99% and 1200 Series - 99.999%, all based on a .30 micron particle. Glasfloss Magna filters are produced in a wide range of sizes, frame types and header combinations and are ideal for converting or upgrading existing systems. As an option, Glasfloss High-Capacity Magna filter models are also available for higher velocity applications and incorporate more media area for lower resistance.

The frame shall be made of a rigid high-density 3/4" particleboard or 18-gauge galvanized metal (26-gauge galvanized metal frame is used for the Magna 950 Series - 95% MERV 16). A 26-gauge galvanized steel header is available on the metal frame on 950 Series. The media shall be constructed of a water-resistant, inorganic glass microfiber. For quality assurance, the glass microfiber media rolls are randomly tested and certified to meet minimum efficiency requirements by the media manufacturer. The media pack shall consist of a continuous sheet of the pleated glass microfiber. The pleated media pack is separated with multiple rolled-edge corrugated aluminum separators. The media cartridge shall be sealed with a fire-retarding, rubber base, two-part sealant that bonds the media and separators to the interior of the frame. A 1/4" thick closed cell neoprene gasket shall be applied on the filter. The filter shall be rated to withstand temperatures at a continuous 180° Fahrenheit. The 95% (MERV 16), 99.97%, 99.99% and 99.999% Magna filters shall be Classified under U. L. Std. 900.



### SPECIFICATIONS










BASE MODEL NUMBER	SIZE H x W x D EXACT	RATED VELOCITY FPM			INITIAL RESIST. IN. W.G.			MEDIA SQUARE FEET			INITIAL RESIST. IN. W.G.			MEDIA SQUARE FEET		
		Std	HC	SHC	Std	HC	SHC	Std	HC	SHC	Std	HC	SHC	Std	HC	SHC
<b>950 Series - 95% (MERV 16)</b>																
<b>Box Style</b>																
0808A4	8 x 8 x 5-7/8	175	-	-	0.50	-	-	13.06	-	-	-	-	-	-	-	-
1212A4	12 x 12 x 5-7/8	175	-	-	0.50	-	-	29.75	-	-	-	-	-	-	-	-
2412A4	24 x 12 x 5-7/8	175	-	-	0.50	-	-	58.75	-	-	-	-	-	-	-	-
2418A4	24 x 18 x 5-7/8	175	-	-	0.50	-	-	88.13	-	-	-	-	-	-	-	-
2424A4	24 x 24 x 5-7/8	175	-	-	0.50	-	-	117.50	-	-	-	-	-	-	-	-
2430A4	24 x 30 x 5-7/8	175	-	-	0.50	-	-	146.88	-	-	-	-	-	-	-	-
2436A4	24 x 36 x 5-7/8	175	-	-	0.50	-	-	176.00	-	-	-	-	-	-	-	-
2448A4	24 x 48 x 5-7/8	175	-	-	0.50	-	-	235.00	-	-	-	-	-	-	-	-
1212B4	12 x 12 x 11-1/2	275	500	-	0.50	0.60	-	57.50	69.00	-	-	-	-	-	-	-
23F11FB4	23-3/8 x 11-3/8 x 11-1/2	275	500	-	0.50	0.60	-	106.17	127.40	-	-	-	-	-	-	-
2412B4	24 x 12 x 11-1/2	275	500	-	0.50	0.60	-	115.00	138.00	-	-	-	-	-	-	-
2418B4	24 x 18 x 11-1/2	275	500	-	0.50	0.60	-	172.50	207.00	-	-	-	-	-	-	-
23F23FB4	23-3/8 x 23-3/8 x 11-1/2	275	500	-	0.50	0.60	-	218.18	261.82	-	-	-	-	-	-	-
2424B4	24 x 24 x 11-1/2	275	500	-	0.50	0.60	-	230.00	276.00	-	-	-	-	-	-	-
2430B4	24 x 30 x 11-1/2	275	500	-	0.50	0.60	-	287.50	345.00	-	-	-	-	-	-	-
<b>1000 Series - 99.97%, 1100 Series - 99.99%</b>																
<b>Box Style</b>																
<b>Flush Box Style</b>																
0808A5	8 x 8 x 5-7/8	175	-	-	0.79	-	-	7.87	-	-	0.75	-	-	9.72	-	-
1212A5	12 x 12 x 5-7/8	175	-	-	0.79	-	-	20.93	-	-	0.75	-	-	23.92	-	-
1818A5	18 x 18 x 5-7/8	175	-	-	0.79	-	-	51.68	-	-	0.75	-	-	56.38	-	-
2412A5	24 x 12 x 5-7/8	175	-	-	0.79	-	-	70.47	-	-	0.75	-	-	75.17	-	-
2418A5	24 x 18 x 5-7/8	175	-	-	0.79	-	-	44.84	-	-	0.75	-	-	47.83	-	-
2424A5	24 x 24 x 5-7/8	175	-	-	0.79	-	-	96.09	-	-	0.75	-	-	102.50	-	-
2430A5	24 x 30 x 5-7/8	175	-	-	0.79	-	-	123.32	-	-	0.75	-	-	129.73	-	-
2436A5	24 x 36 x 5-7/8	175	-	-	0.79	-	-	148.95	-	-	0.75	-	-	155.35	-	-
2448A5	24 x 48 x 5-7/8	175	-	-	0.79	-	-	200.20	-	-	0.75	-	-	206.60	-	-
2460A5	24 x 60 x 5-7/8	175	-	-	0.79	-	-	253.05	-	-	0.75	-	-	397.83	-	-
*2472A5	24 x 72 x 5-7/8	175	-	-	0.79	-	-	304.30	-	-	0.75	-	-	476.41	-	-
1212B5	12 x 12 x 11-1/2	275	500	500	0.79	1.3	1.2	49.00	57.75	64.75	0.75	1.25	1.15	56.00	66.50	73.50
23F11FB5	23-3/8 x 11-3/8 x 11-1/2	275	500	500	0.79	1.3	1.2	97.87	116.12	129.39	0.75	1.25	1.15	104.51	122.76	137.68
2412B5	24 x 12 x 11-1/2	275	500	500	0.79	1.3	1.2	105.00	126.00	141.75	0.75	1.25	1.15	112.00	133.00	148.75
2418B5	24 x 18 x 11-1/2	275	500	500	0.79	1.3	1.2	157.50	189.00	212.63	0.75	1.25	1.15	168.00	199.50	223.13
23F23FB5	23-3/8 x 23-3/8 x 11-1/2	275	500	500	0.79	1.3	1.2	201.12	238.62	265.89	0.75	1.25	1.15	214.76	252.26	282.93
2424B5	24 x 24 x 11-1/2	275	500	500	0.79	1.3	1.2	210.00	252.00	283.50	0.75	1.25	1.15	224.00	266.00	297.50
2430B5	24 x 30 x 11-1/2	275	500	500	0.79	1.3	1.2	269.50	318.50	357.00	0.75	1.25	1.15	283.50	336.00	371.00

For 1100 Series - 99.99% replace 5 with 6 in the base part number.

<b>1200 Series - 99.999%</b>																
<b>Box Style</b>																
<b>Flush Box Style</b>																
1212B7	12 x 12 x 11-1/2	275	500	-	0.90	1.54	-	49.00	57.75	-	0.85	1.49	-	56.00	66.50	-
23F11FB7	23-3/8 x 11-3/8 x 11-1/2	275	500	-	0.90	1.54	-	97.87	116.12	-	0.85	1.49	-	104.51	122.76	-
2412B7	24 x 12 x 11-1/2	275	500	-	0.90	1.54	-	105.00	126.00	-	0.85	1.49	-	112.00	133.00	-
2418B7	24 x 18 x 11-1/2	275	500	-	0.90	1.54	-	157.50	189.00	-	0.85	1.49	-	168.00	199.50	-
23F23FB7	23-3/8 x 23-3/8 x 11-1/2	275	500	-	0.90	1.54	-	201.12	238.62	-	0.85	1.49	-	214.76	252.26	-
2424B7	24 x 24 x 11-1/2	275	500	-	0.90	1.54	-	210.00	252.00	-	0.85	1.49	-	224.00	266.00	-
2430B7	24 x 30 x 11-1/2	275	500	-	0.90	1.54	-	269.50	318.50	-	0.85	1.49	-	283.50	336.00	-

\*Available in particle board only. Tolerances shall be +/- 1/16" for height and width. The frame depth shall not exceed 5-7/8" and 11-1/2".  
Hi Capacity contains approx. 20% more media, Super High Capacity contains approx. 35% more media.

## PART NUMBER CONFIGURATION

PREFIX	FRAME MATERIAL	FRAME STYLE	BASE MODEL NUMBER	GASKET LOCATION	FACE GUARDS	CAPACITY
 MAG	 P = PARTICLE BOARD G = GALVANIZED METAL	 B = BOX STYLE H = SINGLE HEADER D = DOUBLE HEADER FX = FLUSH BOX	 SELECT BASE MODEL NO. FROM CHART FOR DESIRED SIZE AND EFFICIENCY OR INSERT EXACT SIZE AND EFFICIENCY FOR SPECIAL SIZE MAGNA FILTERS	 O = NO GASKET <b>BOX STYLE</b> A = AIR EXIT B = AIR ENTRY C = AIR EXIT/ENTRY D = SIDE LOAD <b>SINGLE HEADER</b> E = AIR ENTRY/EXIT F = AIR ENTRY H = AIR EXIT J = SIDE LOAD S = ONE VERTICAL SIDE <b>DOUBLE HEADER</b> K = AIR ENTRY / EXIT M = AIR ENTRY P = AIR EXIT Q = SIDE LOAD	 X = NONE 1 = BACK SIDE 2 = FRONT SIDE 3 = BOTH SIDES	 BLANK = REGULAR CAPACITY L = LOW CAPACITY H = HIGH CAPACITY S = SUPER HIGH CAPACITY.

**PARTICLE BOARD BOX**  
950 (MERV 16), 1000 and 1100 Series



Air Flow  
←  
Side View

**METAL SINGLE HEADER**  
950 Series (MERV 16)



Air Flow  
←  
Side View

**METAL FLUSH BOX - 1000, 1100 & 1200 Series**  
**METAL BOX - 950 Series (MERV 16)**



Air Flow  
←  
Side View

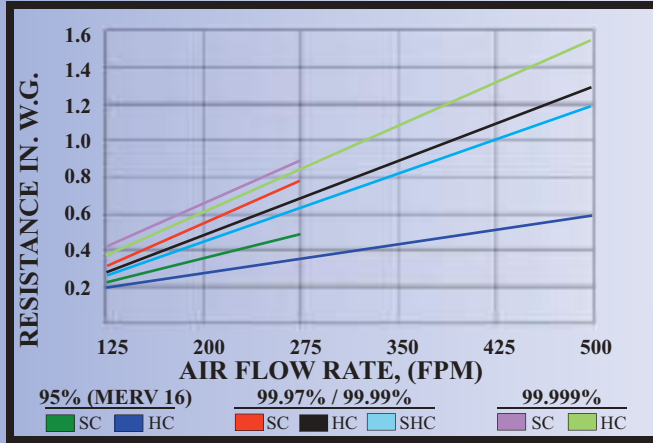
**METAL BOX**  
1000, 1100 & 1200 Series



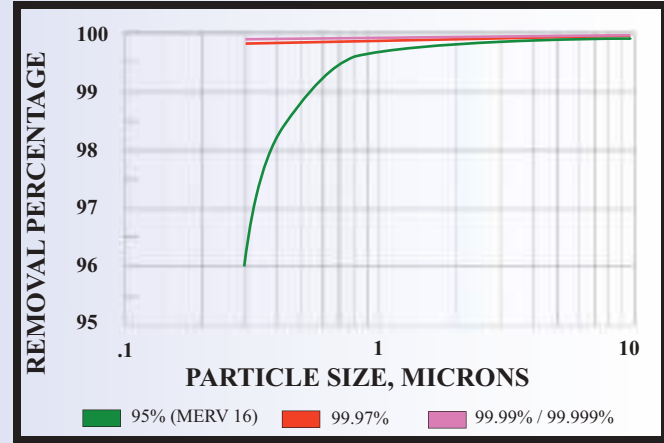
Air Flow  
←  
Side View

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## STANDARD PRESSURE DROP Test Filter Size 24" x 24" x 12" Nominal



## MINIMUM PARTICLE SIZE EFFICIENCY Test Filter Size 24" x 24" Nominal



### Features:

- Quality Assurance - the Magna 950 Series - 95% (MERV 16), 1000 Series - 99.97%, 1100 Series - 99.99% and 1200 Series - 99.999% filters incorporate glass microfiber media rolls that are randomly tested and certified to meet minimum efficiency requirements by the media manufacturer. In addition, Glasfloss randomly selects and tests filters for leaks under a rigorous quality control program.
- Media produced from glass microfibers is moisture-resistant and will not support microbial growth.
- Magna 99.99% and 99.999% filters are tested for leaks based on near-monodispersed .30 micron size particles.
- Frame is available in either 3/4" particleboard or 18 gauge galvanized metal for the 1000 Series - 99.97%, and 1100 Series - 99.99%. The 1200 Series - 99.999% is available in metal frame only. A 26-gauge galvanized metal frame is used for the Magna 950 Series - 95% (MERV 16).
- Aluminum separators incorporate rolled edges that help prevent media chaffing and damage in handling.
- The filter cartridge is bonded within the frame using a two-part sealant that isolates the filter from external shock and prevents air bypass.
- Neoprene closed-cell gasket is standard on each filter.

### Optional Features:

- Upon request, the Magna 950 Series - 95% (MERV 16), 1000 Series - 99.97% shall be individually tested for leaks based on near-monodispersed .30 micron size particles; additional charges apply.
- An expanded metal wire lath face guard can be placed on the air-entry and/or the air-exit side of the filter.
- High-capacity and turbine-style filters are available.



## SPECIFICATIONS FOR MAGNA SERIES

The filter element shall be factory-constructed by pleating a continuous sheet of glass microfiber media into uniform spaced pleats which are separated by rolled-edge corrugated aluminum. The efficiency shall be 95% (MERV 16), 99.97%, 99.99% or 99.999% based on a near-monodispersed .30 micron size particle. This filter pack shall be encased in a rigid frame of 3/4" particleboard or 18-gauge galvanized steel for the 1000 Series - 99.97%, 1100 Series - 99.99% and 1200 Series - 99.999% (metal frame only) efficiencies (26-gauge galvanized metal frame is used for the 950 Series - 95% MERV 16). The frame shall not exceed 5-7/8" or 11-1/2" in depth, and standard tolerances shall be +/- 1/16" on height and width. A closed-cell neoprene gasket shall be applied to the filter. Each filter shall be packaged into a heavy-duty carton. Filters shall be Classified under U. L. Std. 900.



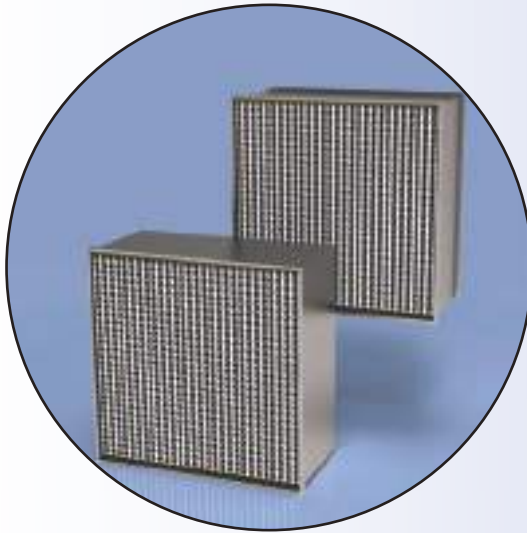
Glasfloss manufactures a variety of medium and high efficiency air filters which can be specified for LEED certification applications. For specific information on these products, please contact your local Glasfloss Sales Representative.



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## MAGNA GT Gas Turbine Series

- Heavy Duty Construction for Gas Turbine Applications
- Glass Microfiber Media Provides Excellent Moisture Resistance
- Extra Durability for Demanding HVAC Applications
- Standard and High Capacity Versions Available

Glasfloss Magna GT filters are designed to withstand the rigors of a gas turbine engine, centrifugal compressor and other high velocity applications. Heavy-duty face grills and additional media pack reinforcements ensure the integrity of the filters under the most demanding conditions. The RM series is suited for standard capacity applications; the XL series provides additional media for higher velocity applications. Glasfloss Magna GT filters are available in MERV 11 and MERV 14 efficiencies. Standard sizes are available in single or double header frame styles.

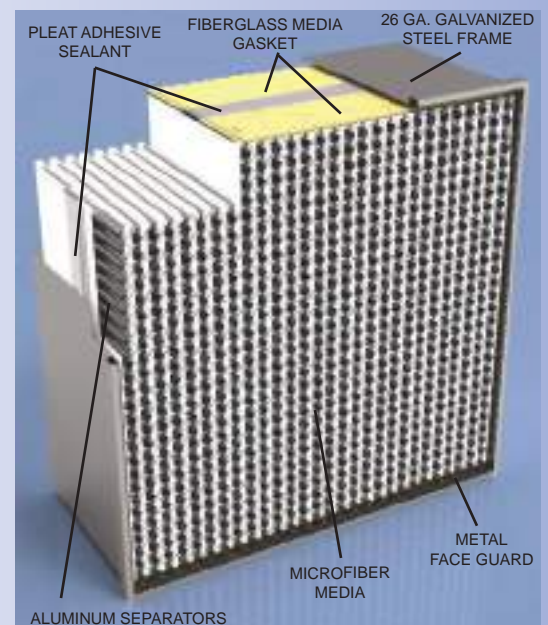
### FEATURES



The Glasfloss Magna GT frame shall be made of a 26 gauge galvanized metal. A 26 gauge galvanized steel header shall be used on the metal frame. The media shall be constructed of a water resistant, inorganic glass microfiber. For quality assurance, the glass microfiber media rolls are randomly tested and certified to meet minimum efficiency requirements by the media manufacturer. The media pack shall consist of a continuous sheet of the pleated glass microfiber. The pleated media pack is separated with multiple rolled edge corrugated aluminum separators. The media cartridge shall be sealed at the air entering, center and air leaving sides with a sealant that bonds the media and separators to the interior of the frame filter. A 1/4" neoprene thick gasket shall be applied on the filter. An expanded metal face guard is installed on the air entering and air leaving sides of the frame to insure filter integrity and increase rigidity. The expanded metal shall be galvanized to resist rust and corrosion. The filter shall be rated to withstand temperatures up to 180 degrees Fahrenheit. The filters shall be Classified under U.L. Std. 900 and withstand up to 11 in. w.g. in an "Air Filter Breaching Test." Magna GT Series shall have the following performance.



### SPECIFICATIONS



## [ MAGNA GT ] Gas Turbine Series

### 600 Series MERV 11

BASE MODEL NUMBER	SIZE H x W x D NOMINAL	SIZE H x W x D EXACT	RATED VELOCITY FPM		INITIAL RESIST. IN. W.G.		MEDIA SQUARE FEET		SIZE H x W x D NOMINAL MM	RATED VELOCITY M/H		INITIAL RESIST. PASCALS	
			RM	XL	RM	XL	RM	XL		RM	XL	RM	XL
2412A1	24 x 12 x 6	23-3/8 x 11-3/8 x 5-7/8	250	250	.30	.25	25.59	33.47	610 x 305 x 152	4575	4575	74.64	62.2
2424A1	24 x 24 x 6	23-3/8 x 23-3/8 x 5-7/8	250	250	.30	.25	52.89	69.17	610 x 610 x 152	4575	4575	74.64	62.2
2412B1	24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	500	500	.55	.50	51.19	66.94	610 x 305 x 305	9150	9150	136.84	124.4
2424B1	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	500	500	.55	.50	105.79	138.34	610 x 610 x 305	9150	9150	136.84	124.4

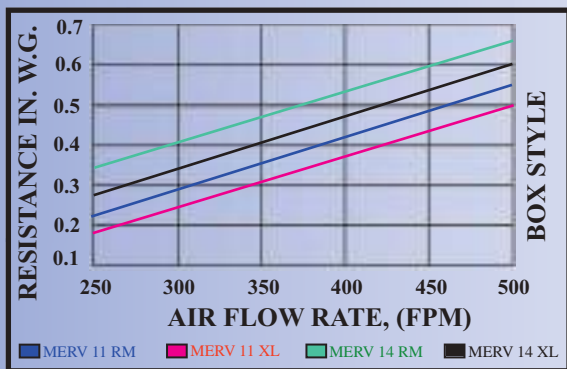
### 900 Series MERV 14

BASE MODEL NUMBER	SIZE H x W x D NOMINAL	SIZE H x W x D EXACT	RATED VELOCITY FPM		INITIAL RESIST. IN. W.G.		MEDIA SQUARE FEET		SIZE H x W x D NOMINAL MM	RATED VELOCITY M/H		INITIAL RESIST. PASCALS	
			RM	XL	RM	XL	RM	XL		RM	XL	RM	XL
2412A3	24 x 12 x 6	23-3/8 x 11-3/8 x 5-7/8	250	250	.40	.35	25.59	33.47	610 x 305 x 152	4575	4575	99.52	87.08
2424A3	24 x 24 x 6	23-3/8 x 23-3/8 x 5-7/8	250	250	.40	.35	52.89	69.17	610 x 610 x 152	4575	4575	99.52	87.08
2412B3	24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	500	500	.65	.60	51.19	66.94	610 x 305 x 305	9150	9150	161.72	149.28
2424B3	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	500	500	.65	.60	105.79	138.34	610 x 610 x 305	9150	9150	161.72	149.28

Tolerances shall be +/- 1/16" for height, width and depth. The frame depth shall not exceed 5-7/8" and 11-1/2". Performance values based on ASHRAE and in-house testing methods.

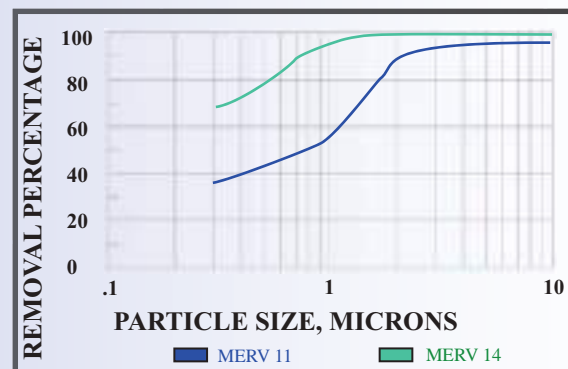
#### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 12" Nominal



#### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 12" Nominal



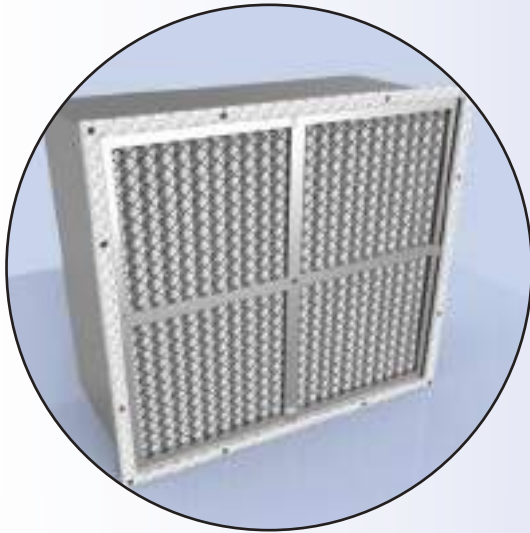
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## MAGNA HT

Magna High Temperature Series

- High Efficiency Glass Microfiber Media
- Rolled Edge Aluminum Separators
- \* Aluminized Metal Frame
- \* High Temperature Rope Gasket
- \* Aluminized Face Guard On Both Sides
- \* Support Straps Upstream And Downstream

### FEATURES

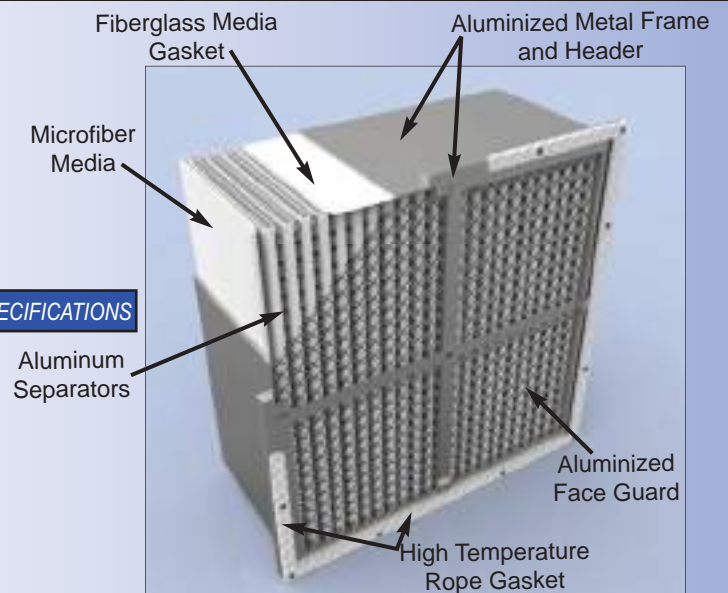


The GlasFloss Magna series HT grade air filters are designed for high efficiency commercial and industrial applications. The Glasfloss Magna HT filters are available in MERV 11, 13 and 14 performances. Glasfloss Magna HT filters are produced in a wide range of sizes, in single or double header combinations.

The Glasfloss Magna HT frame shall be made of heavy-duty aluminized steel. The media shall be constructed of water resistant, inorganic glass microfiber. For quality assurance, the glass microfiber media rolls are randomly tested and certified to meet minimum efficiency requirements by the media manufacturer. The media pack shall consist of a continuous sheet of pleated glass microfiber. The pleated media pack is separated with multiple rolled-edge corrugated aluminum separators. Aluminized faceguards and support struts are installed on the air entering and air leaving sides of the frame to ensure filter integrity and increased rigidity. Operating temperatures range from 350 to 900 degrees Fahrenheit. A 1/8" thick high temperature rope gasket shall be applied to the filter. The 350, 500, 750 and 900 Series Magna HT filters shall be classified under U.L. std 900.



### SPECIFICATIONS



BASE MODEL NUMBER			SIZE H x W x D NOMINAL	SIZE H x W x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.			MEDIA SQUARE FEET	SIZE H x W x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS		
MERV 11	MERV 13	MERV 14				MERV 11	MERV 13	MERV 14				MERV 11	MERV 13	MERV 14

### 350 Series

2412A1	2412A2	2412A3	24 x 12 x 6	23-3/8 x 11-3/8 x 5-7/8	250	.30	.32	.35	28.88	610 x 305 x 152	4575	74.6	79.6	87.1
2020A1	2020A2	2020A3	20 x 20 x 6	19-3/8 x 19-3/8 x 5-7/8	250	.30	.32	.35	40.10	508 x 508 x 152	4575	74.6	79.6	87.1
2024A1	2024A2	2024A3	20 x 24 x 6	20-3/8 x 23-3/8 x 5-7/8	250	.30	.32	.35	48.13	610 x 508 x 152	4575	74.6	79.6	87.1
2424A1	2424A2	2424A3	24 x 24 x 6	23-3/8 x 23-3/8 x 5-7/8	250	.30	.32	.35	57.75	610 x 610 x 152	4575	74.6	79.6	87.1
2412B1	2412B2	2412B3	24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	500	.55	.63	.68	57.75	610 x 305 x 305	9150	136.8	156.7	169.2
2020B1	2020B2	2020B3	20 x 20 x 12	19-3/8 x 19-3/8 x 11-1/2	500	.55	.63	.68	80.21	508 x 508 x 305	9150	136.8	156.7	169.2
2024B1	2024B2	2024B3	20 x 24 x 12	19-3/8 x 23-3/8 x 11-1/2	500	.55	.63	.68	96.25	610 x 508 x 305	9150	136.8	156.7	169.2
2424B1	2424B2	2424B3	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	500	.55	.63	.68	115.50	610 x 610 x 305	9150	136.8	156.7	169.2

### 500 Series

2412A1	2412A2	2412A3	24 x 12 x 6	23-3/8 x 11-3/8 x 5-7/8	250	.25	.28	.30	35.00	610 x 305 x 152	4575	62.2	69.6	74.6
2020A1	2020A2	2020A3	20 x 20 x 6	19-3/8 x 19-3/8 x 5-7/8	250	.25	.28	.30	48.61	508 x 508 x 152	4575	62.2	69.6	74.6
2024A1	2024A2	2024A3	20 x 24 x 6	20-3/8 x 23-3/8 x 5-7/8	250	.25	.28	.30	58.33	610 x 508 x 152	4575	62.2	69.6	74.6
2424A1	2424A2	2424A3	24 x 24 x 6	23-3/8 x 23-3/8 x 5-7/8	250	.25	.28	.30	70.00	610 x 610 x 152	4575	62.2	69.6	74.6
2412B1	2412B2	2412B3	24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	500	.45	.57	.62	70.00	610 x 305 x 305	9150	111.9	141.8	154.3
2020B1	2020B2	2020B3	20 x 20 x 12	19-3/8 x 19-3/8 x 11-1/2	500	.45	.57	.62	97.22	508 x 508 x 305	9150	111.9	141.8	154.3
2024B1	2024B2	2024B3	20 x 24 x 12	19-3/8 x 23-3/8 x 11-1/2	500	.45	.57	.62	116.67	610 x 508 x 305	9150	111.9	141.8	154.3
2424B1	2424B2	2424B3	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	500	.45	.57	.62	140.00	610 x 610 x 305	9150	111.9	141.8	154.3

### 750 Series

2412A1	2412A2	2412A3	24 x 12 x 6	23-3/8 x 11-3/8 x 5-7/8	250	.20	.23	.25	43.75	610 x 305 x 152	4575	49.7	57.2	62.2
2020A1	2020A2	2020A3	20 x 20 x 6	19-3/8 x 19-3/8 x 5-7/8	250	.20	.23	.25	60.76	508 x 508 x 152	4575	49.7	57.2	62.2
2024A1	2024A2	2024A3	20 x 24 x 6	20-3/8 x 23-3/8 x 5-7/8	250	.20	.23	.25	72.92	610 x 508 x 152	4575	49.7	57.2	62.2
2424A1	2424A2	2424A3	24 x 24 x 6	23-3/8 x 23-3/8 x 5-7/8	250	.20	.23	.25	87.50	610 x 610 x 152	4575	49.7	57.2	62.2
2412B1	2412B2	2412B3	24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	500	.40	.53	.58	87.50	610 x 305 x 305	9150	99.5	131.8	144.3
2020B1	2020B2	2020B3	20 x 20 x 12	19-3/8 x 19-3/8 x 11-1/2	500	.40	.53	.58	121.53	508 x 508 x 305	9150	99.5	131.8	144.3
2024B1	2024B2	2024B3	20 x 24 x 12	19-3/8 x 23-3/8 x 11-1/2	500	.40	.53	.58	145.83	610 x 508 x 305	9150	99.5	131.8	144.3
2424B1	2424B2	2424B3	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	500	.40	.53	.58	175.00	610 x 610 x 305	9150	99.5	131.8	144.3

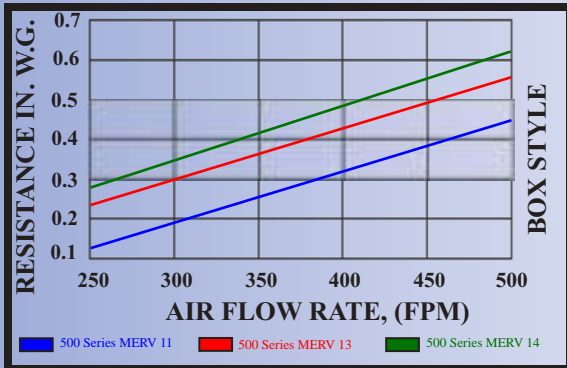
### 900 Series

2412A1	2412A2	2412A3	24 x 12 x 6	23-3/8 x 11-3/8 x 5-7/8	250	.18	.20	.22	52.50	610 x 305 x 152	4575	44.8	49.7	54.7
2020A1	2020A2	2020A3	20 x 20 x 6	19-3/8 x 19-3/8 x 5-7/8	250	.18	.20	.22	72.92	508 x 508 x 152	4575	44.8	49.7	54.7
2024A1	2024A2	2024A3	20 x 24 x 6	20-3/8 x 23-3/8 x 5-7/8	250	.18	.20	.22	87.50	610 x 508 x 152	4575	44.8	49.7	54.7
2424A1	2424A2	2424A3	24 x 24 x 6	23-3/8 x 23-3/8 x 5-7/8	250	.18	.20	.22	105.00	610 x 610 x 152	4575	44.8	49.7	54.7
2412B1	2412B2	2412B3	24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	500	.37	.52	.56	105.00	610 x 305 x 305	9150	92.1	129.3	139.3
2020B1	2020B2	2020B3	20 x 20 x 12	19-3/8 x 19-3/8 x 11-1/2	500	.37	.52	.56	145.83	508 x 508 x 305	9150	92.1	129.3	139.3
2024B1	2024B2	2024B3	20 x 24 x 12	19-3/8 x 23-3/8 x 11-1/2	500	.37	.52	.56	175.00	610 x 508 x 305	9150	92.1	129.3	139.3
2424B1	2424B2	2424B3	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	500	.37	.52	.56	210.00	610 x 610 x 305	9150	92.1	129.3	139.3

Tolerances shall be +/- 1/16" for height, width and depth. The frame depth shall not exceed 5-7/8" and 11-1/2". Performance values based on ASHRAE and in-house testing methods.

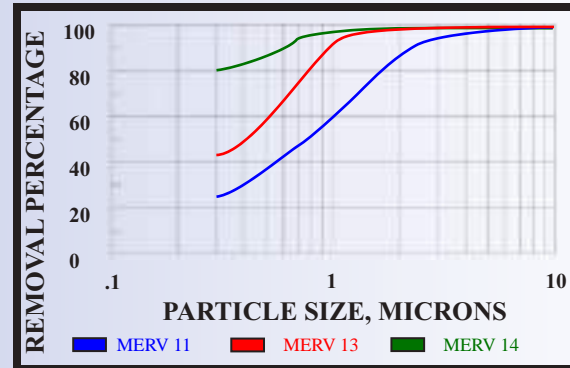
### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 12" Nominal



### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 12" Nominal



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## PURACELL II

Mini-Pleat Series

- Compact Design for Maximum Air Flow
- Four Efficiencies Available
- Standard and Special Sizes
- Media Will Not Support Microbial Growth

### FEATURES

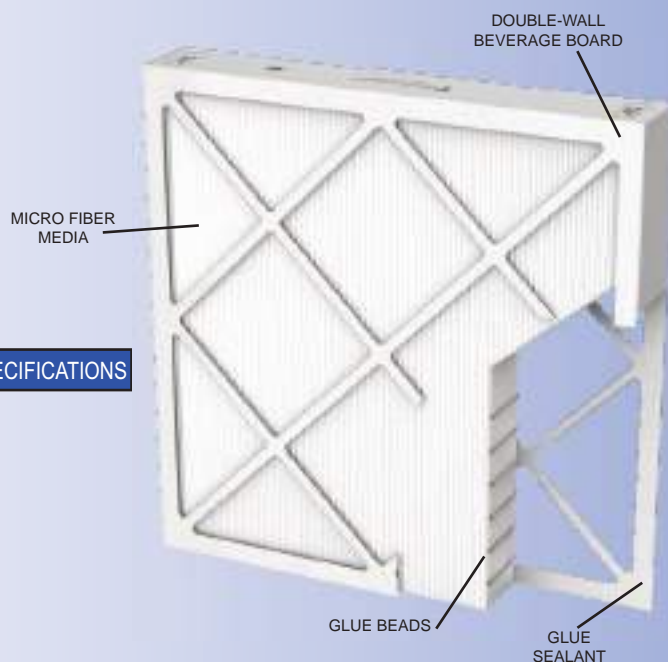


The Glasfloss Puracell II Mini-Pleat Series is designed for use in applications where a high degree of efficiency is required in a 4" filter. The Puracell II Series combines state-of-the-art mini-pleat construction techniques with superior reliability to offer maximum value for commercial and industrial applications. Additionally, the Puracell II offers unique advantages over the traditional 12" rigid box filter including lower freight costs, reduced storage area requirements and less impact on landfills. The Glasfloss Puracell II comes in a variety of sizes and efficiencies.

The Glasfloss Puracell II filter is a mini-pleat cartridge encapsulated between two heavy-duty beverage board die-cut frames. The die-cut frames are bonded together, creating a double-wall thickness around the perimeter of the filter. The Puracell II pack is pleated wet-laid micro fiber media. The pleats are separated and supported by a uniform glue bead that produces a low initial pressure drop while maximizing the filtration area. The media pack is resistant to moisture and does not support the growth of bacteria and mold. The media pack is thoroughly bonded to the interior of the die-cut frame. The filter shall be rated to withstand temperatures up to 180 degrees Fahrenheit. The recommended final resistance for Puracell II filters is 1.5" w.g.



### SPECIFICATIONS



### PURACELL II SERIES

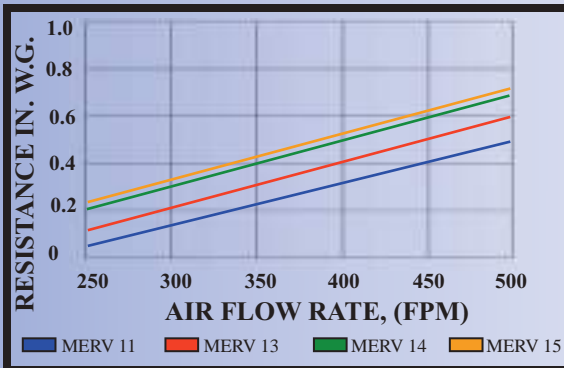
MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	FINAL RESIST. IN. W.G.	MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM
<b>MERV 15</b>							
PURII2424495	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.72	1.50	122.95	610 x 610 x 102
*PURII2025495	20 x 25 x 4	19-1/2" x 24-1/2" x 3-3/4"	500	.72	1.50	106.26	508 x 635 x 102
PURII2024495	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.72	1.50	101.90	508 x 610 x 102
PURII2020495	20 x 20 x 4	19-1/2" x 19-1/2" x 3-3/4"	500	.72	1.50	84.47	508 x 508 x 102
PURIII1824495	18 x 24 x 4	17-1/2" x 23-1/2" x 3-3/4"	500	.72	1.50	91.38	457 x 610 x 102
PURIII1625495	16 x 25 x 4	15-1/2" x 24-1/2" x 3-3/4"	500	.72	1.50	84.32	406 x 635 x 102
PURIII1620495	16 x 20 x 4	15-1/2" x 19-1/2" x 3-3/4"	500	.72	1.50	67.03	406 x 508 x 102
PURIII1224495	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.72	1.50	59.82	305 x 610 x 102
<b>MERV 14</b>							
PURII242449	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.68	1.50	122.95	610 x 610 x 102
*PURII202549	20 x 25 x 4	19-1/2" x 24-1/2" x 3-3/4"	500	.68	1.50	106.26	508 x 635 x 102
PURII202449	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.68	1.50	101.90	508 x 610 x 102
PURII202049	20 x 20 x 4	19-1/2" x 19-1/2" x 3-3/4"	500	.68	1.50	84.47	508 x 508 x 102
PURIII182449	18 x 24 x 4	17-1/2" x 23-1/2" x 3-3/4"	500	.68	1.50	91.38	457 x 610 x 102
PURIII162549	16 x 25 x 4	15-1/2" x 24-1/2" x 3-3/4"	500	.68	1.50	84.32	406 x 635 x 102
PURIII162049	16 x 20 x 4	15-1/2" x 19-1/2" x 3-3/4"	500	.68	1.50	67.03	406 x 508 x 102
PURIII122449	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.68	1.50	59.82	305 x 610 x 102
<b>MERV 13</b>							
PURII242448	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.60	1.50	118.10	610 x 610 x 102
*PURII202548	20 x 25 x 4	19-1/2" x 24-1/2" x 3-3/4"	500	.60	1.50	102.08	508 x 635 x 102
PURII202448	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.60	1.50	97.89	508 x 610 x 102
PURII202048	20 x 20 x 4	19-1/2" x 19-1/2" x 3-3/4"	500	.60	1.50	81.14	508 x 508 x 102
PURIII182448	18 x 24 x 4	17-1/2" x 23-1/2" x 3-3/4"	500	.60	1.50	87.78	457 x 610 x 102
PURIII162548	16 x 25 x 4	15-1/2" x 24-1/2" x 3-3/4"	500	.60	1.50	80.75	406 x 635 x 102
PURIII162048	16 x 20 x 4	15-1/2" x 19-1/2" x 3-3/4"	500	.60	1.50	64.39	406 x 508 x 102
PURIII122448	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.60	1.50	57.47	305 x 610 x 102
<b>MERV 11</b>							
PURII242446	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.48	1.50	118.10	610 x 610 x 102
*PURII202546	20 x 25 x 4	19-1/2" x 24-1/2" x 3-3/4"	500	.48	1.50	102.08	508 x 635 x 102
PURII202446	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.48	1.50	97.89	508 x 610 x 102
PURII202046	20 x 20 x 4	19-1/2" x 19-1/2" x 3-3/4"	500	.48	1.50	81.14	508 x 508 x 102
PURIII182446	18 x 24 x 4	17-1/2" x 23-1/2" x 3-3/4"	500	.48	1.50	87.78	457 x 610 x 102
PURIII162546	16 x 25 x 4	15-1/2" x 24-1/2" x 3-3/4"	500	.48	1.50	80.75	406 x 635 x 102
PURIII162046	16 x 20 x 4	15-1/2" x 19-1/2" x 3-3/4"	500	.48	1.50	64.39	406 x 508 x 102
PURIII122446	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.48	1.50	57.47	305 x 610 x 102

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Performance values based on ASHRAE and in-house testing methods.

\*Model Number Size Configuration may be produced as 20x25 or 25x20.

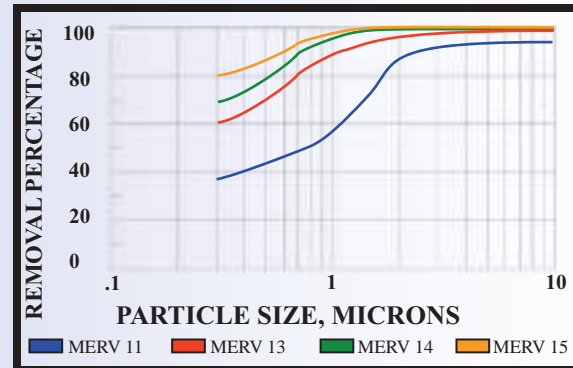
#### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 4" Nominal



#### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 4" Nominal



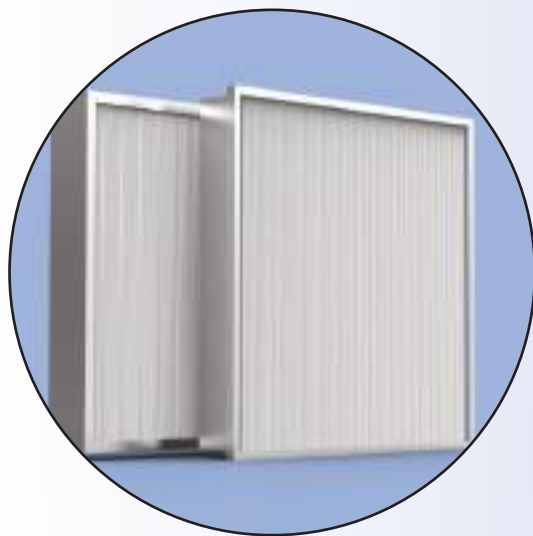
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# [ PURACELL II M & MH ]

Mini-Pleat Series

- Compact Design for Maximum Air Flow
- Four Efficiencies Available
- Standard and Special Sizes
- Media Will Not Support Microbial Growth

**FEATURES** >

The Glasfloss Puracell II M & MH Mini-Pleat Series is designed for use in applications where a high degree of efficiency is required in a 4" filter. The Puracell II M & MH Series combines state-of-the-art mini-pleat construction techniques with superior reliability to offer maximum value for commercial and industrial applications. Additionally, the Puracell II M & MH offers unique advantages over the traditional 12" rigid box filter including lower freight costs, reduced storage area requirements and less impact on landfills. The Glasfloss Puracell II M & MH comes in a variety of sizes and efficiencies.

GALVANIZED METAL FRAME

The Glasfloss Puracell II M & MH filter is a mini-pleat cartridge encapsulated with a heavy-duty 26 gauge galvanized metal frame. An optional gasket can be applied to the filter frame. The galvanized metal frame is riveted together to form a rigid frame. The Puracell II M & MH pack is pleated, wet-laid micro fiber media. The pleats are separated and supported by a uniform glue bead that produces a low initial pressure drop while maximizing the filtration area. The media pack is resistant to moisture and does not support the growth of bacteria and mold. The media pack is thoroughly sealed to the inside of the metal frame to prevent air bypass. A metal face guard shall be secured on the air leaving side. The filter shall be rated to withstand temperatures up to 180 degrees Fahrenheit. The recommended final resistance for Puracell II M & MH filters is 1.5" w.g.

< **SPECIFICATIONS**

MICRO FIBER MEDIA

METAL FACE GUARD

GLUE BEADS



## PURACELL II M & MH SERIES

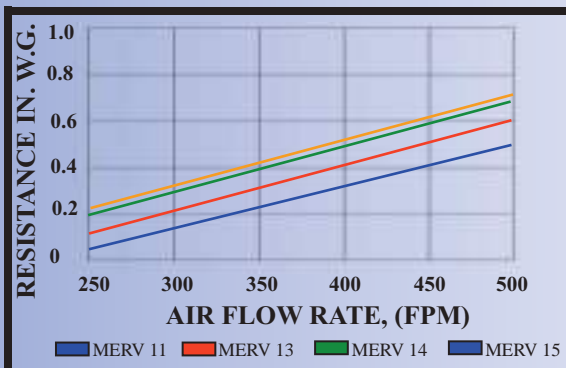
BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		FINAL RESIST. IN. W.G.	MEDIA SQUARE FEET		SIZE W x H x D NOMINAL MM
				M	MH		M	MH	
<b>MERV 15</b>									
242449	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.68	.71	1.50	122.96	102.12	610 x 610 x 102
*202549	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	.68	.71	1.50	105.37	86.00	508 x 635 x 102
202449	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.68	.71	1.50	101.05	82.14	508 x 610 x 102
202049	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	.68	.71	1.50	83.76	66.73	508 x 508 x 102
182449	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	.68	.71	1.50	91.31	68.38	457 x 610 x 102
162549	16 x 25 x 4	15-3/8" x 24-3/8" x 3-3/4"	500	.68	.71	1.50	83.79	61.82	406 x 635 x 102
162049	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	.68	.71	1.50	66.60	47.97	406 x 508 x 102
122449	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.68	.71	1.50	59.65	44.40	305 x 610 x 102
<b>MERV 14</b>									
242443	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.68	.71	1.50	122.96	102.12	610 x 610 x 102
*202543	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	.68	.71	1.50	105.37	86.00	508 x 635 x 102
202443	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.68	.71	1.50	101.05	82.14	508 x 610 x 102
202043	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	.68	.71	1.50	83.76	66.73	508 x 508 x 102
182443	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	.68	.71	1.50	91.31	68.38	457 x 610 x 102
162543	16 x 25 x 4	15-3/8" x 24-3/8" x 3-3/4"	500	.68	.71	1.50	83.79	61.82	406 x 635 x 102
162043	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	.68	.71	1.50	66.60	47.97	406 x 508 x 102
122443	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.68	.71	1.50	59.65	44.40	305 x 610 x 102
<b>MERV 13</b>									
242442	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.60	.63	1.50	118.09	97.68	610 x 610 x 102
*202542	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	.60	.63	1.50	101.56	83.67	508 x 635 x 102
202442	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.60	.63	1.50	97.40	79.92	508 x 610 x 102
202042	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	.60	.63	1.50	80.73	64.92	508 x 508 x 102
182442	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	.60	.63	1.50	87.66	66.31	457 x 610 x 102
162542	16 x 25 x 4	15-3/8" x 24-3/8" x 3-3/4"	500	.60	.63	1.50	81.25	59.65	406 x 635 x 102
162042	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	.60	.63	1.50	64.58	46.29	406 x 508 x 102
122442	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.60	.63	1.50	57.22	43.29	305 x 610 x 102
<b>MERV 11</b>									
242441	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.48	.51	1.50	118.09	97.68	610 x 610 x 102
*202541	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	.48	.51	1.50	101.56	83.67	508 x 635 x 102
202441	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.48	.51	1.50	97.40	79.92	508 x 610 x 102
202041	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	.48	.51	1.50	80.73	64.92	508 x 508 x 102
182441	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	.48	.51	1.50	87.66	66.31	457 x 610 x 102
162541	16 x 25 x 4	15-3/8" x 24-3/8" x 3-3/4"	500	.48	.51	1.50	81.25	59.65	406 x 635 x 102
162041	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	.48	.51	1.50	64.58	46.29	406 x 508 x 102
122441	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.48	.51	1.50	57.22	43.29	305 x 610 x 102

Tolerances shall be +/- 1/16" for width and height. Performance values based on ASHRAE and in-house testing methods.

\*Model Number Size Configuration may be produced as 20x25 or 25x20.

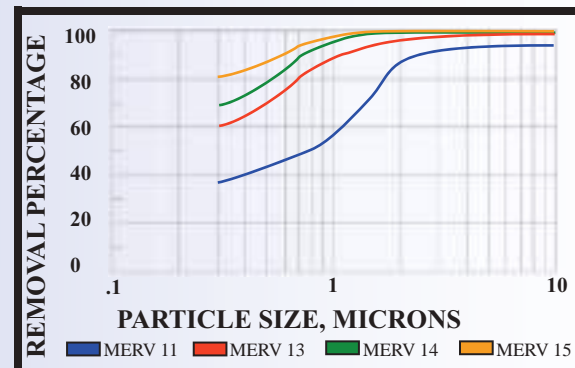
### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 4" Nominal Box

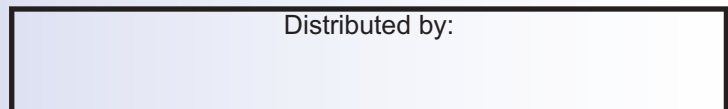


### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 4" Nominal



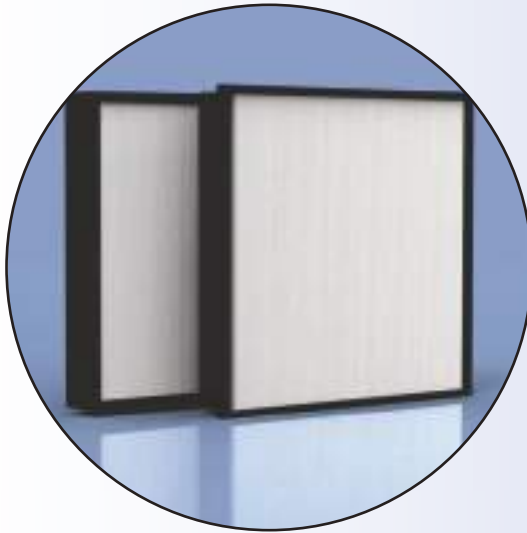
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## PURACELL II P & PH

Mini-Pleat Series

- Compact Design for Maximum Air Flow
- Lightweight High-Impact Polystyrene Plastic Frame Construction
- Box and Header Style Frames
- MERV 11, 13, 14 and 15
- Media Will Not Support Microbial Growth

### FEATURES



The Glasfloss Puracell II P & PH 4" Plastic Frame Mini-Pleat Series is designed for use in applications where a high degree of efficiency is required in a 4" deep filter. The Puracell II P & PH Series combines state-of-the-art mini-pleat construction techniques with superior reliability to offer maximum value for commercial and industrial applications. Additionally, the Puracell II P & PH Series offers unique advantages over the traditional 12" rigid box filter including lower freight costs, reduced storage area requirements and less impact on landfills. The Glasfloss Puracell II P & PH comes in a variety of standard sizes and efficiencies.

The Glasfloss Puracell II P & PH filter is a mini-pleat cartridge encapsulated with a high-impact polystyrene plastic frame. An optional gasket can be applied to the filter frame. The Puracell II P & PH pack is pleated, wet laid micro fiber media. The pleats are separated and supported by a uniform glue bead that produces a low initial pressure drop while maximizing the filtration area. The media pack is resistant to moisture and does not support the growth of bacteria and mold. The media pack is thoroughly sealed to the inside of the plastic frame to prevent air bypass. The filter shall be rated to withstand temperatures up to 180 degrees Fahrenheit. The recommended final resistance for Puracell II P & PH filters is 1.5" w.g.

POLYSTYRENE  
PLASTIC FRAME

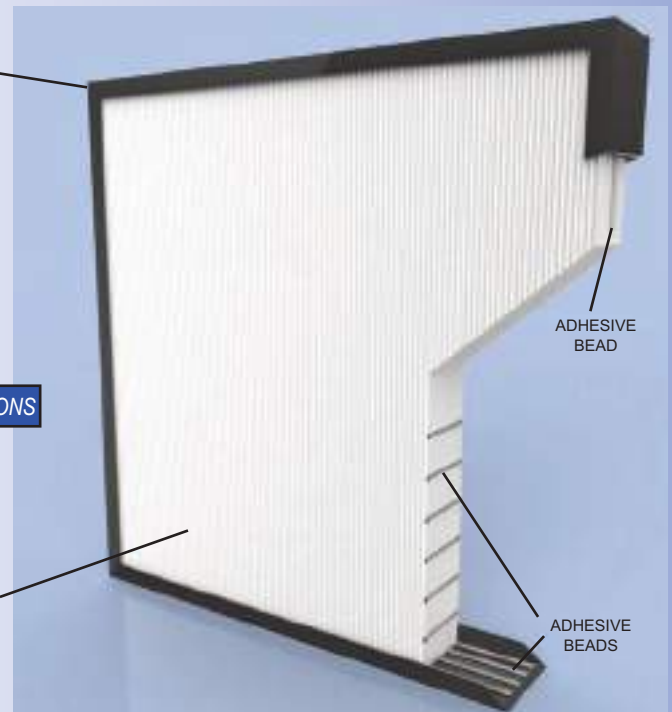


### SPECIFICATIONS

MICRO FIBER  
MEDIA

ADHESIVE  
BEAD

ADHESIVE  
BEADS



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PRODUCT BULLETIN 11PURP&PH • SECTION 11 • 11-20-2022

### PURACELL II P & PH SERIES

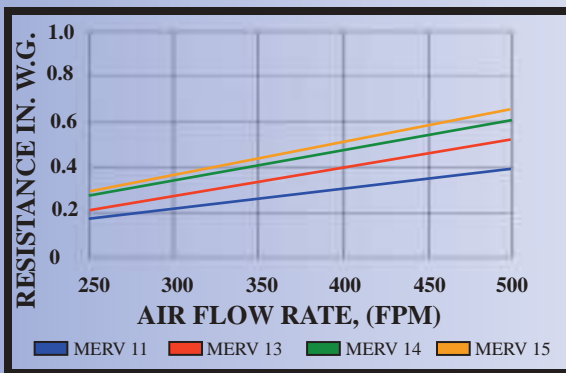
BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		FINAL RESIST. IN. W.G.	MEDIA SQUARE FEET		SIZE W x H x D NOMINAL MM
				P	PH		P	PH	
<b>MERV 15</b>									
242449	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.66	.77	1.50	122.96	102.12	610 x 610 x 102
*202549	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	.66	.77	1.50	105.37	86.00	508 x 635 x 102
202449	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.66	.77	1.50	101.05	82.14	508 x 610 x 102
202049	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	.66	.77	1.50	83.76	66.73	508 x 508 x 102
182449	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	.66	.77	1.50	91.31	68.38	457 x 610 x 102
162549	16 x 25 x 4	15-3/8" x 24-3/8" x 3-3/4"	500	.66	.77	1.50	83.79	61.82	406 x 635 x 102
162049	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	.66	.77	1.50	66.60	47.97	406 x 508 x 102
122449	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.66	.77	1.50	59.65	44.40	305 x 610 x 102
<b>MERV 14</b>									
242443	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.61	.72	1.50	122.96	102.12	610 x 610 x 102
*202543	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	.61	.72	1.50	105.37	86.00	508 x 635 x 102
202443	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.61	.72	1.50	101.05	82.14	508 x 610 x 102
202043	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	.61	.72	1.50	83.76	66.73	508 x 508 x 102
182443	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	.61	.72	1.50	91.31	68.38	457 x 610 x 102
162543	16 x 25 x 4	15-3/8" x 24-3/8" x 3-3/4"	500	.61	.72	1.50	83.79	61.82	406 x 635 x 102
162043	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	.61	.72	1.50	66.60	47.97	406 x 508 x 102
122443	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.61	.72	1.50	59.65	44.40	305 x 610 x 102
<b>MERV 13</b>									
242442	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.53	.64	1.50	118.09	97.68	610 x 610 x 102
*202542	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	.53	.64	1.50	101.56	83.67	508 x 635 x 102
202442	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.53	.64	1.50	97.40	79.92	508 x 610 x 102
202042	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	.53	.64	1.50	80.73	64.92	508 x 508 x 102
182442	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	.53	.64	1.50	87.66	66.31	457 x 610 x 102
162542	16 x 25 x 4	15-3/8" x 24-3/8" x 3-3/4"	500	.53	.64	1.50	81.25	59.65	406 x 635 x 102
162042	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	.53	.64	1.50	64.58	46.29	406 x 508 x 102
122442	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.53	.64	1.50	57.22	43.29	305 x 610 x 102
<b>MERV 11</b>									
242441	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.40	.52	1.50	118.09	97.68	610 x 610 x 102
*202541	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	.40	.52	1.50	101.56	83.67	508 x 635 x 102
202441	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.40	.52	1.50	97.40	79.92	508 x 610 x 102
202041	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	.40	.52	1.50	80.73	64.92	508 x 508 x 102
182441	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	.40	.52	1.50	87.66	66.31	457 x 610 x 102
162541	16 x 25 x 4	15-3/8" x 24-3/8" x 3-3/4"	500	.40	.52	1.50	81.25	59.65	406 x 635 x 102
162041	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	.40	.52	1.50	64.58	46.29	406 x 508 x 102
122441	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.40	.52	1.50	57.22	43.29	305 x 610 x 102

Tolerances shall be +/- 1/16" for width and height. Performance values based on ASHRAE and in-house testing methods.

\*Model Number Size Configuration may be produced as 20x25 or 25x20.

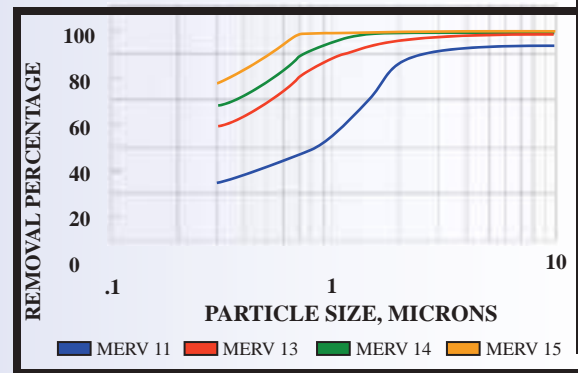
#### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 4" Nominal Box



#### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 4" Nominal



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## PURACELL II-S

Mini-Pleat Synthetic Media Series

- 100% Synthetic Media
- Compact Design for Maximum Air Flow
- Standard and Special Sizes
- MERV 11, 13 and 15
- Media Will Not Support Microbial Growth

### FEATURES

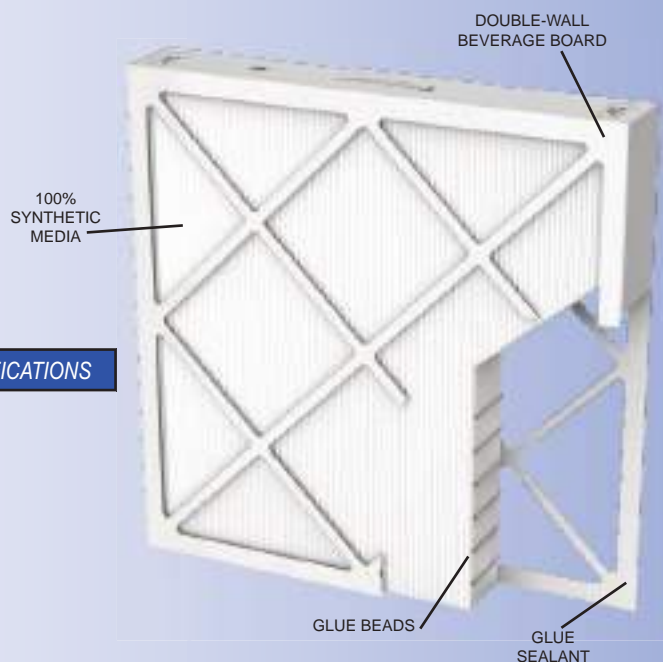


The Glasfloss Puracell II-S Synthetic Mini-Pleat Series filters are designed for use in applications where a high degree of efficiency is required in a 4" filter. The Puracell II-S Series combines state-of-the-art mini-pleat construction techniques with superior reliability to offer maximum value for commercial and industrial applications. Additionally, the Puracell II-S offers unique advantages over the traditional 12" rigid box filter including lower freight costs, reduced storage area requirements and less impact on landfills. The Glasfloss Puracell II-S comes in a variety of sizes and performances.

The Glasfloss Puracell II-S filter is a mini-pleat cartridge encapsulated between two heavy-duty beverage board die-cut frames. The die-cut frames are bonded together, creating a double-wall thickness around the perimeter of the filter. The Puracell II-S pack is a pleated 100% synthetic fiber media. The pleats are separated and supported by a uniform glue bead that produces a low initial pressure drop while maximizing the filtration area. The media pack is resistant to moisture and does not support the growth of bacteria and mold. The media pack is thoroughly bonded to the interior of the die-cut frame. The filter shall be rated to withstand temperatures up to 180 degrees Fahrenheit. The recommended final resistance for Puracell II-S filters is 1.5" w.g.



### SPECIFICATIONS

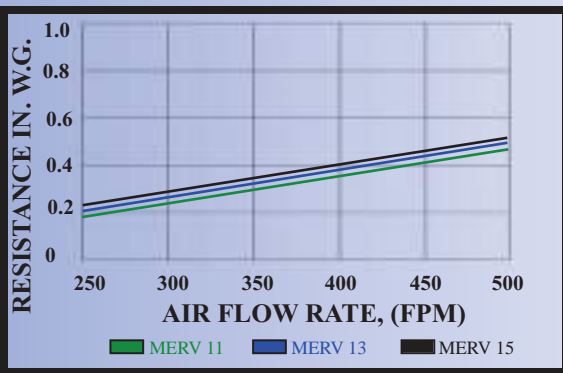


**PURACELL II-S SYNTHETIC MEDIA SERIES**

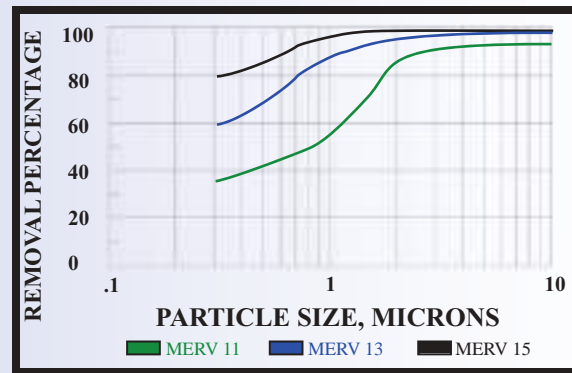
MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	FINAL RESIST. IN. W.G.	MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM
<b>MERV 15</b>							
PURIIIS2424495	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.48	1.50	84.28	610 x 610 x 102
PURIIIS2025495	20 x 25 x 4	19-1/2" x 24-1/2" x 3-3/4"	500	.48	1.50	74.14	508 x 635 x 102
PURIIIS2024495	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.48	1.50	70.23	508 x 610 x 102
PURIIIS2020495	20 x 20 x 4	19-1/2" x 19-1/2" x 3-3/4"	500	.48	1.50	58.53	508 x 508 x 102
PURIIIS1824495	18 x 24 x 4	17-1/2" x 23-1/2" x 3-3/4"	500	.48	1.50	62.98	457 x 610 x 102
PURIIIS1625495	16 x 25 x 4	15-1/2" x 24-1/2" x 3-3/4"	500	.48	1.50	58.83	406 x 635 x 102
PURIIIS1620495	16 x 20 x 4	15-1/2" x 19-1/2" x 3-3/4"	500	.48	1.50	46.45	406 x 508 x 102
PURIIIS1224495	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.48	1.50	40.97	305 x 610 x 102
<b>MERV 13</b>							
PURIIIS242448	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.46	1.50	84.28	610 x 610 x 102
PURIIIS202548	20 x 25 x 4	19-1/2" x 24-1/2" x 3-3/4"	500	.46	1.50	74.14	508 x 635 x 102
PURIIIS202448	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.46	1.50	70.23	508 x 610 x 102
PURIIIS202048	20 x 20 x 4	19-1/2" x 19-1/2" x 3-3/4"	500	.46	1.50	58.53	508 x 508 x 102
PURIIIS182448	18 x 24 x 4	17-1/2" x 23-1/2" x 3-3/4"	500	.46	1.50	62.98	457 x 610 x 102
PURIIIS162548	16 x 25 x 4	15-1/2" x 24-1/2" x 3-3/4"	500	.46	1.50	58.83	406 x 635 x 102
PURIIIS162048	16 x 20 x 4	15-1/2" x 19-1/2" x 3-3/4"	500	.46	1.50	46.45	406 x 508 x 102
PURIIIS122448	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.46	1.50	40.97	305 x 610 x 102
<b>MERV 11</b>							
PURIIIS242446	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.44	1.50	84.28	610 x 610 x 102
PURIIIS202546	20 x 25 x 4	19-1/2" x 24-1/2" x 3-3/4"	500	.44	1.50	74.14	508 x 635 x 102
PURIIIS202446	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.44	1.50	70.23	508 x 610 x 102
PURIIIS202046	20 x 20 x 4	19-1/2" x 19-1/2" x 3-3/4"	500	.44	1.50	58.53	508 x 508 x 102
PURIIIS182446	18 x 24 x 4	17-1/2" x 23-1/2" x 3-3/4"	500	.44	1.50	62.98	457 x 610 x 102
PURIIIS162546	16 x 25 x 4	15-1/2" x 24-1/2" x 3-3/4"	500	.44	1.50	58.83	406 x 635 x 102
PURIIIS162046	16 x 20 x 4	15-1/2" x 19-1/2" x 3-3/4"	500	.44	1.50	46.45	406 x 508 x 102
PURIIIS122446	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.44	1.50	40.97	305 x 610 x 102

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Performance values based on ASHRAE and in-house testing methods.

**STANDARD PRESSURE DROP**  
Test Filter Size 24" x 24" x 4" Nominal



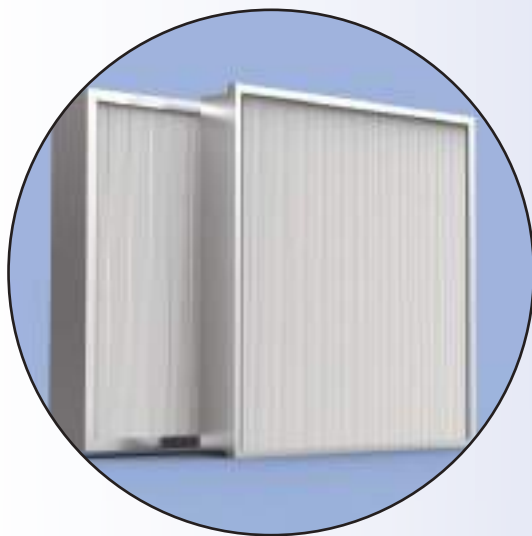
**MINIMUM PARTICLE SIZE EFFICIENCY**  
Test Filter Size 24" x 24" x 4" Nominal



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## PURACELL II M-S & MH-S

Mini-Pleat Synthetic Media Series

- 100% Synthetic Media
- Compact Design for Maximum Air Flow
- Standard and Special Sizes
- MERV 11, 13 and 15
- Media Will Not Support Microbial Growth

### FEATURES



The Glasfloss Puracell II M-S & MH-S Mini-Pleat Series filters are designed for use in applications where a high degree of efficiency is required in a 4" filter. The Puracell II M-S & MH-S Series combines state-of-the-art mini-pleat construction techniques with superior reliability to offer maximum value for commercial and industrial applications. Additionally, the Puracell II M-S & MH-S filters offer unique advantages over the traditional 12" rigid box filter including lower freight costs, reduced storage area requirements and less impact on landfills. The Glasfloss Puracell II M-S & MH-S filters come in a variety of sizes and performances.

The Glasfloss Puracell II M-S & MH-S filter is a mini-pleat cartridge encapsulated with a heavy-duty 26 gauge galvanized metal frame. An optional gasket can be applied to the filter frame. The galvanized metal frame is riveted together to form a rigid frame. The Puracell II M-S & MH-S pack is a pleated 100% synthetic fiber media. The pleats are separated and supported by a uniform glue bead that produces a low initial pressure drop while maximizing the filtration area. The media pack is resistant to moisture and does not support the growth of bacteria and mold. The media pack is thoroughly sealed to the inside of the metal frame to prevent air bypass. A metal face guard shall be secured on the air leaving side. The filter shall be rated to withstand temperatures up to 180 degrees Fahrenheit. The recommended final resistance for Puracell II M-S & MH-S filters is 1.5" w.g.

GALVANIZED METAL FRAME

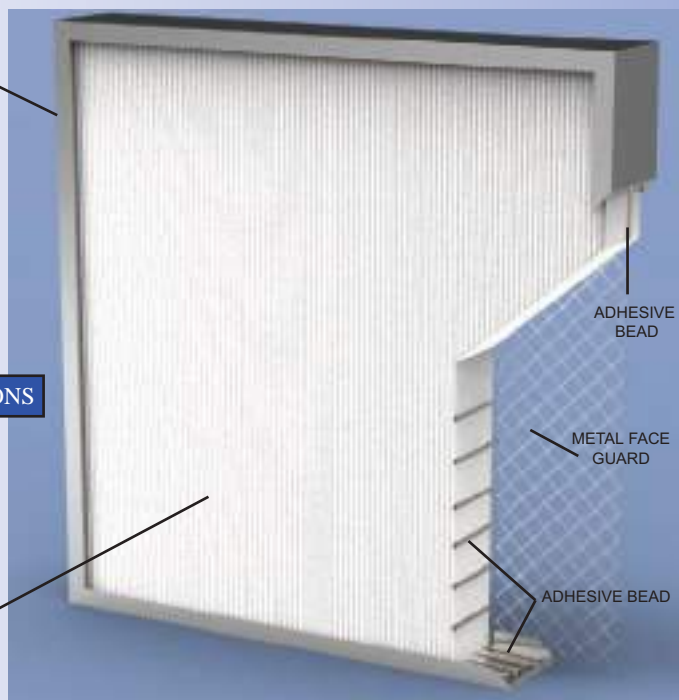
### SPECIFICATIONS

100% SYNTHETIC MEDIA

ADHESIVE BEAD

METAL FACE GUARD

ADHESIVE BEAD



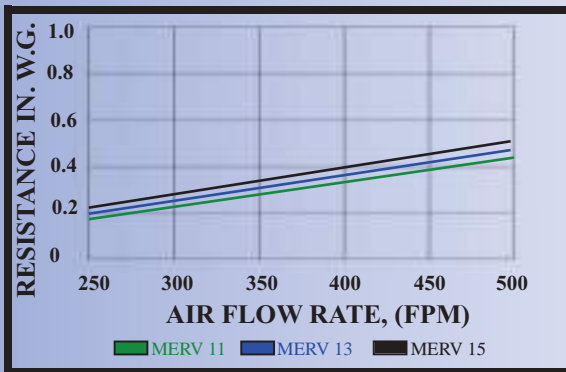
### PURACELL II M-S & MH-S SYNTHETIC MEDIA SERIES

BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		FINAL RESIST. IN. W.G.	MEDIA SQUARE FEET		SIZE W x H x D NOMINAL MM
				M-S	MH-S		M-S	MH-S	
<b>MERV 15</b>									
242449	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.47	.55	1.50	75.56	64.05	610 x 610 x 102
202549	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	.47	.55	1.50	65.17	54.51	508 x 635 x 102
202449	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.47	.55	1.50	62.97	52.41	508 x 610 x 102
202049	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	.47	.55	1.50	52.14	42.66	508 x 508 x 102
182449	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	.47	.55	1.50	55.62	46.58	457 x 610 x 102
162549	16 x 25 x 4	15-3/8" x 24-3/8" x 3-3/4"	500	.47	.55	1.50	51.63	42.05	406 x 635 x 102
162049	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	.47	.55	1.50	41.30	32.91	406 x 508 x 102
122449	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.47	.55	1.50	36.73	28.14	305 x 610 x 102
<b>MERV 13</b>									
242442	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.45	.53	1.50	75.56	64.05	610 x 610 x 102
202542	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	.45	.53	1.50	65.17	54.51	508 x 635 x 102
202442	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.45	.53	1.50	62.97	52.41	508 x 610 x 102
202042	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	.45	.53	1.50	52.14	42.66	508 x 508 x 102
182442	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	.45	.53	1.50	55.62	46.58	457 x 610 x 102
162542	16 x 25 x 4	15-3/8" x 24-3/8" x 3-3/4"	500	.45	.53	1.50	51.63	42.05	406 x 635 x 102
162042	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	.45	.53	1.50	41.30	32.91	406 x 508 x 102
122442	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.45	.53	1.50	36.73	28.14	305 x 610 x 102
<b>MERV 11</b>									
242441	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.43	.51	1.50	75.56	64.05	610 x 610 x 102
202541	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	.43	.51	1.50	65.17	54.51	508 x 635 x 102
202441	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.43	.51	1.50	62.97	52.41	508 x 610 x 102
202041	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	.43	.51	1.50	52.14	42.66	508 x 508 x 102
182441	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	.43	.51	1.50	55.62	46.58	457 x 610 x 102
162541	16 x 25 x 4	15-3/8" x 24-3/8" x 3-3/4"	500	.43	.51	1.50	51.63	42.05	406 x 635 x 102
162041	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	.43	.51	1.50	41.30	32.91	406 x 508 x 102
122441	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.43	.51	1.50	36.73	28.14	305 x 610 x 102

Tolerances shall be +/- 1/16" for width and height. Performance values based on ASHRAE and in-house testing methods.

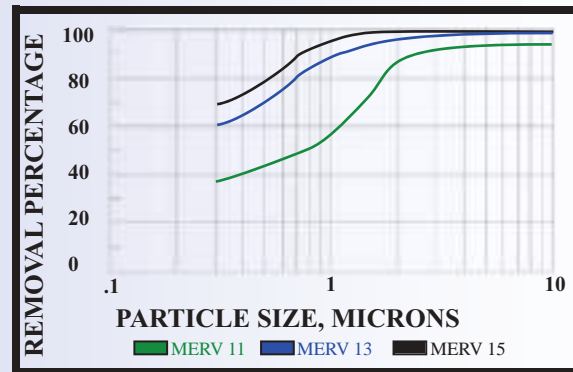
#### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 4" Nominal Box

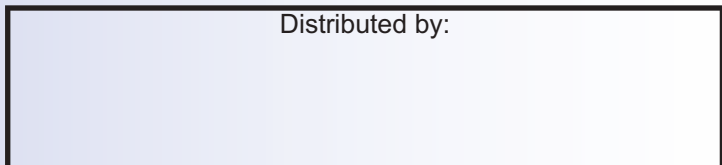


#### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 4" Nominal



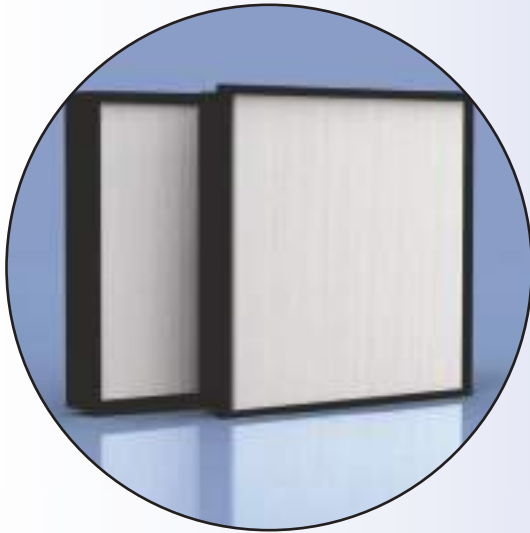
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## PURACELL II P-S & PH-S

Mini-Pleat Synthetic Media Series

- 100% Synthetic Media
- Compact Design for Maximum Air Flow
- Lightweight High-Impact Polystyrene Plastic Frame Construction
- Box and Header Style Frames
- MERV 11, 13 and 15
- Media Will Not Support Microbial Growth

### FEATURES



The Glasfloss Puracell II P-S & PH-S 4" Plastic Frame Synthetic Mini-Pleat Series filters are designed for use in applications where a high degree of efficiency is required in a 4" deep filter. The Puracell II P-S & PH-S Synthetic Series combines state-of-the-art mini-pleat construction techniques with superior reliability to offer maximum value for commercial and industrial applications. Additionally, the Puracell II S P-S & PH-S Series offers unique advantages over the traditional 12" rigid box filter including lower freight costs, reduced storage area requirements and less impact on landfills. The Glasfloss Puracell II P-S & PH-S filters come in a variety of standard sizes and performances.

The Glasfloss Puracell II P-S & PH-S synthetic filter is a mini-pleat cartridge encapsulated with a high impact polystyrene plastic frame. An optional gasket can be applied to the filter frame. The Puracell II P-S & PH-S pack is a pleated 100% synthetic fiber media. The pleats are separated and supported by a uniform glue bead that produces a low initial pressure drop while maximizing the filtration area. The media pack is resistant to moisture and does not support the growth of bacteria and mold. The media pack is thoroughly sealed to the inside of the plastic frame to prevent air bypass. The filter shall be rated to withstand temperatures up to 180 degrees Fahrenheit. The recommended final resistance for Puracell II P-S & PH-S synthetic filters is 1.5" w.g.

POLYSTYRENE  
PLASTIC FRAME

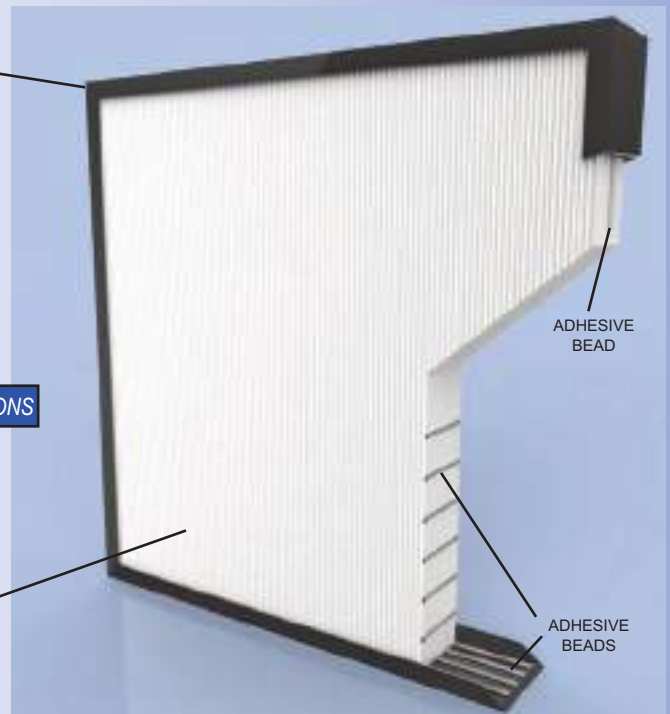


### SPECIFICATIONS

100%  
SYNTHETIC  
MEDIA

ADHESIVE  
BEAD

ADHESIVE  
BEADS



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PRODUCT BULLETIN 11PURPS&PHS • SECTION 11 • 3-10-20

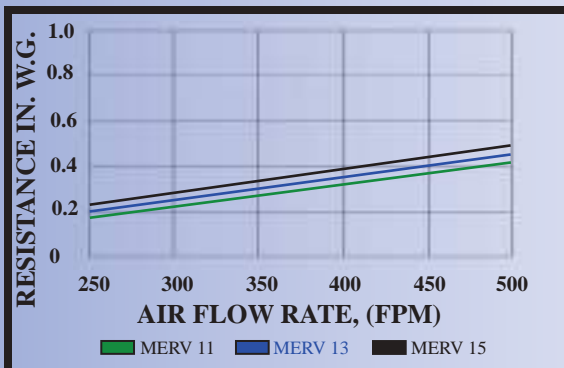
## PURACELL II P-S & PH-S SYNTHETIC MEDIA SERIES

BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		FINAL RESIST. IN. W.G.	MEDIA SQUARE FEET		SIZE W x H x D NOMINAL MM
				P-S	PH-S		P-S	PH-S	
<b>MERV 15</b>									
242449	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.46	.54	1.50	75.56	64.05	610 x 610 x 102
202549	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	.46	.54	1.50	65.17	54.51	508 x 635 x 102
202449	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.46	.54	1.50	62.97	52.41	508 x 610 x 102
202049	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	.46	.54	1.50	52.14	42.66	508 x 508 x 102
182449	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	.46	.54	1.50	55.62	46.58	457 x 610 x 102
162549	16 x 25 x 4	15-3/8" x 24-3/8" x 3-3/4"	500	.46	.54	1.50	51.63	42.05	406 x 635 x 102
162049	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	.46	.54	1.50	41.30	32.91	406 x 508 x 102
122449	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.46	.54	1.50	36.73	28.14	305 x 610 x 102
<b>MERV 13</b>									
242442	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.44	.52	1.50	75.56	64.05	610 x 610 x 102
202542	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	.44	.52	1.50	65.17	54.51	508 x 635 x 102
202442	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.44	.52	1.50	62.97	52.41	508 x 610 x 102
202042	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	.44	.52	1.50	52.14	42.66	508 x 508 x 102
182442	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	.44	.52	1.50	55.62	46.58	457 x 610 x 102
162542	16 x 25 x 4	15-3/8" x 24-3/8" x 3-3/4"	500	.44	.52	1.50	51.63	42.05	406 x 635 x 102
162042	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	.44	.52	1.50	41.30	32.91	406 x 508 x 102
122442	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.44	.52	1.50	36.73	28.14	305 x 610 x 102
<b>MERV 11</b>									
242441	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	.42	.50	1.50	75.56	64.05	610 x 610 x 102
202541	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	.42	.50	1.50	65.17	54.51	508 x 635 x 102
202441	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	.42	.50	1.50	62.97	52.41	508 x 610 x 102
202041	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	.42	.50	1.50	52.14	42.66	508 x 508 x 102
182441	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	.42	.50	1.50	55.62	46.58	457 x 610 x 102
162541	16 x 25 x 4	15-3/8" x 24-3/8" x 3-3/4"	500	.42	.50	1.50	51.63	42.05	406 x 635 x 102
162041	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	.42	.50	1.50	41.30	32.91	406 x 508 x 102
122441	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	.42	.50	1.50	36.73	28.14	305 x 610 x 102

Tolerances shall be +/- 1/16" for width and height. Performance values based on ASHRAE and in-house testing methods.

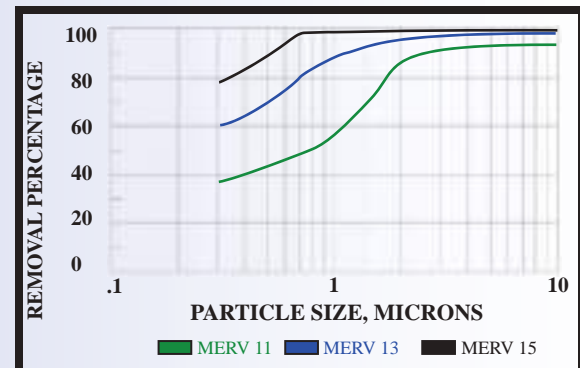
### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 4" Nominal Box



### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 4" Nominal



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## PURACELL II-S 2" Depth PURACELL II P-S 2" Depth

Mini-Pleat Synthetic Media Series

- 100% Synthetic Media
- High Impact Plastic Frame or Beverage Board Frame
- 2" Depth Design
- MERV 11, 13 & 15 Performance Ranges
- Media Will Not Support Microbial Growth

### FEATURES

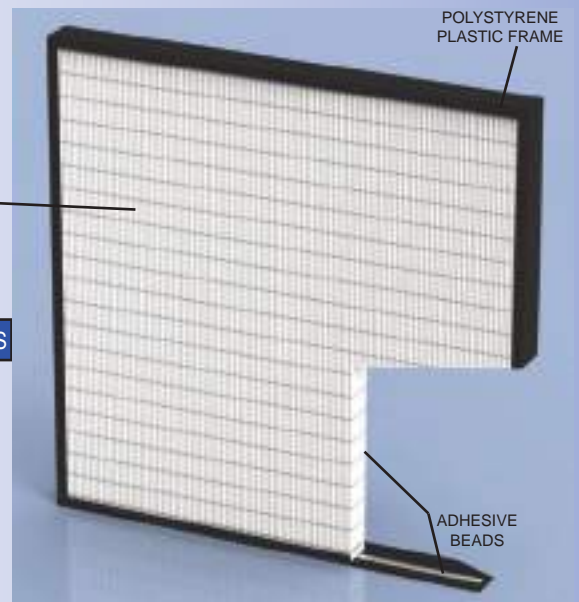


The Glasfloss Puracell II-S and Puracell II P-S 2" depth plastic frame and beverage board frame mini-pleat series are designed for use in a variety of applications where high performance is required. The Puracell II-S 2" depth mini-pleat series is offered in 100% synthetic fibers and combines superior reliability to offer maximum value for commercial and industrial applications. The Puracell II-S 2" depth mini-pleat series offers advantages over 4" and 6" depths filters including lower freight costs, reduced storage area and less impact in landfills. The Puracell II-S 2" depth mini pleat series comes in a variety of standard sizes and performance ranges.

The Glasfloss Puracell II-S 2" depth filter is a mini-pleat cartridge produced in heavy-duty beverage board frame or high impact polystyrene plastic frame. The Puracell II-S 2" pack is a pleated 100% synthetic fiber media. The pleats are separated and supported by a uniform glue bead that produces a low initial pressure drop while maximizing the filtration area. The media pack is resistant to moisture and does not support the growth of bacteria and mold. The media pack is thoroughly bonded to the interior of the plastic or beverage board framework. The filter shall be rated to withstand temperatures up to 180 degrees Fahrenheit. The recommended final resistance for Puracell II-S filters is 1.5" w.g.



### SPECIFICATIONS



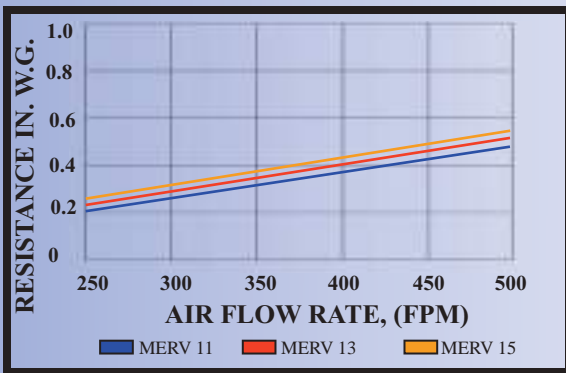
### PURACELL II-S SYNTHETIC MEDIA SERIES

BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	FINAL RESIST. IN. W.G.	MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM
<b>MERV 15</b>							
2424295	24 x 24 x 2	23-3/8" x 23-3/8" x 1-3/4"	500	.55	1.50	45.41	610 x 610 x 51
2025295	20 x 25 x 2	19-3/8" x 24-3/8" x 1-3/4"	500	.55	1.50	39.30	508 x 635 x 51
2024295	20 x 24 x 2	19-3/8" x 23-3/8" x 1-3/4"	500	.55	1.50	45.41	508 x 610 x 51
2020295	20 x 20 x 2	19-3/8" x 19-3/8" x 1-3/4"	500	.55	1.50	31.60	508 x 508 x 51
1824295	18 x 24 x 2	17-3/8" x 23-3/8" x 1-3/4"	500	.55	1.50	33.82	457 x 610 x 51
1625295	16 x 25 x 2	15-3/8" x 24-3/8" x 1-3/4"	500	.55	1.50	31.24	406 x 635 x 51
1620295	16 x 20 x 2	15-3/8" x 19-3/8" x 1-3/4"	500	.55	1.50	25.12	406 x 508 x 51
1224295	12 x 24 x 2	11-3/8" x 23-3/8" x 1-3/4"	500	.55	1.50	22.22	305 x 610 x 51
<b>MERV 13</b>							
242428	24 x 24 x 2	23-3/8" x 23-3/8" x 1-3/4"	500	.52	1.50	45.41	610 x 610 x 51
202528	20 x 25 x 2	19-3/8" x 24-3/8" x 1-3/4"	500	.52	1.50	39.30	508 x 635 x 51
202428	20 x 24 x 2	19-3/8" x 23-3/8" x 1-3/4"	500	.52	1.50	45.41	508 x 610 x 51
202028	20 x 20 x 2	19-3/8" x 19-3/8" x 1-3/4"	500	.52	1.50	31.60	508 x 508 x 51
182428	18 x 24 x 2	17-3/8" x 23-3/8" x 1-3/4"	500	.52	1.50	33.82	457 x 610 x 51
162528	16 x 25 x 2	15-3/8" x 24-3/8" x 1-3/4"	500	.52	1.50	31.24	406 x 635 x 51
162028	16 x 20 x 2	15-3/8" x 19-3/8" x 1-3/4"	500	.52	1.50	25.12	406 x 508 x 51
122428	12 x 24 x 2	11-3/8" x 23-3/8" x 1-3/4"	500	.52	1.50	22.22	305 x 610 x 51
<b>MERV 11</b>							
242426	24 x 24 x 2	23-3/8" x 23-3/8" x 1-3/4"	500	.49	1.50	45.41	610 x 610 x 51
202526	20 x 25 x 2	19-3/8" x 24-3/8" x 1-3/4"	500	.49	1.50	39.30	508 x 635 x 51
202426	20 x 24 x 2	19-3/8" x 23-3/8" x 1-3/4"	500	.49	1.50	45.41	508 x 610 x 51
202026	20 x 20 x 2	19-3/8" x 19-3/8" x 1-3/4"	500	.49	1.50	31.60	508 x 508 x 51
182426	18 x 24 x 2	17-3/8" x 23-3/8" x 1-3/4"	500	.49	1.50	33.82	457 x 610 x 51
162526	16 x 25 x 2	15-3/8" x 24-3/8" x 1-3/4"	500	.49	1.50	31.24	406 x 635 x 51
162026	16 x 20 x 2	15-3/8" x 19-3/8" x 1-3/4"	500	.49	1.50	25.12	406 x 508 x 51
122426	12 x 24 x 2	11-3/8" x 23-3/8" x 1-3/4"	500	.49	1.50	22.22	305 x 610 x 51

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Performance values based on ASHRAE and in-house testing methods.

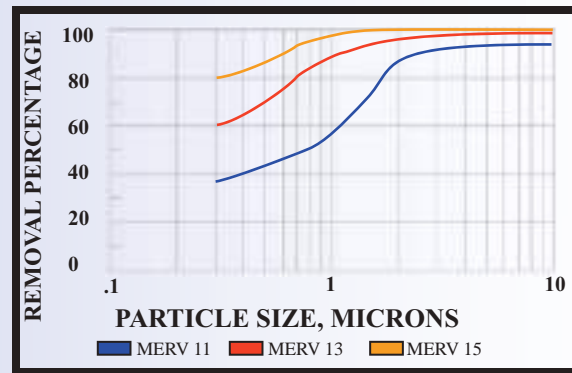
#### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 2" Nominal



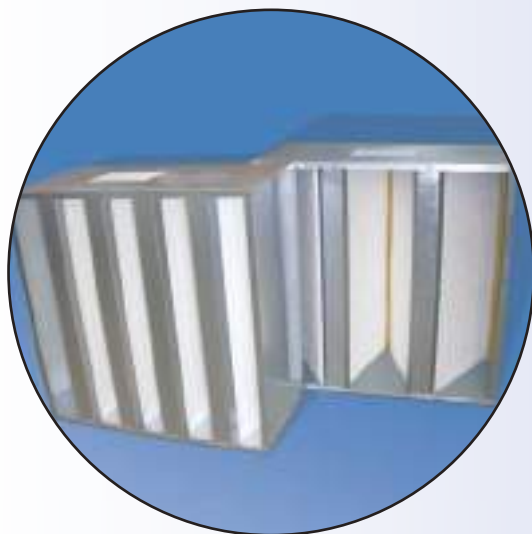
#### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 2" Nominal



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## PURACELL V & VX Mini-Pleat Series

- V Series Features 8-Pack Construction
- VX Series Features 4-Pack Construction
- Compact Design For Maximum Air Flow
- High Efficiency Microfiber
- Low Resistance = Energy Savings
- Moisture Resistant Construction

### FEATURES >

The unique design of the Glasfloss Puracell V & VX Mini-Pleat filter offers high efficiency particulate removal, extended service life and extremely low resistance to air flow. The combination of these key features offers higher performance and lower operating costs than traditional rigid cell and box style filters. The Puracell V & VX Series is available in box or header style, in MERV 11, MERV 13, MERV 14 and MERV 15 efficiencies. The Puracell V Series is also available in MERV 16 and 99.97% HEPA Grade efficiencies.

The Puracell V & VX shall utilize multiple mini-pleat media packs which allow low resistance to air flow and long service life. The media shall be water resistant, inorganic, wet laid glass microfiber. The Puracell V & VX media packs are constructed by pleating a continuous sheet of media. The pleats are separated by a uniform glue bead that produces low pressure drop while maximizing the filtration area. The media packs are resistant to moisture and do not support the growth of bacteria and mold. The media packs are completely sealed and bonded within the heavy-duty 26 gauge galvanized steel frame. An optional peripheral header design is available. The air entering side of the Puracell V & VX filter frame shall incorporate four holes to insert spring clips from a holding frame device. The filters shall be rated to withstand temperatures up to 180 degrees Fahrenheit. Recommended final resistance for Puracell V is 2.0", and for VX filters is 1.5" w.g.

### < SPECIFICATIONS



Efficiency	60-65%	80-85%	90-95%	98%	-	99.97%
MERV	11	13	14	15	16	-

## Puracell V/VX

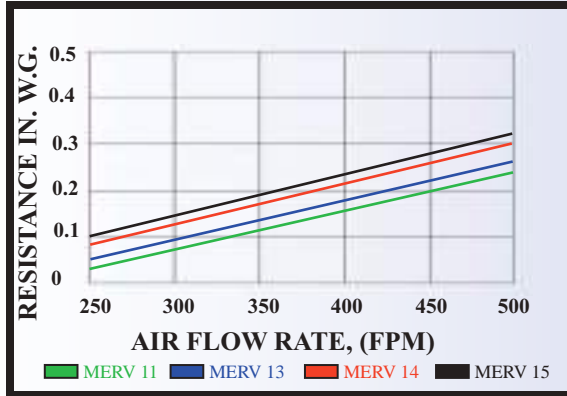
BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G		MEDIA SQUARE FEET		SIZE W x H x D NOM. MM
				V	VX	V	VX	
<b>MERV 11 - 60-65% EFFICIENCY</b>								
2424B1	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.23	.36	211.23	113.00	610 x 610 x 305
2024B1	20 x 24 x 12	19-3/8" x 23-3/8" x 11-1/2"	500	.23	.36	158.42	84.75	508 x 610 x 305
2020B1	20 x 20 x 12	19-3/8" x 19-3/8" x 11-1/2"	500	.23	.36	131.88	70.55	508 x 508 x 305
1824B1	18 x 24 x 12	17-3/8" x 23-3/8" x 11-1/2"	500	.23	.36	158.42	84.75	457 x 610 x 305
1224B1	12 x 24 x 12	11-3/8" x 23-3/8" x 11-1/2"	500	.23	.36	105.61	56.50	305 x 610 x 305
<b>MERV 13 - 80-85% EFFICIENCY</b>								
2424B2	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.26	.40	211.23	113.00	610 x 610 x 305
2024B2	20 x 24 x 12	19-3/8" x 23-3/8" x 11-1/2"	500	.26	.40	158.42	84.75	508 x 610 x 305
2020B2	20 x 20 x 12	19-3/8" x 19-3/8" x 11-1/2"	500	.26	.40	131.88	70.55	508 x 508 x 305
1824B2	18 x 24 x 12	17-3/8" x 23-3/8" x 11-1/2"	500	.26	.40	158.42	84.75	457 x 610 x 305
1224B2	12 x 24 x 12	11-3/8" x 23-3/8" x 11-1/2"	500	.26	.40	105.61	56.50	305 x 610 x 305
<b>MERV 14 - 90-95% EFFICIENCY</b>								
2424B3	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.30	.45	211.23	113.00	610 x 610 x 305
2024B3	20 x 24 x 12	19-3/8" x 23-3/8" x 11-1/2"	500	.30	.45	158.42	84.75	508 x 610 x 305
2020B3	20 x 20 x 12	19-3/8" x 19-3/8" x 11-1/2"	500	.30	.45	131.88	70.55	508 x 508 x 305
1824B3	18 x 24 x 12	17-3/8" x 23-3/8" x 11-1/2"	500	.30	.45	158.42	84.75	457 x 610 x 305
1224B3	12 x 24 x 12	11-3/8" x 23-3/8" x 11-1/2"	500	.30	.45	105.61	56.50	305 x 610 x 305
<b>MERV 15 - 98% EFFICIENCY</b>								
2424B9	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.32	.47	211.23	113.00	610 x 610 x 305
2024B9	20 x 24 x 12	19-3/8" x 23-3/8" x 11-1/2"	500	.32	.47	158.42	84.75	508 x 610 x 305
2020B9	20 x 20 x 12	19-3/8" x 19-3/8" x 11-1/2"	500	.32	.47	131.88	70.55	508 x 508 x 305
1824B9	18 x 24 x 12	17-3/8" x 23-3/8" x 11-1/2"	500	.32	.47	158.42	84.75	457 x 610 x 305
1224B9	12 x 24 x 12	11-3/8" x 23-3/8" x 11-1/2"	500	.32	.47	105.61	56.50	305 x 610 x 305
<b>MERV 16 - 95% @ .3 microns</b>								
* 23F23FB4	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.45	-	211.23	-	610 x 610 x 305
* 19F23FB4	20 x 24 x 12	19-3/8" x 23-3/8" x 11-1/2"	500	.45	-	158.42	-	508 x 610 x 305
* 19F19FB4	20 x 20 x 12	19-3/8" x 19-3/8" x 11-1/2"	500	.45	-	131.88	-	508 x 508 x 305
* 17F23FB4	18 x 24 x 12	17-3/8" x 23-3/8" x 11-1/2"	500	.45	-	158.42	-	457 x 610 x 305
* 11F23FB4	12 x 24 x 12	11-3/8" x 23-3/8" x 11-1/2"	500	.45	-	105.61	-	305 x 610 x 305
<b>99.97% @ .3 microns</b>								
* 23F23FB5	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	275	.95	-	211.23	-	610 x 610 x 305
* 19F23FB5	20 x 24 x 12	19-3/8" x 23-3/8" x 11-1/2"	275	.95	-	158.42	-	508 x 610 x 305
* 19F19FB5	20 x 20 x 12	19-3/8" x 19-3/8" x 11-1/2"	275	.95	-	131.88	-	508 x 508 x 305
* 17F23FB5	18 x 24 x 12	17-3/8" x 23-3/8" x 11-1/2"	275	.95	-	158.42	-	457 x 610 x 305
* 11F23FB5	12 x 24 x 12	11-3/8" x 23-3/8" x 11-1/2"	275	.95	-	105.61	-	305 x 610 x 305

Tolerances shall be +/- 1/16" for height, width and depth. The frame depth shall not exceed 11-1/2". Performance values based on ASHRAE and in-house testing methods.  
 Recommended final resistance: V=2.0", VX=1.5"

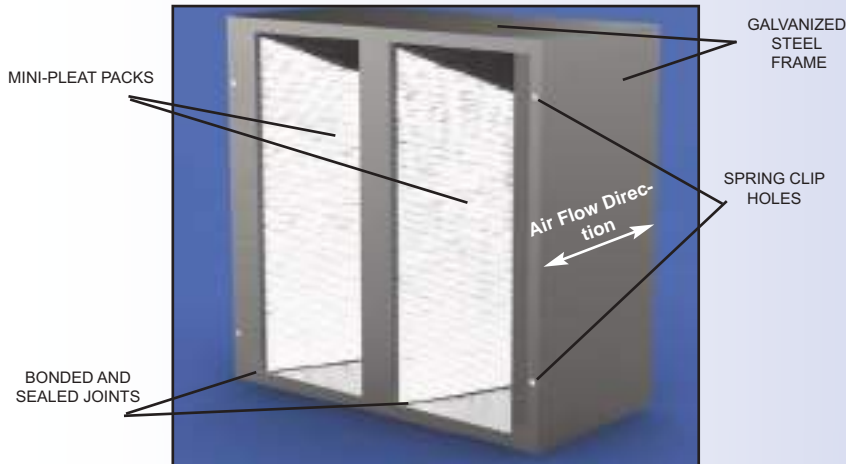
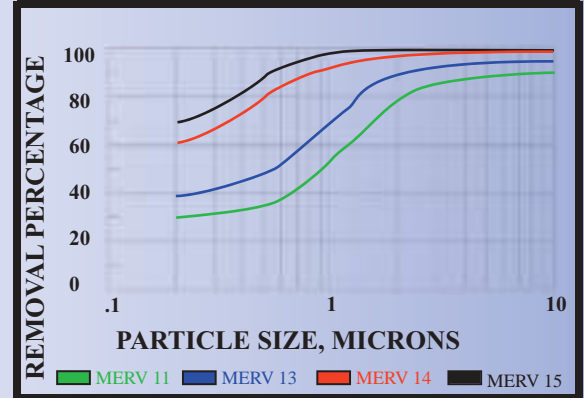
\* These models are available in both full and exact sizes.



**PURACELL V**  
**STANDARD PRESSURE DROP**  
 Test Filter Size 24" x 24" x 12" Nominal



**PURACELL V/VX**  
**MINIMUM PARTICLE SIZE EFFICIENCY**  
 Test Filter Size 24" x 24" x 12" Nominal

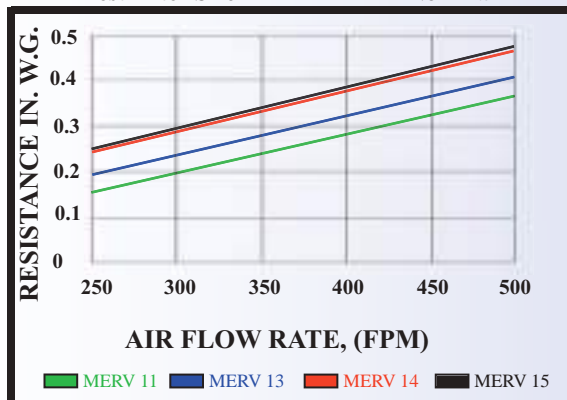


**Puracell VX Filter**

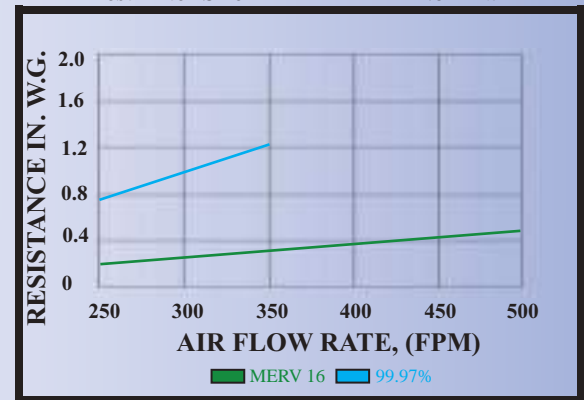


**Pre-filter easily attached with clips for front-load applications**

**PURACELL VX**  
**STANDARD PRESSURE DROP**  
 Test Filter Size 24" x 24" x 12" Nominal



**PURACELL V**  
**STANDARD PRESSURE DROP**  
 Test Filter Size 24" x 24" x 12" Nominal



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### Energy Savings & Environmental Impact Comparison

	<u>Glasfloss Puracell V</u>	<u>Traditional Rigid Cell</u>
MERV Rating	14	14
Initial Resistance (in. w.g)	0.30	0.68
*Recommended Final Resistance (in. w.g.)	2.0	1.5
**Fan/Motor/Drive Efficiency (%)	58.00%	58.00%
***Energy Consumption (kWh)	2613	3876
Annual CO2 Emissions (lbs)	3533	5240
<b>Annual Energy Cost (\$.08/kWh)</b>	<b>\$209.00</b>	<b>\$310.00</b>

\* V pressure drop estimated at 1.17 in. w.g. after 12 months  
 \*\* Fan/Motor/Drive Efficiency estimated & averaged at 58%  
 \*\*\* Kilowatt cost estimated at \$.08/kWh

Glasfloss Puracell V = \$101.00  
 energy savings per filter or annually  
 32.6% savings per this comparison.

### PART NUMBER CONFIGURATION FOR V & VX

<p><b>PREFIX</b></p> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div> <p>PUV = V PUVX = VX</p>	<p><b>FRAME STYLE</b></p> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div> <p>B = Box H = Header</p>	<p><b>BASE PART NUMBER</b></p> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div> <p>SELECT THE BASE PART NUMBER FOR DESIRED SIZE AND EFFICIENCY</p>	<p><b>GASKET LOCATION **</b></p> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto;"></div> <p>O= NO GASKET</p> <table border="0"> <tr> <td style="vertical-align: top;"> <p><b>BOX STYLE</b></p> <p>A = AIR EXIT (4) B = AIR ENTRY (4) C = AIR EXIT/ENTRY (8) D = SIDE LOAD (2)</p> </td> <td style="vertical-align: top;"> <p><b>SINGLE HEADER</b></p> <p>E = AIR EXIT/ENTRY (8) F = AIR ENTRY (4) H = AIR EXIT (4) J = SIDE LOAD (2) S = SIDE LOAD (1)</p> </td> </tr> </table>	<p><b>BOX STYLE</b></p> <p>A = AIR EXIT (4) B = AIR ENTRY (4) C = AIR EXIT/ENTRY (8) D = SIDE LOAD (2)</p>	<p><b>SINGLE HEADER</b></p> <p>E = AIR EXIT/ENTRY (8) F = AIR ENTRY (4) H = AIR EXIT (4) J = SIDE LOAD (2) S = SIDE LOAD (1)</p>
<p><b>BOX STYLE</b></p> <p>A = AIR EXIT (4) B = AIR ENTRY (4) C = AIR EXIT/ENTRY (8) D = SIDE LOAD (2)</p>	<p><b>SINGLE HEADER</b></p> <p>E = AIR EXIT/ENTRY (8) F = AIR ENTRY (4) H = AIR EXIT (4) J = SIDE LOAD (2) S = SIDE LOAD (1)</p>				

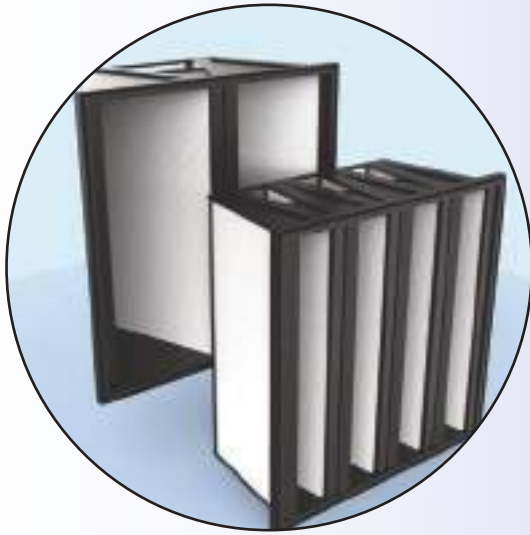
To ensure that Puracell V and VX filters are fabricated to meet job requirements, order by the exact Part Number.  
 Example: 24 x 24 x 12 MERV 14, Puracell VX, Box Style, no gasket. Part number = "PUVXB2424B30".



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## [ PURACELL VP & VPX ] Mini-Pleat Series

- VP (4V) Series Features 8-Pack Construction
- VPX (2V) Series Features 4-Pack Construction
- High Efficiency Microfiber
- Low Resistance = Energy Savings
- Moisture Resistant Construction
- Lighter Weight = Reduced Shipping Cost

### FEATURES



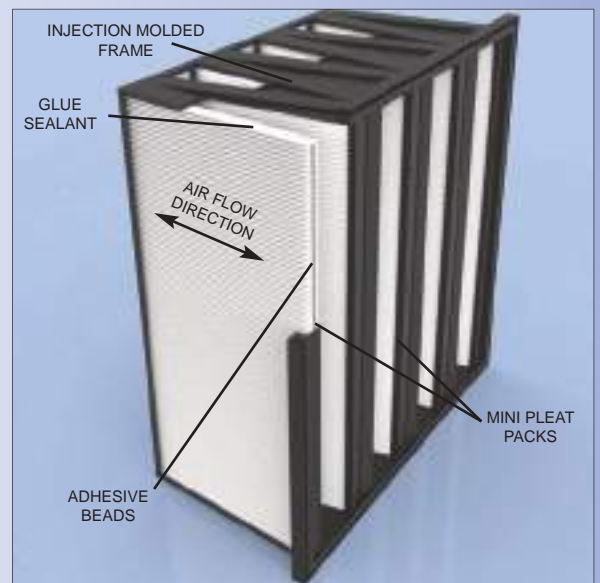
The Glasfloss Puracell VP (4V) and VPX (2V) series extended surface mini-pleat filters offer high efficiency particulate removal, extended service life and extremely low resistance to air flow. The Puracell VP (4V) and VPX (2V) frame filters incorporate lightweight, high-impact polystyrene framework for strength and durability in demanding commercial and industrial applications. When compared to traditional rigid cell and traditional box style filters, the Puracell VP (4V) and VPX (2V) mini-pleat series offer superior performance, lower operating costs and significant energy savings. Puracell 20x20x12 is 3V, 6 panel construction and the frame is gray in color. The Puracell VP and VPX are available in MERV 11, 13, 14 and 15 performances. The Puracell VP is also available in MERV 16 and 99.97% HEPA grade performance.

The Puracell VP and VPX Series utilize multiple mini-pleat packs which allow low resistance to air flow and long service life. The media shall be water resistant, inorganic, wet laid glass microfiber which does not support the growth of bacteria or mold. The Puracell VP and VPX media packs are constructed by pleating a continuous sheet of media. The pleats are separated by a uniform glue bead that produces low pressure drop while maximizing the filtration area. The media packs are completely sealed and bonded within the heavy-duty framework. The filters shall be rated to withstand temperatures up to 180 degrees Fahrenheit.



### SPECIFICATIONS

<b>Efficiency</b>	60-65%	80-85%	90-95%	98%	-	99.97%
<b>MERV</b>	11	13	14	15	16	-



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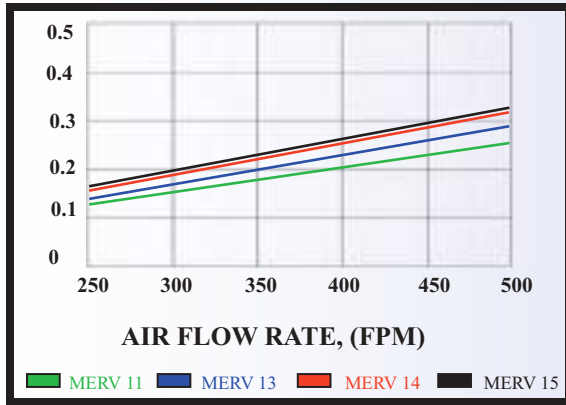
## Puracell VP/VPX

BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G		MEDIA SQUARE FEET		SIZE W x H x D NOM.MM
				VP	VPX	VP	VPX	
<b>MERV 11 - 60-65% EFFICIENCY</b>								
2424B1	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.26	.33	205.70	97.76	610 x 610 x 305
2420B1	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	500	.26	.33	168.10	79.68	610 x 508 x 305
2412B1	24 x 12 x 12	23-3/8" x 11-3/8" x 11-1/2"	500	.26	.33	91.79	43.51	610 x 305 x 305
2020B1*	20 x 20 x 12	19-3/8" x 19-3/8" x 11-1/2"	500	.26	-	121.92	-	508 x 508 x 305
<b>MERV 13 - 80-85% EFFICIENCY</b>								
2424B2	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.29	.41	205.70	97.76	610 x 610 x 305
2420B2	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	500	.29	.41	168.10	79.68	610 x 508 x 305
2412B2	24 x 12 x 12	23-3/8" x 11-3/8" x 11-1/2"	500	.29	.41	91.79	43.51	610 x 305 x 305
2020B2*	20 x 20 x 12	19-3/8" x 19-3/8" x 11-1/2"	500	.29	-	121.92	-	508 x 508 x 305
<b>MERV 14 - 90-95% EFFICIENCY</b>								
2424B3	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.32	.45	205.70	103.98	610 x 610 x 305
2420B3	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	500	.32	.45	168.10	84.77	610 x 508 x 305
2412B3	24 x 12 x 12	23-3/8" x 11-3/8" x 11-1/2"	500	.32	.45	91.79	46.34	610 x 305 x 305
2020B3*	20 x 20 x 12	19-3/8" x 19-3/8" x 11-1/2"	500	.32	-	121.92	-	508 x 508 x 305
<b>MERV 15 - 98% EFFICIENCY</b>								
2424B9	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.33	.49	205.70	103.98	610 x 610 x 305
2420B9	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	500	.33	.49	168.10	84.77	610 x 508 x 305
2412B9	24 x 12 x 12	23-3/8" x 11-3/8" x 11-1/2"	500	.33	.49	91.79	46.34	610 x 305 x 305
2020B9*	20 x 20 x 12	19-3/8" x 19-3/8" x 11-1/2"	500	.33	-	121.92	-	508 x 508 x 305
<b>MERV 16 - 95% @ .3 microns</b>								
23F23FB4	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.78	-	205.70	-	610 x 610 x 305
23F19FB4	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	500	.78	-	168.10	-	610 x 508 x 305
23F11FB4	24 x 12 x 12	23-3/8" x 11-3/8" x 11-1/2"	500	.78	-	91.79	-	610 x 305 x 305
<b>99.97% @ .3 microns</b>								
23F23FB5	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	275	1.0	-	205.70	-	610 x 610 x 305
23F19FB5	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	275	1.0	-	168.10	-	610 x 508 x 305
23F11FB5	24 x 12 x 12	23-3/8" x 11-3/8" x 11-1/2"	275	1.0	-	91.79	-	610 x 305 x 305

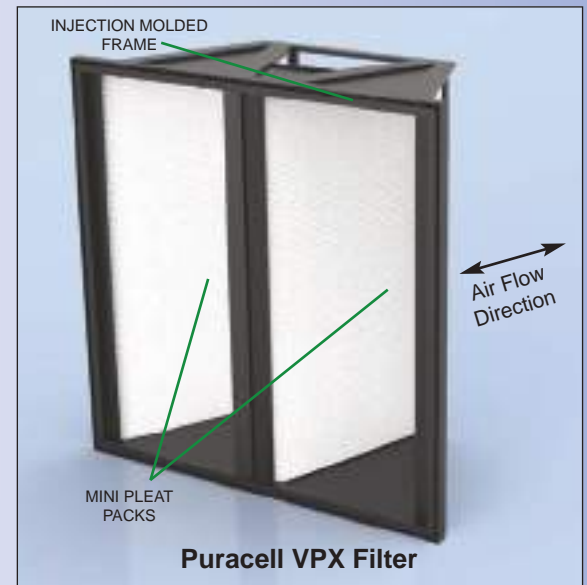
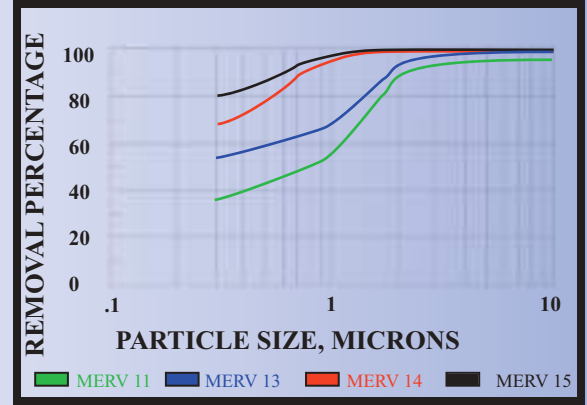
\* Puracell 20x20x12 is 3V, 6 panel construction and the frame is gray in color.

Tolerances shall be +/- 1/16" for height and width. The frame depth shall be 11-1/2" +/- 1/8". Performance values based on ASHRAE and in-house testing methods. Recommended Final Resistance: VP=2.0" in w.g., VPX=1.5" in w.g.

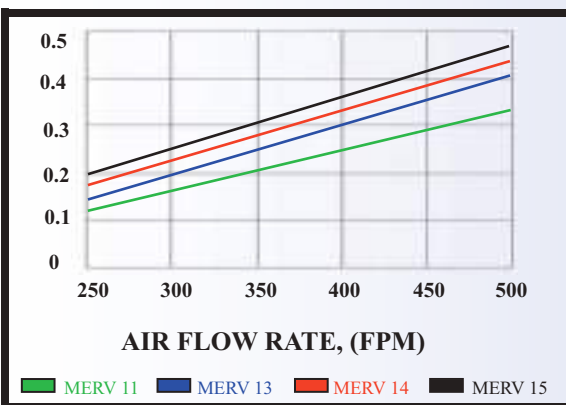
### PURACELL VP STANDARD PRESSURE DROP Test Filter Size 24" x 24" x 12" Nominal



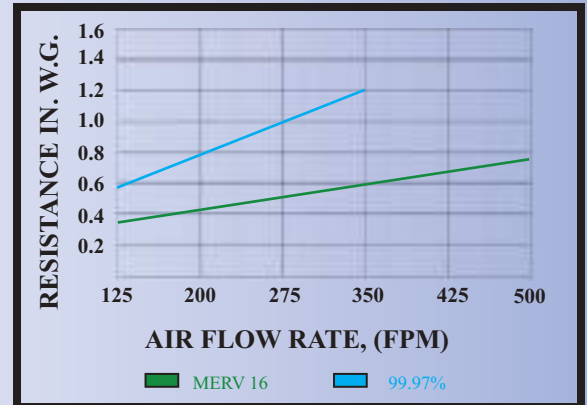
### PURACELL VP/VPX MINIMUM PARTICLE SIZE EFFICIENCY Test Filter Size 24" x 24" x 12" Nominal



### PURACELL VPX STANDARD PRESSURE DROP Test Filter Size 24" x 24" x 12" Nominal



### PURACELL VP STANDARD PRESSURE DROP Test Filter Size 24" x 24" x 12" Nominal



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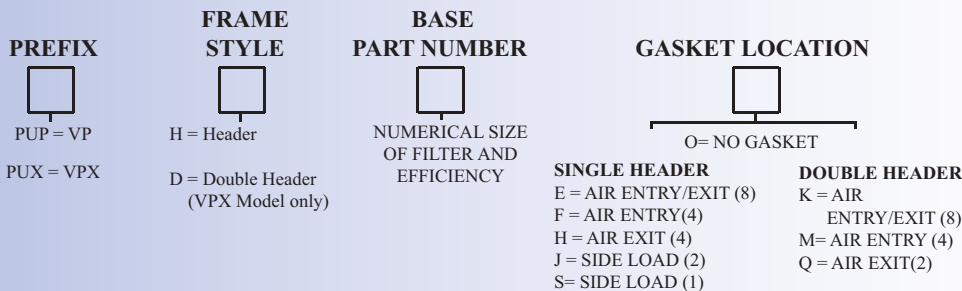
**Energy Savings & Environmental Impact Comparison**

	<u>Glasfloss Puracell VP</u>	<u>Traditional Rigid Cell</u>
MERV Rating	14	14
Initial Resistance (in. w.g)	0.32	0.68
*Recommended Final Resistance (in. w.g.)	2.0	1.5
**Fan/Motor/Drive Efficiency (%)	58.00%	58.00%
***Energy Consumption (kWh)	2649	3876
Annual CO2 Emissions (lbs)	3581	5240
<b>Annual Energy Cost (\$.08/kWh)</b>	<b>\$212.00</b>	<b>\$310.00</b>

\* VP pressure drop estimated at 1.17 in. w.g. after 12 months  
 \*\* Fan/Motor/Drive Efficiency estimated & averaged at 58%  
 \*\*\* Kilowatt cost estimated at \$.08/kWh

**Glasfloss Puracell VP = \$98.00 energy savings per filter or annually 31.7% savings per this comparison.**

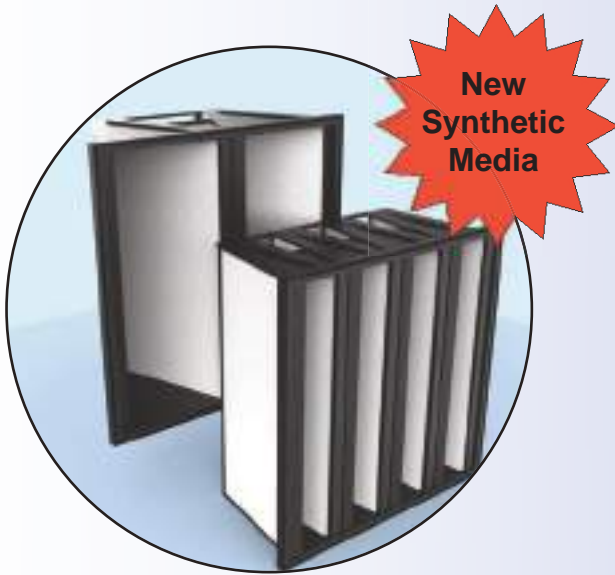
**PART NUMBER CONFIGURATION FOR VP & VPX**



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## PURACELL VP-S & VPX-S (Mini-Pleat Synthetic Series)

- 100% Synthetic Media
- VP-S (4V) All-Plastic Series Features 8-Pack Construction
- VPX-S (2V) Series Features 4-Pack Construction
- Low Resistance
- Moisture Resistant Construction
- Reverse Air Flow Option Available

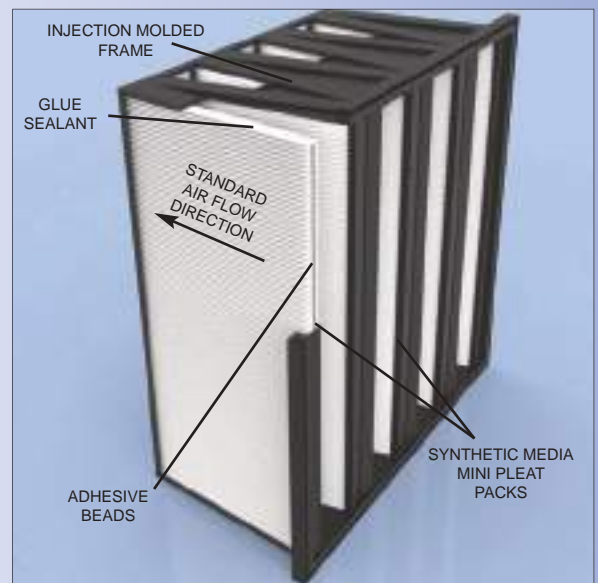
### FEATURES >

The Glasfloss Puracell VP-S (4V) and VPX-S (2V) all-plastic frame extended surface mini-pleat filters offer high efficiency particulate removal, extended service life and extremely low resistance to air flow. The Puracell VP-S and VPX-S plastic frame filters incorporate a lightweight, high-impact polystyrene framework for strength and durability in demanding commercial and industrial applications, and offer high efficiency and low resistance to airflow. When compared to traditional rigid cell and traditional box style filters, the Puracell VP-S and VPX-S mini-pleat series offer superior performance, lower operating costs and significant energy savings. Puracell 20x20x12 is 3V, 6 panel construction and the frame is gray in color. The Puracell VP-S and VPX-S are available in MERV 11, 13 and 15 performances.

The Puracell VP-S and VPX-S Series utilize multiple mini-pleat packs which allow low resistance to air flow and long service life. The media shall be water resistant, inorganic, moisture-resistant synthetic media which does not support the growth of bacteria or mold. The Puracell VP-S and VPX-S media packs are constructed by pleating a continuous sheet of media. The pleats are separated by a uniform glue bead that produces low pressure drop while maximizing the filtration area. The media packs are completely sealed and bonded within the heavy-duty framework. The filters shall be rated to withstand temperatures up to 180 degrees Fahrenheit.

### < SPECIFICATIONS

Efficiency	60-65%	80-85%	98%
MERV	11	13	15



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## Puracell VP-S / VPX-S

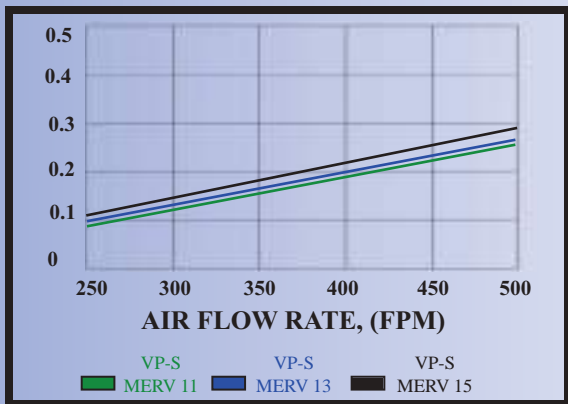
### 100% Synthetic Media

BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G		MEDIA SQUARE FEET		SIZE W x H x D NOM. MM
				VP-S	VPX-S	VP-S	VPX-S	
<b>MERV 11 - 60-65% EFFICIENCY</b>								
2424B1	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.26	.33	146.93	73.46	610 x 610 x 305
2420B1	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	500	.26	.33	119.80	59.90	610 x 508 x 305
2412B1	24 x 12 x 12	23-3/8" x 11-3/8" x 11-1/2"	500	.26	.33	65.55	32.78	610 x 305 x 305
2020B1*	20 x 20 x 12	19-3/8" x 19-3/8" x 11-1/2"	500	.26	-	89.85	-	508 x 508 x 305
<b>MERV 13 - 80-85% EFFICIENCY</b>								
2424B2	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.27	.35	146.93	73.46	610 x 610 x 305
2420B2	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	500	.27	.35	119.80	59.90	610 x 508 x 305
2412B2	24 x 12 x 12	23-3/8" x 11-3/8" x 11-1/2"	500	.27	.35	65.55	32.78	610 x 305 x 305
2020B2*	20 x 20 x 12	19-3/8" x 19-3/8" x 11-1/2"	500	.27	-	89.85	-	508 x 508 x 305
<b>MERV 15 - 98% EFFICIENCY</b>								
2424B9	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.29	.37	146.93	73.46	610 x 610 x 305
2420B9	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	500	.29	.37	119.80	59.90	610 x 508 x 305
2412B9	24 x 12 x 12	23-3/8" x 11-3/8" x 11-1/2"	500	.29	.37	65.55	32.78	610 x 305 x 305
2020B9*	20 x 20 x 12	19-3/8" x 19-3/8" x 11-1/2"	500	.29	-	89.85	-	508 x 508 x 305

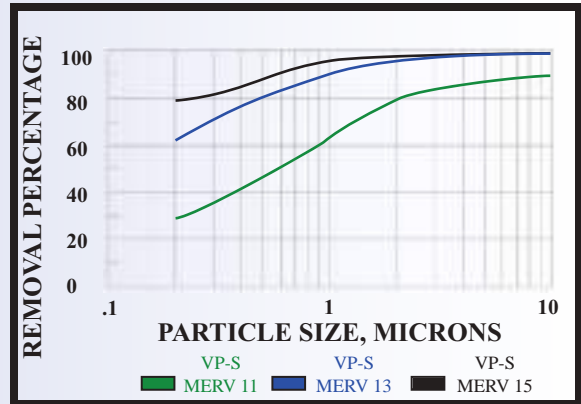
\* Puracell 20x20x12 is 3V, 6 panel construction and the frame is gray in color

Tolerances shall be +/- 1/16" for height, width and depth. The frame depth shall 11-1/2" +/- 1/8". Performance values based on ASHRAE and in-house testing methods.  
Recommended Final Resistance: VP-S=2.0" in w.g., VPX-S=1.5" in w.g.

**PURACELL VP-S**  
**STANDARD PRESSURE DROP**  
Test Filter Size 24" x 24" x 12" Nominal



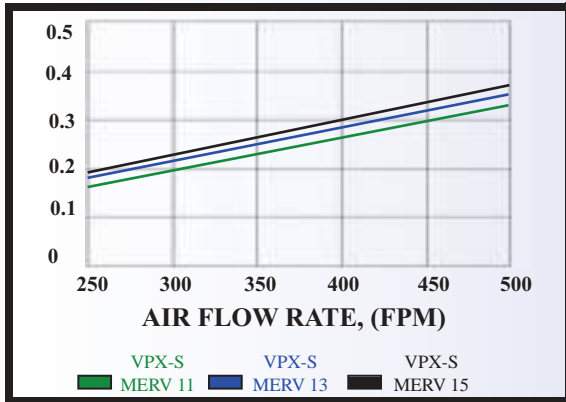
**PURACELL VP-S**  
**MINIMUM PARTICLE SIZE EFFICIENCY**  
Test Filter Size 24" x 24" x 12" Nominal





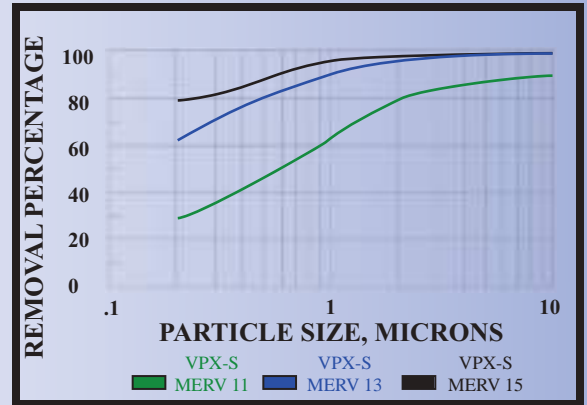
## PURACELL VPX-S STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 12" Nominal

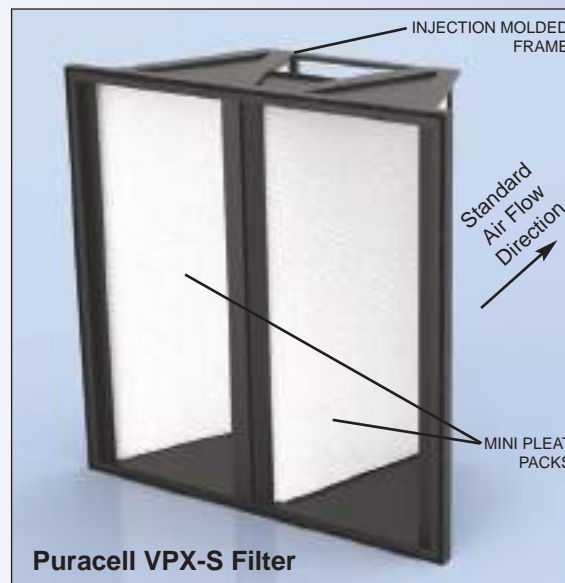
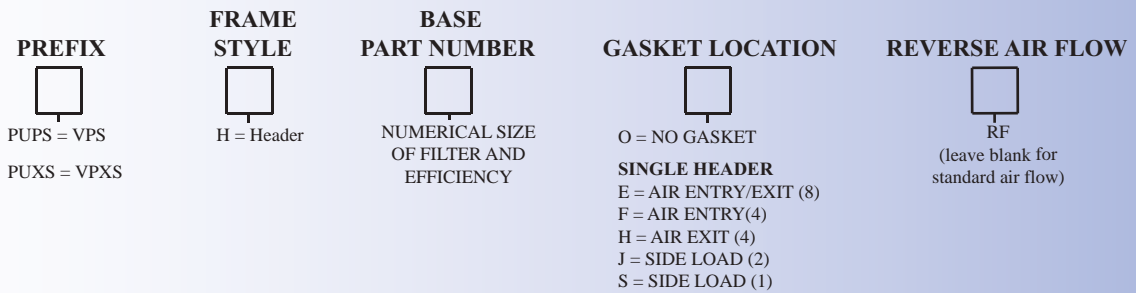


## PURACELL VPX-S MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 12" Nominal



## PART NUMBER CONFIGURATION FOR VP-S & VPX-S



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**Energy Savings & Environmental Impact Comparison**

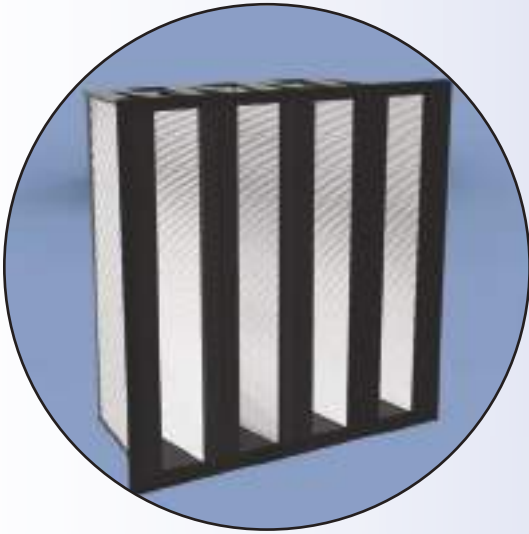
	<b>Glasfloss Puracell VP-S</b>	<b>Traditional Rigid Cell</b>
MERV Rating	15	14
Initial Resistance (in. w.g)	0.29	0.68
*Recommended Final Resistance (in. w.g.)	2.0	1.5
**Fan/Motor/Drive Efficiency (%)	58.00%	58.00%
***Energy Consumption (kWh)	2548	3876
Annual CO2 Emissions (lbs)	3440	5240
<b>Annual Energy Cost (\$.08/kWh)</b>	<b>\$203.84</b>	<b>\$310.00</b>

\* VP-S pressure drop estimated at 1.15 in. w.g. after 12 months  
 \*\* Fan/Motor/Drive Efficiency estimated & averaged at 58%  
 \*\*\* Kilowatt cost estimated at \$.08/kWh

**Glasfloss Puracell VP-S = \$106.16 energy savings per filter or annually 34.2% savings per this comparison.**

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# [ PURACELL VPGT & VP-SGT ]

## Gas Turbine Series

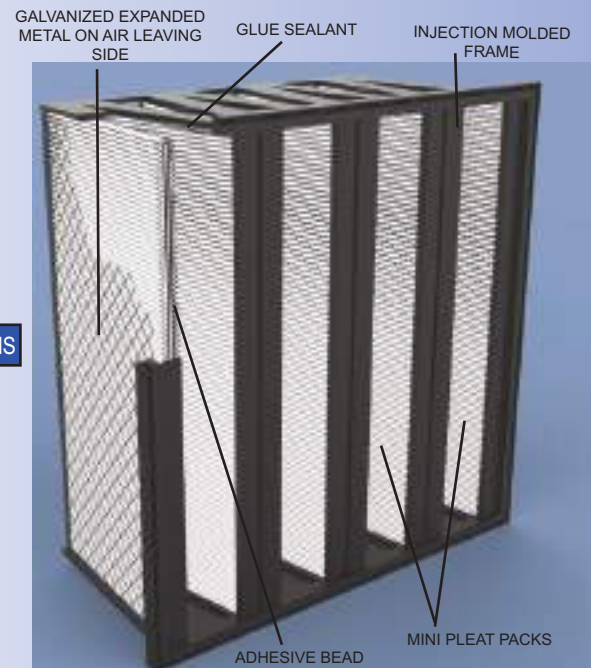
- Heavy-duty Construction for Gas Turbine Applications
- Glass Microfiber Media or Synthetic Fibers Provide Excellent Moisture Resistance
- Extra Durability for Demanding HVAC Applications

**FEATURES** >

Glasfloss Puracell VPGT & VP-SGT filters are designed to withstand the rigors of a gas turbine engine, centrifugal compressor and other high velocity applications. Heavy-duty face grills and additional media pack reinforcements ensure the integrity of the filters under the most demanding conditions. Glasfloss GT filters are available in MERV 14 and MERV 15 ASHRAE performance.

The Glasfloss Puracell GT all plastic frame utilizes multiple mini-pleat packs which allow low resistance to air flow and long service life. The media shall be constructed of a water resistant, inorganic glass microfiber (or synthetic fibers). The media pack shall consist of a continuous sheet of the pleated media that is separated by a uniform glue bead which produces low pressure drop while maximizing the filtration area. A 1/4" neoprene thick gasket shall be applied on the filter. An expanded metal face guard is installed on the air leaving side of the frame to insure filter integrity and increase rigidity. The expanded metal shall be galvanized to resist rust and corrosion. The filter shall be rated to withstand temperatures up to 180 degrees Fahrenheit. The VPGT shall withstand up to 23 in. w.g. and the VP-SGT shall withstand up to 25 in. w.g. in an "Air Filter Breaching Test." Puracell GT Series shall have MERV 14 performance on VPGT and MERV 15 performance on VP-SGT.

< **SPECIFICATIONS**



**PURACELL VPGT MERV 14**

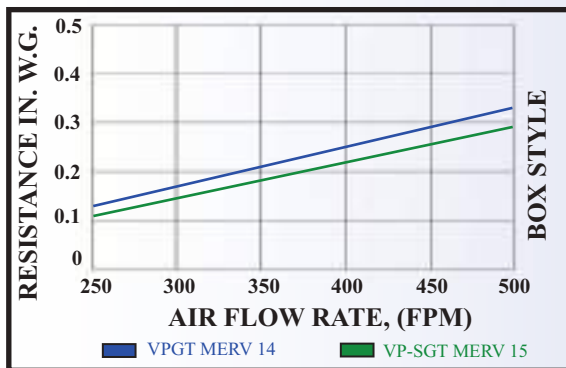
MODEL NUMBER	SIZE H x W x D NOMINAL	SIZE H x W x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	MEDIA SQUARE FEET	SIZE H x W x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
PUPH2412B3H1	24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	500	.33	85.15	610 x 305 x 305	9150	82.12
PUPH2424B3H1	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	500	.33	191.32	610 x 610 x 305	9150	82.12

**PURACELL VP-SGT MERV 15**

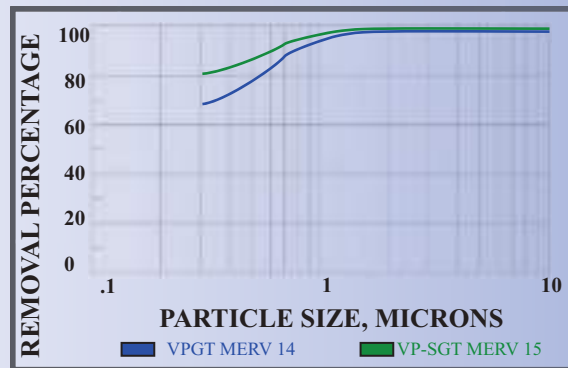
PUPSH2412B9H1	24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	500	.29	65.55	610 x 305 x 305	9150	72.16
PUPSH2424B9H1	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	500	.29	146.93	610 x 610 x 305	9150	72.16

Tolerances shall be +/- 1/16" for height, width and depth. Performance values based on ASHRAE and in-house testing methods.

**STANDARD PRESSURE DROP**  
Test Filter Size 24" x 24" x 12" Nominal

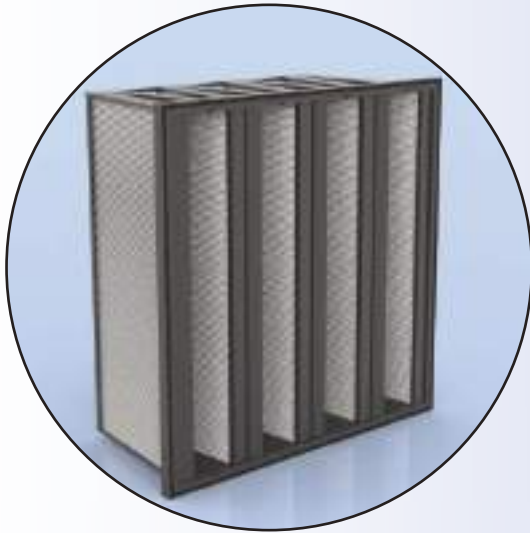


**MINIMUM PARTICLE SIZE EFFICIENCY**  
Test Filter Size 24" x 24" x 12" Nominal



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## [ PURACELL VP-GA ]

High Efficiency Gas Adsorber  
Mini-Pleat Series

- MERV 15 Performance
- 500 gsm Activated Carbon
- Low Resistance to Airflow
- High-Strength All-Plastic Frame

### FEATURES

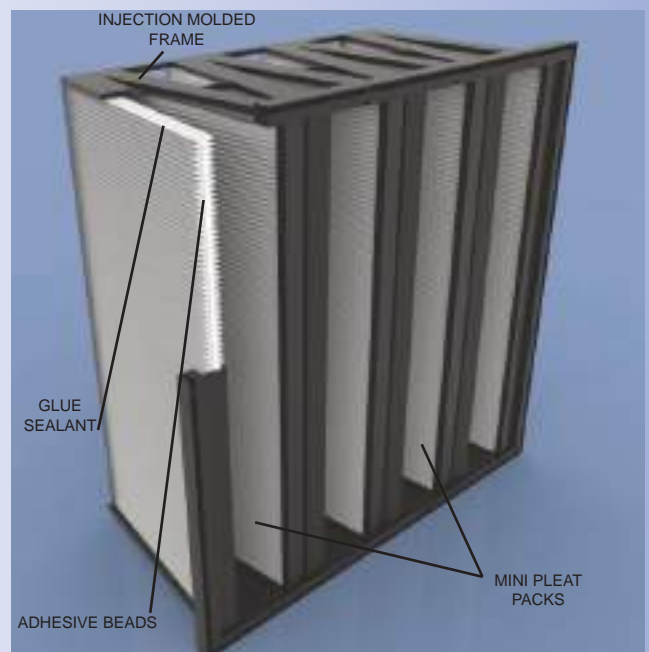


The Glasfloss Puracell VP-GA is designed for high efficiency particulate filtration applications and incorporates 500 grams per square meter of activated carbon to remove a multitude of odors and VOCs. Compact dual media design allows for convenient installation in many HVAC applications.

The Glasfloss Puracell VP-GA shall be made of high-impact strength, all plastic frame design. The media pack shall be bonded to the frame utilizing a moisture resistant adhesive for continuous seal. The multiple 4-V engineered design and precision pleating maximizes airflow and service life. The first stage particulate MERV 15 media shall be 100% synthetic fibers that do not support microbial growth. The second stage activated carbon shall incorporate 500 grams per square meter that maximizes the surface area for high removal of various odors and VOCs. A ¼"-thick closed cell neoprene gasket is optional. Maximum operating temperature up to 140 degrees Fahrenheit.



### SPECIFICATIONS

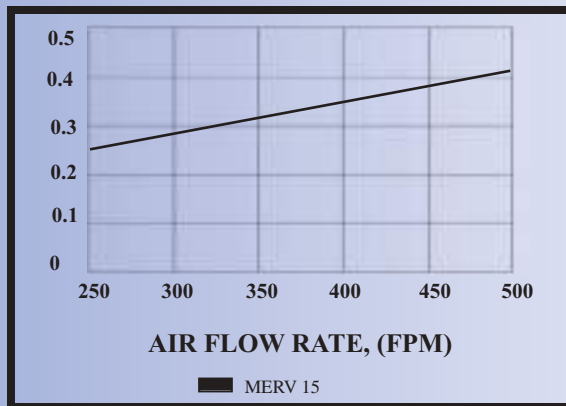


## Puracell VP-GA

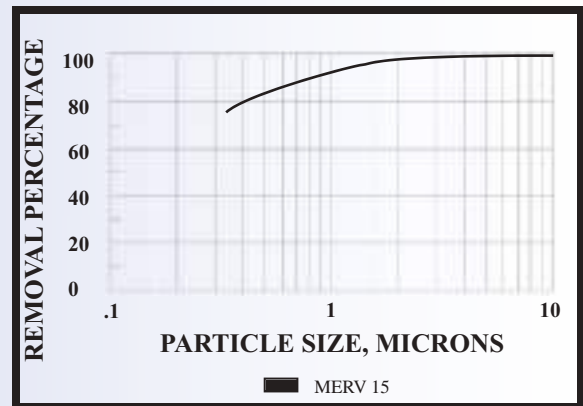
BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	MEDIA SQUARE FEET	SIZE W x H x D NOM. MM
<b>MERV 15 - 98% EFFICIENCY</b>						
2424B9	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.42	68.8	610 x 610 x 305
2420B9	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	500	.42	55.2	610 x 508 x 305
2412B9	24 x 12 x 12	23-3/8" x 11-3/8" x 11-1/2"	500	.42	30.4	610 x 305 x 305

Tolerances shall be +/- 1/16" for height and width. The frame depth shall be 11-1/2" +/- 1/8". Performance values based on ASHRAE and in-house testing methods. Recommended Final Resistance: 1.5" in w.g.

**PURACELL VP-GA**  
**STANDARD PRESSURE DROP**  
 Test Filter Size 24" x 24" x 12" Nominal



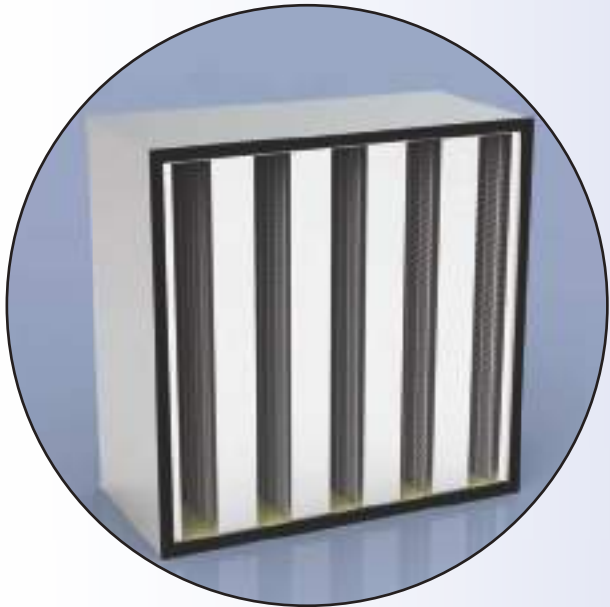
**PURACELL VP-GA**  
**MINIMUM PARTICLE SIZE EFFICIENCY**  
 Test Filter Size 24" x 24" x 12" Nominal



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**PURACELL 5V**  
Mini-Pleat Series

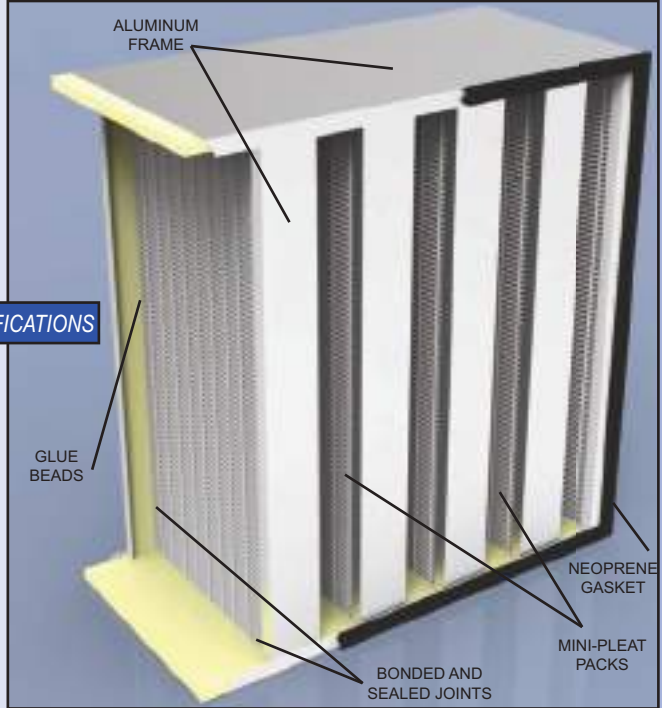
- High Capacity HEPA Grade Performance
- Low Pressure Drop & Lower Operating Costs
- Chemical Resistant Aluminum Frame
- Moisture Resistant Construction

**FEATURES** >

The Glasfloss Puracell 5V mini-pleat series offers HEPA grade performance, extremely low resistance to air flow and extended service life. The chemical resistant aluminum framework provides exceptional strength. The Glasfloss Puracell 5V mini-pleat series are produced in MERV 16 and 99.99% @ .30 micron size performance ranges and are available in exact or nominal standard sizes.

The Puracell 5V shall utilize mini-pleat packs which allow low resistance to air flow and long service life. The media shall be water resistant, inorganic, wet laid microfiber. The Puracell 5V media packs are constructed by pleating a continuous sheet of media. The pleats are separated by a uniform glue bead that maximizes the filtration area and produces low pressure drop. The media packs are resistant to moisture and do not support the growth of bacteria and mold. The media packs are completely sealed using a fire-retarding, rubber base, two-part sealant within the aluminum framework. A neoprene gasket is standard on one side for MERV 16 and 99.99% Puracell 5V. Puracell 5V 99.99% filters are tested for leaks based on a near-monodispersed .30 micron size particle. The filters shall be rated to withstand temperatures up to 180 degrees Fahrenheit. Recommended final pressure drop for the Puracell 5V is 2.0" w.g.

< **SPECIFICATIONS**



## Puracell 5V

BASE MODEL NUMBER	SIZE H x W x D NOMINAL (INCHES)	SIZE H x W x D EXACT (INCHES)	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G	MEDIA SQUARE FEET	SIZE H x W x D NOM. MM
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### MERV 16 EXACT SIZE

2424B4	24 x 24 x 12	24 x 24 x 11-1/2	600	.80	401.19	610 x 610 x 305
2420B4	24 x 20 x 12	24 x 20 x 11-1/2	600	.80	320.95	610 x 508 x 305
2412B4	24 x 12 x 12	24 x 12 x 11-1/2	600	.80	200.59	610 x 305 x 305

### UNDERSIZED

23F23FB4	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	600	.80	389.99	594 x 594 x 305
23F19FB4	24 x 20 x 12	23-3/8 x 19-3/8 x 11-1/2	600	.80	311.99	594 x 492 x 305
23F11FB4	24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	600	.80	194.99	594 x 289 x 305

### 99.99%

### EXACT SIZE

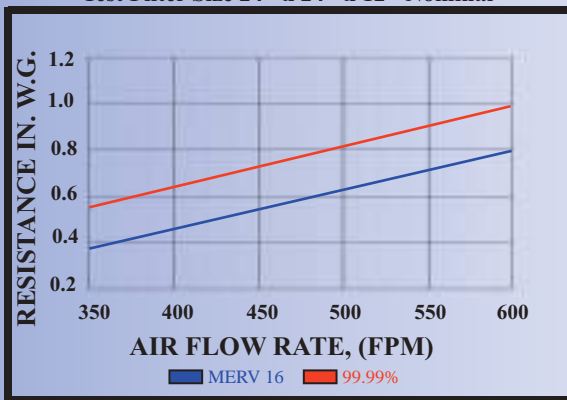
2424B6	24 x 24 x 12	24 x 24 x 11-1/2	600	1.00	401.19	610 x 610 x 305
2420B6	24 x 20 x 12	24 x 20 x 11-1/2	600	1.00	320.95	610 x 508 x 305
2412B6	24 x 12 x 12	24 x 12 x 11-1/2	600	1.00	200.59	610 x 305 x 305

### UNDERSIZED

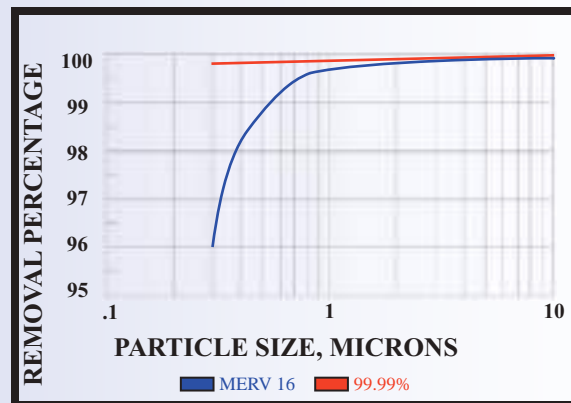
23F23FB6	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	600	1.00	389.99	594 x 594 x 305
23F19FB6	24 x 20 x 12	23-3/8 x 19-3/8 x 11-1/2	600	1.00	311.99	594 x 492 x 305
23F11FB6	24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	600	1.00	194.99	594 x 289 x 305

Tolerances shall be +/- 1/16" for height, width and depth. The frame depth shall not exceed 11-1/2". Performance values based on ASHRAE and in-house testing methods.  
Recommended final resistance: Puracell 5V @ 2.0"

### PURACELL 5V STANDARD PRESSURE DROP Test Filter Size 24" x 24" x 12" Nominal



### PURACELL 5V MINIMUM PARTICLE SIZE EFFICIENCY Test Filter Size 24" x 24" x 12" Nominal



### PART NUMBER CONFIGURATION FOR PURACELL 5V

PREFIX	FRAME STYLE	BASE PART NUMBER	GASKET LOCATION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PUV5	B = Box Style	Select The Base Part Number For Desired Size And Efficiency	O= NO GASKET <b>BOX STYLE</b> A = AIR EXIT (4) B = AIR ENTRY (4) C = AIR EXIT/ENTRY (8) D = SIDE LOAD (2)



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