

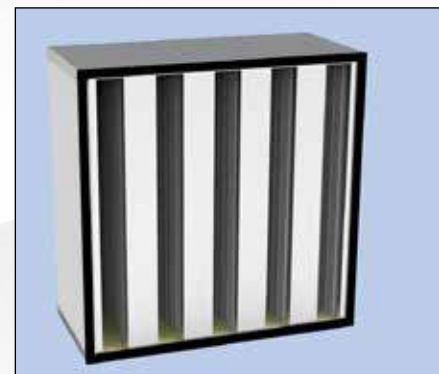
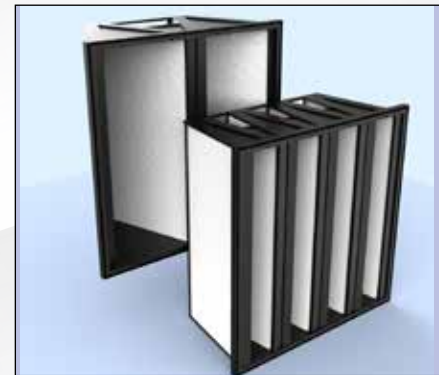
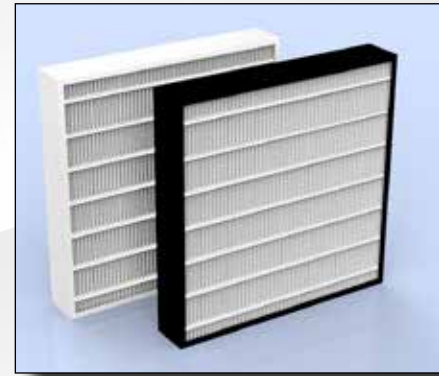
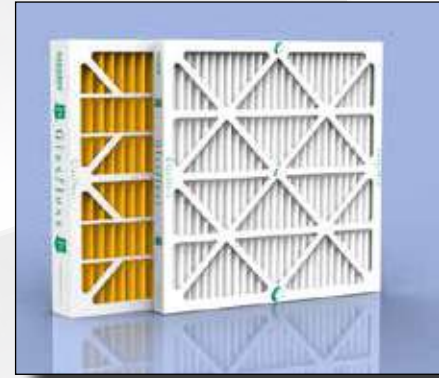


Excellence in Air Filtration Since 1936  
Employee-Owned & Operated



# Your National Source for Air Filtration

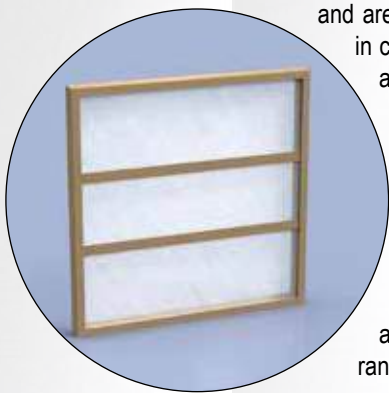
*With five manufacturing  
facilities across the U.S.  
to serve you*



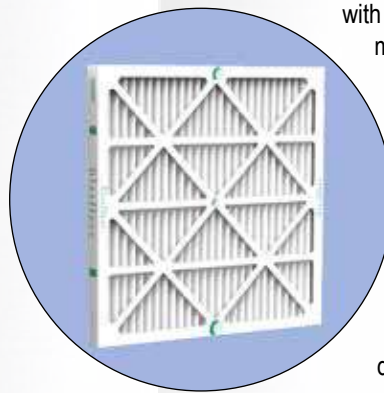
*Glasfloss® Industries - The Clear Choice Since 1936*

# Glasfloss® Industries - The Clear Choice Since 1936

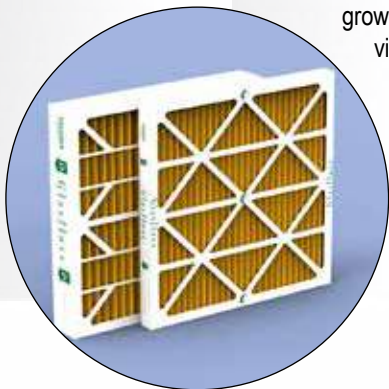
**GDS DISPOSABLE PANEL FILTERS** deliver reliable performance through an innovative reinforced “double strut” construction, and are built for durability and performance in commercial, industrial, and residential applications. This design provides 10% more open media than traditional metal grill filters, maximizing airflow and dust-holding capacity while eliminating sharp edges for safer handling, reducing shipping costs with lower weight, and making disposal easier. The filters are available in 1” and 2” depths in a wide range of standard sizes.



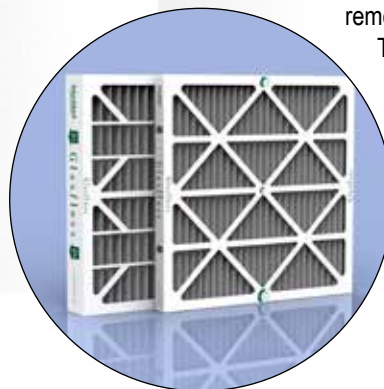
**Z-LINE® SERIES ZL & HV PLEATED FILTERS** deliver exceptional performance for virtually any application. Built with moisture-resistant fibers that inhibit microbial growth, these filters achieve a MERV 10 rating per the ANSI/ASHRAE 52.2 Test Standard. The ZL filter combines outstanding performance and value across a wide range of applications, while the HV filter is ideal in high-velocity systems where maximum media coverage is critical. ZL filters are available in 1”, 2”, 4” and 6” depths.



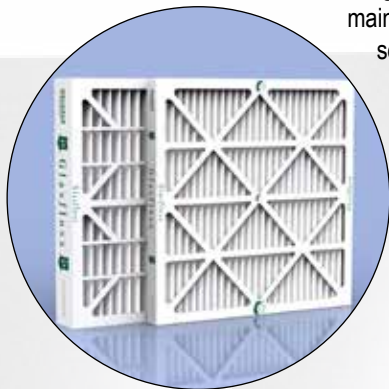
**Z-LINE® SERIES MR-11 PLEATED FILTERS** feature fibers which do not absorb moisture and will not support microbial growth, offering improved performance for virtually every application. MR-11 filters achieve a MERV 11 rating per the ANSI/ASHRAE 52.2 Test Standard and provide high performance with low pressure drop for energy efficiency. MR-11 filters are available in 1”, 2”, 4” and 6” depths.



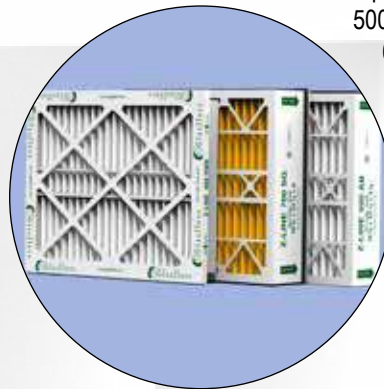
**Z-LINE® SERIES CARBOTRON® PLEATED FILTERS** combine MERV 8 particulate filtration with activated carbon odor removal in a single low-pressure drop unit. The filter uses activated carbon with millions of tiny openings to adsorb odorous gas molecules, leaving behind clean, fresh-smelling air. Available in a wide variety of sizes for direct replacement, the filter upgrades air quality with no modification required. Carbotron® filters are available in 1”, 2” and 4” depths.



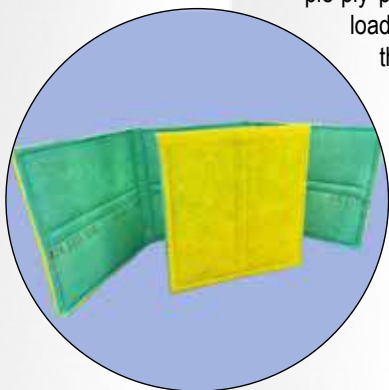
**Z-LINE® SERIES MR-13 PLEATED FILTERS** feature the latest media technology to achieve a MERV 13 rating, while maintaining low pressure drop and good service life. Engineered for “LEED” compliance in both new and existing buildings, the filter provides a cost-effective upgrade from lower efficiency pleated filters across a wide range of commercial and industrial applications. MR-13 pleated filters are available in 1”, 2”, 4” and 6” depths.



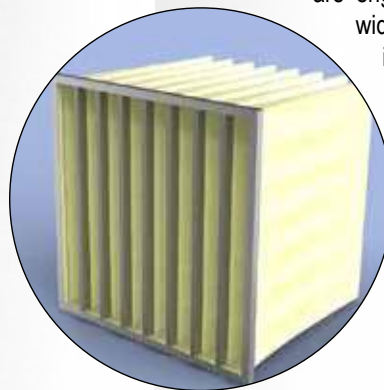
**AIR CLEANER REPLACEMENT FILTERS** offer convenient alternatives in filter replacement when necessary. The Z-Line® 500AB (Air Bear®), 700SG (Aprilaire®), 600GA (Goodman® and Amana®), 400HW (Honeywell F-100®), and HWR Series (Honeywell FC40R®) drop directly into your existing housing for effortless upgrades. Each filter is built with rigid MERV 10, 11, or 13-rated filtration media and features a metal-mesh backing to prevent sagging during operation.



**PHOENIX® POLY RINGS, LINKS & SLEEVES** feature premium multiple-ply polyester media for maximum depth-loading and service life. The media is thermally sealed around a heavy-duty internal wire frame to ensure maximum durability. Poly Ring panel filters are perfect for many filtration applications, from protecting paint booth air intakes to upgrading lower efficiency filtration systems. Available in links and sleeves, the filters deliver MERV 8 performance.

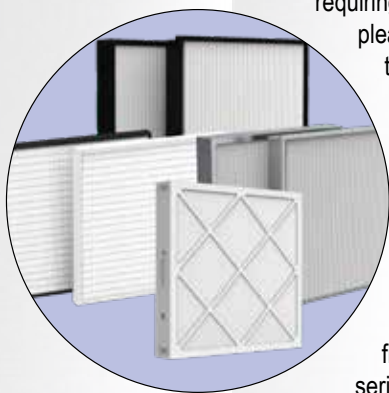


**EXCEL® & PURAPAK® MEDIUM & HIGH EFFICIENCY BAG FILTERS** are engineered to meet the demands of a wide range of applications. Each filter is rigidly constructed utilizing an exclusive internal header design that provides consistent, reliable performance. Both synthetic and fiberglass bag filters are available in a wide range of efficiencies, in standard and special sizes.

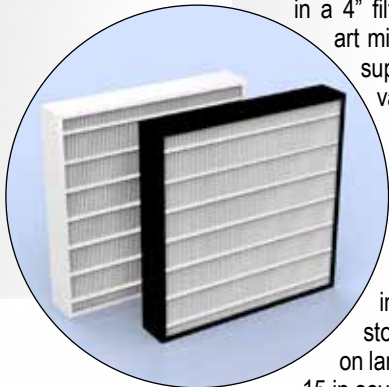


# Glasfloss® Industries - The Clear Choice Since 1936

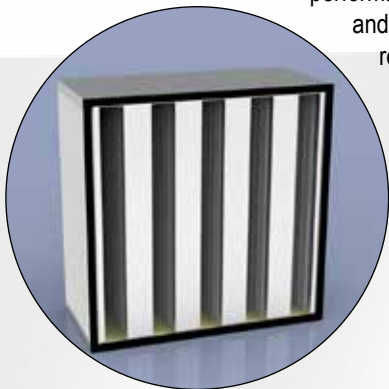
**PURACELL® II MINI-PLEAT SERIES FILTERS** are ideal for applications requiring high efficiency in a 2" and 4" mini-pleat design. These filters outperform traditional filters while delivering low cost, reduced weight, and less impact on landfills. Fiberglass media options cover MERV 11, 13, 14, and 15, while Puracell® II-S synthetic media delivers MERV 11, 13, and 15 and is available in both standard and special sizes. Puracell® II M & MH fiberglass and M-S & MH-S synthetic series filters are available when heavy-duty metal-frame construction is required.



**PURACELL® II LR 4" SYNTHETIC MINI-PLEAT SERIES FILTERS** are designed for applications where a high degree of efficiency is required in a 4" filter. The filter combines state-of-the-art mini-pleat construction techniques with superior reliability, offering maximum value to commercial and residential applications. LR filters incorporate plastic finger media separators, which reduce resistance and decrease filter weight. Additionally, the Series offers unique advantages over traditional 12" rigid box filters, including lower freight costs, reduced storage requirements, and less impact on landfills. The filters are offered in MERV 15 in several standard sizes.



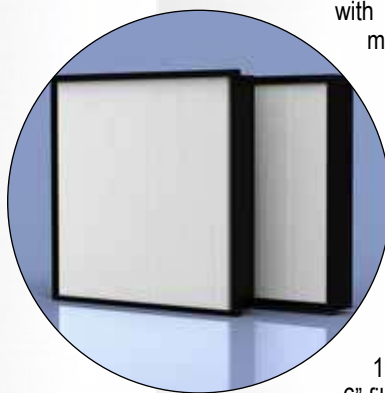
**PURACELL® 5V MINI-PLEAT SERIES FILTERS** deliver HEPA performance with ultra-low air flow resistance and extended service life. The chemically resistant aluminum framework provides exceptional strength and durability. Engineered to achieve MERV 16 and 99.99% efficiency at 0.30-micron particle size, the filters are available in exact or nominal standard sizes.



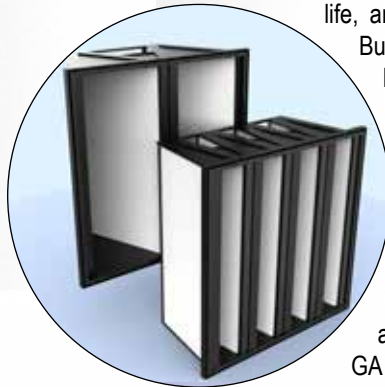
**Z-PAK® & Z-PAK® GT RIGID CELL FILTERS** are designed for medium- and high-efficiency commercial and residential applications and consistently deliver high performance ratings. The filters are available in box or header styles and come in a wide variety of sizes and efficiency ranges. Zpak® filters are ideal for variable air volume systems (VAV). For high velocity applications, including gas turbine engines and centrifugal compressors, Zpak® GT is available.



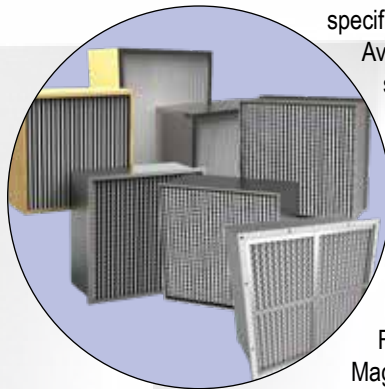
**PURACELL® II P 4" PLASTIC FRAME MINI-PLEAT SERIES FILTERS** combine state-of-the-art mini-pleat construction with outstanding reliability to deliver maximum value for commercial and residential applications that require a high degree of efficiency in a 4" filter. Compared to traditional 12" rigid box filters, the Puracell® P Series offers lower freight costs, reduced storage area requirements, and less impact on landfills. P & PH fiberglass media is available in MERV 11, 13, and 15, while P-S & PH-S synthetic media deliver MERV 11, 13 & 15 performances. Fiberglass 6" filters are also available.



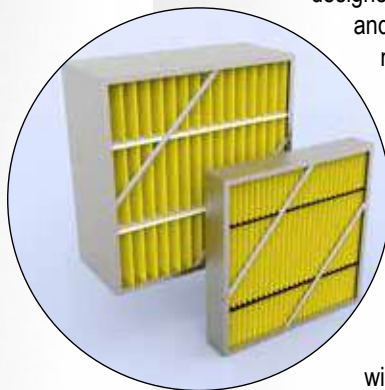
**PURACELL® VP EXTENDED SURFACE MINI-PLEAT SERIES FILTERS** offer high efficiency, extended service life, and extremely low airflow resistance. Built around a lightweight, rugged, high-impact polystyrene framework, these filters offer maximum value to commercial and residential applications. VP & VPX Series cover MERV 11, 13, 14 and 15, and VP 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. VP-GA High Efficiency Gas Adsorber filters feature activated carbon for odor control.



**MAGNA 600, 800, 900, HEPA, GT & HT SERIES RIGID CELL HIGH EFFICIENCY AND HEPA GRADE FILTERS** are engineered to meet exact specifications in high efficiency systems. Available in a wide range of efficiencies, sizes, frame types, and header combinations, the filters combine state-of-the-art construction techniques with superior reliability, offering maximum value. The Magna GT is ideal for gas turbine engines, centrifugal compressors, and other high-velocity applications. For high-temperature applications, Magna HT filters are available.



**Z-PAK® HC SERIES HIGH CAPACITY RIGID CELL FILTERS** are designed for high-efficiency applications and feature dual individual filtration media layers that provide very low initial pressure drop and high dust-holding capacity for superior service life. The Zpak® HC's total rigid construction makes it ideal for variable air volume (VAV) systems, where changes in airflow can adversely affect non-rigid filters. The filters are designed to handle high airflow and are available with MERV 14 performance.

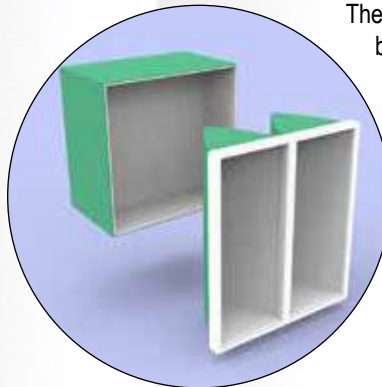


# Glasfloss® Industries - The Clear Choice Since 1936

**BULK MEDIA & PRE-CUT PADS** include a variety of pre-cut pads and bulk media in either fiberglass or 100% non-woven polyester grades, and 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 use. Service rolls are also available, packaged in an easy-to-use cardboard dispenser box.



**QUAD & CUBE POLYESTER FILTERS** offer medium efficiency performance for a wide range of applications. Their rigid, self-seal design prevents air bypass and allows the filters to operate under adverse conditions, especially high-humidity environments. Cube and Quad 440 filters feature a two-stage media design for maximum efficiency and service life, while Quad 420 filters feature a single-stage media and are less restrictive to airflow.



## Over 90 Years of Excellence

Glasfloss® Industries is proud to be the oldest American-owned and operated manufacturer of HVAC filters. Since its establishment in 1936, Glasfloss® has grown from a small special-size air filter fabricator in New York City into a full-line manufacturer with plants strategically located throughout the United States. After more than 90 years serving the air filtration industry, Glasfloss® has earned a worldwide reputation for quality products that deliver reliable performance and superior value. Our unique ability to work with customers on special product needs and custom

requests is the direct result of over 9 decades of manufacturing expertise and our continuing commitment to research and development. In 2023, Glasfloss® became employee-owned and operated. Today, with new technologies and expanding production capabilities, Glasfloss® continues to lead the 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.



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

Bulletin No: GBR-2026





## Product Highlights

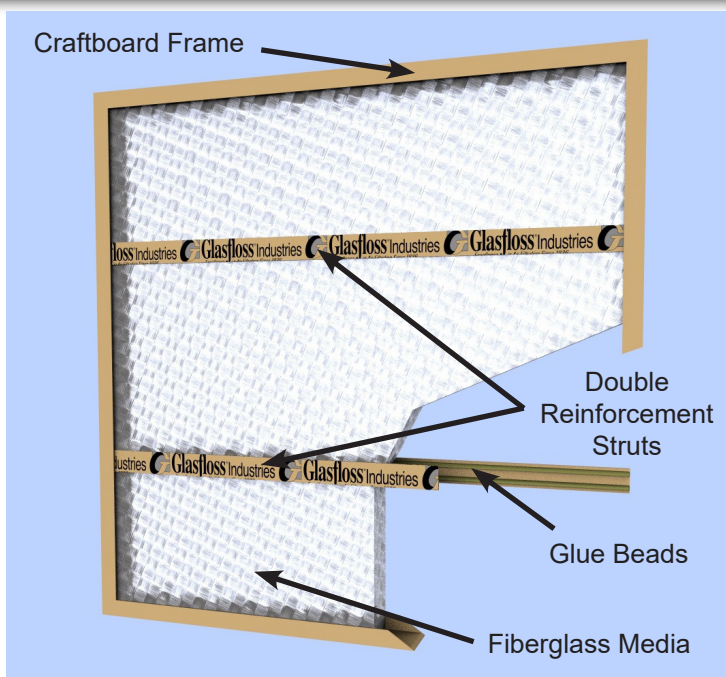
- Progressively Dense Heavy Duty Media
- Heavy Duty One Piece Box Frame Construction
- Thermally Bonded

## 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.

## Specifications

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.



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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.

## 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 FEET	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
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.

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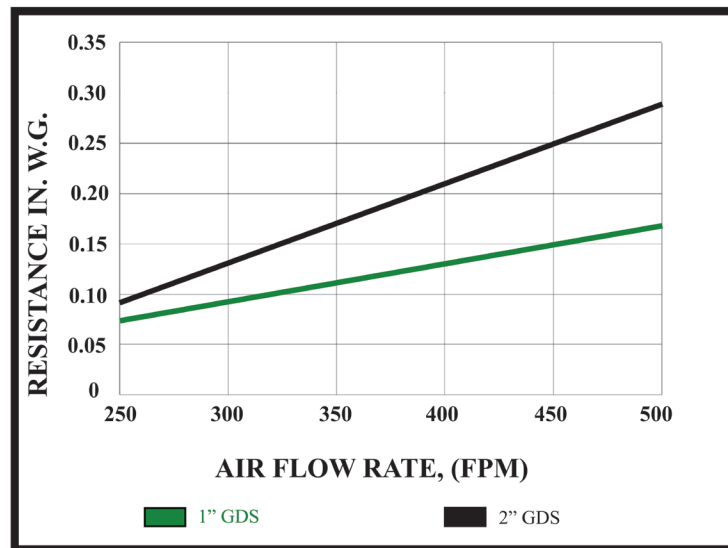
## 2" Performance Data

SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	MEDIA SQUARE FEET	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	615 x 615 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



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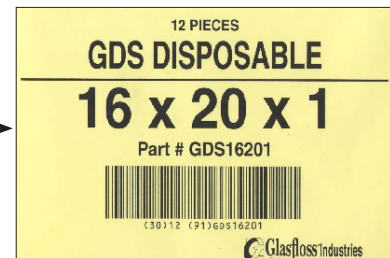
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## GDS Series Features

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.



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## Product Highlights

- 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 HL-8	White White	1" 2"	Non-Woven Polyester	- -	- -
125-4P 125-7P	Blue/White Blue/White	5/8" 1"	Non-Woven Polyester	Moderate Moderate	- -
P5T P10T P20T	Green/White Orange/White Orange/White	1/2" 1" 2"	Multi-ply Polyester Multi-ply Polyester Multi-ply Polyester	Moderate Moderate Moderate	- - -
Hoghair	Blue	1"	Synthetic Fibers	-	-

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PRODUCT BULLETIN 2 PD/BK · SECTION 2 · 8/1/24

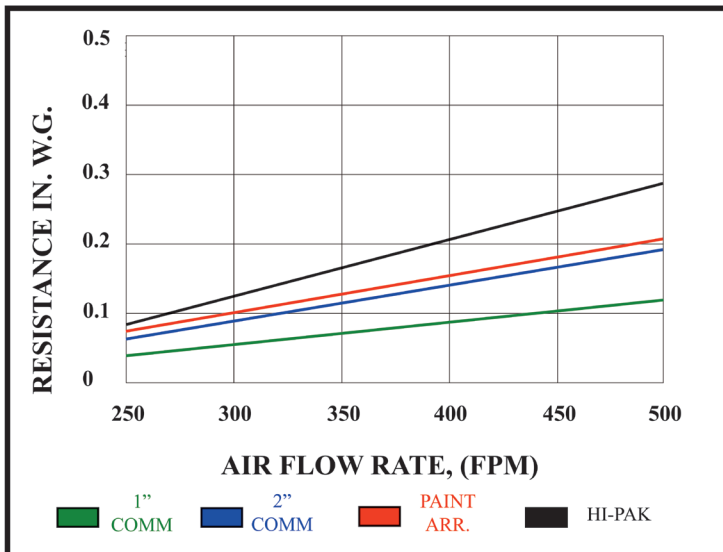
## Pads and Bulk Media Specifications

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>

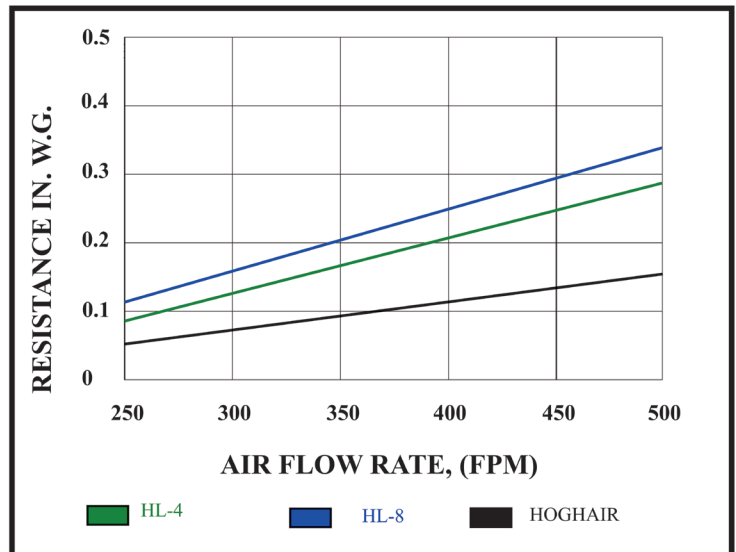
### STANDARD PRESSURE DROP

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

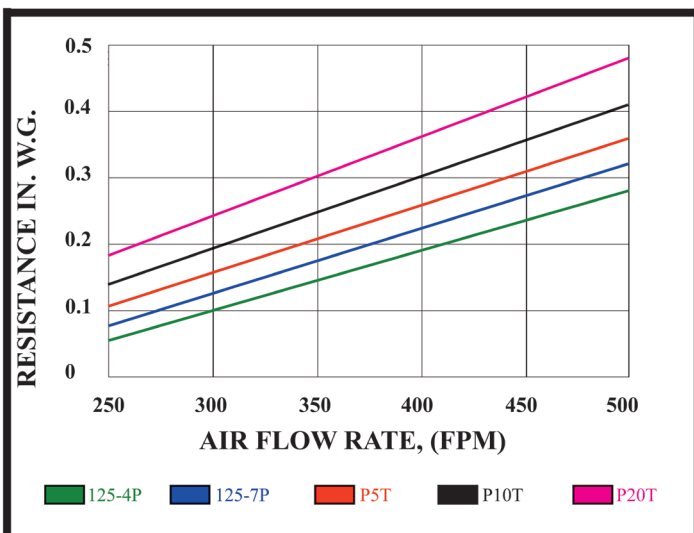
- 100% Non-woven Polyester
- 1" Nominal Thickness
- Fire Retarding Bonding Agent
- Dual Denier Fiber Configuration
- Dual Layer Filtration Stages
- Non-toxic, Non-migratory Adhesive Second Stage
- Heavy Dust Holding Capacity
- 92% Average Arrestance Efficiency
- White on Air Entering Side
- U.L. Classified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

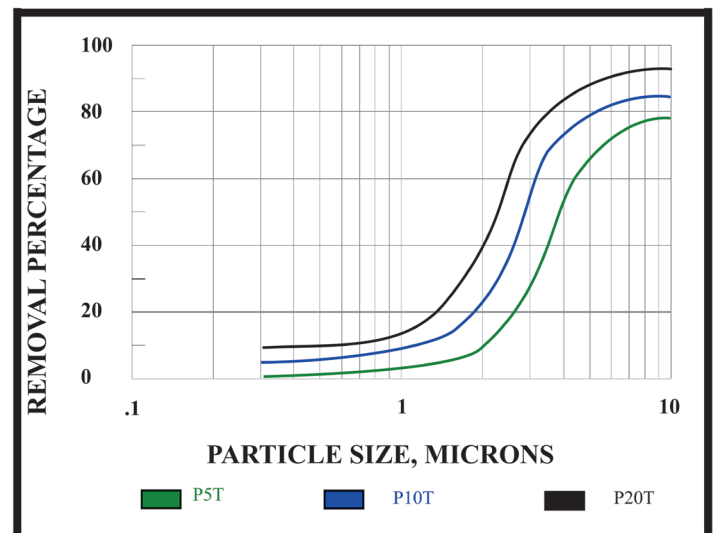
### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" Nominal



### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" Nominal



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## 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 arrester 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.



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## Product Highlights

- 100% Non-Woven Polyester
- Scrim Backing
- Heavy-Duty Paper Leader and Trailer

## Features

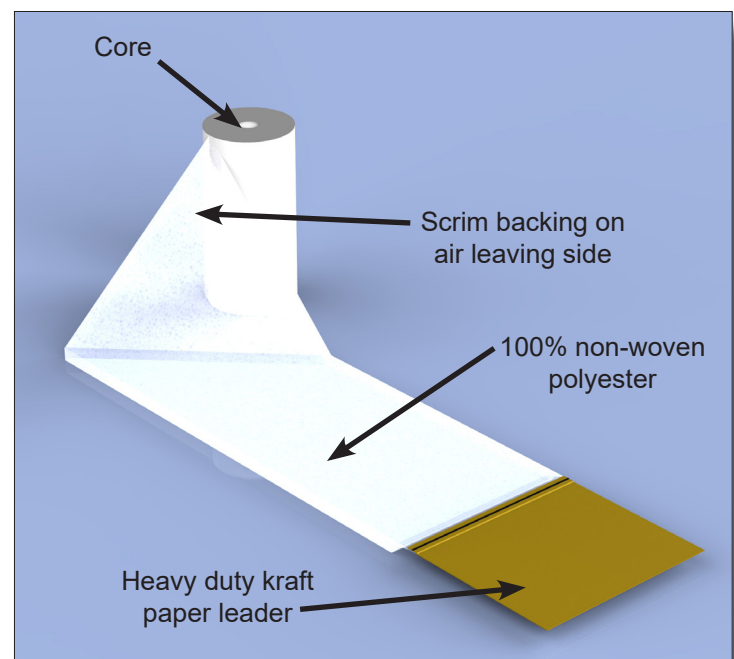
Glasfloss® manufactures a complete line of roll filters for automatic roll machines. Glasfloss® Automatic Roll Filters are designed to replace the original equipment filter with no modification. Glasfloss® Automatic Roll Filters are available in polyester media in most standard widths.

## Applications

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.

## 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 100% non-woven polyester media. For added strength, the 100% non-woven polyester 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.



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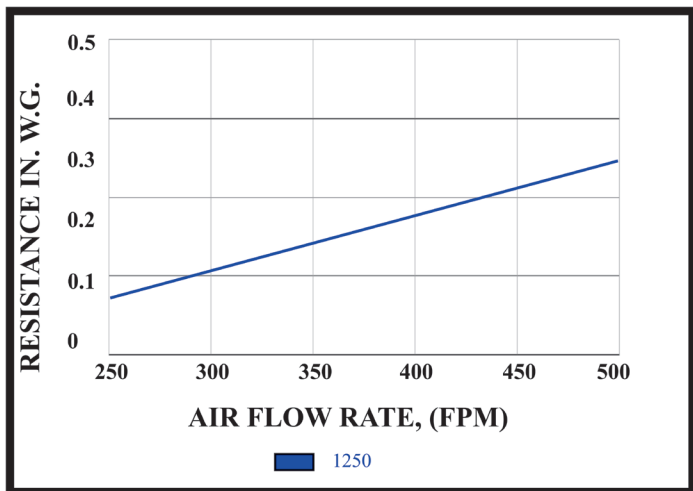
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## Polyester Specifications

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, and 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.

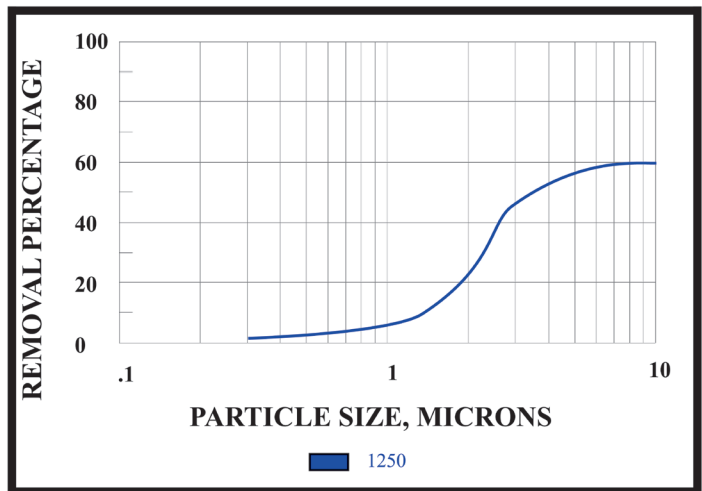
### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" Nominal







### MINIMUM PARTICLE SIZE EFFICIENCY



Test Filter Size 24" x 24" Nominal



## Automatic Roll Filter Core Identification Guide

	Type AA core is 3/4" metal pipe. Core ends are 15/16" and approximately 13/16" with end disks of 11" diameter on both ends.		<u>Roll Width</u>	<u>*Model</u>		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>	<u>*Model</u>
<b>American Air</b> Roll-O-Matic Kennard Herman- Nelson = 8" end plates Electro-Air			20-1/4"	21AA	<b>Farr</b> Automatic Manual		8-3/4"	09FA	
			22-1/4"	22AA		14-3/4"	15FA		
			24-3/4"	25AA		20-3/4"	21FA		
			31-7/8"	32AA		26-3/4"	27FA		
			32-3/4"	03AA		32-3/4"	03FA		
			38-1/2"	39AA		38-3/4"	39FA		
			39-7/8"	40AA		44-3/4"	04FA		
			44-3/4"	04AA		50-3/4"	51FA		
		56-3/4"	05AA	56-3/4"	05FA				
		68-7/8"	06AA	68-3/4"	06FA				
Glasfloss ID Code <b>AA</b>					Glasfloss ID Code <b>FA</b>				

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

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

## Glasfloss Automatic Roll Filter Ordering Code

Example:

ARP - 05 AA

Glasfloss 1250 Series Auto Roll

Core Type

Core Width



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.



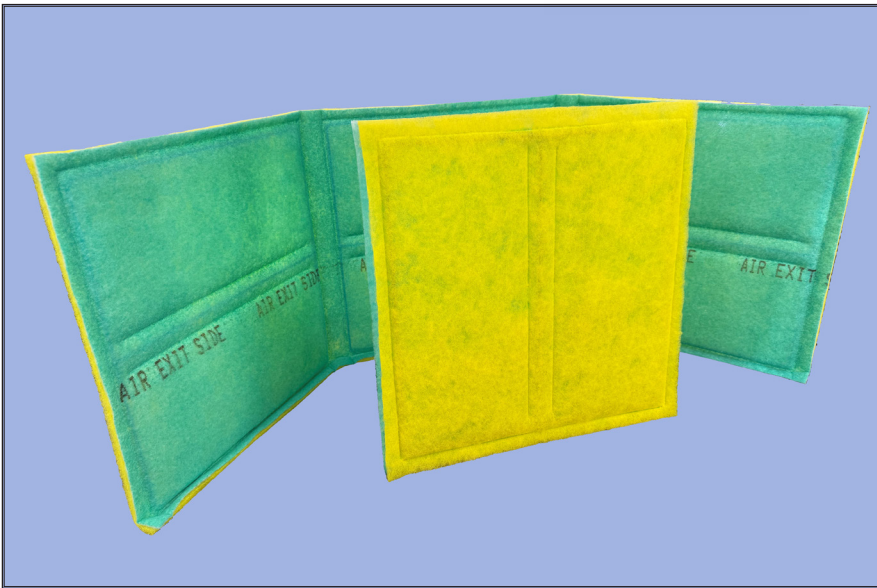
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### Product Highlights

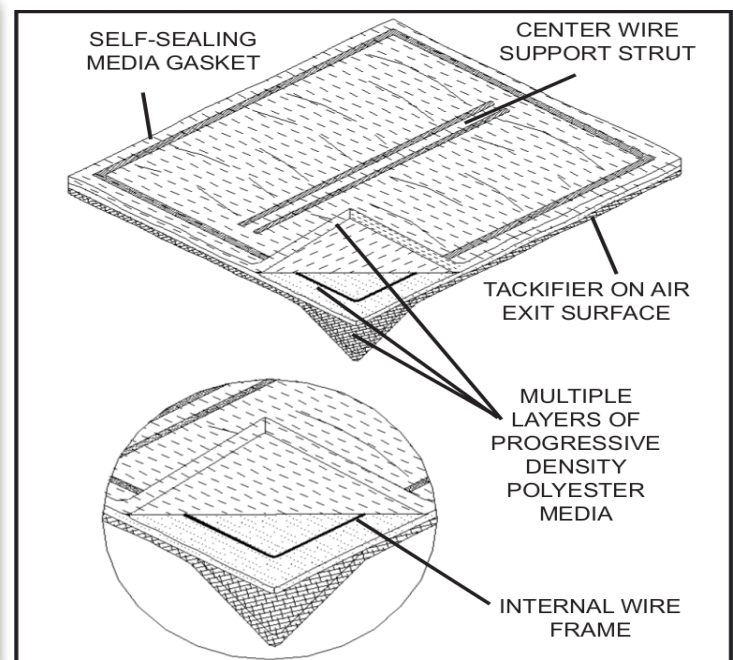
- Available in Rings, Sleeves and Links
- 100% Non-woven Polyester Media
- Multiple Layers of Progressively Dense Media Fibers
- Internal Wire Frame Structure
- Self-Sealing Media Gasket

### 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.

### Specifications

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.



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PRODUCT BULLETIN 4PHX · SECTION 4 · 8/1/25

### 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	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
PRP1224-5	12x24x1/2	11-3/8 x 23-3/8 x 1/2	300	0.13	2.00	305 x 610 x 13	5490	32.34
PRP1520-5	15x20x1/2	14-3/8 x 19-3/8 x 1/2	300	0.13	2.08	381 x 508 x 13	5490	32.34
PRP1620-5	16x20x1/2	15-3/8 x 19-3/8 x 1/2	300	0.13	2.22	406 x 508 x 13	5490	32.34
PRP1624-5	16x24x1/2	15-3/8 x 23-3/8 x 1/2	300	0.13	2.67	406 x 610 x 13	5490	32.34
PRP1625-5	16x25x1/2	15-3/8 x 24-3/8 x 1/2	300	0.13	2.77	406 x 635 x 13	5490	32.34
PRP1824-5	18x24x1/2	17-3/8 x 23-3/8 x 1/2	300	0.13	3.00	457 x 610 x 13	5490	32.34
PRP2020-5	20x20x1/2	19-3/8 x 19-3/8 x 1/2	300	0.13	2.77	508 x 508 x 13	5490	32.34
PRP2024-5	20x24x1/2	19-3/8 x 23-3/8 x 1/2	300	0.13	3.33	508 x 610 x 13	5490	32.34
PRP2025-5	20x25x1/2	19-3/8 x 24-3/8 x 1/2	300	0.13	3.47	508 x 635 x 13	5490	32.34
PRP2424-5	24x24x1/2	23-3/8 x 23-3/8 x 1/2	300	0.13	4.00	610 x 610 x 13	5490	32.34
PRP2525-5	25x25x1/2	24-3/8 x 24-3/8 x 1/2	300	0.13	4.34	635 x 635 x 13	5490	32.34

### Phoenix Series: PR-10

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	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
PRP1224-10	12x24x1	11-3/8 x 23-3/8 x 7/8	300	0.20	2.00	305 x 610 x 25	5490	42.29
PRP1520-10	15x20x1	14-3/8 x 19-3/8 x 7/8	300	0.20	2.08	381 x 508 x 25	5490	42.29
PRP1620-10	16x20x1	15-3/8 x 19-3/8 x 7/8	300	0.20	2.22	406 x 508 x 25	5490	42.29
PRP1624-10	16x24x1	15-3/8 x 23-3/8 x 7/8	300	0.20	2.67	406 x 610 x 25	5490	42.29
PRP1625-10	16x25x1	15-3/8 x 24-3/8 x 7/8	300	0.20	2.77	406 x 635 x 25	5490	42.29
PRP1824-10	18x24x1	17-3/8 x 23-3/8 x 7/8	300	0.20	3.00	457 x 610 x 25	5490	42.29
PRP2020-10	20x20x1	19-3/8 x 19-3/8 x 7/8	300	0.20	2.77	508 x 508 x 25	5490	42.29
PRP2024-10	20x24x1	19-3/8 x 23-3/8 x 7/8	300	0.20	3.33	508 x 610 x 25	5490	42.29
PRP2025-10	20x25x1	19-3/8 x 24-3/8 x 7/8	300	0.20	3.47	508 x 635 x 25	5490	42.29
PRP2424-10	24x24x1	23-3/8 x 23-3/8 x 7/8	300	0.20	4.00	610 x 610 x 25	5490	42.29
PRP2525-10	25x25x1	24-3/8 x 24-3/8 x 7/8	300	0.20	4.34	635 x 635 x 25	5490	42.29

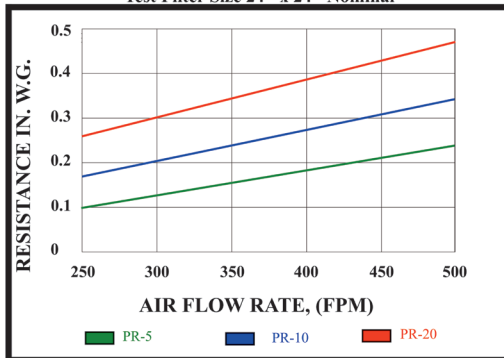
### Phoenix Series: PR-20

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	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
PRP1224-20	12x24x2	11-3/8 x 23-3/8 x 1-3/4	300	0.30	2.00	305 x 610 x 51	5490	74.64
PRP1520-20	15x20x2	14-3/8 x 19-3/8 x 1-3/4	300	0.30	2.08	381 x 508 x 51	5490	74.64
PRP1620-20	16x20x2	15-3/8 x 19-3/8 x 1-3/4	300	0.30	2.22	406 x 508 x 51	5490	74.64
PRP1624-20	16x24x2	15-3/8 x 23-3/8 x 1-3/4	300	0.30	2.67	406 x 610 x 51	5490	74.64
PRP1625-20	16x25x2	15-3/8 x 24-3/8 x 1-3/4	300	0.30	2.77	406 x 635 x 51	5490	74.64
PRP1824-20	18x24x2	17-3/8 x 23-3/8 x 1-3/4	300	0.30	3.00	457 x 610 x 51	5490	74.64
PRP2020-20	20x20x2	19-3/8 x 19-3/8 x 1-3/4	300	0.30	2.77	508 x 508 x 51	5490	74.64
PRP2024-20	20x24x2	19-3/8 x 23-3/8 x 1-3/4	300	0.30	3.33	508 x 610 x 51	5490	74.64
PRP2025-20	20x25x2	19-3/8 x 24-3/8 x 1-3/4	300	0.30	3.47	508 x 635 x 51	5490	74.64
PRP2424-20	24x24x2	23-3/8 x 23-3/8 x 1-3/4	300	0.30	4.00	610 x 610 x 51	5490	74.64
PRP2525-20	25x25x2	24-3/8 x 24-3/8 x 1-3/4	300	0.30	4.34	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"

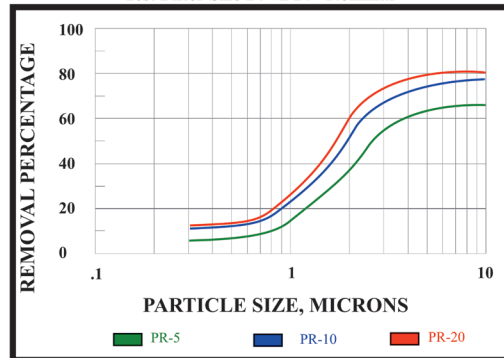
#### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" Nominal



#### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" Nominal



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## 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 bypass.

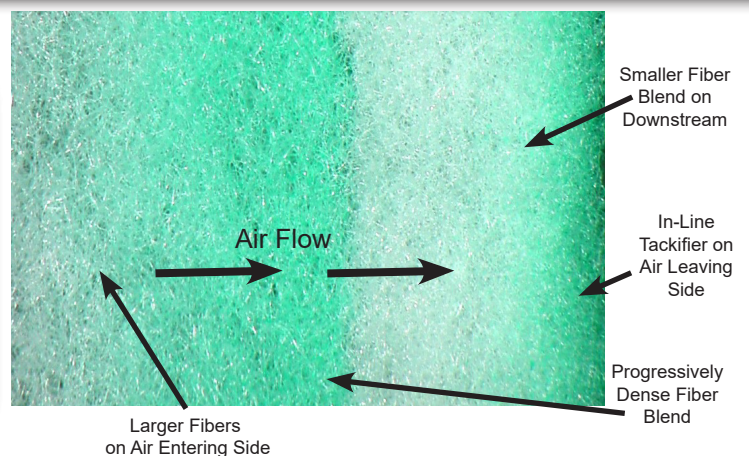
### PR-10

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 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.



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## 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 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.

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### Product Highlights

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

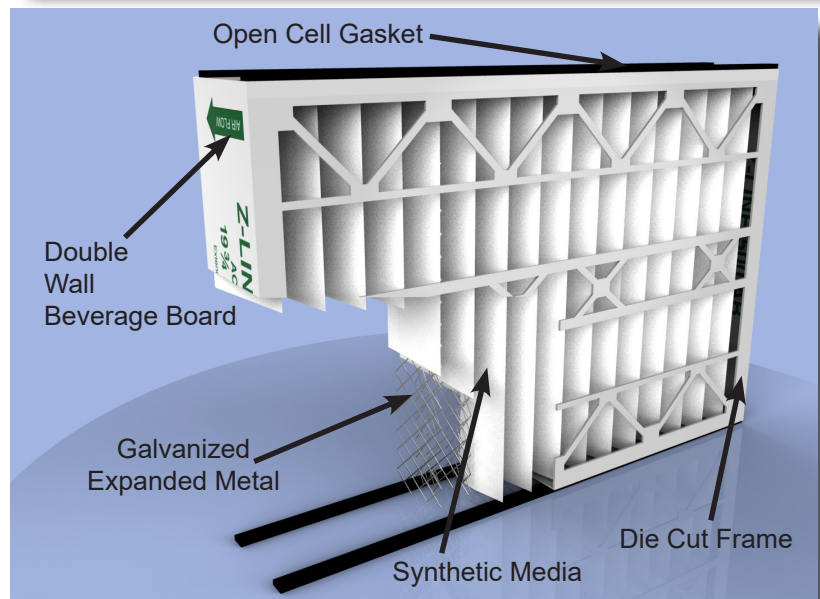
### Specifications

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.

### 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® (formerly Space-Gard®) 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® and Amana® whole-house high efficiency media air cleaners.
- The Z-Line® 500 AB and 300 AB filters are replacement options for the Trion Air Bear® and Air Cub® filters.
- The Z-Line® 400 HW is a filter replacement option for the Honeywell® F-100 cartridge filters.
- The Z-Line® 400 HWR is a filter replacement option for the Honeywell® F-40R cartridge filters.



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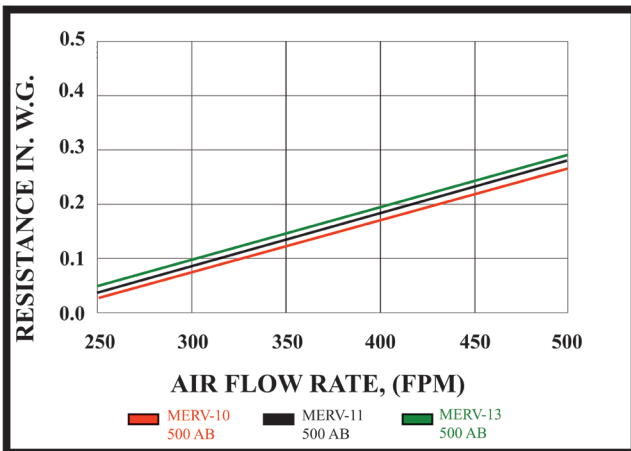
PRODUCT BULLETIN 5ACLNR · SECTION 5 · 3/10/26

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	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
<b>Z-Line® 700 SG</b>												
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	-	-
<b>Z-Line® 600 GA</b>												
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
<b>Z-Line® 500 AB &amp; 300AB</b>												
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 3	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	-	-
<b>Z-Line® 400 HW</b>												
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	.14	.09	.11	19.55	508 x 635 x 102	5490	19.9	22.4	27.4
<b>Z-Line® 400 HWR</b>												
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

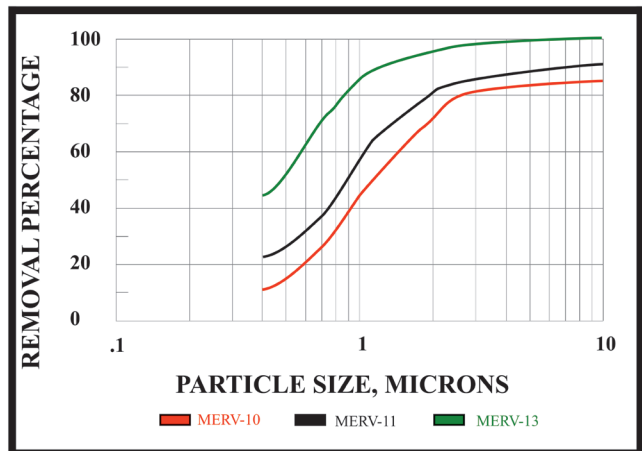
AC = Activated Carbon

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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## 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. Preapplied gasketing on the assembled filters helps prevent air bypass.

Installation is quick:

- Simply remove the internal plastic frame from the external metal housing and remove the dirty filter and its components.
- 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.

## Z-Line® 600 GA (Goodman® & Amana®)

As a 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.

## 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.

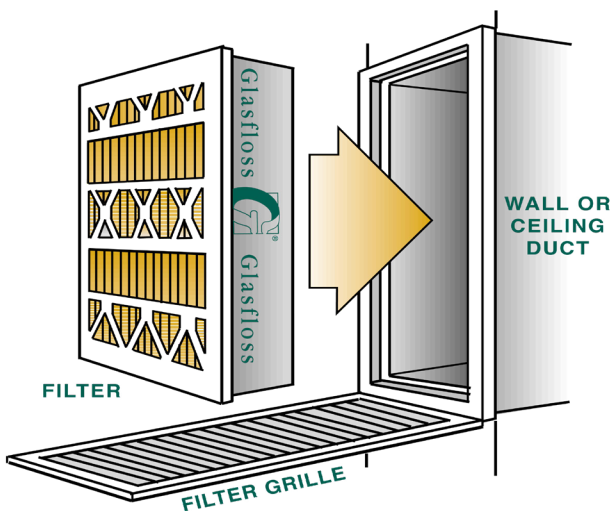
Air Bear® and Air Cub® are registered trademarks of Trion® Inc.

## 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.

**Glasfloss HWR Filter (Wall or Ceiling Mounted)**  
Requires a Minimum 3 7/8" Duct Depth Opening to Accept This Filter.



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

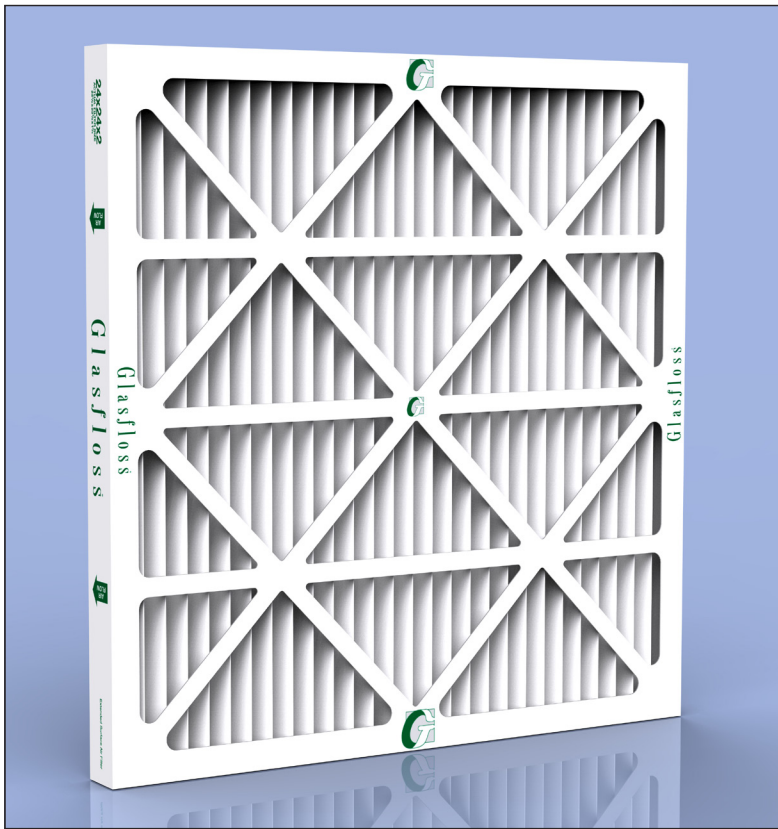
Glasfloss Industries incorporates color-coded carton labels on standard sizes to help identify the product which enhances warehouse operations and shipments.



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### Product Highlights

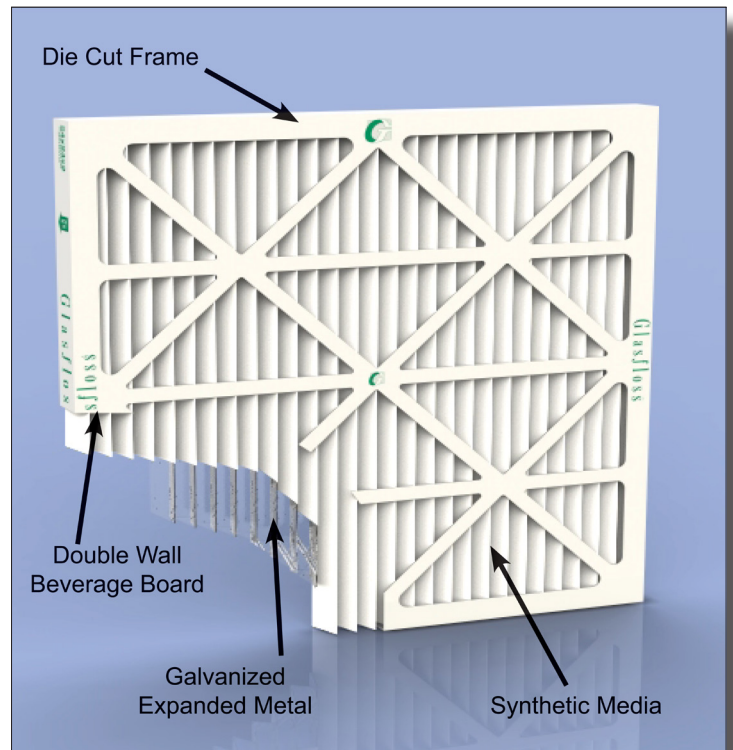
- MERV 10
- Heavy-Duty Moisture Resistant Construction
- Galvanized Expanded Metal Backing
- Standard Size 4" Thick
- Incorporate Media Separators

### Features

The Glasfloss® Z-Line® ZL Series pleated filters offer improved performance for virtually every application. All Z-Line® ZL pleated filters feature fibers which do not absorb moisture and will not support microbial growth. The ZL series offers excellent performance and value for a wide range of applications.

### Specifications

Glasfloss Z-Line® Series ZL 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 ZL 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 filters achieve a MERV 10 rating per the ANSI/ASHRAE 52.2 Test Standard.



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PRODUCT BULLETIN 6ZLINEZL · SECTION 6 · 3/10/26

## ZL 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 FOOT	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	.20	1.48	254 x 254 x 26	5490	49.8
10 x 20 x 1	9-1/2 x 19-1/2 x 7/8	300	.20	2.47	254 x 508 x 26	5490	49.8
10 x 24 x 1	9-1/2 x 23-1/2 x 7/8	300	.20	2.97	254 x 610 x 26	5490	49.8
10 x 30 x 1	9-5/8 x 29-5/8 x 7/8	300	.20	4.33	254 x 762 x 26	5490	49.8
12 x 12 x 1	11-1/2 x 11 1/2 x 7/8	300	.20	1.80	305 x 305 x 26	5490	49.8
12 x 20 x 1	11-1/2 x 19-1/2 x 7/8	300	.20	2.88	305 x 508 x 26	5490	49.8
12 x 24 x 1	11-3/8 x 23-3/8 x 7/8	300	.20	3.46	305 x 610 x 26	5490	49.8
12 x 25 x 1	11-1/2 x 24-1/2 x 7/8	300	.20	4.13	305 x 635 x 26	5490	49.8
12 x 30 x 1	11-5/8 x 29-1/2 x 7/8	300	.20	4.51	305 x 762 x 26	5490	49.8
14 x 14 x 1	13-1/2 x 13-1/2 x 7/8	300	.20	2.62	356 x 356 x 26	5490	49.8
14 x 20 x 1	13-1/2 x 19-1/2 x 7/8	300	.20	3.29	356 x 508 x 26	5490	49.8
14 x 24 x 1	13 1/2 x 23 1/2 x 7/8	300	.20	3.96	356 x 610 x 26	5490	49.8
14 x 25 x 1	13-1/2 x 24-1/2 x 7/8	300	.20	4.13	356 x 635 x 26	5490	49.8
14 x 30 x 1	13 5/8 x 29 5/8 x 7/8	300	.20	5.74	356 x 762 x 26	5490	49.8
15 x 20 x 1	14-1/2 x 19-1/2 x 7/8	300	.20	3.70	381 x 508 x 26	5490	49.8
15 x 30-5/8 x 1	14-5/8 x 30-1/4 x 7/8	300	.20	9.28	381 x 777 x 26	5490	49.8
16 x 16 x 1	15-1/2 x 15-1/2 x 7/8	300	.20	3.12	406 x 406 x 26	5490	49.8
16 x 20 x 1	15-1/2 x 19-1/2 x 7/8	300	.20	3.91	406 x 508 x 26	5490	49.8
16 x 24 x 1	15-1/2 x 23-1/2 x 7/8	300	.20	4.70	406 x 610 x 26	5490	49.8
16 x 25 x 1	15-1/2 x 24-1/2 x 7/8	300	.20	4.90	406 x 635 x 26	5490	49.8
16 x 30 x 1	15-5/8 x 29-5/8 x 7/8	300	.20	5.83	406 x 762 x 26	5490	49.8
18 x 18 x 1	17-1/2 x 17-1/2 x 7/8	300	.20	3.88	457 x 457 x 26	5490	49.8
18 x 20 x 1	17-1/2 x 19-1/2 x 7/8	300	.20	4.32	457 x 508 x 26	5490	49.8
18 x 24 x 1	17-1/2 x 23-1/2 x 7/8	300	.20	5.20	457 x 610 x 26	5490	49.8
18 x 25 x 1	17-1/2 x 24-1/2 x 7/8	300	.20	5.41	457 x 635 x 26	5490	49.8
18 x 30 x 1	17-5/8 x 29-5/8 x 7/8	300	.20	7.20	457 x 762 x 26	5490	49.8
20 x 20 x 1	19-1/2 x 19-1/2 x 7/8	300	.20	4.73	508 x 508 x 26	5490	49.8
20 x 22 x 1	19-1/2 x 21-7/8 x 7/8	300	.20	5.24	508 x 558 x 26	5490	49.8
20 x 24 x 1	19-3/8 x 23-3/8 x 7/8	300	.20	5.69	508 x 610 x 26	5490	49.8
20 x 25 x 1	19-1/2 x 24-1/2 x 7/8	300	.20	5.93	508 x 635 x 26	5490	49.8
20 x 30 x 1	19-5/8 x 29-5/8 x 7/8	300	.20	7.20	508 x 762 x 26	5490	49.8
22 x 22 x 1	21-1/2 x 21-1/2 x 7/8	300	.20	6.43	558 x 558 x 26	5490	49.8
24 x 24 x 1	23-3/8 x 23-3/8 x 7/8	300	.20	6.93	610 x 610 x 26	5490	49.8
24 x 30 x 1	23-5/8 x 29-5/8 x 7/8	300	.20	8.66	610 x 762 x 26	5490	49.8
25 x 25 x 1	24-1/2 x 24-1/2 x 7/8	300	.20	7.48	635 x 635 x 26	5490	49.8
10 x 20 x 2	9-1/2 x 19-1/2 x 1-3/4	500	.29	3.84	254 x 508 x 51	9150	72.2
12 x 12 x 2	11-1/2 x 11-1/2 x 1-3/4	500	.29	2.89	305 x 305 x 51	9150	72.2
12 x 20 x 2	11-1/2 x 19-1/2 x 1-3/4	500	.29	4.80	305 x 508 x 51	9150	72.2
12 x 24 x 2	11-3/8 x 23-3/8 x 1-3/4	500	.29	5.77	305 x 610 x 51	9150	72.2
14 x 20 x 2	13-1/2 x 19-1/2 x 1-3/4	500	.29	5.76	356 x 508 x 51	9150	72.2
14 x 25 x 2	13-1/2 x 24-1/2 x 1-3/4	500	.29	7.22	356 x 635 x 51	9150	72.2
15 x 20 x 2	14-1/2 x 19-1/2 x 1-3/4	500	.29	6.24	381 x 508 x 51	9150	72.2
16 x 16 x 2	15-1/2 x 15-1/2 x 1-3/4	500	.29	4.98	406 x 406 x 51	9150	72.2
16 x 20 x 2	15-1/2 x 19-1/2 x 1-3/4	500	.29	6.24	406 x 508 x 51	9150	72.2
16 x 24 x 2	15-1/2 x 23-1/2 x 1-3/4	500	.29	7.50	406 x 610 x 51	9150	72.2
16 x 25 x 2	15-1/2 x 24-1/2 x 1-3/4	500	.29	7.82	406 x 635 x 51	9150	72.2
18 x 18 x 2	17-1/2 x 17-1/2 x 1-3/4	500	.29	6.47	457 x 457 x 51	9150	72.2
18 x 20 x 2	17-1/2 x 19-1/2 x 1-3/4	500	.29	7.20	457 x 508 x 51	9150	72.2
18 x 24 x 2	17-1/2 x 23-1/2 x 1-3/4	500	.29	8.66	457 x 610 x 51	9150	72.2
18 x 25 x 2	17-1/2 x 24-1/2 x 1-3/4	500	.29	9.02	457 x 635 x 51	9150	72.2
20 x 20 x 2	19-1/2 x 19-1/2 x 1-3/4	500	.29	8.16	508 x 508 x 51	9150	72.2
20 x 24 x 2	19-3/8 x 23-3/8 x 1-3/4	500	.29	9.81	508 x 610 x 51	9150	72.2
20 x 25 x 2	19-1/2 x 24-1/2 x 1-3/4	500	.29	10.23	508 x 635 x 51	9150	72.2
20 x 30 x 2	19-5/8 x 29-5/8 x 1-3/4	500	.29	12.00	508 x 762 x 51	9150	72.2
24 x 24 x 2	23-3/8 x 23-3/8 x 1-3/4	500	.29	11.55	610 x 610 x 51	9150	72.2
25 x 25 x 2	24-1/2 x 24-1/2 x 1-3/4	500	.29	12.63	635 x 635 x 51	9150	72.2

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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## ZL 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 FOOT	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	.24	11.13	457 x 610 x 102	9150	59.7
16 x 20 x 4	15-1/2 x 19-1/2 x 3-3/4	500	.24	12.34	406 x 508 x 102	9150	59.7
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	15.47	406 x 635 x 102	9150	59.7
18 x 24 x 4	17-1/2 x 23-1/2 x 3-3/4	500	.24	17.32	457 x 610 x 102	9150	59.7
20 x 20 x 4	19-1/2 x 19-1/2 x 3-3/4	500	.24	15.43	508 x 508 x 102	9150	59.7
20 x 24 x 4	19-3/8 x 23-3/8 x 3-3/4	500	.24	18.55	508 x 610 x 102	9150	59.7

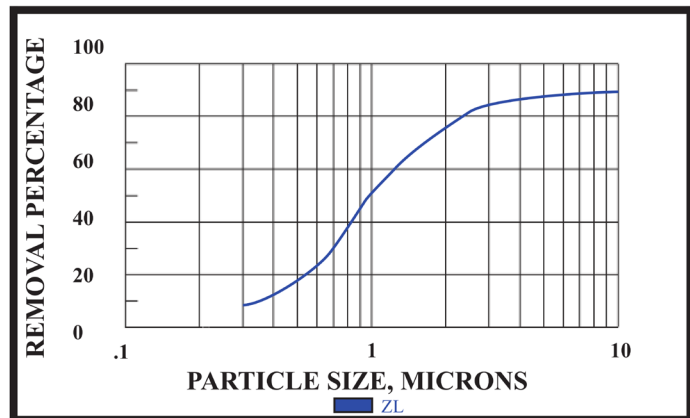
Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.00" w.g.  
All special sizes will be undersized by 1/8" unless specified otherwise.

Pleats Per Lineal Foot	
DEPTH	ZL
1"	14
2"	10
4"	9

Media Area to Face Area Ratio	
DEPTH	ZL
1"	1.73
2"	2.88
4"	5.56

### MINIMUM PARTICLE SIZE EFFICIENCY

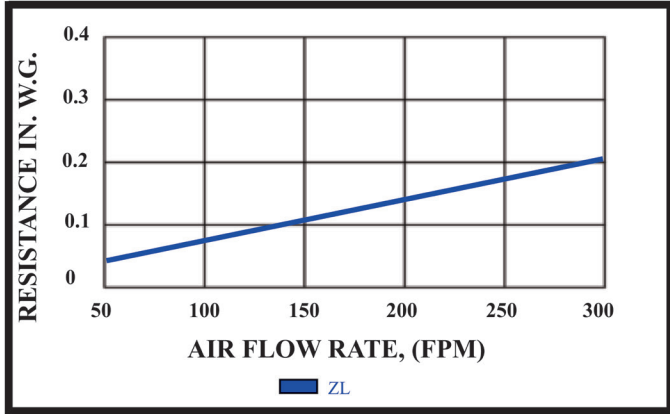
Test Filter Size 24" x 24" x 2" Nominal



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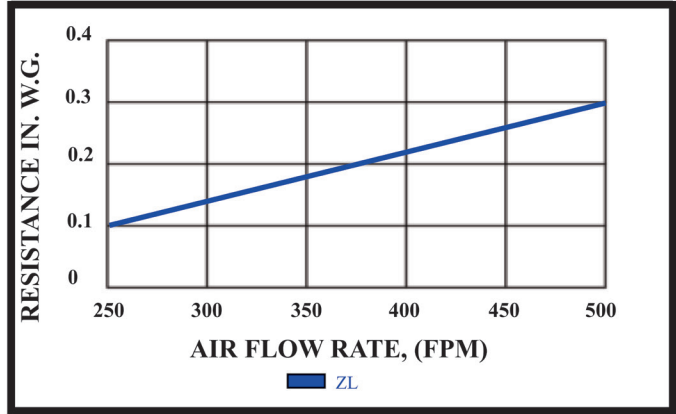
## STANDARD PRESSURE DROP

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 enhances warehouse operations and shipments.



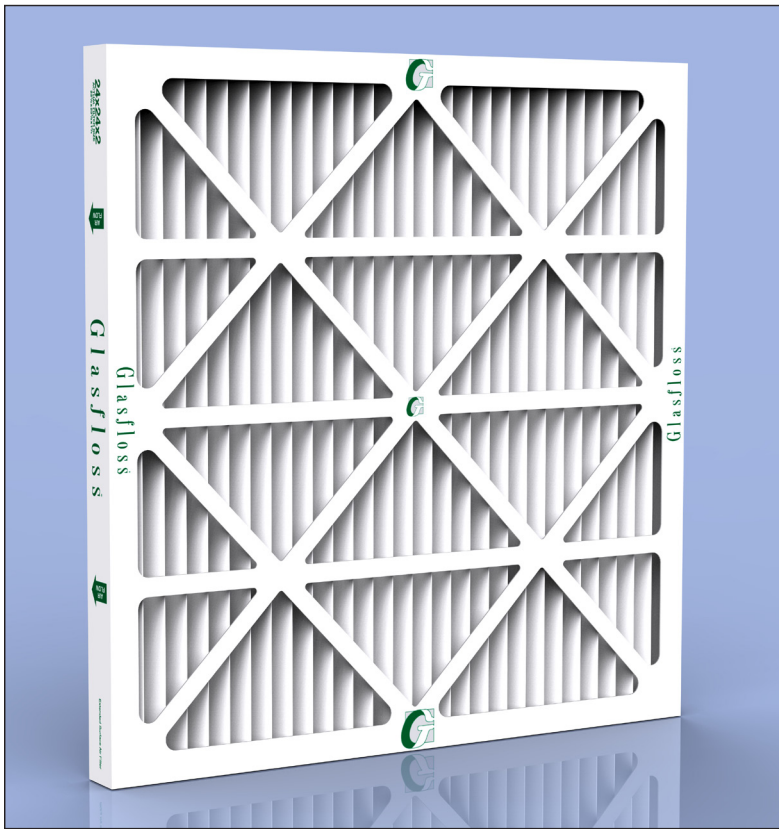
Glasfloss manufactures a variety of medium and high efficiency air filters which can be specified for LEED certification applications. For specific information on these products, please contact your local Glasfloss Sales Representative.



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### Product Highlights

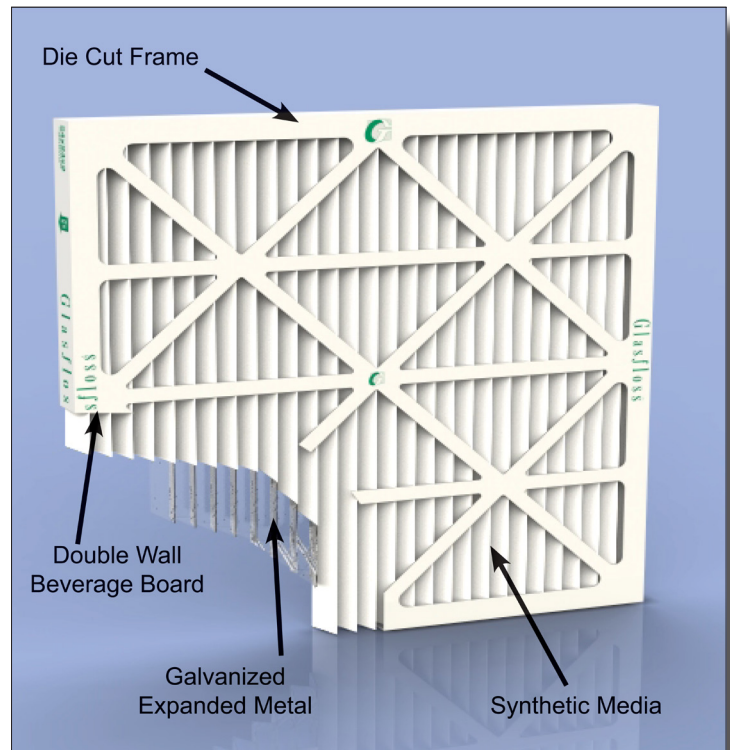
- MERV 10
- High Capacity
- Heavy-Duty Moisture Resistant Construction
- Galvanized Expanded Metal Backing
- Standard Size 4" and 6" Thick Incorporate Media Separators

### Features

The Glasfloss® Z-Line® Series HV pleated filters offer improved performance for virtually every application. All Glasfloss® Z-Line® HV pleated filters feature fibers which do not absorb moisture and will not support microbial growth. The Z-Line® Series HV is ideal in high-velocity systems where maximum square footage of media is necessary.

### Specifications

Glasfloss Z-Line® Series 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 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 HV filters achieve a MERV 10 rating per the ANSI/ASHRAE 52.2 Test Standard.



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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.

## 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 FOOT	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	.18	1.61	254 x 254 x 26	5490	44.8
10 x 20 x 1	9-1/2 x 19-1/2 x 7/8	300	.18	2.67	254 x 508 x 26	5490	44.8
10 x 24 x 1	9-1/2 x 23-1/2 x 7/8	300	.18	3.22	254 x 610 x 26	5490	44.8
10 x 30 x 1	9-5/8 x 29-5/8 x 7/8	300	.18	4.95	254 x 762 x 26	5490	44.8
12 x 12 x 1	11-1/2 x 11 1/2 x 7/8	300	.18	2.06	305 x 305 x 26	5490	44.8
12 x 20 x 1	11-1/2 x 19-1/2 x 7/8	300	.18	3.29	305 x 508 x 26	5490	44.8
12 x 24 x 1	11-3/8 x 23-3/8 x 7/8	300	.18	3.96	305 x 610 x 26	5490	44.8
12 x 25 x 1	11-1/2 x 24-1/2 x 7/8	300	.18	4.13	305 x 635 x 26	5490	44.8
12 x 30 x 1	11-5/8 x 29-1/2 x 7/8	300	.18	5.16	305 x 762 x 26	5490	44.8
14 x 14 x 1	13-1/2 x 13-1/2 x 7/8	300	.18	3.12	356 x 356 x 26	5490	44.8
14 x 20 x 1	13-1/2 x 19-1/2 x 7/8	300	.18	3.91	356 x 508 x 26	5490	44.8
14 x 24 x 1	13 1/2 x 23 1/2 x 7/8	300	.18	4.70	356 x 610 x 26	5490	44.8
14 x 25 x 1	13-1/2 x 24-1/2 x 7/8	300	.18	4.90	356 x 635 x 26	5490	44.8
14 x 30 x 1	13 5/8 x 29 5/8 x 7/8	300	.18	6.56	356 x 762 x 26	5490	44.8
15 x 20 x 1	14-1/2 x 19-1/2 x 7/8	300	.18	4.11	381 x 508 x 26	5490	44.8
15 x 30-5/8 x 1	14-5/8 x 30-1/4 x 7/8	300	.18	10.57	381 x 777 x 26	5490	44.8
16 x 16 x 1	15-1/2 x 15-1/2 x 7/8	300	.18	3.45	406 x 406 x 26	5490	44.8
16 x 20 x 1	15-1/2 x 19-1/2 x 7/8	300	.18	4.32	406 x 508 x 26	5490	44.8
16 x 24 x 1	15-1/2 x 23-1/2 x 7/8	300	.18	5.20	406 x 610 x 26	5490	44.8
16 x 25 x 1	15-1/2 x 24-1/2 x 7/8	300	.18	5.41	406 x 635 x 26	5490	44.8
16 x 30 x 1	15-5/8 x 29-5/8 x 7/8	300	.18	6.67	406 x 762 x 26	5490	44.8
18 x 18 x 1	17-1/2 x 17-1/2 x 7/8	300	.18	4.44	457 x 457 x 26	5490	44.8
18 x 20 x 1	17-1/2 x 19-1/2 x 7/8	300	.18	4.94	457 x 508 x 26	5490	44.8
18 x 24 x 1	17-1/2 x 23-1/2 x 7/8	300	.18	5.94	457 x 610 x 26	5490	44.8
18 x 25 x 1	17-1/2 x 24-1/2 x 7/8	300	.18	6.19	457 x 635 x 26	5490	44.8
18 x 30 x 1	17-5/8 x 29-5/8 x 7/8	300	.18	8.23	457 x 762 x 26	5490	44.8
20 x 20 x 1	19-1/2 x 19-1/2 x 7/8	300	.18	5.55	508 x 508 x 26	5490	44.8
20 x 22 x 1	19-1/2 x 21-7/8 x 7/8	300	.18	6.15	508 x 558 x 26	5490	44.8
20 x 24 x 1	19-3/8 x 23-3/8 x 7/8	300	.18	6.68	508 x 610 x 26	5490	44.8
20 x 25 x 1	19-1/2 x 24-1/2 x 7/8	300	.18	6.96	508 x 635 x 26	5490	44.8
20 x 30 x 1	19-5/8 x 29-5/8 x 7/8	300	.18	8.23	508 x 762 x 26	5490	44.8
22 x 22 x 1	21-1/2 x 21-1/2 x 7/8	300	.18	7.17	558 x 558 x 26	5490	44.8
24 x 24 x 1	23-3/8 x 23-3/8 x 7/8	300	.18	7.92	610 x 610 x 26	5490	44.8
24 x 30 x 1	23-5/8 x 29-5/8 x 7/8	300	.18	9.90	610 x 762 x 26	5490	44.8
25 x 25 x 1	24-1/2 x 24-1/2 x 7/8	300	.18	8.51	635 x 635 x 26	5490	44.8
10 x 20 x 2	9-1/2 x 19-1/2 x 1-3/4	500	.27	6.24	254 x 508 x 51	9150	67.2
12 x 12 x 2	11-1/2 x 11-1/2 x 1-3/4	500	.27	4.33	305 x 305 x 51	9150	67.2
12 x 20 x 2	11-1/2 x 19-1/2 x 1-3/4	500	.27	7.20	305 x 508 x 51	9150	67.2
12 x 24 x 2	11-3/8 x 23-3/8 x 1-3/4	500	.27	8.66	305 x 610 x 51	9150	67.2
14 x 20 x 2	13-1/2 x 19-1/2 x 1-3/4	500	.27	8.64	356 x 508 x 51	9150	67.2
14 x 25 x 2	13-1/2 x 24-1/2 x 1-3/4	500	.27	10.83	356 x 635 x 51	9150	67.2
15 x 20 x 2	14-1/2 x 19-1/2 x 1-3/4	500	.27	9.12	381 x 508 x 51	9150	67.2
16 x 16 x 2	15-1/2 x 15-1/2 x 1-3/4	500	.27	7.66	406 x 406 x 51	9150	67.2
16 x 20 x 2	15-1/2 x 19-1/2 x 1-3/4	500	.27	9.60	406 x 508 x 51	9150	67.2
16 x 24 x 2	15-1/2 x 23-1/2 x 1-3/4	500	.27	11.55	406 x 610 x 51	9150	67.2
16 x 25 x 2	15-1/2 x 24-1/2 x 1-3/4	500	.27	12.03	406 x 635 x 51	9150	67.2
18 x 18 x 2	17-1/2 x 17-1/2 x 1-3/4	500	.27	9.92	457 x 457 x 51	9150	67.2
18 x 20 x 2	17-1/2 x 19-1/2 x 1-3/4	500	.27	11.04	457 x 508 x 51	9150	67.2
18 x 24 x 2	17-1/2 x 23-1/2 x 1-3/4	500	.27	13.28	457 x 610 x 51	9150	67.2
18 x 25 x 2	17-1/2 x 24-1/2 x 1-3/4	500	.27	13.84	457 x 635 x 51	9150	67.2
20 x 20 x 2	19-1/2 x 19-1/2 x 1-3/4	500	.27	12.00	508 x 508 x 51	9150	67.2
20 x 24 x 2	19-3/8 x 23-3/8 x 1-3/4	500	.27	14.43	508 x 610 x 51	9150	67.2
20 x 25 x 2	19-1/2 x 24-1/2 x 1-3/4	500	.27	15.04	508 x 635 x 51	9150	67.2
20 x 30 x 2	19-5/8 x 29-5/8 x 1-3/4	500	.27	18.24	508 x 762 x 51	9150	67.2
24 x 24 x 2	23-3/8 x 23-3/8 x 1-3/4	500	.27	17.61	610 x 610 x 51	9150	67.2
25 x 25 x 2	24-1/2 x 24-1/2 x 1-3/4	500	.27	18.65	635 x 635 x 51	9150	67.2
12 x 24 x 4	11-3/8 x 23-3/8 x 3-3/4	500	.22	13.61	457 x 610 x 102	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.

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## 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 FOOT	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
16 x 20 x 4	15-1/2 x 19-1/2 x 3-3/4	500	.22	15.43	406 x 508 x 102	9150	54.7
16 x 24 x 4	15-1/2 x 23-1/2 x 3-3/4	500	-	-	406 x 610 x 102	9150	-
16 x 25 x 4	15-1/2 x 24-1/2 x 3-3/4	500	.22	19.34	406 x 635 x 102	9150	54.7
18 x 24 x 4	17-1/2 x 23-1/2 x 3-3/4	500	.22	21.03	457 x 610 x 102	9150	54.7
20 x 20 x 4	19-1/2 x 19-1/2 x 3-3/4	500	.22	18.52	508 x 508 x 102	9150	54.7
20 x 24 x 4	19-3/8 x 23-3/8 x 3-3/4	500	.22	22.27	508 x 610 x 102	9150	54.7
20 x 25 x 4	19-1/2 x 24-1/2 x 3-3/4	500	.22	23.20	508 x 635 x 102	9150	54.7
24 x 24 x 4	23-3/8 x 23-3/8 x 3-3/4	500	.22	27.21	610 x 610 x 102	9150	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

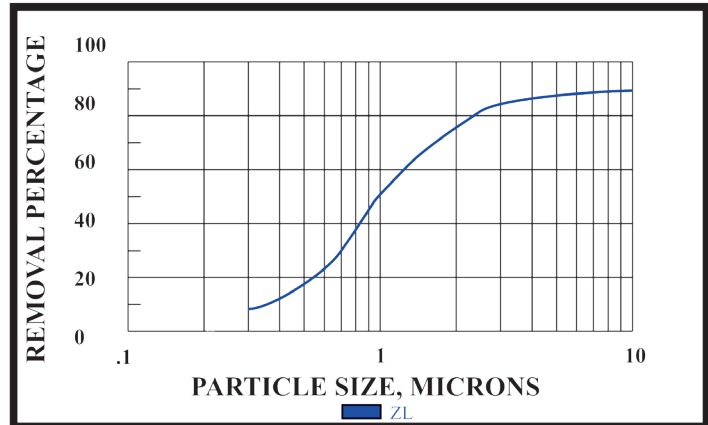
DEPTH	HV
1"	16
2"	15
4"	11
6"	11

### Media Area to Face Area Ratio

DEPTH	HV
1"	1.97
2"	4.40
4"	6.80

### MINIMUM PARTICLE SIZE EFFICIENCY

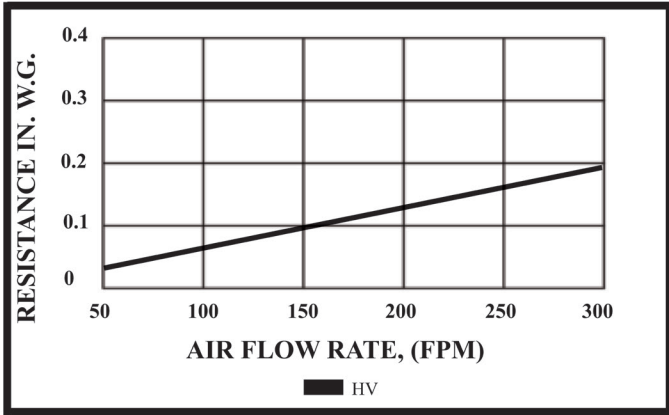
Test Filter Size 24" x 24" x 2" Nominal



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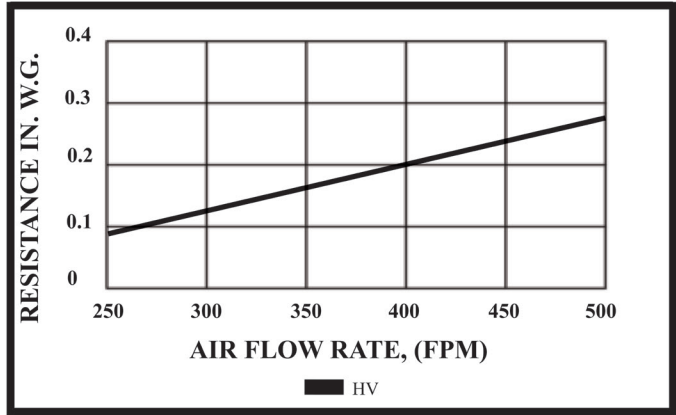
### STANDARD PRESSURE DROP

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

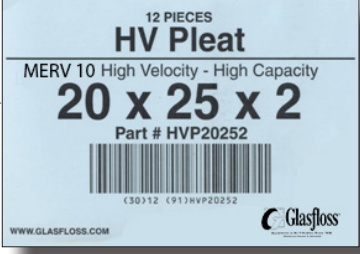


### STANDARD PRESSURE DROP

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 enhances warehouse operations and shipments.



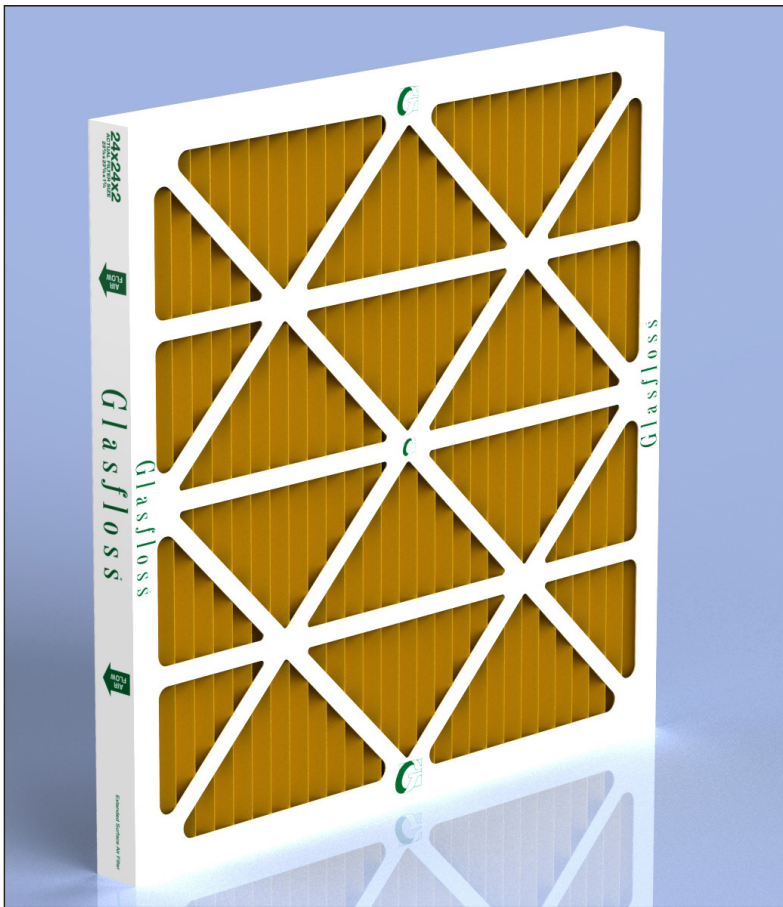
Glasfloss manufactures a variety of medium and high efficiency air filters which can be specified for LEED certification applications. For specific information on these products, please contact your local Glasfloss Sales Representative.



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### Product Highlights

- 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.

### Specifications

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 with 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 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.



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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.

# 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 FOOT	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.24	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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	0.31	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.

All special sizes will be undersized by 1/8" unless specified otherwise.

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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.

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# 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 FOOT	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	0.25	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	0.25	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	0.25	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	0.25	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	0.25	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	0.25	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	0.25	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	0.25	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	0.22	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	0.22	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	0.22	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	0.22	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	0.22	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	0.22	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	0.22	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	0.22	41.73	610 x 610 x 152	9150	54.7

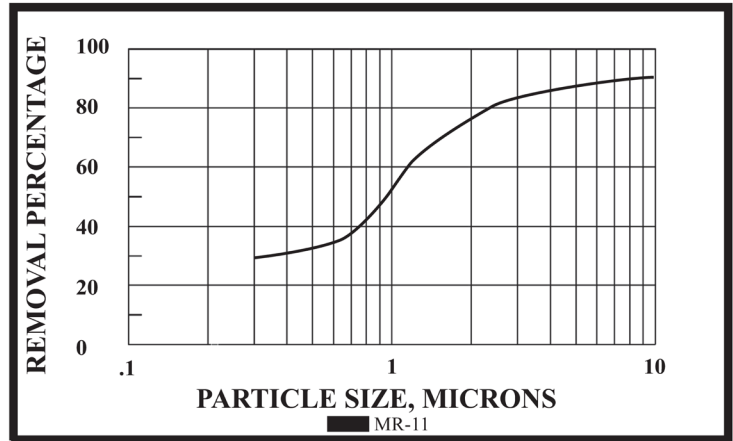
Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.00" w.g.

All special sizes will be undersized by 1/8" unless specified otherwise.

## MINIMUM PARTICLE SIZE EFFICIENCY

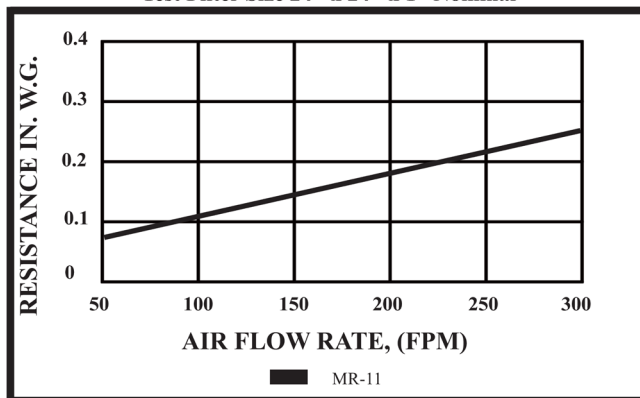
Test Filter Size 24" x 24" x 2" Nominal

Pleats Per Lineal Foot		Media Area to Face Area Ratio	
DEPTH	MR-11	DEPTH	MR-11
1"	16	1"	1.97
2"	15	2"	4.40
4"	11	4"	6.80
6"	11	6"	10.43



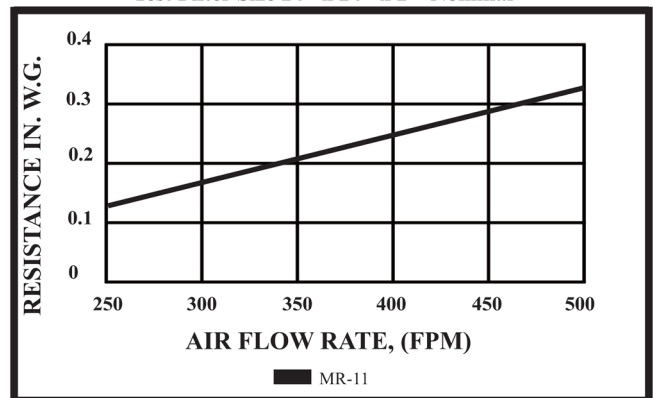
## STANDARD PRESSURE DROP

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



## STANDARD PRESSURE DROP

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

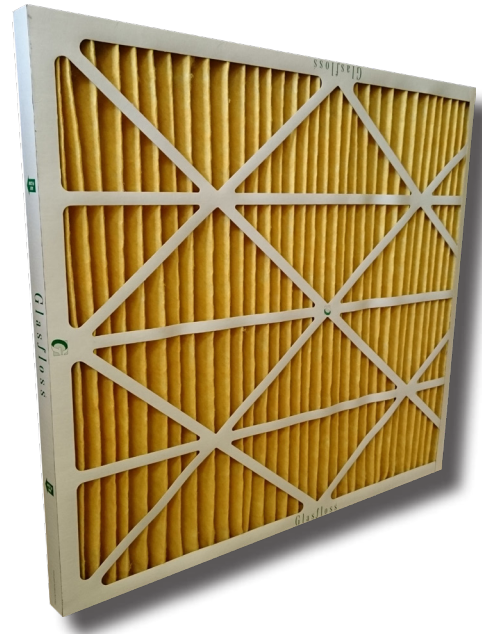


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# Glasfloss® Z-Line® MERV 11 Geothermal Unit Replacement Filters One Piece Die-Cut Frame Construction

## 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



- Improved Rigidity
- Increased Media Area
- MERV 11 Performance

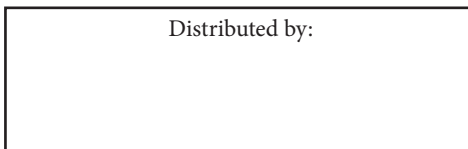
Glasfloss® Industries incorporates color-coded carton labels on standard sizes to help identify the product, which enhance warehouse operations and shipments.



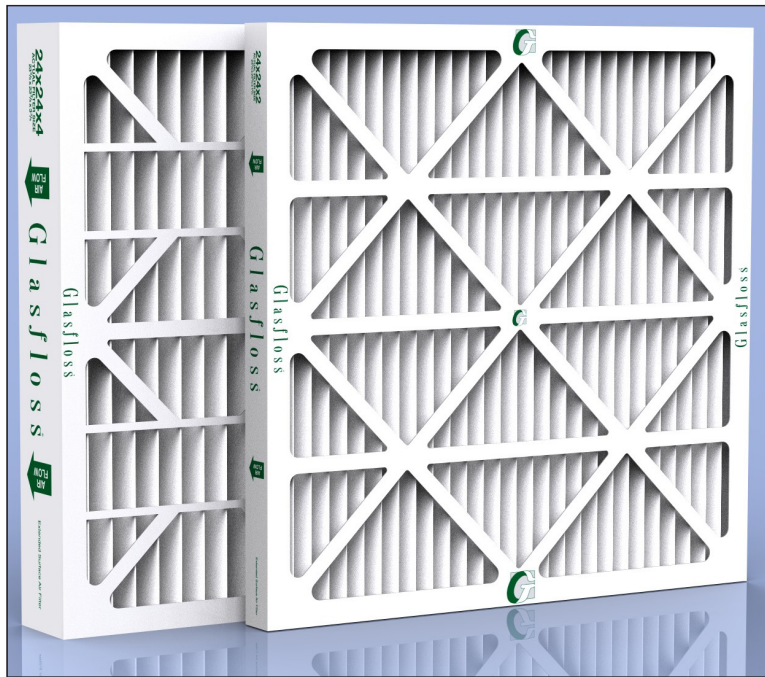
Glasfloss® manufactures a variety of medium and high efficiency air filters which can be specified for LEED certification applications. For specific information on these products, please contact your local Glasfloss® Sales Representative.



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### Product Highlights

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

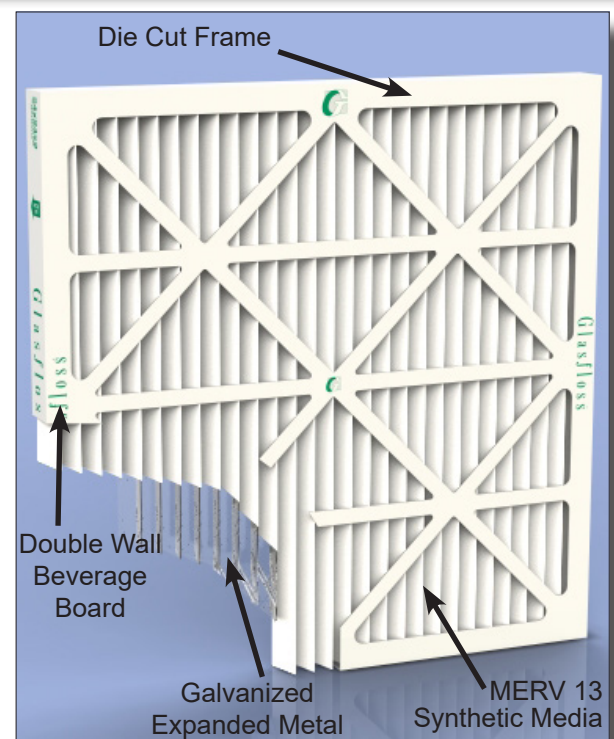


### Features

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.

### Specifications

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.



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## 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 FOOT	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
M1310101	10 x 10 x 1	9-1/2 x 9-1/2 x 7/8	300	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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	0.35	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.

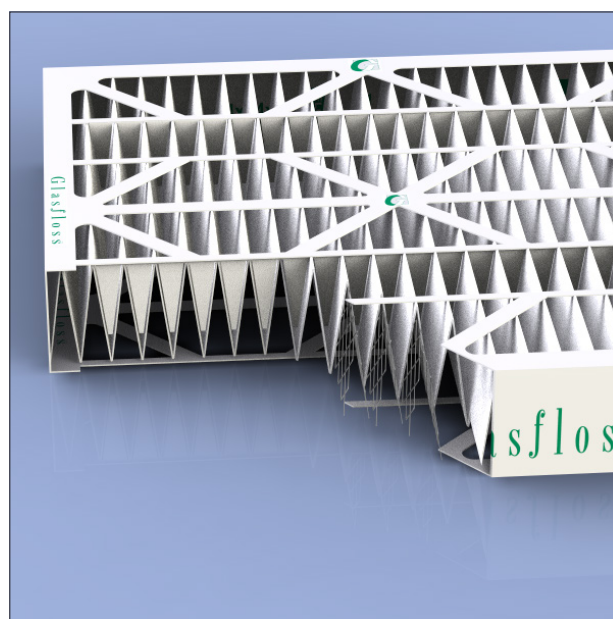
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## Z-Line® Series MR-13 Standard Size Filters

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 FOOT	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
M1310202	10 x 20 x 2	9-1/2 x 19-1/2 x 1-3/4	500	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.39	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	0.34	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	0.34	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	0.34	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	0.34	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	0.34	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	0.34	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	0.34	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	0.34	27.21	610 x 610 x 102	9150	82.20

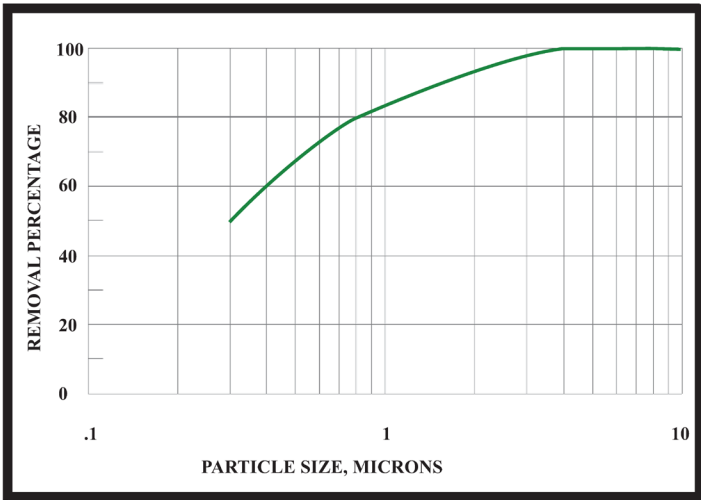
Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.00" w.g.

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

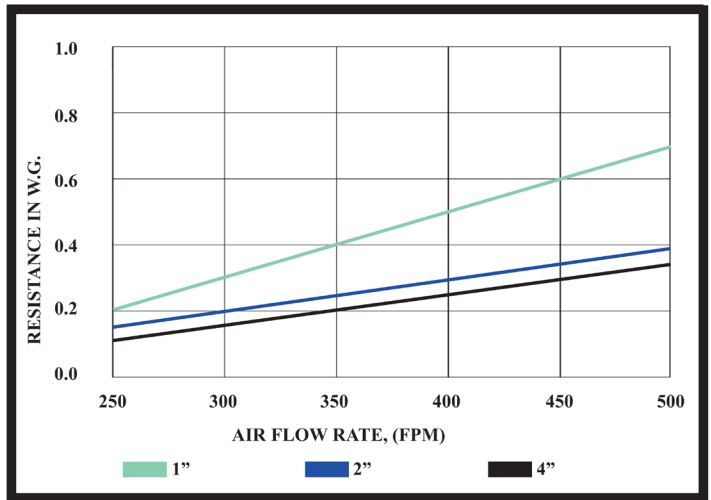


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### MINIMUM PARTICLE SIZE EFFICIENCY



### STANDARD PRESSURE DROP



## Glasfloss®' Commitment To Green



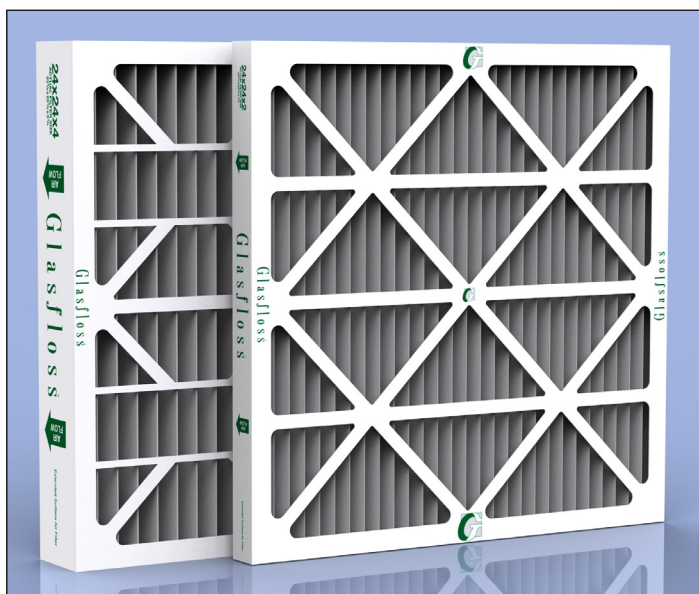
For years, Glasfloss® has been designing air filtration products for maximum energy savings and environmental benefits in HVAC systems. Now more than ever, our commitment to Green products and manufacturing processes is at the heart of our company. For more information on Glasfloss® Green products and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



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## Product Highlights

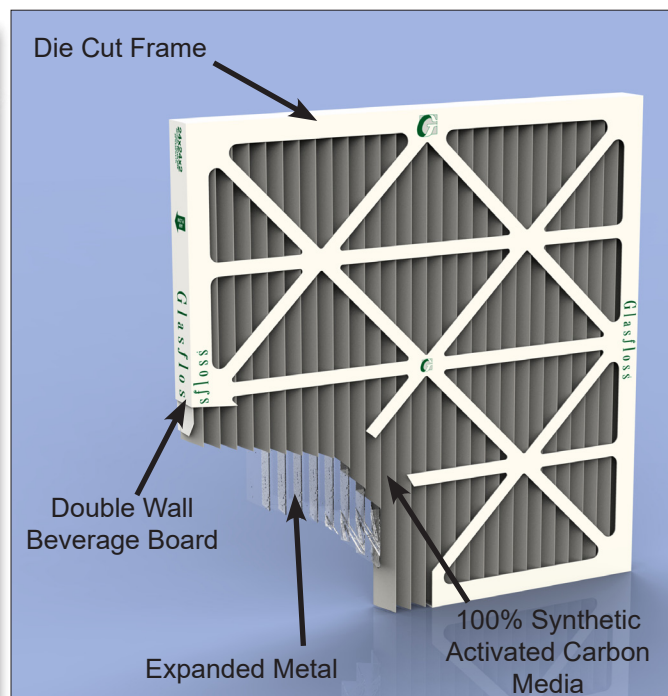
- MERV 8
- Reduces Odors
- 100% Synthetic Media
- Heavy-Duty Moisture-Resistant Construction
- Galvanized Expanded Metal Backing
- Standard Size 4" Filters Incorporate Media Separators

## 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.

## Specifications

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 encasing frame. The frame face shall be internally laminated to the pleated cartridge apices. 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.



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PRODUCT BULLETIN 6CARB · SECTION 6 · 8/1/25

## 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 FOOT	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
ZLN161614AC	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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## 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 FOOT	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.  
All special sizes will be undersized by 1/8" unless specified otherwise.

Pleats Per Lineal Foot	
DEPTH	CARBOTRON®
1"	16
2"	15
4"	11

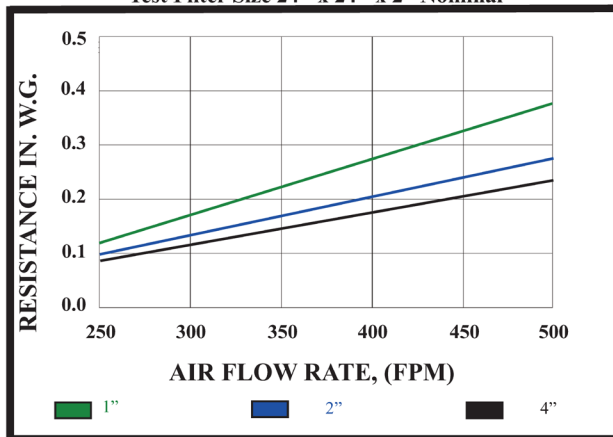
Media Area to Face Area Ratio	
DEPTH	CARBOTRON®
1"	1.97
2"	4.40
4"	6.80

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.

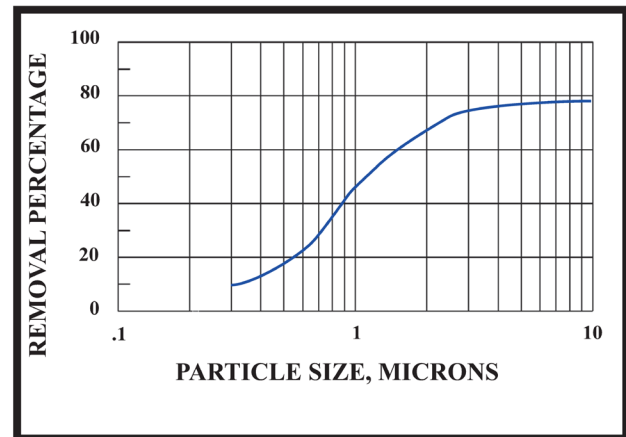
### STANDARD PRESSURE DROP

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



### MINIMUM PARTICLE SIZE EFFICIENCY

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



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

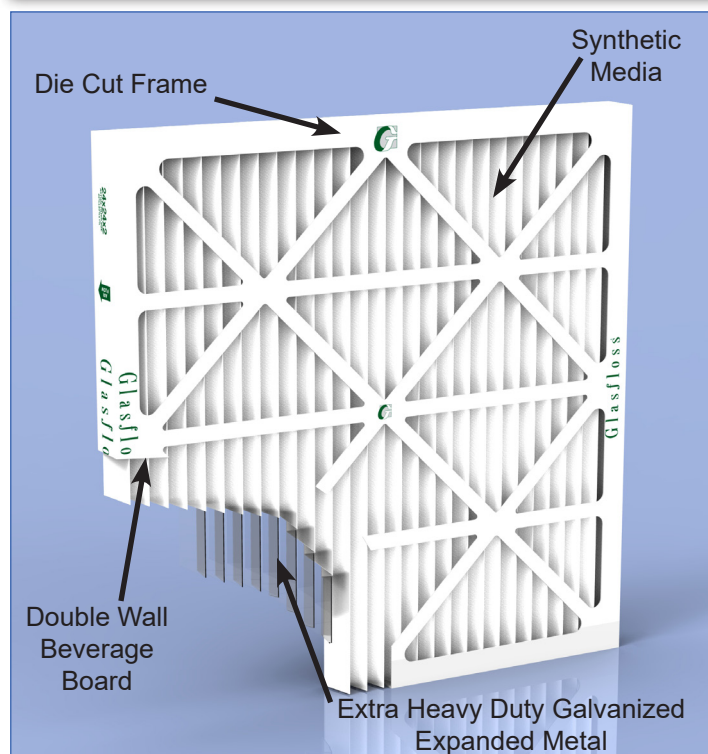
- MERV 10 & MERV 11 Performances
- Designed for Higher Air Volume Systems
- Higher Breach Strength
- Heavy-Duty Moisture Resistant Construction
- Extra Heavy-Duty Galvanized Metal Backing
- Standard 1", 2" & 4" Sizes

## 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.

## Specifications

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.



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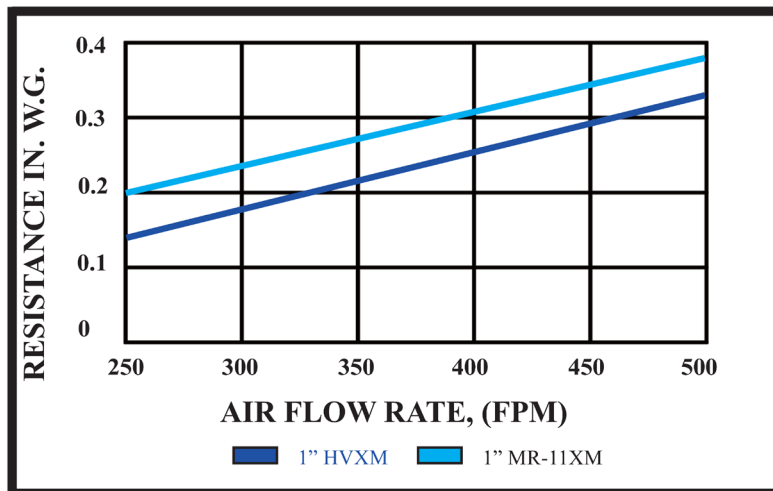
## Z-LINE® SERIES HVXM and MR11XM STANDARD SIZES

SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		MEDIA SQUARE FOOT	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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	0.18	0.24	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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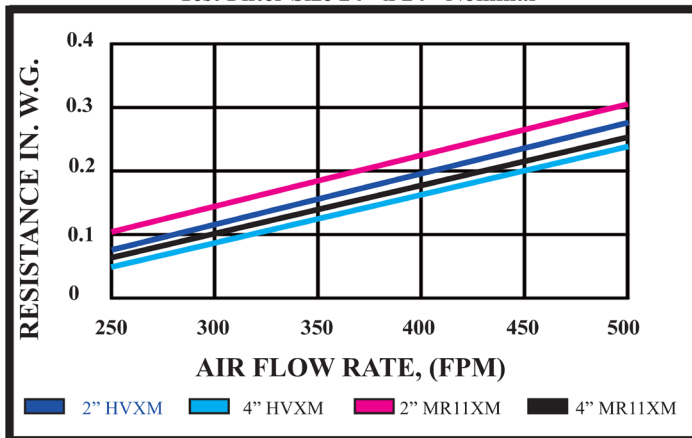
## Z-LINE® SERIES HVXM and MR11XM STANDARD SIZES

SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		MEDIA SQUARE FOOT	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.27	0.31	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	0.22	0.25	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	0.22	0.25	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	0.22	0.25	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	0.22	0.25	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	0.22	0.25	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	0.22	0.25	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	0.22	0.25	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	0.22	0.25	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.

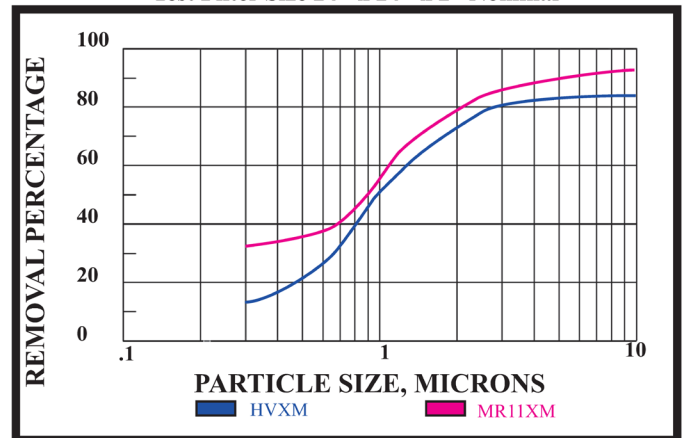
### PRESSURE DROP

Test Filter Size 24" x 24" Nominal



### MINIMUM PARTICLE SIZE EFFICIENCY

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

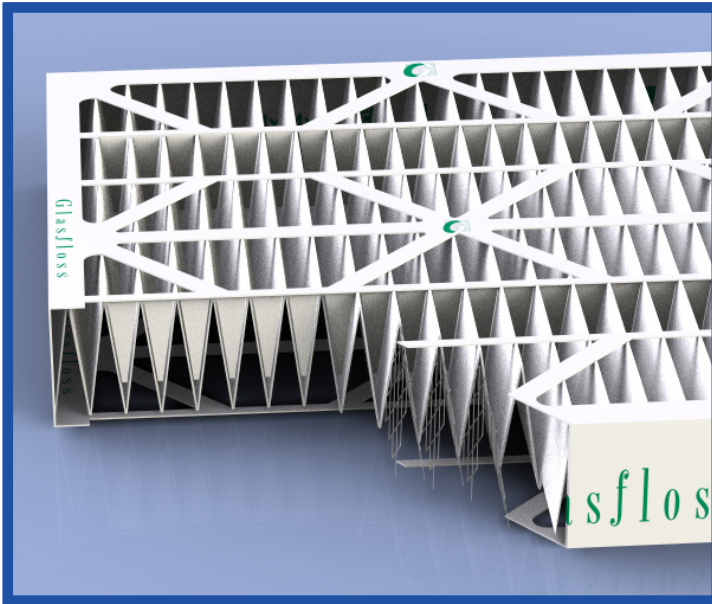


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Standard size 4" thick XM pleated filters incorporate media separators.



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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## Product Highlights

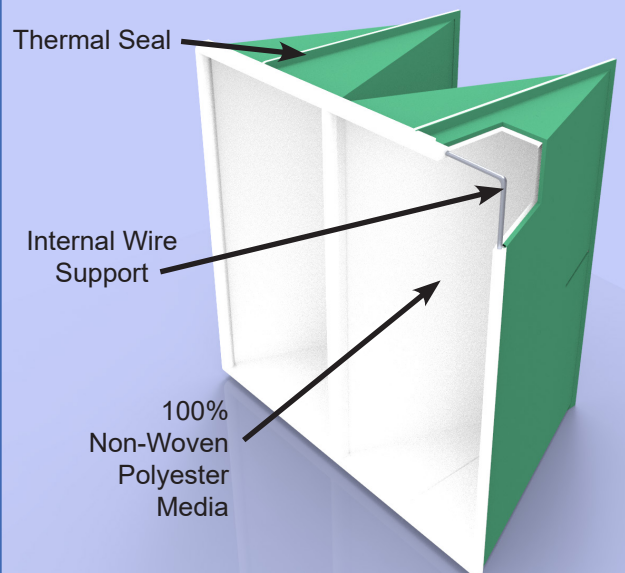
- Versatile Self-Seal Design
- Heavy Duty Construction
- High Moisture Resistance and Durability

## 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.

## Specifications

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.



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PRODUCT BULLETIN 7QD/CB · SECTION 7 · 8/1/25

## QUAD 440 and 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 FOOT	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	0.16	0.18	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	0.16	0.18	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	0.16	0.18	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	0.16	0.18	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	0.16	0.18	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	0.16	0.18	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	0.16	0.18	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 FOOT	SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS
QUB12248	12 x 24 x 8	11-3/8 x 23-3/8 x 7-7/8	500	0.23	7.00	305 x 610 x 203	5150	57.22
QUB16208	16 x 20 x 8	15-1/2 x 19-1/2 x 7-7/8	500	0.23	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	0.23	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	0.23	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	0.23	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	0.23	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	0.22	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	0.22	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	0.22	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	0.22	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	0.22	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	0.22	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	0.20	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	0.20	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	0.20	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	0.20	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	0.20	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	0.20	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	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
QUB1224154USS	12 x 24 x 15	11-3/8 x 23-3/8 x 14-7/8	500	0.20	8.50	305 x 610 x 381	5150	49.76
QUB1620154USS	16 x 20 x 15	15-1/2 x 19-1/2 x 14-7/8	500	0.20	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	0.20	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	0.20	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	0.20	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	0.20	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	0.20	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.

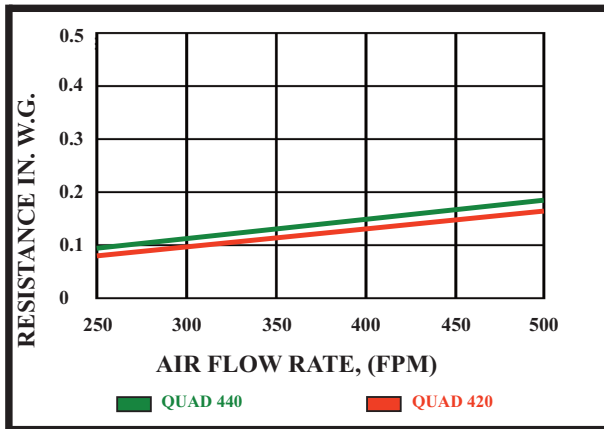
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## Specifications for Cube Filters

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 220 degrees Fahrenheit (104 degrees Celsius). Glasfloss Cubes achieve a MERV 7 rating when tested in accordance with the ANSI/ASHRAE 52.2 Test Standard.

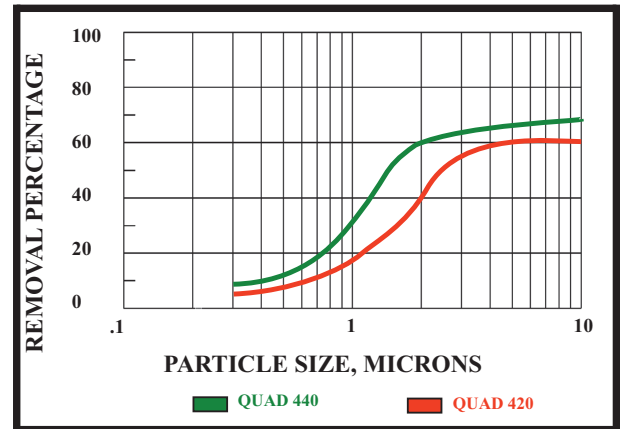
### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" Nominal



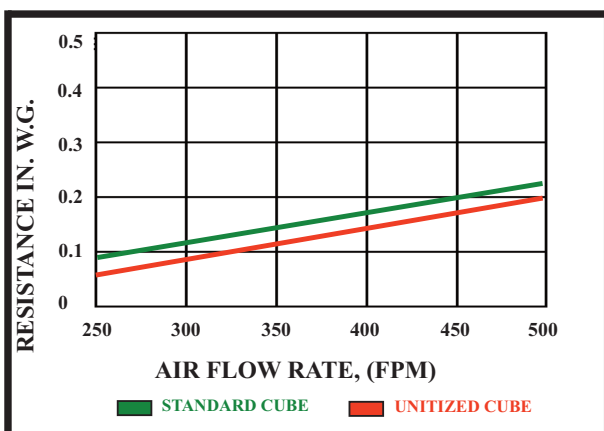
### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" Nominal



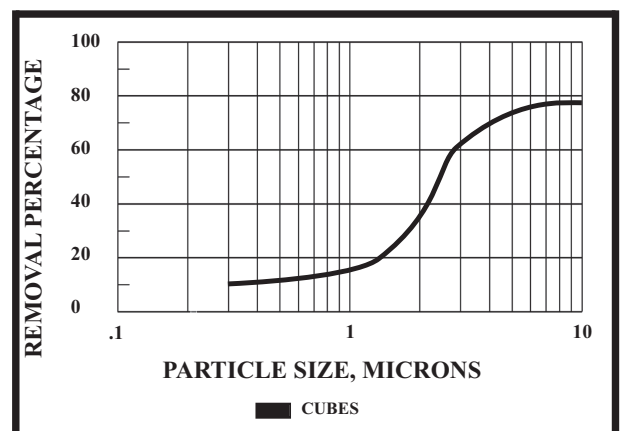
### STANDARD PRESSURE DROP

Test Filter Size 24" x 24" Nominal

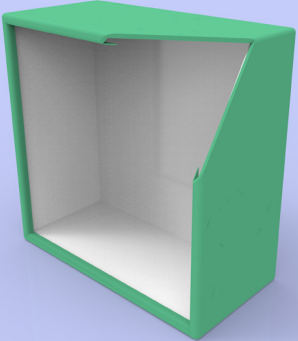
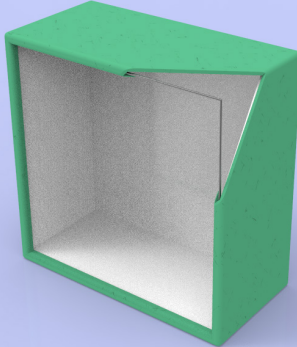
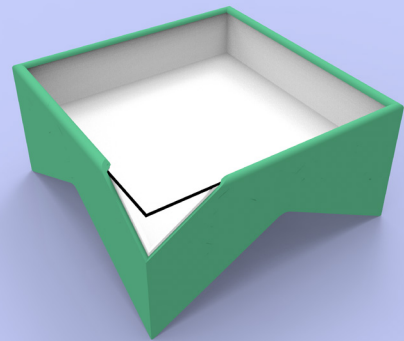


### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" Nominal



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**Standard Cube****Internal Supported Cube****Unitized Cube**

**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 cross wire, which insures maximum rigidity and eliminates the possibility of element detachment.

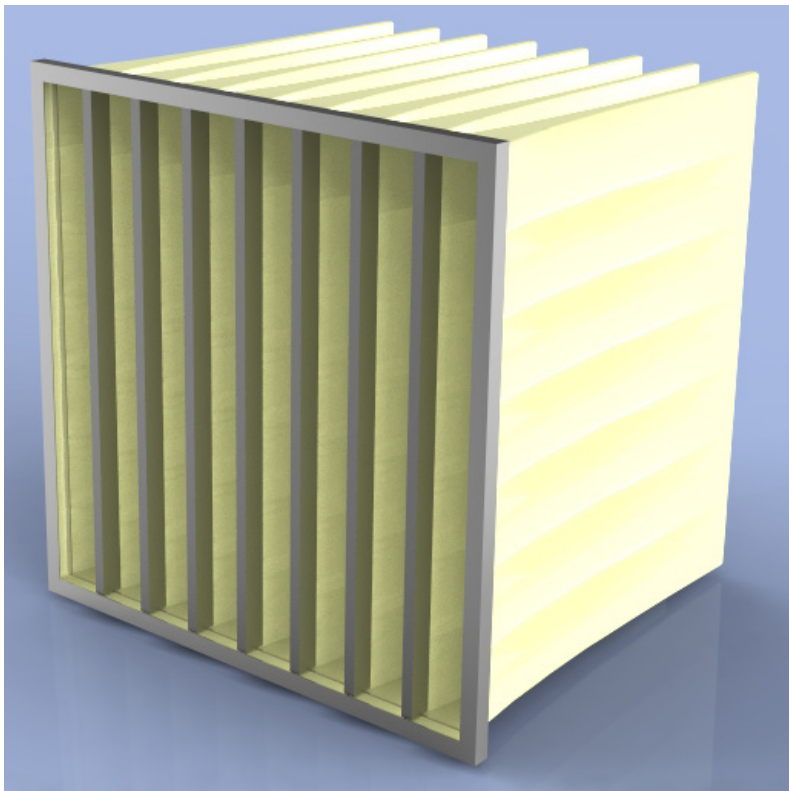
These versatile air filters can be used in a wide range of industrial and commercial applications, both as primary filters and pre-filters to more efficient final filters. Their self-seal design and high dust-holding capacity make them a good choice for automatic roll conversions. Glasfloss Quad and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

**Construction****Applications**

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## Product Highlights

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

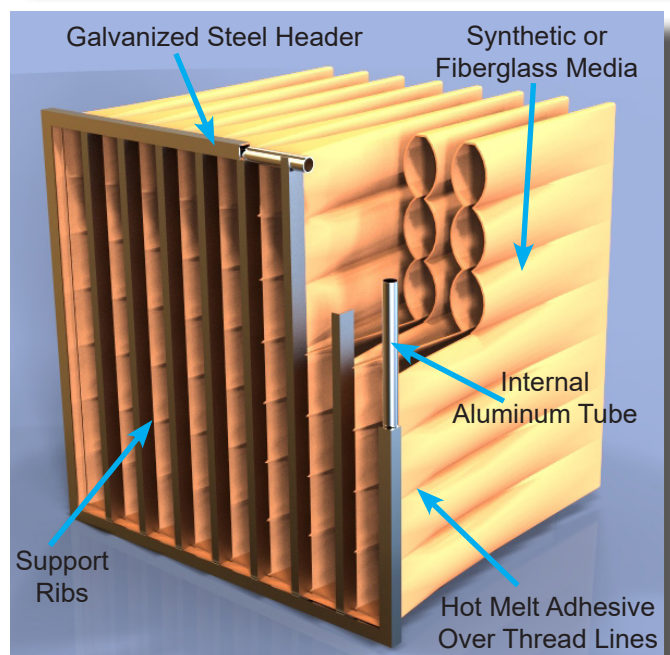
## Features

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 ultrafine 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 eliminate “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.

## Specifications

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.

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



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## EXCEL®

SIZE W x H x D NOMINAL	PKT NO.	AIR FLOW CAPACITY (CFM)			INITIAL RESISTANCE IN W.G.												MEDIA SQUARE FOOTAGE	SIZE W x H x D Nominal (MM)
					90-95% MERV 15			80-85% MERV 13			60-65% MERV 11			40-45% MERV 9				
24 x 24 x 15	6	1000	1250	1500	0.45	0.55	0.66	0.37	0.46	0.55	0.31	0.38	0.46	0.25	0.32	0.38	35.75	610 x 610 x 381
24 x 24 x 15	7	1000	1250	1500	0.42	0.51	0.62	0.35	0.43	0.52	0.29	0.35	0.43	0.24	0.29	0.36	41.71	610 x 610 x 381
24 x 24 x 15	8	1000	1250	1500	0.37	0.47	0.60	0.31	0.40	0.50	0.26	0.33	0.42	0.21	0.27	0.34	47.66	610 x 610 x 381
24 x 24 x 15	10	1000	1250	1500	0.34	0.40	0.53	0.28	0.34	0.45	0.24	0.28	0.37	-	-	-	59.58	610 x 610 x 381
24 x 24 x 15	12	1000	1250	1500	0.27	0.33	0.47	0.22	0.28	0.40	0.19	0.23	0.33	-	-	-	71.50	610 x 610 x 381
24 x 24 x 21	6	1000	1250	1500	0.38	0.50	0.57	0.32	0.42	0.48	0.27	0.35	0.40	0.22	0.28	0.33	48.75	610 x 610 x 533
24 x 24 x 21	8	1000	1500	2000	0.34	0.46	0.56	0.28	0.39	0.47	0.24	0.32	0.39	0.19	0.26	0.32	65.00	610 x 610 x 533
24 x 24 x 21	10	1000	1500	2000	0.30	0.40	0.52	0.25	0.34	0.43	0.21	0.28	0.36	0.17	0.23	0.30	81.25	610 x 610 x 533
24 x 24 x 25	6	1000	1500	2000	0.28	0.49	0.61	0.24	0.41	0.51	0.20	0.34	0.42	-	-	-	57.41	610 x 610 x 635
24 x 24 x 25	8	1000	1500	2000	0.20	0.36	0.53	0.17	0.31	0.44	0.14	0.25	0.37	-	-	-	76.55	610 x 610 x 635
24 x 24 x 25	10	1500	2000	2500	0.26	0.45	0.59	0.22	0.37	0.49	0.18	0.31	0.41	-	-	-	95.69	610 x 610 x 635
24 x 24 x 29	6	1500	2000	2500	0.45	0.55	0.66	0.38	0.46	0.55	0.32	0.38	0.46	-	-	-	66.08	610 x 610 x 737
24 x 24 x 29	8	1500	2000	2500	0.35	0.44	0.55	0.29	0.37	0.46	0.24	0.30	0.38	0.20	0.27	-	88.11	610 x 610 x 737
24 x 24 x 29	10	1500	2000	2500	0.22	0.36	0.52	0.19	0.31	0.43	0.16	0.25	0.36	-	-	-	110.13	610 x 610 x 737
24 x 24 x 36	6	1500	2000	2500	0.34	0.51	0.64	0.28	0.43	0.54	0.24	0.35	0.45	-	-	-	81.25	610 x 610 x 914
24 x 24 x 36	8	1500	2000	2500	0.26	0.43	0.54	0.22	0.36	0.46	0.18	0.30	0.38	-	-	-	108.83	610 x 610 x 914
24 x 24 x 36	10	1500	2000	2500	0.20	0.34	0.47	0.16	0.28	0.40	0.14	0.24	0.33	-	-	-	135.41	610 x 610 x 914
20 x 24 x 15	6	850	1050	1250	0.45	0.55	0.66	0.37	0.46	0.55	0.31	0.38	0.46	0.25	0.32	0.38	35.75	508 x 610 x 381
20 x 24 x 15	8	850	1050	1250	0.37	0.47	0.60	0.31	0.40	0.50	0.26	0.33	0.42	0.21	0.27	0.34	47.66	508 x 610 x 381
20 x 24 x 15	10	850	1050	1250	0.34	0.40	0.53	0.28	0.34	0.45	0.24	0.28	0.37	0.19	0.23	0.31	59.58	508 x 610 x 381
20 x 24 x 21	6	850	1050	1250	0.38	0.50	0.57	0.32	0.42	0.48	0.27	0.35	0.40	0.22	0.28	0.33	48.75	508 x 610 x 533
20 x 24 x 21	8	850	1250	1650	0.34	0.46	0.56	0.28	0.39	0.47	0.24	0.32	0.39	0.19	0.26	0.32	65.00	508 x 610 x 533
20 x 24 x 21	10	850	1250	1650	0.30	0.40	0.52	0.25	0.34	0.43	0.21	0.28	0.36	0.17	0.23	0.30	81.25	508 x 610 x 533
20 x 24 x 25	6	850	1250	1650	0.28	0.49	0.61	0.24	0.41	0.51	0.20	0.34	0.42	-	-	-	57.41	508 x 610 x 533
20 x 24 x 25	8	850	1250	1650	0.20	0.36	0.53	0.17	0.31	0.44	0.14	0.25	0.37	-	-	-	76.55	508 x 610 x 533
20 x 24 x 25	10	1250	1650	2100	0.26	0.45	0.59	0.22	0.37	0.49	0.18	0.31	0.41	-	-	-	95.69	508 x 610 x 533
20 x 24 x 29	6	1250	1650	2100	0.45	0.55	0.66	0.38	0.46	0.55	0.32	0.38	0.46	-	-	-	66.08	508 x 610 x 737
20 x 24 x 29	8	1250	1650	2100	0.35	0.44	0.55	0.29	0.37	0.46	0.24	0.30	0.38	-	-	-	88.11	508 x 610 x 737
20 x 24 x 29	10	1250	1650	2100	0.22	0.36	0.52	0.19	0.31	0.43	0.16	0.25	0.36	-	-	-	110.13	508 x 610 x 737
20 x 24 x 36	6	1250	1650	2100	0.34	0.51	0.64	0.28	0.43	0.54	0.24	0.35	0.45	-	-	-	81.25	508 x 610 x 914
20 x 24 x 36	8	1250	1650	2100	0.26	0.43	0.54	0.22	0.36	0.46	0.18	0.30	0.38	-	-	-	108.83	508 x 610 x 914
20 x 24 x 36	10	1250	1650	2100	0.20	0.34	0.47	0.16	0.28	0.40	0.14	0.24	0.33	-	-	-	135.41	508 x 610 x 914
12 x 24 x 15	3	500	625	750	0.45	0.55	0.66	0.37	0.46	0.55	0.31	0.38	0.46	0.25	0.32	0.38	17.87	305 x 610 x 381
12 x 24 x 15	4	500	625	750	0.37	0.47	0.60	0.31	0.40	0.50	0.26	0.33	0.42	0.21	0.27	0.34	23.83	305 x 610 x 381
12 x 24 x 15	5	500	625	750	0.34	0.40	0.53	0.28	0.34	0.45	0.24	0.28	0.37	0.19	0.23	0.31	29.79	305 x 610 x 381
12 x 24 x 15	6	500	625	750	0.27	0.33	0.47	0.22	0.28	0.40	0.19	0.23	0.33	0.15	0.19	0.27	35.75	305 x 610 x 381
12 x 24 x 21	3	500	625	750	0.38	0.50	0.57	0.32	0.42	0.48	0.27	0.35	0.40	0.22	0.28	0.33	24.37	305 x 610 x 533
12 x 24 x 21	4	500	750	1000	0.34	0.46	0.56	0.28	0.39	0.47	0.24	0.32	0.39	0.19	0.26	0.32	32.50	305 x 610 x 533
12 x 24 x 21	5	500	750	1000	0.30	0.40	0.52	0.25	0.34	0.43	0.21	0.28	0.36	0.17	0.23	0.30	40.63	305 x 610 x 533
12 x 24 x 25	3	500	750	1000	0.28	0.49	0.61	0.24	0.41	0.51	0.20	0.34	0.42	-	-	-	28.70	305 x 610 x 635
12 x 24 x 25	4	500	750	1000	0.20	0.36	0.53	0.17	0.31	0.44	0.14	0.25	0.37	-	-	-	38.27	305 x 610 x 635
12 x 24 x 25	5	750	1000	1250	0.26	0.45	0.59	0.22	0.37	0.49	0.18	0.31	0.41	-	-	-	47.84	305 x 610 x 635
12 x 24 x 29	3	750	1000	1250	0.45	0.55	0.66	0.38	0.46	0.55	0.32	0.38	0.46	-	-	-	33.04	305 x 610 x 737
12 x 24 x 29	4	750	1000	1250	0.35	0.44	0.55	0.29	0.37	0.46	0.24	0.30	0.38	-	-	-	44.05	305 x 610 x 737
12 x 24 x 29	5	750	1000	1250	0.22	0.36	0.52	0.19	0.31	0.43	0.16	0.25	0.36	-	-	-	55.07	305 x 610 x 737
12 x 24 x 36	3	750	1000	1250	0.34	0.51	0.64	0.28	0.43	0.54	0.24	0.35	0.45	-	-	-	40.62	305 x 610 x 914
12 x 24 x 36	4	750	1000	1250	0.26	0.43	0.54	0.22	0.36	0.46	0.18	0.30	0.38	-	-	-	54.16	305 x 610 x 914
12 x 24 x 36	5	750	1000	1250	0.20	0.34	0.47	0.16	0.28	0.40	0.14	0.24	0.33	-	-	-	67.70	305 x 610 x 914
24 x 24 x 12	6	1500	2000	2500	-	-	-	-	-	-	-	-	-	0.40	0.46	0.52	29.25	610 x 610 x 305
20 x 24 x 12	4	1000	1250	1500	-	-	-	-	-	-	-	-	-	0.37	0.42	0.49	19.50	508 x 610 x 305
20 x 24 x 12	5	1250	1500	1750	-	-	-	-	-	-	-	-	-	0.38	0.42	0.48	24.37	508 x 610 x 305
20 x 24 x 12	6	1250	1500	2000	-	-	-	-	-	-	-	-	-	0.34	0.40	0.46	29.25	508 x 610 x 305
20 x 20 x 12	4	1000	1250	1500	-	-	-	-	-	-	-	-	-	0.39	0.44	0.51	16.50	508 x 508 x 305
20 x 20 x 12	5	1000	1500	1750	-	-	-	-	-	-	-	-	-	0.35	0.47	0.54	20.62	508 x 508 x 305
20 x 20 x 12	6	1250	1500	1750	-	-	-	-	-	-	-	-	-	0.36	0.43	0.49	24.75	508 x 508 x 305
20 x 20 x 21	5	1250	1500	2000	-	-	-	-	-	-	-	-	-	0.27	0.33	0.39	34.63	508 x 508 x 533
20 x 20 x 21	6	1250	1500	2000	-	-	-	-	-	-	-	-	-	0.23	0.29	0.34	41.25	508 x 508 x 533
20 x 20 x 21	7	1250	1500	2000	-	-	-	-	-	-	-	-	-	0.19	0.25	0.31	48.63	508 x 508 x 533
12 x 24 x 12	3	750	1000	1250	-	-	-	-	-	-	-	-	-	0.40	0.46	0.52	14.63	305 x 610 x 305

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

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

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

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

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

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

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PURAPAK®															
SIZE W x H x D NOMINAL	PKT NO.	AIR FLOW CAPACITY (CFM)			INITIAL RESISTANCE IN W.G.									MEDIA SQUARE FOOTAGE	SIZE W x H x D Nominal (MM)
					90-95% MERV 15			80-85% MERV 13			60-65% MERV 11				
24 x 24 x 15	6	1000	1250	1500	0.50	0.62	0.74	0.42	0.52	0.62	0.35	0.43	0.52	35.75	610 x 610 x 381
24 x 24 x 15	7	1000	1250	1500	0.47	0.57	0.70	0.39	0.48	0.59	0.33	0.40	0.49	41.71	610 x 610 x 381
24 x 24 x 15	8	1000	1250	1500	0.42	0.53	0.67	0.35	0.45	0.56	0.29	0.37	0.47	47.66	610 x 610 x 381
24 x 24 x 15	10	1000	1250	1500	0.38	0.45	0.60	0.32	0.38	0.50	0.26	0.31	0.42	59.58	610 x 610 x 381
24 x 24 x 15	12	1000	1250	1500	0.30	0.37	0.53	0.25	0.31	0.45	0.21	0.26	0.37	71.50	610 x 610 x 381
24 x 24 x 21	6	1000	1250	1500	0.43	0.56	0.64	0.36	0.47	0.54	0.30	0.39	0.45	48.75	610 x 610 x 533
24 x 24 x 21	8	1000	1500	2000	0.38	0.52	0.63	0.32	0.44	0.53	0.26	0.36	0.44	65.00	610 x 610 x 533
24 x 24 x 21	10	1000	1500	2000	0.34	0.45	0.58	0.29	0.38	0.49	0.24	0.31	0.40	81.25	610 x 610 x 533
24 x 24 x 25	6	1000	1500	2000	0.32	0.55	0.68	0.27	0.46	0.57	0.22	0.38	0.47	57.41	610 x 610 x 635
24 x 24 x 25	8	1000	1500	2000	0.23	0.41	0.59	0.19	0.34	0.50	0.16	0.29	0.41	76.55	610 x 610 x 635
24 x 24 x 25	10	1500	2000	2500	0.29	0.50	0.66	0.24	0.42	0.55	0.20	0.35	0.46	95.69	610 x 610 x 635
24 x 24 x 29	6	1500	2000	2500	0.51	0.62	0.74	0.43	0.52	0.62	0.36	0.43	0.52	66.08	610 x 610 x 737
24 x 24 x 29	8	1500	2000	2500	0.39	0.49	0.62	0.33	0.41	0.52	0.27	0.34	0.43	88.11	610 x 610 x 737
24 x 24 x 29	10	1500	2000	2500	0.25	0.41	0.58	0.21	0.34	0.49	0.17	0.29	0.40	110.13	610 x 610 x 737
24 x 24 x 36	6	1500	2000	2500	0.38	0.57	0.72	0.32	0.48	0.60	0.26	0.40	0.50	81.25	610 x 610 x 914
24 x 24 x 36	8	1500	2000	2500	0.29	0.48	0.61	0.24	0.40	0.51	0.20	0.33	0.43	108.83	610 x 610 x 914
24 x 24 x 36	10	1500	2000	2500	0.22	0.38	0.53	0.18	0.32	0.45	0.15	0.26	0.37	135.41	610 x 610 x 914
20 x 24 x 15	6	850	1050	1250	0.50	0.62	0.74	0.42	0.52	0.62	0.35	0.43	0.52	35.75	508 x 610 x 381
20 x 24 x 15	8	850	1050	1250	0.42	0.53	0.67	0.35	0.45	0.56	0.29	0.37	0.47	47.66	508 x 610 x 381
20 x 24 x 15	10	850	1050	1250	0.38	0.45	0.60	0.32	0.38	0.50	0.26	0.31	0.42	59.58	508 x 610 x 381
20 x 24 x 21	6	850	1050	1250	0.43	0.56	0.64	0.36	0.47	0.54	0.30	0.39	0.45	48.75	508 x 610 x 533
20 x 24 x 21	8	850	1250	1650	0.38	0.52	0.63	0.32	0.44	0.53	0.26	0.36	0.44	65.00	508 x 610 x 533
20 x 24 x 21	10	850	1250	1650	0.34	0.45	0.58	0.29	0.38	0.49	0.24	0.31	0.40	81.25	508 x 610 x 533
20 x 24 x 25	6	850	1250	1650	0.32	0.55	0.68	0.27	0.46	0.57	0.22	0.38	0.47	57.41	508 x 610 x 533
20 x 24 x 25	8	850	1250	1650	0.23	0.41	0.59	0.19	0.34	0.50	0.16	0.29	0.41	76.55	508 x 610 x 533
20 x 24 x 25	10	1250	1650	2100	0.29	0.50	0.66	0.24	0.42	0.55	0.20	0.35	0.46	95.69	508 x 610 x 533
20 x 24 x 29	6	1250	1650	2100	0.51	0.62	0.74	0.43	0.52	0.62	0.36	0.43	0.52	66.08	508 x 610 x 737
20 x 24 x 29	8	1250	1650	2100	0.39	0.49	0.62	0.33	0.41	0.52	0.27	0.34	0.43	88.11	508 x 610 x 737
20 x 24 x 29	10	1250	1650	2100	0.25	0.41	0.58	0.21	0.34	0.49	0.17	0.29	0.40	110.13	508 x 610 x 737
20 x 24 x 36	6	1250	1650	2100	0.38	0.57	0.72	0.32	0.48	0.60	0.26	0.40	0.50	81.25	508 x 610 x 914
20 x 24 x 36	8	1250	1650	2100	0.29	0.48	0.61	0.24	0.40	0.51	0.20	0.33	0.43	108.83	508 x 610 x 914
20 x 24 x 36	10	1250	1650	2100	0.22	0.38	0.53	0.18	0.32	0.45	0.15	0.26	0.37	135.41	508 x 610 x 914
12 x 24 x 15	3	500	625	750	0.50	0.62	0.74	0.42	0.52	0.62	0.35	0.43	0.52	17.87	305 x 610 x 381
12 x 24 x 15	4	500	625	750	0.42	0.53	0.67	0.35	0.45	0.56	0.29	0.37	0.47	23.83	305 x 610 x 381
12 x 24 x 15	5	500	625	750	0.38	0.45	0.60	0.32	0.38	0.50	0.26	0.31	0.42	29.79	305 x 610 x 381
12 x 24 x 15	6	500	625	750	0.30	0.37	0.53	0.25	0.31	0.45	0.21	0.26	0.37	35.75	305 x 610 x 381
12 x 24 x 21	3	500	625	750	0.43	0.56	0.64	0.36	0.47	0.54	0.30	0.39	0.45	24.37	305 x 610 x 533
12 x 24 x 21	4	500	750	1000	0.38	0.52	0.63	0.32	0.44	0.53	0.26	0.36	0.44	32.50	305 x 610 x 533
12 x 24 x 21	5	500	750	1000	0.34	0.45	0.58	0.29	0.38	0.49	0.24	0.31	0.40	40.63	305 x 610 x 533
12 x 24 x 25	3	500	750	1000	0.32	0.55	0.68	0.27	0.46	0.57	0.22	0.38	0.47	28.70	305 x 610 x 635
12 x 24 x 25	4	500	750	1000	0.23	0.41	0.59	0.19	0.34	0.50	0.16	0.29	0.41	38.27	305 x 610 x 635
12 x 24 x 25	5	750	1000	1250	0.29	0.50	0.66	0.24	0.42	0.55	0.20	0.35	0.46	47.84	305 x 610 x 635
12 x 24 x 29	3	750	1000	1250	0.51	0.62	0.74	0.43	0.52	0.62	0.36	0.43	0.52	33.04	305 x 610 x 737
12 x 24 x 29	4	750	1000	1250	0.39	0.49	0.62	0.33	0.41	0.52	0.27	0.34	0.43	44.05	305 x 610 x 737
12 x 24 x 29	5	750	1000	1250	0.25	0.41	0.58	0.21	0.34	0.49	0.17	0.29	0.40	55.07	305 x 610 x 737
12 x 24 x 36	3	750	1000	1250	0.38	0.57	0.72	0.32	0.48	0.60	0.26	0.40	0.50	40.62	305 x 610 x 914
12 x 24 x 36	4	750	1000	1250	0.29	0.48	0.61	0.24	0.40	0.51	0.20	0.33	0.43	54.16	305 x 610 x 914
12 x 24 x 36	5	750	1000	1250	0.22	0.38	0.53	0.18	0.32	0.45	0.15	0.26	0.37	67.70	305 x 610 x 914

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

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

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

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

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

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

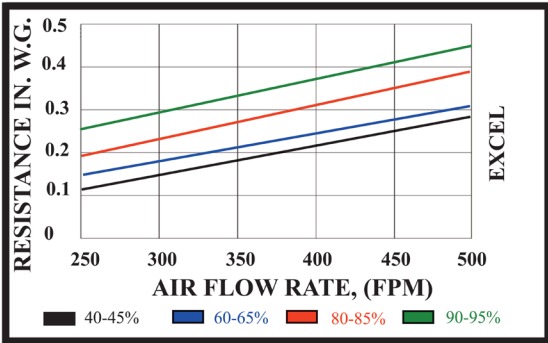
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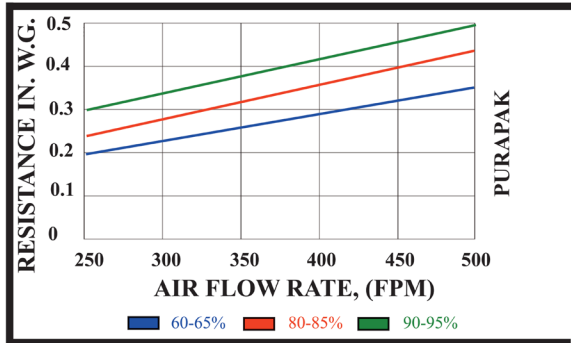
### INITIAL PRESSURE DROP

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



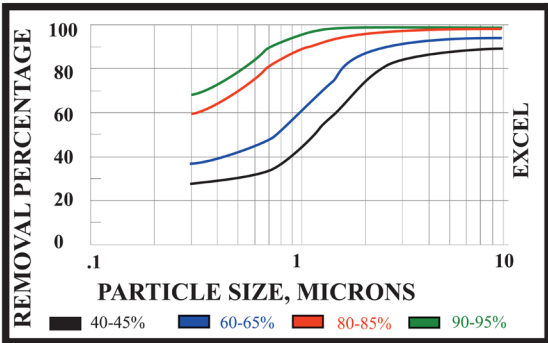
### INITIAL PRESSURE DROP

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



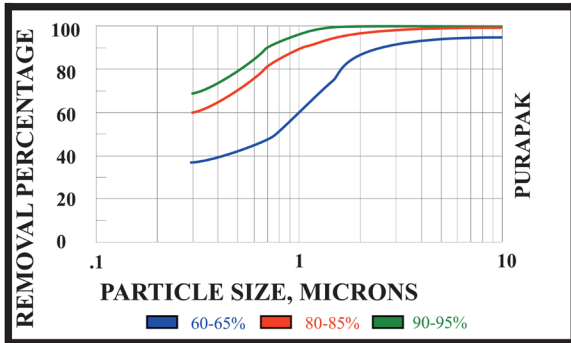
### MINIMUM PARTICLE SIZE EFFICIENCY

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% MERV 9 6 = 60-65% MERV 11 8 = 80-85% MERV 13 9 = 90-95% MERV 15	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 = 1 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:

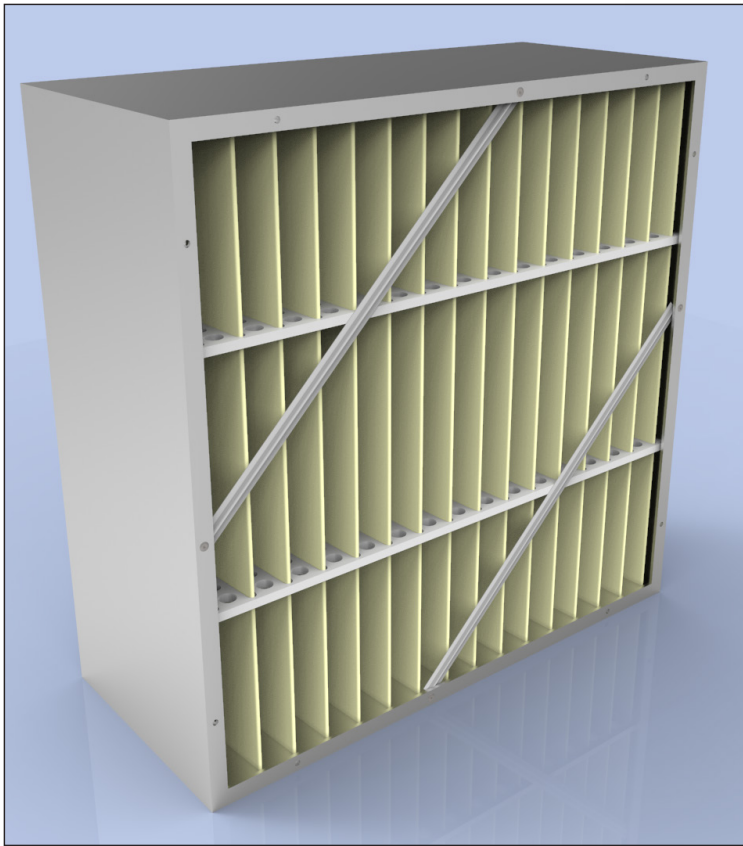
90-95%	MERV 15	Yellow	
80-85%	MERV 13	Pink	
60-65%	MERV 11	Orange	
40-45%	MERV 9	*White	
*Synthetic only			



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### Product Highlights

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

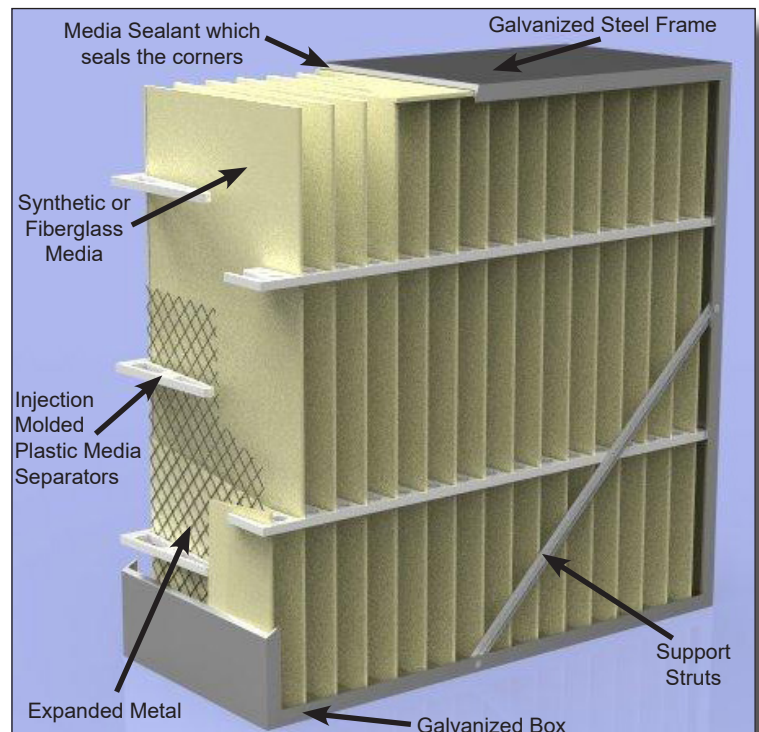
### Features

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.

### Specifications

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.

Efficiency	40-45%	60-65%	80-85%	90-95%
MERV	9 (Synthetic only)	11	13	14/15



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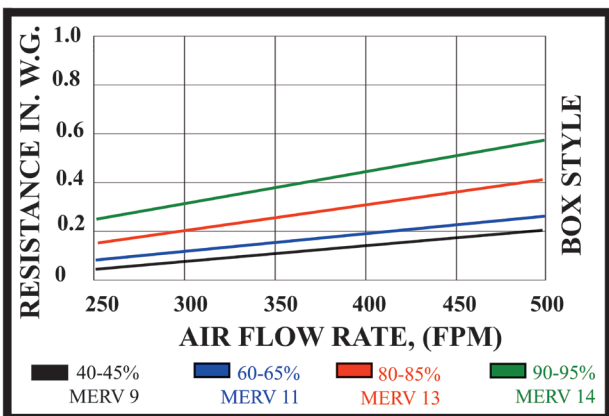
## Z-PAK® SYNTHETIC SERIES

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 FOOT
				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	0.55	0.65	1.50	58.33
ZPS122412	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	0.55	0.65	1.50	29.17
ZPS202012	20 X 20 X 12	19-3/8 X 19-3/8 X 11-1/2	500	0.55	0.65	1.50	42.66
ZPS202412	20 X 24 X 12	19-3/8 X 23-3/8 X 11-1/2	500	0.55	0.65	1.50	47.40
ZPS252012	25 X 20 X 12	24-3/8 X 19-3/8 X 11-1/2	500	0.55	0.65	1.50	55.78
ZPS24246	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	0.29	0.37	1.50	26.39
ZPS12246	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	0.29	0.37	1.50	13.20
ZPS20206	20 X 20 X 6	19-3/8 X 19-3/8 X 5-7/8	250	0.29	0.37	1.50	19.30
ZPS20246	20 X 24 X 6	19-3/8 X 23-3/8 X 5-7/8	250	0.29	0.37	1.50	21.45
ZPS25206	25 X 20 X 6	24-3/8 X 19-3/8 X 5-7/8	250	0.29	0.37	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	0.40	0.54	1.50	58.33
ZPS122412	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	0.40	0.54	1.50	29.17
ZPS202012	20 X 20 X 12	19-3/8 X 19-3/8 X 11-1/2	500	0.40	0.54	1.50	42.66
ZPS202412	20 X 24 X 12	19-3/8 X 23-3/8 X 11-1/2	500	0.40	0.54	1.50	47.40
ZPS252012	25 X 20 X 12	24-3/8 X 19-3/8 X 11-1/2	500	0.40	0.54	1.50	55.78
ZPS24246	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	0.22	0.28	1.50	26.39
ZPS12246	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	0.22	0.28	1.50	13.20
ZPS20206	20 X 20 X 6	19-3/8 X 19-3/8 X 5-7/8	250	0.22	0.28	1.50	19.30
ZPS20246	20 X 24 X 6	19-3/8 X 23-3/8 X 5-7/8	250	0.22	0.28	1.50	21.45
ZPS25206	25 X 20 X 6	24-3/8 X 19-3/8 X 5-7/8	250	0.22	0.28	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	0.24	0.34	1.50	58.33
ZPS122412	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	0.24	0.34	1.50	29.17
ZPS202012	20 X 20 X 12	19-3/8 X 19-3/8 X 11-1/2	500	0.24	0.34	1.50	42.66
ZPS202412	20 X 24 X 12	19-3/8 X 23-3/8 X 11-1/2	500	0.24	0.34	1.50	47.40
ZPS252012	25 X 20 X 12	24-3/8 X 19-3/8 X 11-1/2	500	0.24	0.34	1.50	55.78
ZPS24246	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	0.14	0.22	1.50	26.39
ZPS12246	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	0.14	0.22	1.50	13.20
ZPS20206	20 X 20 X 6	19-3/8 X 19-3/8 X 5-7/8	250	0.14	0.22	1.50	19.30
ZPS20246	20 X 24 X 6	19-3/8 X 23-3/8 X 5-7/8	250	0.14	0.22	1.50	21.45
ZPS25206	25 X 20 X 6	24-3/8 X 19-3/8 X 5-7/8	250	0.14	0.22	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	0.20	0.25	1.50	58.33
ZPS122412	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	0.20	0.25	1.50	29.17
ZPS202012	20 X 20 X 12	19-3/8 X 19-3/8 X 11-1/2	500	0.20	0.25	1.50	42.66
ZPS202412	20 X 24 X 12	19-3/8 X 23-3/8 X 11-1/2	500	0.20	0.25	1.50	47.40
ZPS252012	25 X 20 X 12	24-3/8 X 19-3/8 X 11-1/2	500	0.20	0.25	1.50	55.78
ZPS24246	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	0.11	0.16	1.50	26.39
ZPS12246	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	0.11	0.16	1.50	13.20
ZPS20206	20 X 20 X 6	19-3/8 X 19-3/8 X 5-7/8	250	0.11	0.16	1.50	19.30
ZPS20246	20 X 24 X 6	19-3/8 X 23-3/8 X 5-7/8	250	0.11	0.16	1.50	21.45
ZPS25206	25 X 20 X 6	24-3/8 X 19-3/8 X 5-7/8	250	0.11	0.16	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.

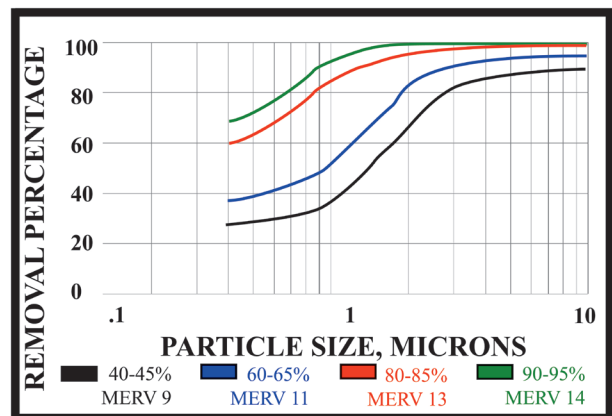
### STANDARD PRESSURE DROP

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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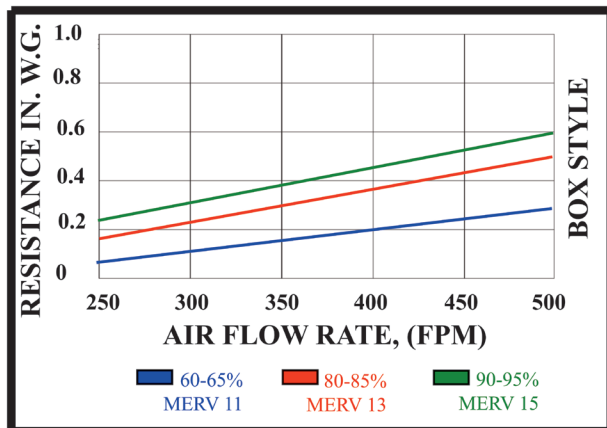
## Z-PAK® FIBERGLASS SERIES

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 FOOT
				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	0.32	0.48	1.50	58.33
ZPK122412	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	0.32	0.48	1.50	29.17
ZPK202012	20 X 20 X 12	19-3/8 X 19-3/8 X 11-1/2	500	0.32	0.48	1.50	42.66
ZPK202412	20 X 24 X 12	19-3/8 X 23-3/8 X 11-1/2	500	0.32	0.48	1.50	47.40
ZPK252012	25 X 20 X 12	24-3/8 X 19-3/8 X 11-1/2	500	0.32	0.48	1.50	55.78
ZPK24246	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	0.21	0.28	1.50	26.39
ZPK12246	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	0.21	0.28	1.50	13.20
ZPK20206	20 X 20 X 6	19-3/8 X 19-3/8 X 5-7/8	250	0.21	0.28	1.50	19.30
ZPK20246	20 X 24 X 6	19-3/8 X 23-3/8 X 5-7/8	250	0.21	0.28	1.50	21.45
ZPK25206	25 X 20 X 6	24-3/8 X 19-3/8 X 5-7/8	250	0.21	0.28	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.

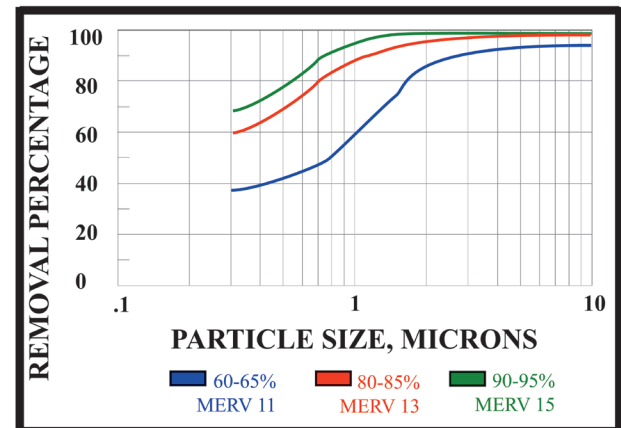
### STANDARD PRESSURE DROP

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

PREFIX	MEDIA	FILTER SIZE	EFFICIENCY	FRAME STYLE	GASKET LOCATION															
ZP	S=Synthetic K=Fiberglass	Numerical Filter Size i.e. 242412	45=40-45% MERV 9 65=60-65% MERV 11 85=80-85% MERV 13 95=90-95% MERV 14/15	B = Box H=Header DH=Double Header	O = No Gasket															
					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 33%;">BOX STYLE</th> <th style="width: 33%;">SINGLE HEADER</th> <th style="width: 33%;">DOUBLE HEADER</th> </tr> <tr> <td>A=Air Exit</td> <td>E=Air Entry/Exit</td> <td>K=Air Entry/Exit</td> </tr> <tr> <td>B=Air Entry</td> <td>F=Air Entry</td> <td>M=Air Entry</td> </tr> <tr> <td>C=Air Entry/Exit</td> <td>H=Air Exit</td> <td>P=Air Exit</td> </tr> <tr> <td>D=Side Load</td> <td>J=Side Load</td> <td>Q=Side Load</td> </tr> </table>	BOX STYLE	SINGLE HEADER	DOUBLE HEADER	A=Air Exit	E=Air Entry/Exit	K=Air Entry/Exit	B=Air Entry	F=Air Entry	M=Air Entry	C=Air Entry/Exit	H=Air Exit	P=Air Exit	D=Side Load	J=Side Load	Q=Side Load
BOX STYLE	SINGLE HEADER	DOUBLE HEADER																		
A=Air Exit	E=Air Entry/Exit	K=Air Entry/Exit																		
B=Air Entry	F=Air Entry	M=Air Entry																		
C=Air Entry/Exit	H=Air Exit	P=Air Exit																		
D=Side Load	J=Side Load	Q=Side Load																		

Example: Synthetic, 24 x 24 x 12, 95%, box frame, gasket on air exit  
**PART NUMBER = "ZPS24241295BA"**

## 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)

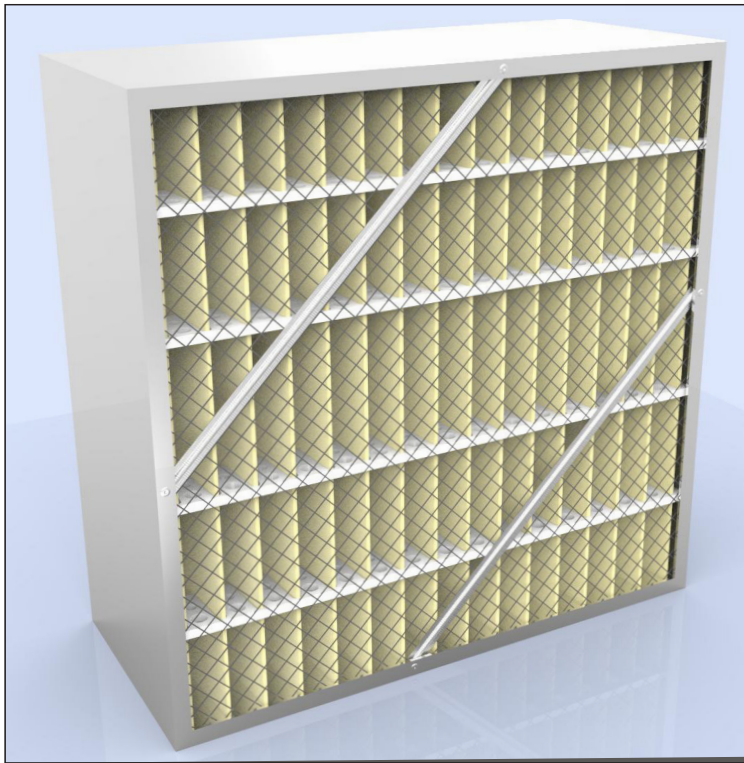
Glasfloss® Z-Pak® Series incorporates media that is color-coded to identify efficiency:

90-95%	MERV 15	Yellow	
80-85%	MERV 13	Pink	
60-65%	MERV 11	Orange	
40-45%	MERV 9	*White	
*Synthetic only			

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### Product Highlights

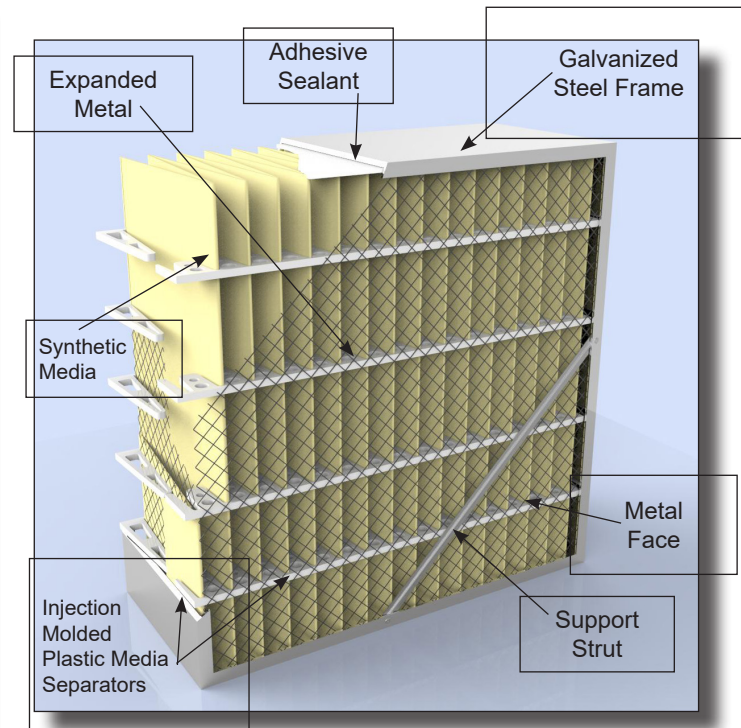
- Heavy-Duty Construction for Gas Turbine Applications
- Synthetic Media for Extra Durability and Moisture Resistance
- Injection Molded Pleat Separators
- Extra Durability for Demanding HVAC Applications
- MERV 11, 13 and 14

### Specifications

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."

### 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.



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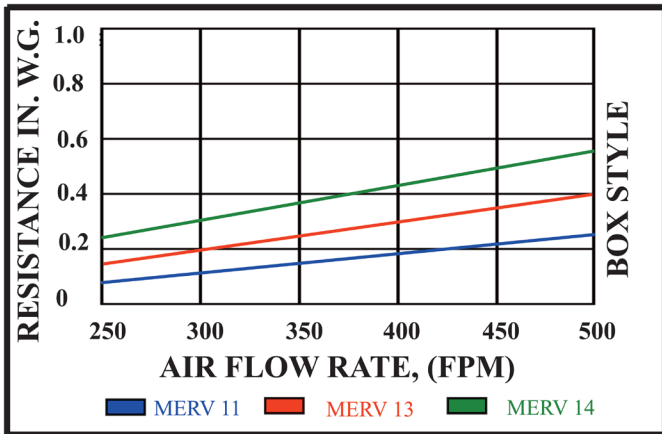
## Z-PAK® GT SERIES

MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VEL. FPM	INITIAL RESIST. IN. W.G.	FINAL RESIST. IN. W.G.	MEDIA SQUARE FOOT	WEIGHT (lbs)
<b>MERV 14</b>							
ZPS24241295BOGT	24 X 24 X 12	23-3/8 X 23-3/8 X 11-1/2	500	0.55	1.50	58.33	20
ZPS12241295BOGT	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	0.55	1.50	29.17	14
ZPS2424695BOGT	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	0.29	1.50	26.39	11
ZPS1224695BOGT	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	0.29	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	0.41	1.50	58.33	20
ZPS12241285BOGT	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	0.41	1.50	29.17	14
ZPS2424685BOGT	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	0.23	1.50	26.39	11
ZPS1224685BOGT	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	0.23	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	0.24	1.50	58.33	20
ZPS12241265BOGT	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	0.24	1.50	29.17	14
ZPS2424665BOGT	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	0.14	1.50	26.39	11
ZPS1224665BOGT	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	0.14	1.50	13.20	8

\* Model Number represents a non-gasketed filter.

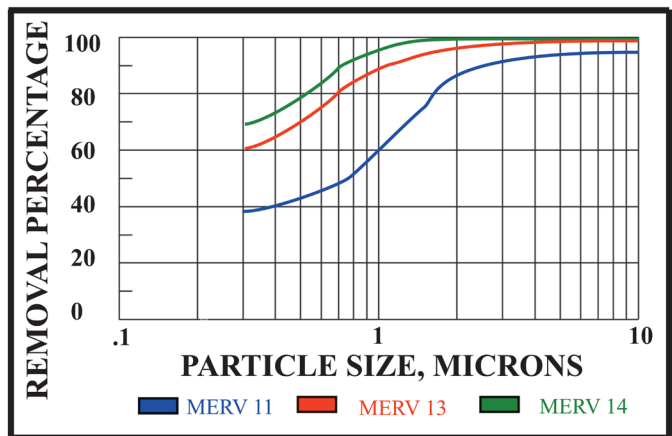
### STANDARD PRESSURE DROP

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



### MINIMUM PARTICLE SIZE EFFICIENCY

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



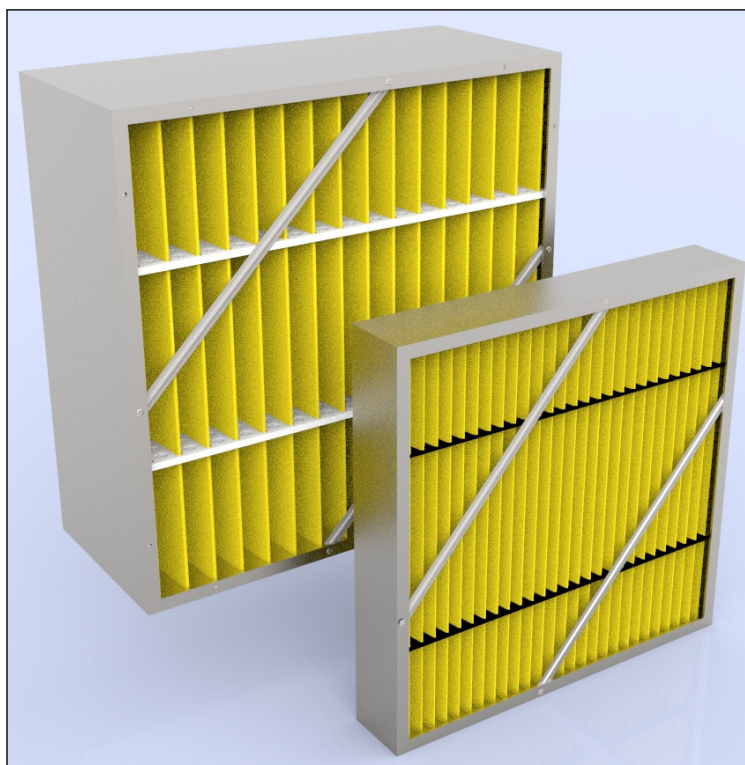
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### Product Highlights

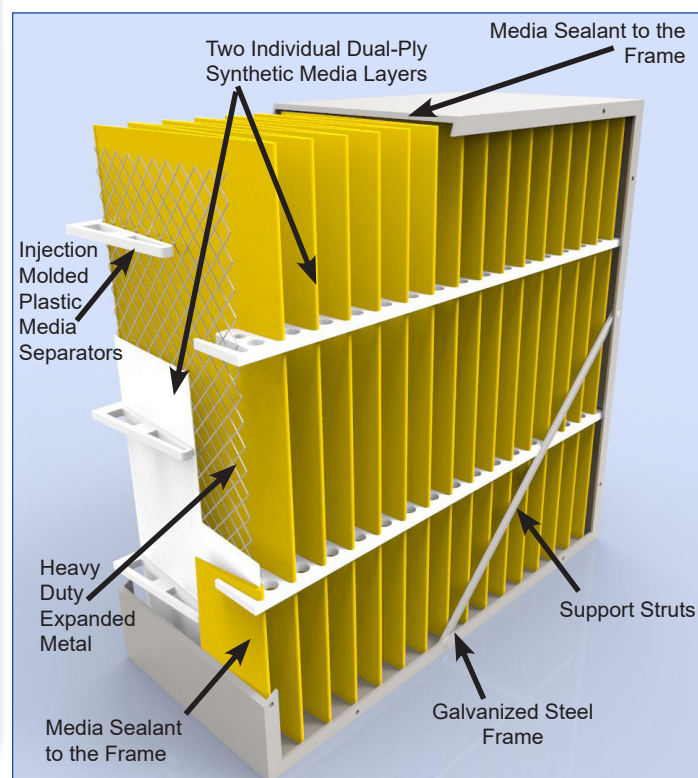
- Low Pressure Drop and Superior Service Life
- Two Individual Dual Ply Synthetic Media Layers
- Injection Molded Pleat Separators
- Header or Box Styles
- High Dust Holding Capacity
- Ideal for VAV Systems

### Features

Glasfloss® Z-Pak® HC air filters are designed for high efficiency applications and feature very low pressure drop, two individual filtration media layers 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.

### Specifications

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.



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PRODUCT BULLETIN 9ZPAKHC · SECTION 9 · 8/1/25

## Z-PAK<sup>®</sup> HC SYNTHETIC SERIES

BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VEL. FPM	INITIAL RESIST. IN. W.G.		FINAL RESIST. IN. W.G.	MEDIA SQUARE FOOTAGE	
				BOX	HEADER		BOX	HEADER
ZPS242412	24 X 24 X 12	23-3/8 X 23-3/8 X 11-1/2	500	0.28	0.35	1.50	58.33	52.50
ZPS122412	12 X 24 X 12	11-3/8 X 23-3/8 X 11-1/2	500	0.28	0.35	1.50	29.17	26.25
ZPS202412	20 X 24 X 12	19-3/8 X 23-3/8 X 11-1/2	500	0.28	0.35	1.50	47.40	42.66
ZPS24246	24 X 24 X 6	23-3/8 X 23-3/8 X 5-7/8	250	0.24	0.29	1.50	26.39	23.75
ZPS12246	12 X 24 X 6	11-3/8 X 23-3/8 X 5-7/8	250	0.24	0.29	1.50	13.20	11.88
ZPS20246	20 X 24 X 6	19-3/8 X 23-3/8 X 5-7/8	250	0.24	0.29	1.50	21.45	19.30
ZPS24244	24 X 24 X 4	23-3/8 X 23-3/8 X 3-3/4	250	0.23	0.28	1.50	38.91	35.10
ZPS12244	12 X 24 X 4	11-3/8 X 23-3/8 X 3-3/4	250	0.23	0.28	1.50	18.95	17.15
ZPS20244	20 X 24 X 4	19-3/8 X 23-3/8 X 3-3/4	250	0.23	0.28	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.

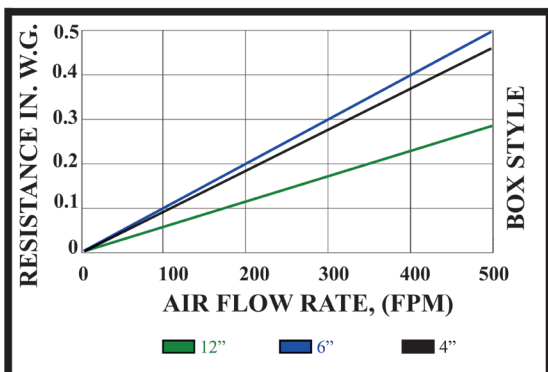
### PART NUMBER CONFIGURATION

PREFIX	MEDIA	FILTER SIZE	EFFICIENCY	FRAME STYLE	GASKET LOCATION	SUFFIX
ZP	S = Synthetic	NUMERICAL FILTER SIZE i.e. 242412	95 = MERV 14	B = Box H = Header DH = Double Header	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	HC

Example: Synthetic, 24 x 24 x 12, 95%, box frame, gasket on air exit - PART NUMBER = "ZPS24241295BAHC"

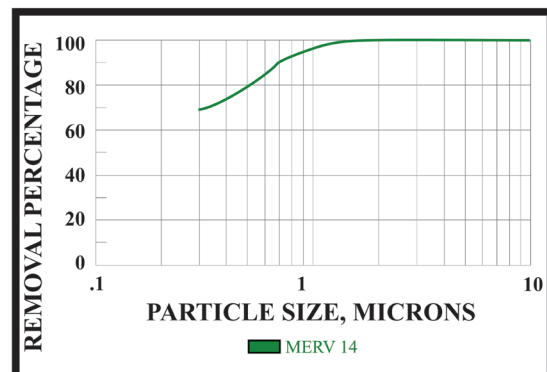
#### STANDARD PRESSURE DROP

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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## Product Highlights

- 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

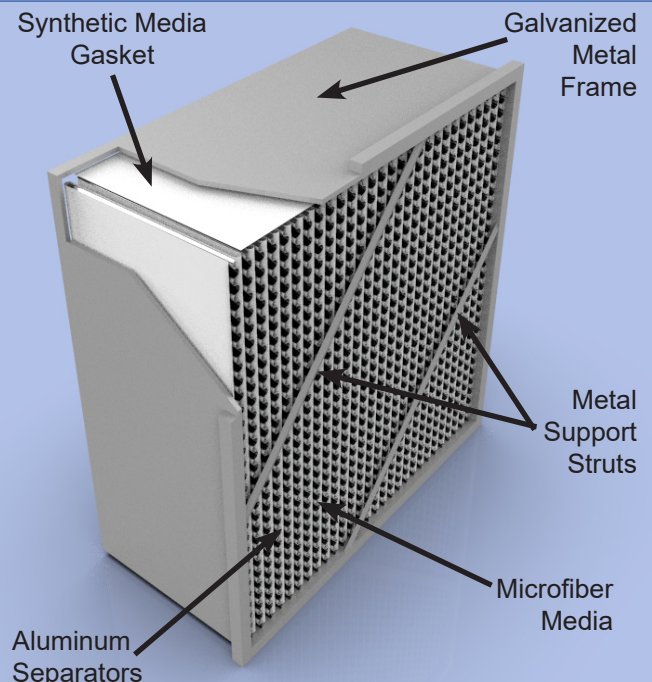
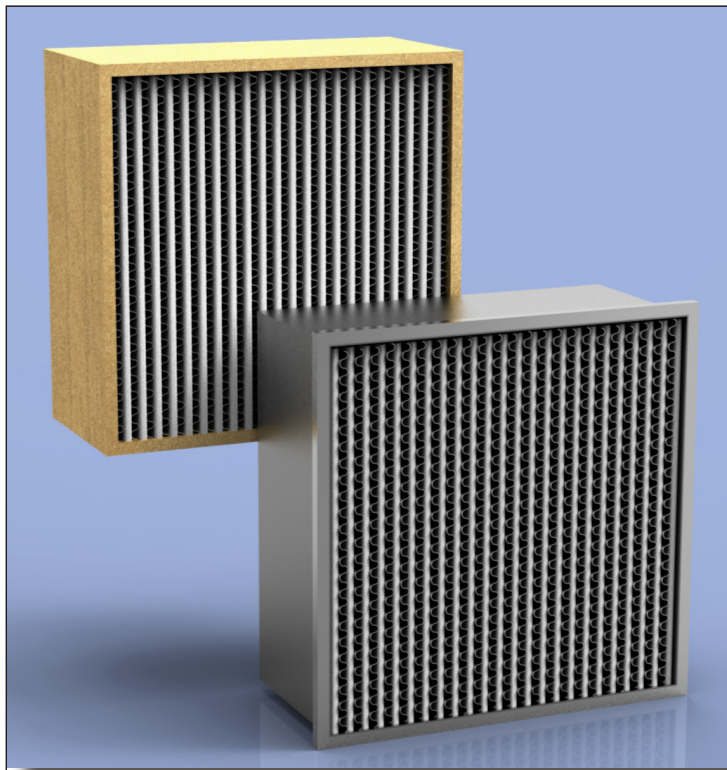
## Features

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.

## Specifications

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.

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 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	
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	0.20	0.30	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	0.20	0.30	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	0.20	0.30	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	0.20	0.30	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	0.20	0.30	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	0.20	0.30	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	0.20	0.30	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	0.20	0.30	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	0.50	0.55	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	0.50	0.55	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	0.50	0.55	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	0.50	0.55	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	0.50	0.55	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	0.50	0.55	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	0.50	0.55	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	0.50	0.55	95.16	508 x 635 x 305	9150	124.4	136.8

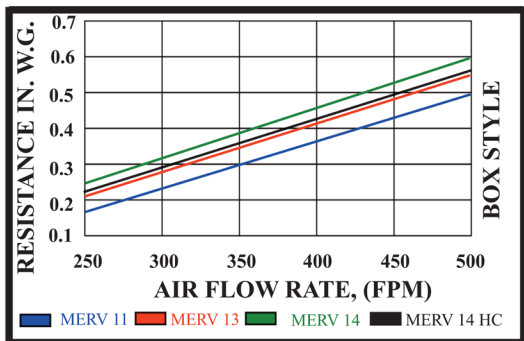
## 900 Series: MERV 14

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 FOOT		SIZE W x H 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	0.35	-	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	0.35	-	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	0.35	-	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	0.35	-	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	0.35	-	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	0.35	-	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	0.35	-	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	0.35	-	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	0.60	0.55	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	0.60	0.55	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	0.60	0.55	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	0.60	0.55	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	0.60	0.55	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	0.60	0.55	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	0.60	0.55	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	0.60	0.55	95.16	114.19	508 x 635 x 305	9150	149.3	136.8

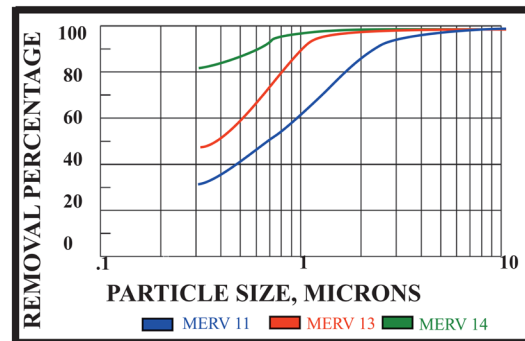
Tolerances shall be +/- 1/16" for height and width. The frame depth shall not exceed 5-7/8" and 11-1/2". High Capacity MERV 14 Magna filters contains 20% more media.

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

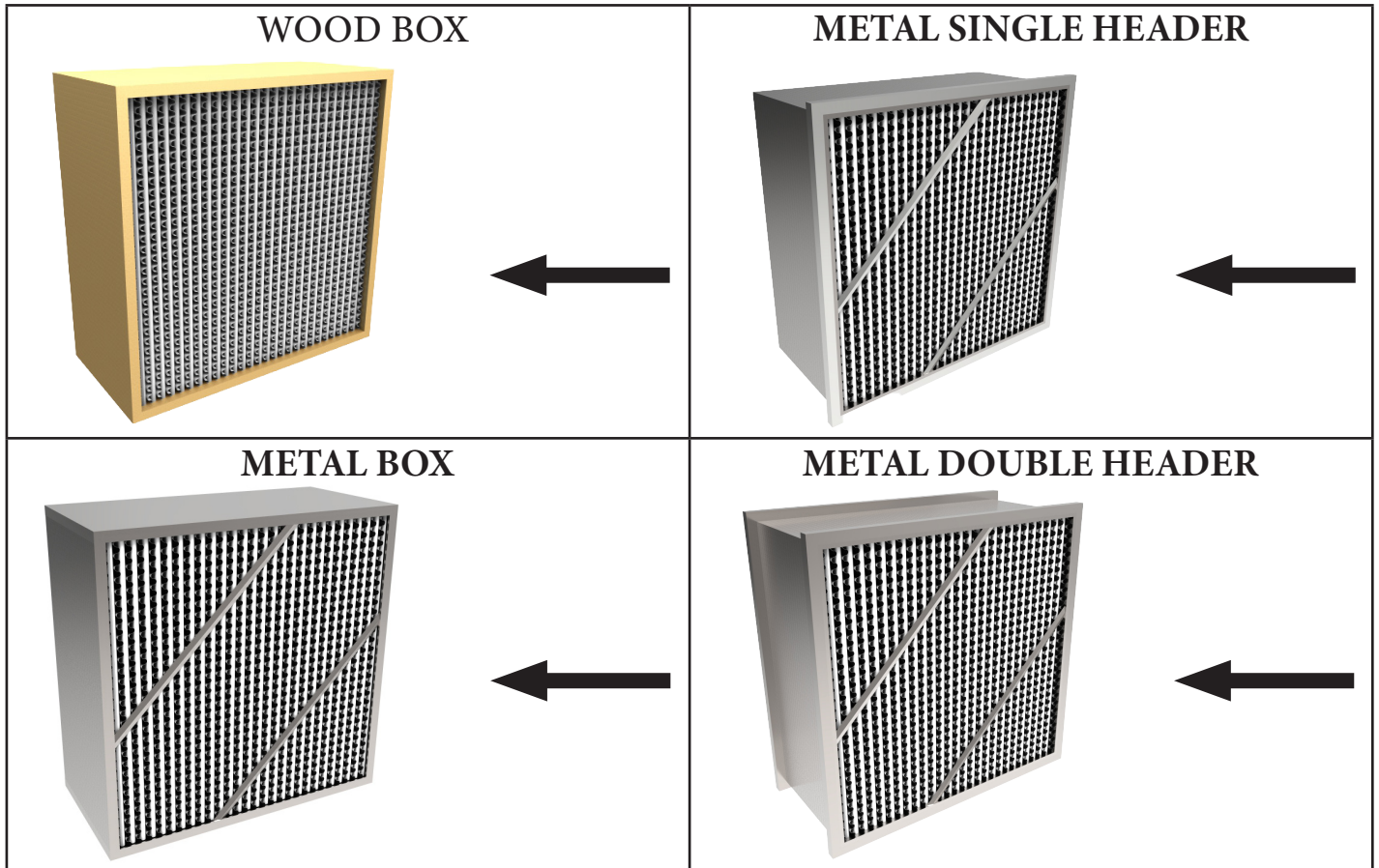


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## PART NUMBER CONFIGURATION

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	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			X = None 1=Back Side 2=Front Side 3=Both Sides	Blank=Regular H=Hi Capacity
				<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		

Example: Particle Board, 24 x 24 x 12, MERV 14, box frame, gasket on air exit, high capacity - PART NUMBER = "MAGP2424B3AXHC"



**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 chafing 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

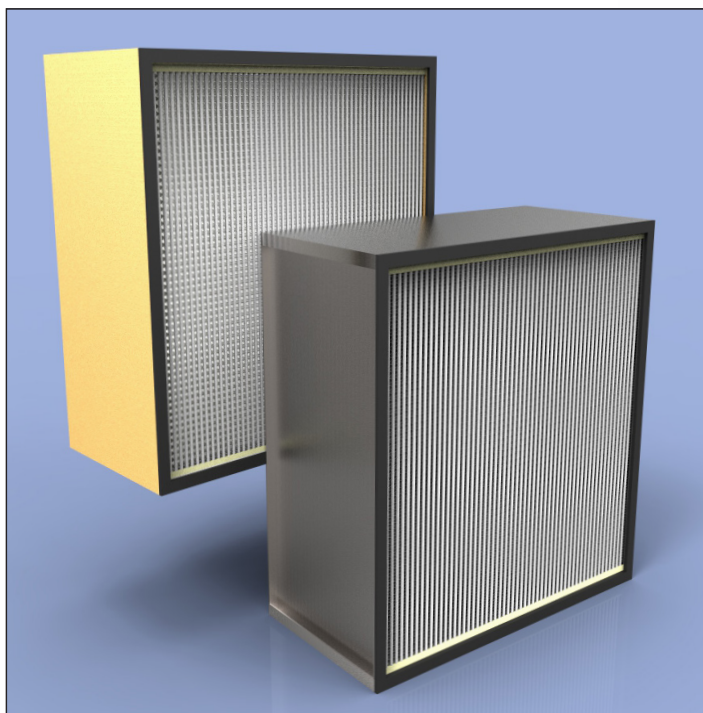
The filter element shall be factory-constructed by pleating a continuous sheet of glass microfiber media into uniform spaced pleats which are separated by rolled-edge corrugated aluminum. The filter pack shall be encased in a rigid frame of 3/4" particleboard or 26-gauge galvanized metal. The media pack 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.



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## Product Highlights

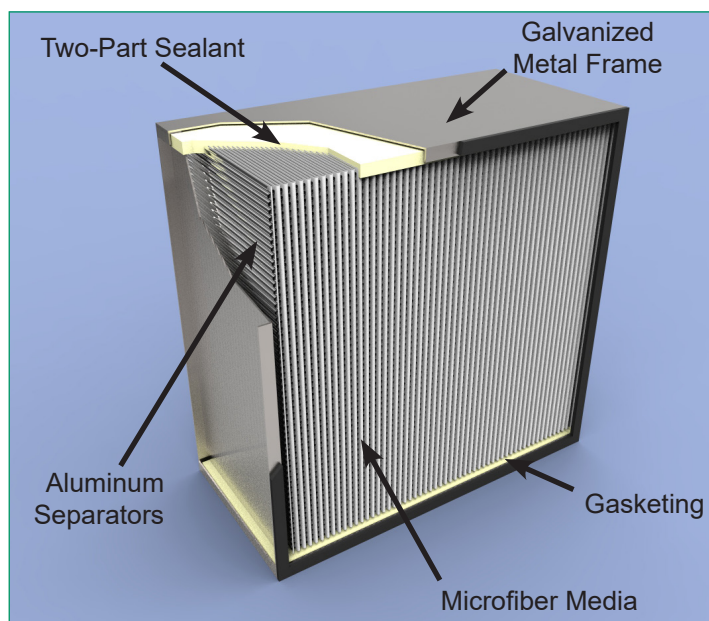
- High Efficiency Glass Microfiber
- Heavy-Duty 3/4" Particleboard or Galvanized Metal Frames
- Two-Part Polyurethane Sealant
- Standard Neoprene Gasketing
- High Capacity Filters Available

## 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.

## Specifications

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 180o Fahrenheit. The 95% (MERV 16), 99.97%, 99.99% and 99.999% Magna filters shall be Classified under U. L. Std. 900.



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PRODUCT BULLETIN 10B-2MAG · SECTION 10 · 8/1/25

BASE MODEL NUMBER	SIZE W x H x D EXACT	RATED VELOCITY FPM			INITIAL RESIST. IN. W.G.			MEDIA SQUARE FOOT			INITIAL RESIST. IN. W.G.			MEDIA SQUARE FOOT		
		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%</b>																
<b>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	-

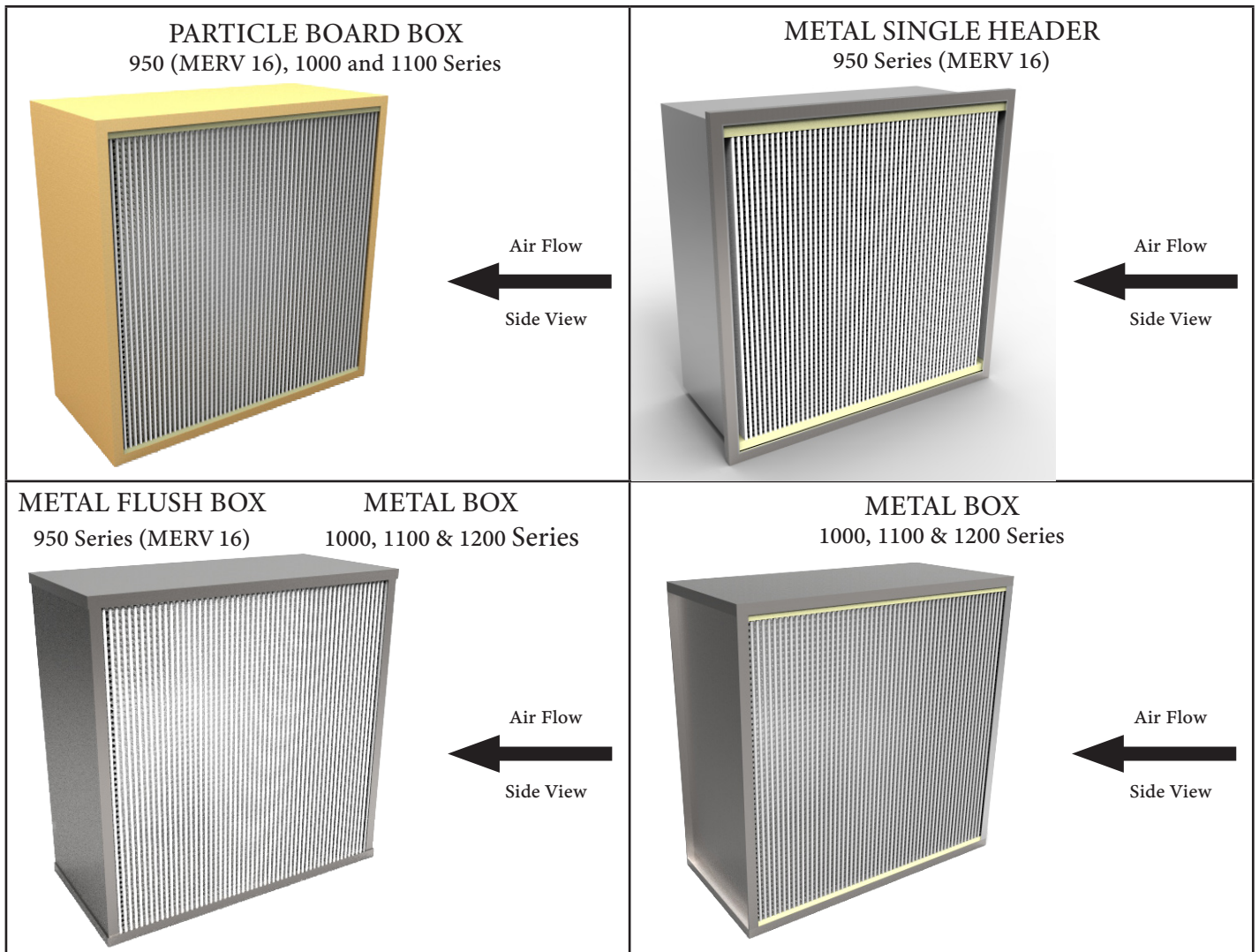
\*Available in particle board only. Tolerances shall be +/- 1/16" for height and width. The frame depth shall not exceed 5-7/8" and 11-1/2".  
Hi Capacity contains approx. 20% more media, Super High Capacity contains approx. 35% more media.

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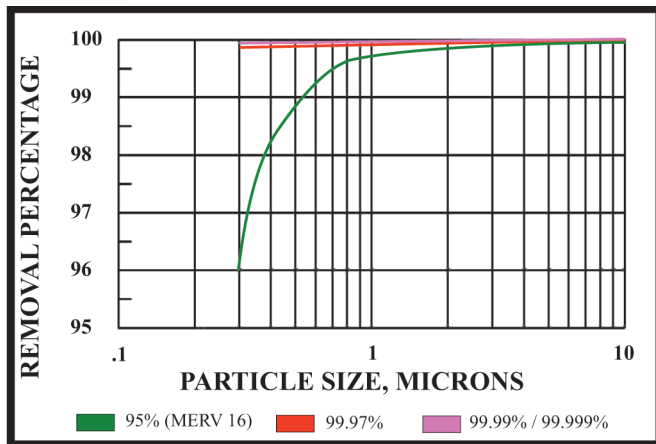
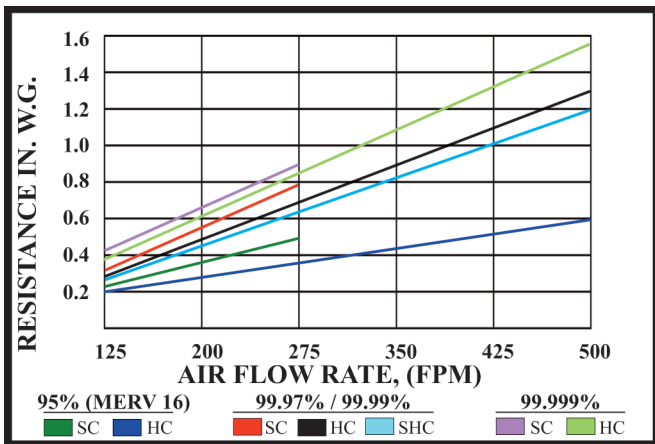
## PART NUMBER CONFIGURATION

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 Number from chart for desired size and efficiency, or insert exact size and efficiency for special size Magna filters	O=No Gasket	X=None 1=Back Side 2=Front Side 3=Both Sides	BLANK=Regular L=Low H=High S=Super High						
				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 33%;">BOX STYLE</th> <th style="width: 33%;">SINGLE HEADER</th> <th style="width: 33%;">DOUBLE HEADER</th> </tr> <tr> <td>A=Air Exit B=Air Entry C=Air Exit/Entry D=Side Load</td> <td>0=No Gasket E=Air Entry/Exit F=Air Entry H=Air Exit J=Side Load S=One Vertical Side</td> <td>O=No Gasket K=Air Entry/Exit M=Air Entry P=Air Exit Q=Side Load</td> </tr> </table>	BOX STYLE	SINGLE HEADER	DOUBLE HEADER	A=Air Exit B=Air Entry C=Air Exit/Entry D=Side Load	0=No Gasket E=Air Entry/Exit F=Air Entry H=Air Exit J=Side Load S=One Vertical Side	O=No Gasket K=Air Entry/Exit M=Air Entry P=Air Exit Q=Side Load		
BOX STYLE	SINGLE HEADER	DOUBLE HEADER										
A=Air Exit B=Air Entry C=Air Exit/Entry D=Side Load	0=No Gasket E=Air Entry/Exit F=Air Entry H=Air Exit J=Side Load S=One Vertical Side	O=No Gasket K=Air Entry/Exit M=Air Entry P=Air Exit Q=Side Load										

Example: Particle Board, 24 x 24 x 12, MERV 16, box frame, gasket on air exit, high capacity - PART NUMBER = "MAGP2424B4AXH"



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**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**

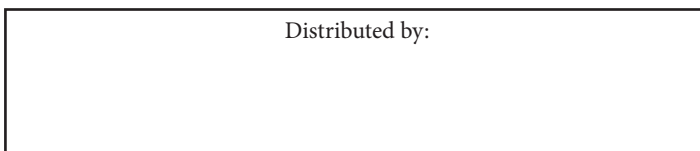
The filter element shall be factory-constructed by pleating a continuous sheet of glass microfiber media into uniform spaced pleats which are separated by rolled-edge corrugated aluminum. The efficiency shall be 95% (MERV 16), 99.97%, 99.99% or 99.999% based on a near-monodispersed .30 micron size particle. 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.



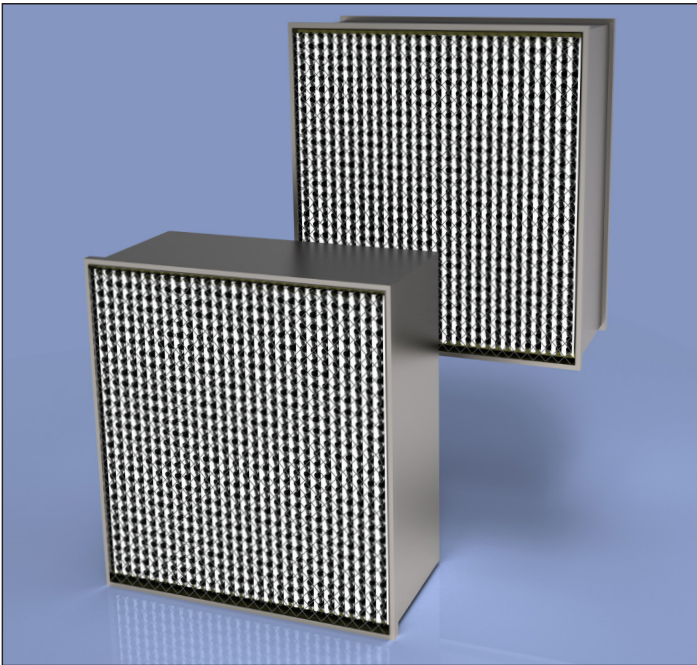
Glasfloss manufactures a variety of medium and high efficiency air filters which can be specified for LEED certification applications. For specific information on these products, please contact your local Glasfloss Sales Representative.



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## Product Highlights

- 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

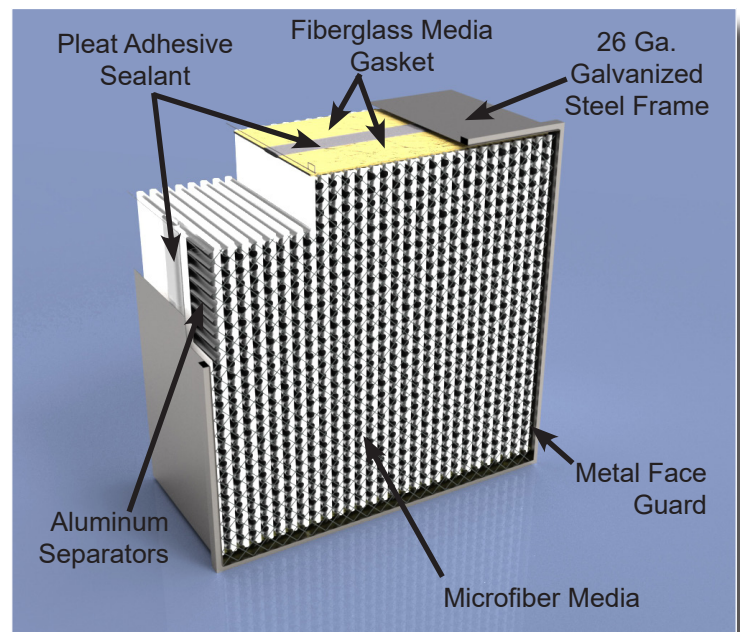
## Specifications

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:

Efficiency	60-65%	90-95%
MERV	11	14

## Features

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.



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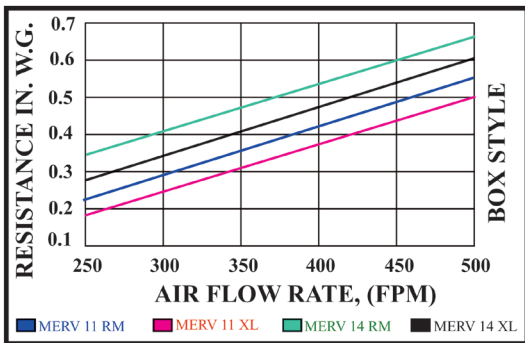
## Magna GT Gas Turbine Series

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 FOOT		SIZE H x W x D NOMINAL MM	RATED VELOCITY M/H		MEDIA SQUARE FOOT	
			RM	XL	RM	XL	RM	XL		RM	XL	RM	XL
<b>600 Series 60-65%</b>													
2412A1	24 x 12 x 6	23-3/8 x 11-3/8 x 5-7/8	250	250	0.30	.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	0.30	.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	0.55	.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	0.55	.50	105.79	138.34	610 x 610 x 305	9150	9150	136.84	124.4
<b>900 Series 90-95%</b>													
2412A3	24 x 12 x 6	23-3/8 x 11-3/8 x 5-7/8	250	250	0.40	0.35	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	0.40	0.35	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	0.65	0.60	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	0.65	0.60	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.

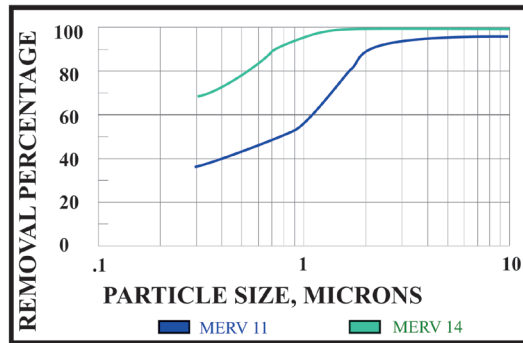
### STANDARD PRESSURE DROP

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



### MINIMUM PARTICLE SIZE EFFICIENCY

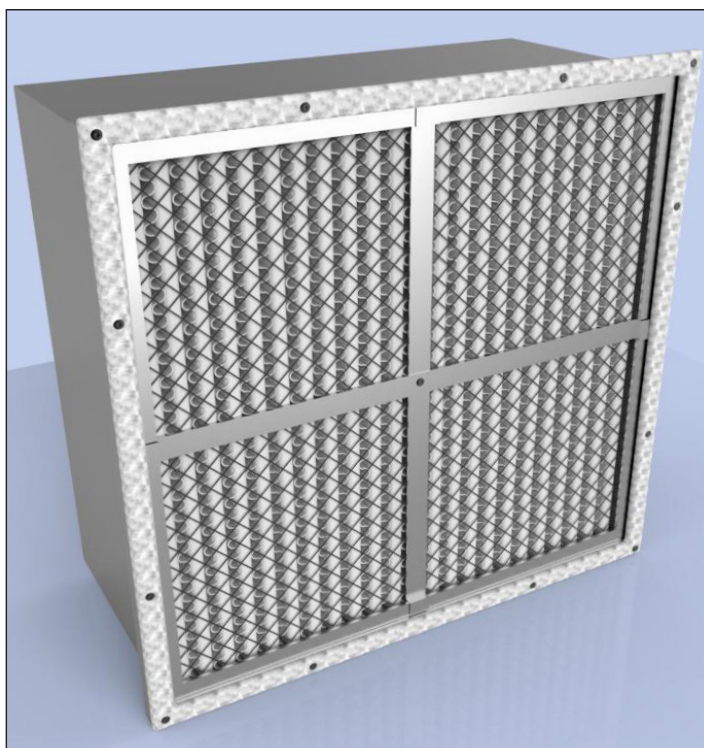
Test Filter Size 24" x 24" x 12" Nominal



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## Product Highlights

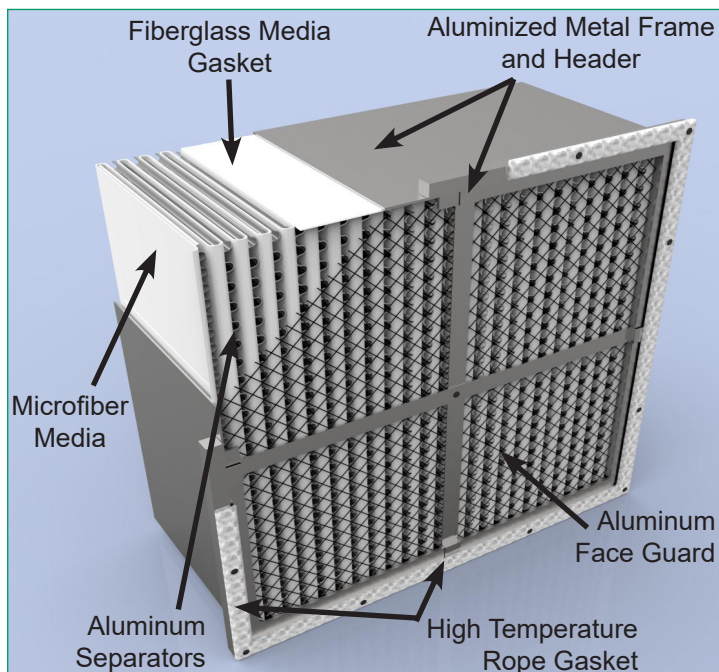
- High Efficiency Glass Microfiber Media
- Rolled Edge Aluminum Separators
- Aluminized Metal Frame
- High Temperature Rope Gasket
- Aluminized Face Guard On Both Sides
- Support Straps Upstream And Downstream

## 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.

## Specifications

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.



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# Magna HT

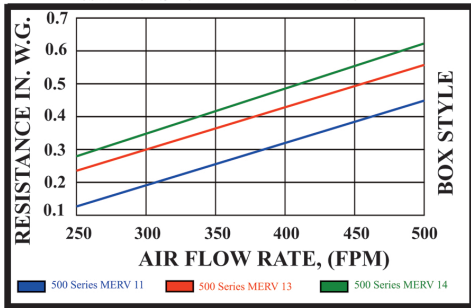
## High Temperature Series

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 NO. 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
<b>350 Series</b>														
2412A1	2412A2	2412A3	24 x 12 x 6	23-3/8 x 11-3/8 x 5-7/8	250	0.30	0.32	0.35	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	0.30	0.32	0.35	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	0.30	0.32	0.35	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	0.30	0.32	0.35	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	0.55	0.63	0.68	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	0.55	0.63	0.68	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	0.55	0.63	0.68	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	0.55	0.63	0.68	115.50	610 x 610 x 305	9150	136.8	156.7	169.2
<b>500 Series</b>														
2412A1	2412A2	2412A3	24 x 12 x 6	23-3/8 x 11-3/8 x 5-7/8	250	0.25	0.28	0.30	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	0.25	0.28	0.30	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	0.25	0.28	0.30	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	0.25	0.28	0.30	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	0.45	0.57	0.62	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	0.45	0.57	0.62	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	0.45	0.57	0.62	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	0.45	0.57	0.62	140.00	610 x 610 x 305	9150	111.9	141.8	154.3
<b>750 Series</b>														
2412A1	2412A2	2412A3	24 x 12 x 6	23-3/8 x 11-3/8 x 5-7/8	250	0.20	0.23	0.25	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	0.20	0.23	0.25	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	0.20	0.23	0.25	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	0.20	0.23	0.25	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	0.40	0.53	0.58	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	0.40	0.53	0.58	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	0.40	0.53	0.58	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	0.40	0.53	0.58	175.00	610 x 610 x 305	9150	99.5	131.8	144.3
<b>900 Series</b>														
2412A1	2412A2	2412A3	24 x 12 x 6	23-3/8 x 11-3/8 x 5-7/8	250	0.18	0.20	.22	52.50	610 x 305 x 152	4575	44.8	44.8	54.7
2020A1	2020A2	2020A3	20 x 20 x 6	19-3/8 x 19-3/8 x 5-7/8	250	0.18	0.20	.22	72.92	508 x 508 x 152	4575	44.8	44.8	54.7
2024A1	2024A2	2024A3	20 x 24 x 6	20-3/8 x 23-3/8 x 5-7/8	250	0.18	0.20	.22	87.50	610 x 508 x 152	4575	44.8	44.8	54.7
2424A1	2424A2	2424A3	24 x 24 x 6	23-3/8 x 23-3/8 x 5-7/8	250	0.18	0.20	.22	105.00	610 x 610 x 152	4575	44.8	44.8	54.7
2412B1	2412B2	2412B3	24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	500	0.37	0.52	.56	105.00	610 x 305 x 305	9150	92.1	92.1	139.3
2020B1	2020B2	2020B3	20 x 20 x 12	19-3/8 x 19-3/8 x 11-1/2	500	0.37	0.52	.56	145.83	508 x 508 x 305	9150	92.1	92.1	139.3
2024B1	2024B2	2024B3	20 x 24 x 12	19-3/8 x 23-3/8 x 11-1/2	500	0.37	0.52	.56	175.00	610 x 508 x 305	9150	92.1	92.1	139.3
2424B1	2424B2	2424B3	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	500	0.37	0.52	.56	210.00	610 x 610 x 305	9150	92.1	92.1	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.

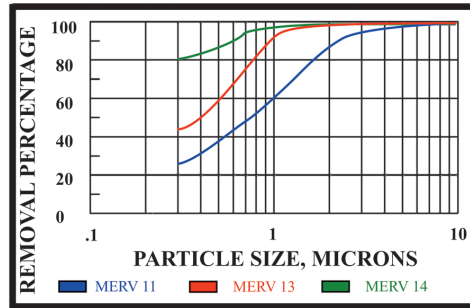
### STANDARD PRESSURE DROP

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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## Product Highlights

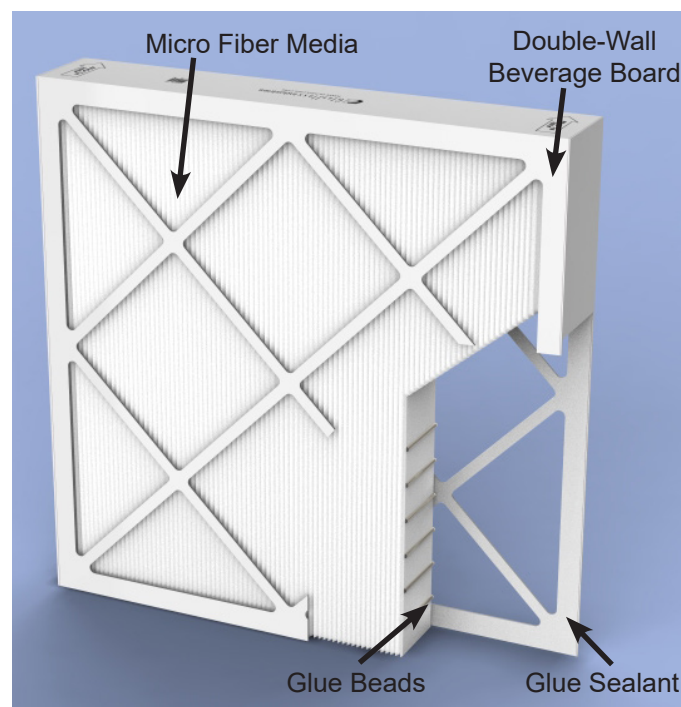
- Compact Design for Maximum Air Flow
- Four Efficiencies Available
- Standard and Special Sizes
- Media Will Not Support Microbial Growth

## 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.

## Specifications

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.



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## PURACELL® II SERIES

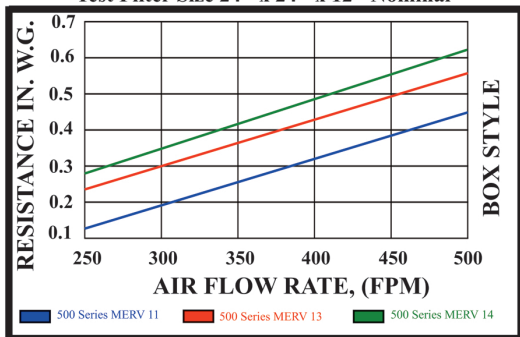
MODEL NUMBER	SIZE W x H	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	FINAL RESIST. IN. W.G.	MEDIA SQUARE FOOT	SIZE W x H x D NOMINAL MM
<b>MERV 15</b>							
PURII2424495	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	0.72	1.50	122.95	610 x 610 x 102
*PURII2025495	20 x 25 x 4	19-1/2" x 24-1/2" x 3-3/4"	500	0.72	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	0.72	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	0.72	1.50	84.47	508 x 508 x 102
PURII1824495	18 x 24 x 4	17-1/2" x 23-1/2" x 3-3/4"	500	0.72	1.50	91.38	457 x 610 x 102
PURII1625495	16 x 25 x 4	15-1/2" x 24-1/2" x 3-3/4"	500	0.72	1.50	84.32	406 x 635 x 102
PURII1620495	16 x 20 x 4	15-1/2" x 19-1/2" x 3-3/4"	500	0.72	1.50	67.03	406 x 508 x 102
PURII1224495	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	0.72	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	0.68	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	0.68	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	0.68	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	0.68	1.50	84.47	508 x 508 x 102
PURII182449	18 x 24 x 4	17-1/2" x 23-1/2" x 3-3/4"	500	0.68	1.50	91.38	457 x 610 x 102
PURII162549	16 x 25 x 4	15-1/2" x 24-1/2" x 3-3/4"	500	0.68	1.50	84.32	406 x 635 x 102
PURII162049	16 x 20 x 4	15-1/2" x 19-1/2" x 3-3/4"	500	0.68	1.50	67.03	406 x 508 x 102
PURII122449	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	0.68	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	0.60	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	0.60	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	0.60	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	0.60	1.50	81.14	508 x 508 x 102
PURII182448	18 x 24 x 4	17-1/2" x 23-1/2" x 3-3/4"	500	0.60	1.50	87.78	457 x 610 x 102
PURII162548	16 x 25 x 4	15-1/2" x 24-1/2" x 3-3/4"	500	0.60	1.50	80.75	406 x 635 x 102
PURII162048	16 x 20 x 4	15-1/2" x 19-1/2" x 3-3/4"	500	0.60	1.50	64.39	406 x 508 x 102
PURII122448	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	0.60	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	0.48	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	0.48	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	0.48	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	0.48	1.50	81.14	508 x 508 x 102
PURII182446	18 x 24 x 4	17-1/2" x 23-1/2" x 3-3/4"	500	0.48	1.50	87.78	457 x 610 x 102
PURII162546	16 x 25 x 4	15-1/2" x 24-1/2" x 3-3/4"	500	0.48	1.50	80.75	406 x 635 x 102
PURII162046	16 x 20 x 4	15-1/2" x 19-1/2" x 3-3/4"	500	0.48	1.50	64.39	406 x 508 x 102
PURII122446	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	0.48	1.50	57.47	305 x 610 x 102

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.50" w.g.

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

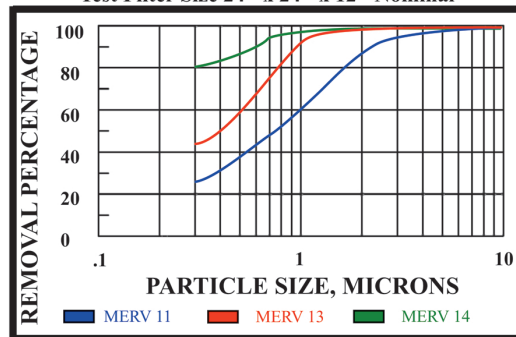
### STANDARD PRESSURE DROP

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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## Product Highlights

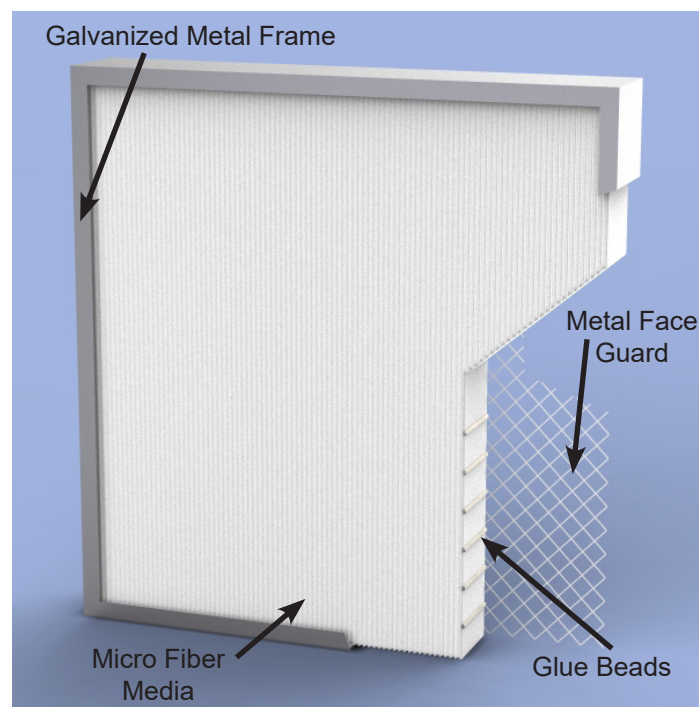
- Compact Design for Maximum Air Flow
- Four Efficiencies Available
- Standard and Special Sizes
- Media Will Not Support Microbial Growth

## 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.

## Specifications

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.



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## PURACELL® II M & MH SERIES

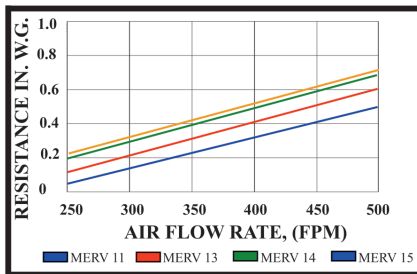
BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		FINAL RESIST. IN W.G.	MEDIA SQUARE FOOT		SIZE W x H x D NOMINAL MM
				M	MH		M	MH	
<b>MERV 15</b>									
242449	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	0.68	0.71	1.50	122.96	102.12	610 x 610 x 102
*202549	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	0.68	0.71	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	0.68	0.71	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	0.68	0.71	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	0.68	0.71	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	0.68	0.71	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	0.68	0.71	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	0.68	0.71	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	0.68	0.71	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	0.68	0.71	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	0.68	0.71	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	0.68	0.71	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	0.68	0.71	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	0.68	0.71	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	0.68	0.71	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	0.68	0.71	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	0.60	0.63	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	0.60	0.63	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	0.60	0.63	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	0.60	0.63	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	0.60	0.63	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	0.60	0.63	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	0.60	0.63	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	0.60	0.63	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	0.48	0.51	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	0.48	0.51	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	0.48	0.51	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	0.48	0.51	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	0.48	0.51	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	0.48	0.51	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	0.48	0.51	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	0.48	0.51	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.

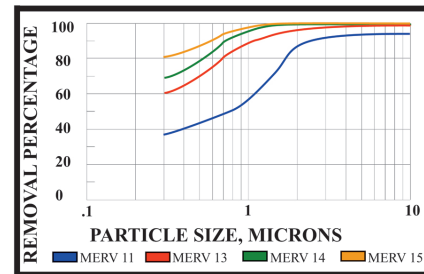
### STANDARD PRESSURE DROP

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



### MINIMUM PARTICLE SIZE EFFICIENCY

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



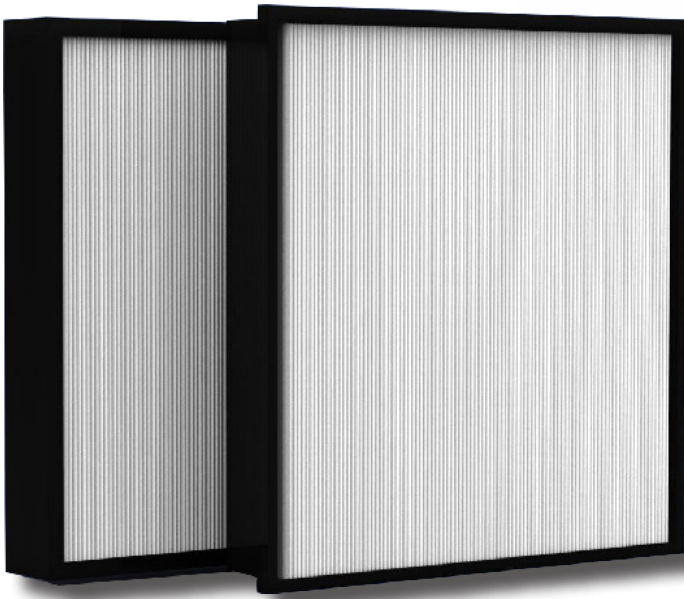
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## Product Highlights

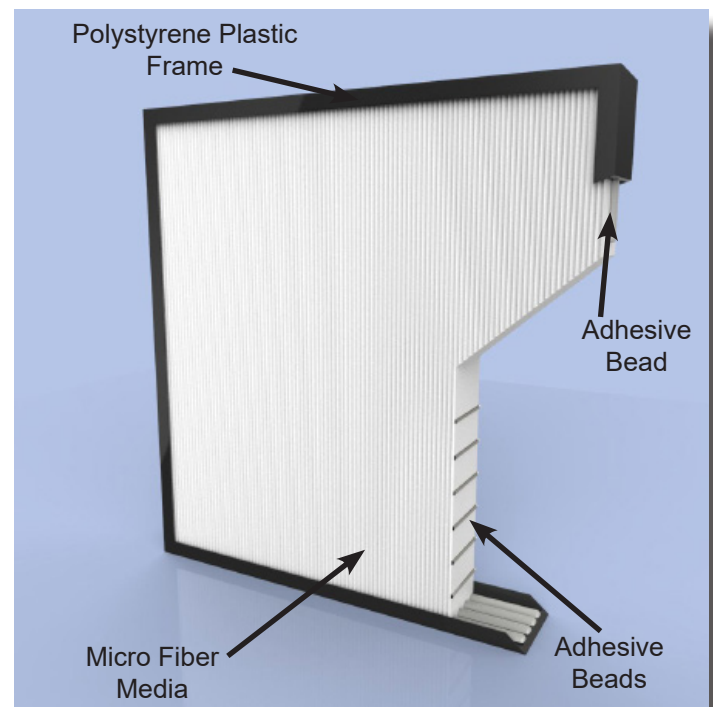
- Compact Design for Maximum Air Flow
- Lightweight High-Impact Polystyrene Plastic Frame Construction
- Box and Header Style Frames
- MERV 11, 13, 14 and 15
- Media Will Not Support Microbial Growth

## 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.

## Specifications

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.



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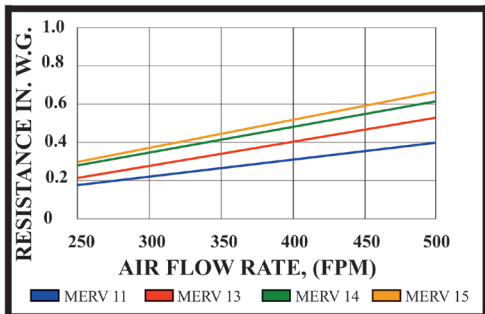
## PURACELL® II P & PH SERIES

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 FOOT		SIZE W x H x D NOMINAL MM
MERV 14	MERV 15				P		PH			P	PH	
					MERV 15	MERV 14	MERV 15	MERV 14				
MERV 15 / MERV 14												
242449	242443	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	0.66	0.61	0.77	0.72	1.50	122.96	102.12	610 x 610 x 102
*202549	*202543	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	0.66	0.61	0.77	0.72	1.50	105.37	86.00	508 x 635 x 102
202449	202443	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	0.66	0.61	0.77	0.72	1.50	101.05	82.14	508 x 610 x 102
202049	202043	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	0.66	0.61	0.77	0.72	1.50	83.76	66.73	508 x 508 x 102
182449	182443	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	0.66	0.61	0.77	0.72	1.50	91.31	68.38	457 x 610 x 102
162549	162543	16 x 25 x 4	15-3/8" x 24-3/8" x 3-3/4"	500	0.66	0.61	0.77	0.72	1.50	83.79	61.82	406 x 635 x 102
162049	162043	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	0.66	0.61	0.77	0.72	1.50	66.60	47.97	406 x 508 x 102
122449	122443	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	0.66	0.61	0.77	0.72	1.50	59.65	44.40	305 x 610 x 102
182549	182543	18 x 25 x 4	17-3/8" x 24-3/8" x 3-3/4"	500	0.66	0.61	0.77	0.72	1.50	94.42	78.85	457 x 635 x 102
182049	182043	18 x 20 x 4	17-3/8" x 19-3/8" x 3-3/4"	500	0.66	0.61	0.77	0.72	1.50	74.81	62.47	457 x 508 x 102
181849	181843	18 x 18 x 4	17-3/8" x 17-3/8" x 3-3/4"	500	0.66	0.61	0.77	0.72	1.50	67.55	56.40	457 x 457 x 102
162449	162443	16 x 24 x 4	15-3/8" x 23-3/8" x 3-3/4"	500	0.66	0.61	0.77	0.72	1.50	80.26	67.02	406 x 610 x 102
161649	161643	16 x 16 x 4	15-3/8" x 15-3/8" x 3-3/4"	500	0.66	0.61	0.77	0.72	1.50	52.65	43.97	406 x 406 x 102
122049	122043	12 x 20 x 4	11-3/8" x 19-3/8" x 3-3/4"	500	0.66	0.61	0.77	0.72	1.50	48.79	40.74	305 x 508 x 102
121649	121643	12 x 16 x 4	11-3/8" x 15-3/8" x 3-3/4"	500	0.66	0.61	0.77	0.72	1.50	38.84	32.43	305 x 406 x 102
121249	121243	12 x 12 x 4	11-3/8" x 11-3/8" x 3-3/4"	500	0.66	0.61	0.77	0.72	1.50	28.42	23.73	305 x 305 x 102
MERV 13 / MERV 11												
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 FOOT		SIZE W x H x D NOMINAL MM
MERV 13	MERV 11				P		PH			P	PH	
					MERV 13	MERV 11	MERV 13	MERV 11				
242442	242441	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	0.53	0.40	0.64	0.52	1.50	118.09	97.68	610 x 610 x 102
*202542	*202541	20 x 25 x 4	19-3/8" x 24-3/8" x 3-3/4"	500	0.53	0.40	0.64	0.52	1.50	101.56	83.67	508 x 635 x 102
202442	202441	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	0.53	0.40	0.64	0.52	1.50	97.40	79.92	508 x 610 x 102
202042	202041	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	0.53	0.40	0.64	0.52	1.50	80.73	64.92	508 x 508 x 102
182442	182441	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	0.53	0.40	0.64	0.52	1.50	87.66	66.31	457 x 610 x 102
162542	162541	16 x 25 x 4	15-3/8" x 24-3/8" x 3-3/4"	500	0.53	0.40	0.64	0.52	1.50	81.25	59.65	406 x 635 x 102
162042	162041	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	0.53	0.40	0.64	0.52	1.50	64.58	46.29	406 x 508 x 102
122442	122441	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	0.53	0.40	0.64	0.52	1.50	57.22	43.29	305 x 610 x 102
182542	182541	18 x 25 x 4	17-3/8" x 24-3/8" x 3-3/4"	500	0.53	0.40	0.64	0.52	1.50	91.51	76.72	610 x 610 x 102
182042	182041	18 x 20 x 4	17-3/8" x 19-3/8" x 3-3/4"	500	0.53	0.40	0.64	0.52	1.50	72.63	60.65	508 x 635 x 102
181842	181841	18 x 18 x 4	17-3/8" x 17-3/8" x 3-3/4"	500	0.53	0.40	0.64	0.52	1.50	65.37	54.59	508 x 610 x 102
162442	162441	16 x 24 x 4	15-3/8" x 23-3/8" x 3-3/4"	500	0.53	0.40	0.64	0.52	1.50	77.69	64.88	508 x 508 x 102
161642	161641	16 x 16 x 4	15-3/8" x 15-3/8" x 3-3/4"	500	0.53	0.40	0.64	0.52	1.50	50.72	42.36	457 x 610 x 102
122042	122041	12 x 20 x 4	11-3/8" x 19-3/8" x 3-3/4"	500	0.53	0.40	0.64	0.52	1.50	47.37	39.55	406 x 635 x 102
121642	121641	12 x 16 x 4	11-3/8" x 15-3/8" x 3-3/4"	500	0.53	0.40	0.64	0.52	1.50	37.42	31.25	406 x 508 x 102
121242	121241	12 x 12 x 4	11-3/8" x 11-3/8" x 3-3/4"	500	0.53	0.40	0.64	0.52	1.50	27.95	23.34	305 x 610 x 102

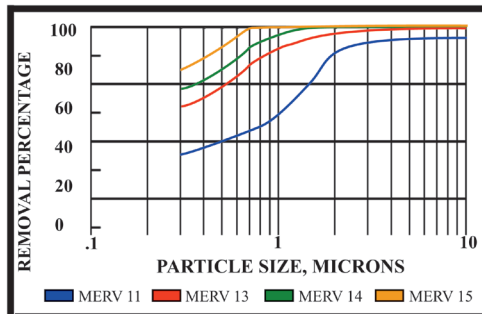
Tolerances shall be +/- 1/16" for width and height. Performance values based on ASHRAE and in-house testing methods.

\*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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### Product Highlights

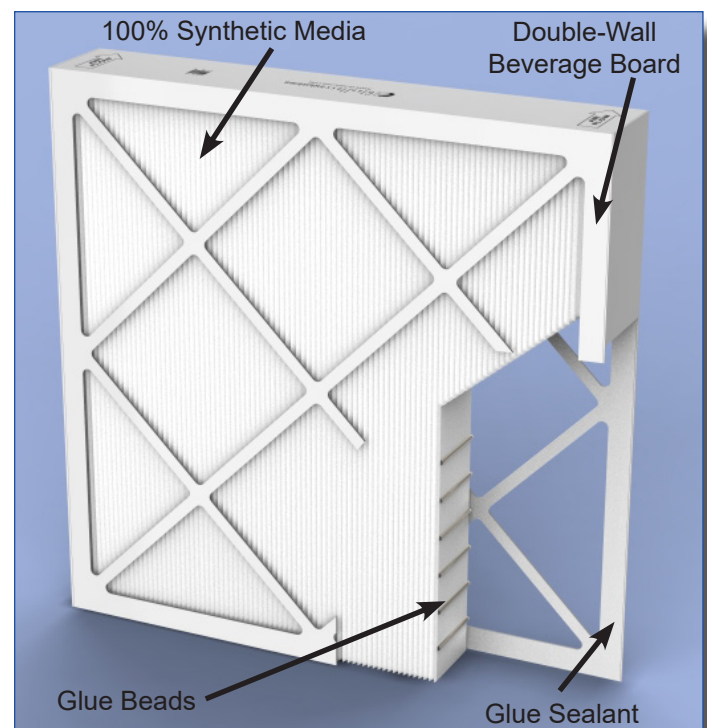
- 100% Synthetic Media
- Compact Design for Maximum Air Flow
- Standard and Special Sizes
- MERV 11, 13 and 15
- Media Will Not Support Microbial Growth

### 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.

### Specifications

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.



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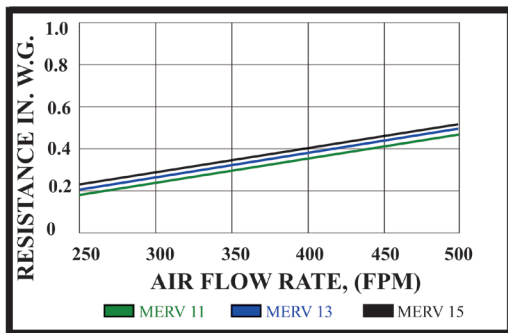
PRODUCT BULLETIN 11PURIIS · SECTION 11 · 8/1/25

## PURACELL® II-S SYNTHETIC MEDIA SERIES

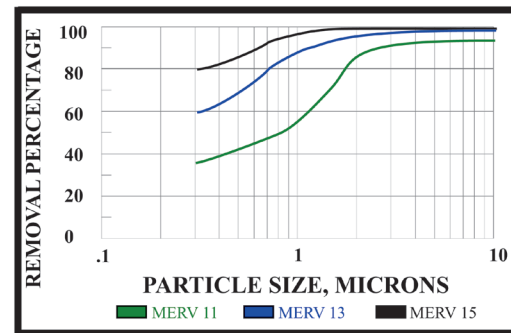
MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	FINAL RESIST. IN. W.G.	MEDIA SQUARE FEET	SIZE W x H x D NOMINAL MM
<b>MERV 15</b>							
PURIIS2424495	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	0.48	1.50	84.28	610 x 610 x 102
PURIIS2520495	25 x 20 x 4	24-1/2" x 19-1/2" x 3-3/4"	500	0.48	1.50	74.14	635 x 508 x 102
PURIIS2024495	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	0.48	1.50	70.23	508 x 610 x 102
PURIIS2020495	20 x 20 x 4	19-1/2" x 19-1/2" x 3-3/4"	500	0.48	1.50	58.53	508 x 508 x 102
PURIIS1824495	18 x 24 x 4	17-1/2" x 23-1/2" x 3-3/4"	500	0.48	1.50	62.98	457 x 610 x 102
PURIIS2516495	25 x 16 x 4	24-1/2" x 15-1/2" x 3-3/4"	500	0.48	1.50	58.83	635 x 406 x 102
PURIIS1620495	16 x 20 x 4	15-1/2" x 19-1/2" x 3-3/4"	500	0.48	1.50	46.45	406 x 508 x 102
PURIIS1224495	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	0.48	1.50	40.97	305 x 610 x 102
<b>MERV 13</b>							
PURIIS242448	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	0.46	1.50	84.28	610 x 610 x 102
PURIIS252048	25 x 20 x 4	24-1/2" x 19-1/2" x 3-3/4"	500	0.46	1.50	74.14	635 x 508 x 102
PURIIS202448	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	0.46	1.50	70.23	508 x 610 x 102
PURIIS202048	20 x 20 x 4	19-1/2" x 19-1/2" x 3-3/4"	500	0.46	1.50	58.53	508 x 508 x 102
PURIIS182448	18 x 24 x 4	17-1/2" x 23-1/2" x 3-3/4"	500	0.46	1.50	62.98	457 x 610 x 102
PURIIS251648	25 x 16 x 4	24-1/2" x 15-1/2" x 3-3/4"	500	0.46	1.50	58.83	635 x 406 x 102
PURIIS162048	16 x 20 x 4	15-1/2" x 19-1/2" x 3-3/4"	500	0.46	1.50	46.45	406 x 508 x 102
PURIIS122448	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	0.46	1.50	40.97	305 x 610 x 102
<b>MERV 11</b>							
PURIIS242446	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	0.44	1.50	84.28	610 x 610 x 102
PURIIS252046	25 x 20 x 4	24-1/2" x 19-1/2" x 3-3/4"	500	0.44	1.50	74.14	635 x 508 x 102
PURIIS202446	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	0.44	1.50	70.23	508 x 610 x 102
PURIIS202046	20 x 20 x 4	19-1/2" x 19-1/2" x 3-3/4"	500	0.44	1.50	58.53	508 x 508 x 102
PURIIS182446	18 x 24 x 4	17-1/2" x 23-1/2" x 3-3/4"	500	0.44	1.50	62.98	457 x 610 x 102
PURIIS251646	25 x 16 x 4	24-1/2" x 15-1/2" x 3-3/4"	500	0.44	1.50	58.83	635 x 406 x 102
PURIIS162046	16 x 20 x 4	15-1/2" x 19-1/2" x 3-3/4"	500	0.44	1.50	46.45	406 x 508 x 102
PURIIS122446	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	0.44	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



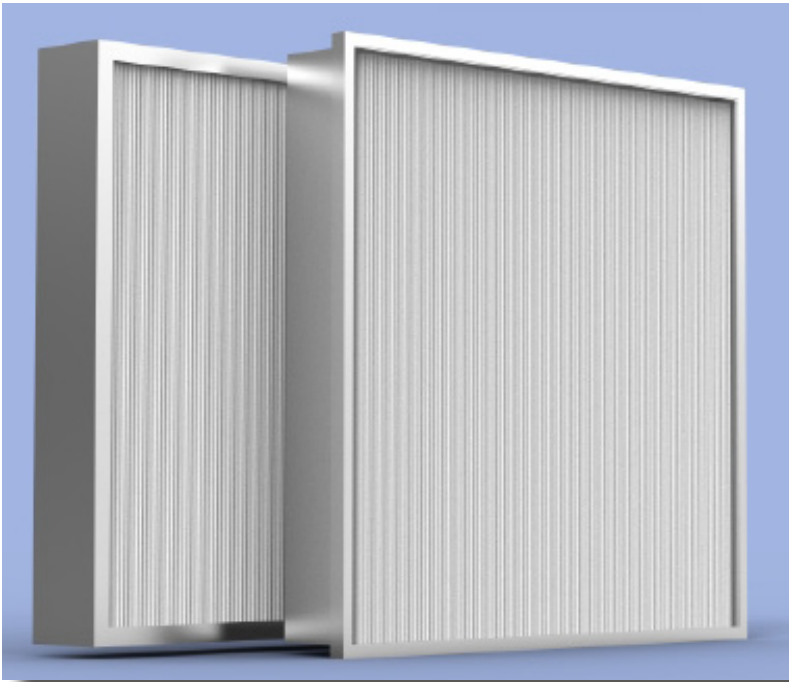
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## Product Highlights

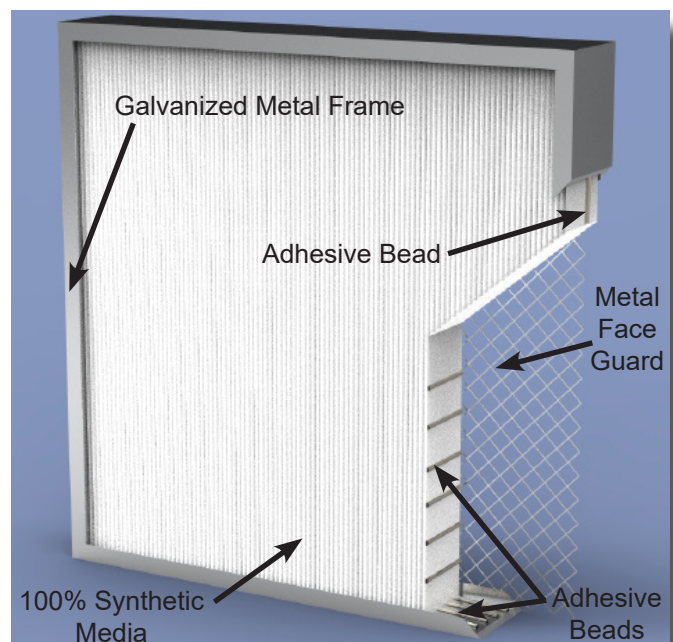
- 100% Synthetic Media
- Compact Design for Maximum Air Flow
- Standard and Special Sizes
- MERV 11, 13 and 15
- Media Will Not Support Microbial Growth

## 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.

## Specifications

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.



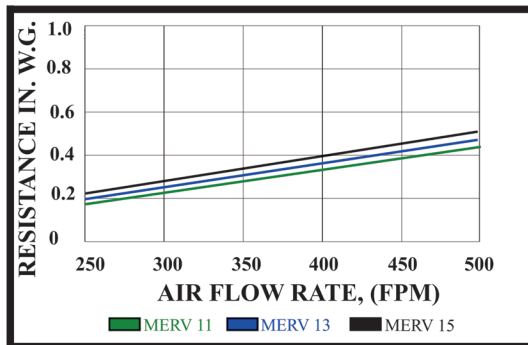
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## PURACELL<sup>®</sup> II M-S & MH-S SYNTHETIC MEDIA SERIES

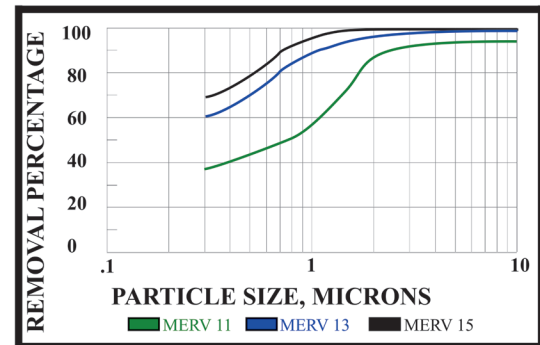
BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		FINAL RESIST. IN W.G.	MEDIA SQUARE FOOT		SIZE W x H x D NOMINAL MM
				M-S	MH-S		M-S	MH-S	
<b>MERV 15</b>									
242449	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	0.47	0.55	1.50	75.56	64.05	610 x 610 x 102
252049	25 x 20 x 4	24-3/8" x 19-3/8" x 3-3/4"	500	0.47	0.55	1.50	65.17	54.51	635 x 508 x 102
202449	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	0.47	0.55	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	0.47	0.55	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	0.47	0.55	1.50	55.62	46.58	457 x 610 x 102
251649	25 x 16 x 4	24-3/8" x 15-3/8" x 3-3/4"	500	0.47	0.55	1.50	51.63	42.05	635 x 406 x 102
162049	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	0.47	0.55	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	0.47	0.55	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	0.45	0.53	1.50	75.56	64.05	610 x 610 x 102
252042	25 x 20 x 4	24-3/8" x 19-3/8" x 3-3/4"	500	0.45	0.53	1.50	65.17	54.51	635 x 508 x 102
202442	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	0.45	0.53	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	0.45	0.53	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	0.45	0.53	1.50	55.62	46.58	457 x 610 x 102
251642	25 x 16 x 4	24-3/8" x 15-3/8" x 3-3/4"	500	0.45	0.53	1.50	51.63	42.05	635 x 406 x 102
162042	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	0.45	0.53	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	0.45	0.53	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	0.43	0.51	1.50	75.56	64.05	610 x 610 x 102
252041	25 x 20 x 4	24-3/8" x 19-3/8" x 3-3/4"	500	0.43	0.51	1.50	65.17	54.51	635 x 508 x 102
202441	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	0.43	0.51	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	0.43	0.51	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	0.43	0.51	1.50	55.62	46.58	457 x 610 x 102
251641	25 x 16 x 4	24-3/8" x 15-3/8" x 3-3/4"	500	0.43	0.51	1.50	51.63	42.05	635 x 406 x 102
162041	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	0.43	0.51	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	0.43	0.51	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



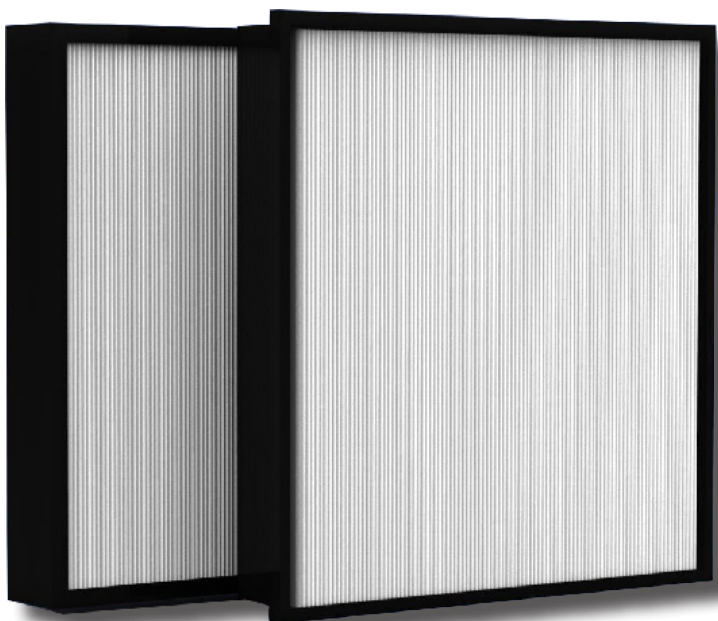
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## Product Highlights

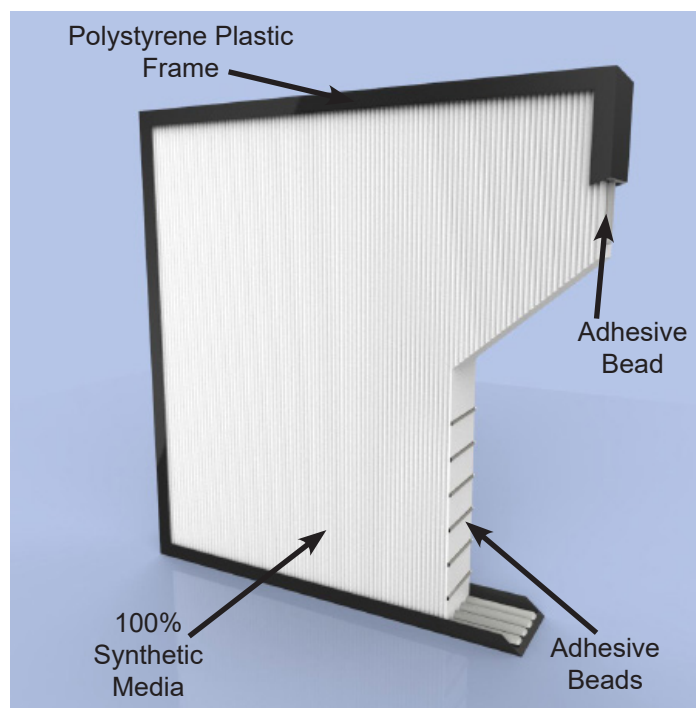
- 100% Synthetic Media
- Compact Design for Maximum Air Flow
- Lightweight High-Impact Polystyrene Plastic Frame Construction
- Box and Header Style Frames
- MERV 11, 13 and 15
- Media Will Not Support Microbial Growth

## 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.

## Specifications

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.



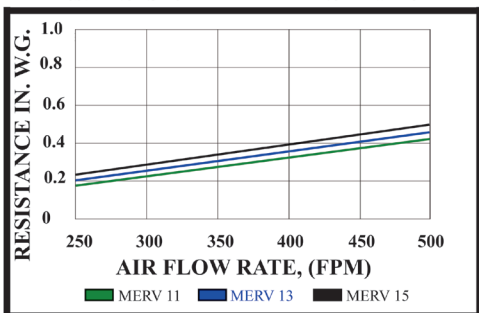
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## PURACELL® II P-S & PH-S SERIES

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 FOOT		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	0.46	0.54	1.50	75.56	64.05	610 x 610 x 102			
252049	25 x 20 x 4	24-3/8" x 19-3/8" x 3-3/4"	500	0.46	0.54	1.50	65.17	54.51	635 x 508 x 102			
202449	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	0.46	0.54	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	0.46	0.54	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	0.46	0.54	1.50	55.62	46.58	457 x 610 x 102			
251649	25 x 16 x 4	24-3/8" x 15-3/8" x 3-3/4"	500	0.46	0.54	1.50	51.63	42.05	635 x 406 x 102			
162049	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	0.46	0.54	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	0.46	0.54	1.50	36.73	28.14	305 x 610 x 102			
251849	25 x 18 x 4	24-3/8" x 17-3/8" x 3-3/4"	500	0.46	0.54	1.50	54.47	45.03	635 x 457 x 102			
182049	18 x 20 x 4	17-3/8" x 19-3/8" x 3-3/4"	500	0.46	0.54	1.50	43.58	35.24	457 x 508 x 102			
181849	18 x 18 x 4	17-3/8" x 17-3/8" x 3-3/4"	500	0.46	0.54	1.50	38.49	31.33	457 x 457 x 102			
162449	16 x 24 x 4	15-3/8" x 23-3/8" x 3-3/4"	500	0.46	0.54	1.50	46.23	37.51	406 x 610 x 102			
161649	16 x 16 x 4	15-3/8" x 15-3/8" x 3-3/4"	500	0.46	0.54	1.50	30.18	23.30	406 x 406 x 102			
122049	12 x 20 x 4	11-3/8" x 19-3/8" x 3-3/4"	500	0.46	0.54	1.50	28.42	21.60	305 x 508 x 102			
121649	12 x 16 x 4	11-3/8" x 15-3/8" x 3-3/4"	500	0.46	0.54	1.50	22.26	16.40	305 x 406 x 102			
121249	12 x 12 x 4	11-3/8" x 11-3/8" x 3-3/4"	500	0.46	0.54	1.50	16.58	11.60	305 x 305 x 102			
<b>MERV 13 / MERV 11</b>												
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 FOOT		SIZE W x H x D NOMINAL MM	
				P-S		PH-S			P-S	PH-S		
				MERV 13	MERV 11	MERV 13	MERV 11					
MERV 13	MERV 11											
242442	242441	24 x 24 x 4	23-3/8" x 23-3/8" x 3-3/4"	500	0.44	0.42	0.52	0.50	1.50	75.56	64.05	610 x 610 x 102
252042	252041	25 x 20 x 4	24-3/8" x 19-3/8" x 3-3/4"	500	0.44	0.42	0.52	0.50	1.50	65.17	54.51	635 x 508 x 102
202442	202441	20 x 24 x 4	19-3/8" x 23-3/8" x 3-3/4"	500	0.44	0.42	0.52	0.50	1.50	62.97	52.41	508 x 610 x 102
202042	202041	20 x 20 x 4	19-3/8" x 19-3/8" x 3-3/4"	500	0.44	0.42	0.52	0.50	1.50	52.14	42.66	508 x 508 x 102
182442	182441	18 x 24 x 4	17-3/8" x 23-3/8" x 3-3/4"	500	0.44	0.42	0.52	0.50	1.50	55.62	46.58	457 x 610 x 102
251642	251641	25 x 16 x 4	24-3/8" x 15-3/8" x 3-3/4"	500	0.44	0.42	0.52	0.50	1.50	51.63	42.05	635 x 406 x 102
162042	162041	16 x 20 x 4	15-3/8" x 19-3/8" x 3-3/4"	500	0.44	0.42	0.52	0.50	1.50	41.30	32.91	406 x 508 x 102
122442	122441	12 x 24 x 4	11-3/8" x 23-3/8" x 3-3/4"	500	0.44	0.42	0.52	0.50	1.50	36.73	28.14	305 x 610 x 102
251842	251841	25 x 18 x 4	24-3/8" x 17-3/8" x 3-3/4"	500	0.44	0.42	0.52	0.50	1.50	54.47	45.03	635 x 457 x 102
182042	182041	18 x 20 x 4	17-3/8" x 19-3/8" x 3-3/4"	500	0.44	0.42	0.52	0.50	1.50	43.58	35.24	457 x 508 x 102
181842	181841	18 x 18 x 4	17-3/8" x 17-3/8" x 3-3/4"	500	0.44	0.42	0.52	0.50	1.50	38.49	31.33	457 x 457 x 102
162442	162441	16 x 24 x 4	15-3/8" x 23-3/8" x 3-3/4"	500	0.44	0.42	0.52	0.50	1.50	46.23	37.51	406 x 610 x 102
161642	161641	16 x 16 x 4	15-3/8" x 15-3/8" x 3-3/4"	500	0.44	0.42	0.52	0.50	1.50	30.18	23.30	406 x 406 x 102
122042	122041	12 x 20 x 4	11-3/8" x 19-3/8" x 3-3/4"	500	0.44	0.42	0.52	0.50	1.50	28.42	21.60	305 x 508 x 102
121642	121641	12 x 16 x 4	11-3/8" x 15-3/8" x 3-3/4"	500	0.44	0.42	0.52	0.50	1.50	22.26	16.40	305 x 406 x 102
121242	121241	12 x 12 x 4	11-3/8" x 11-3/8" x 3-3/4"	500	0.44	0.42	0.52	0.50	1.50	16.58	11.60	305 x 305 x 102

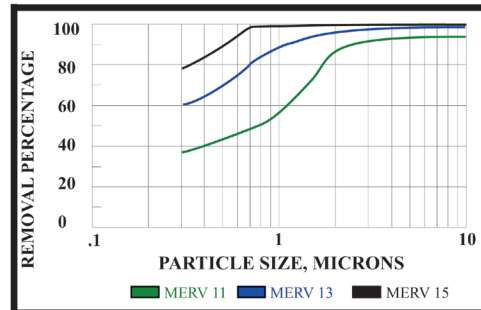
Tolerances shall be +/- 1/16" for width and height. Performance values based on ASHRAE and in-house testing methods.

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



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



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## Product Highlights

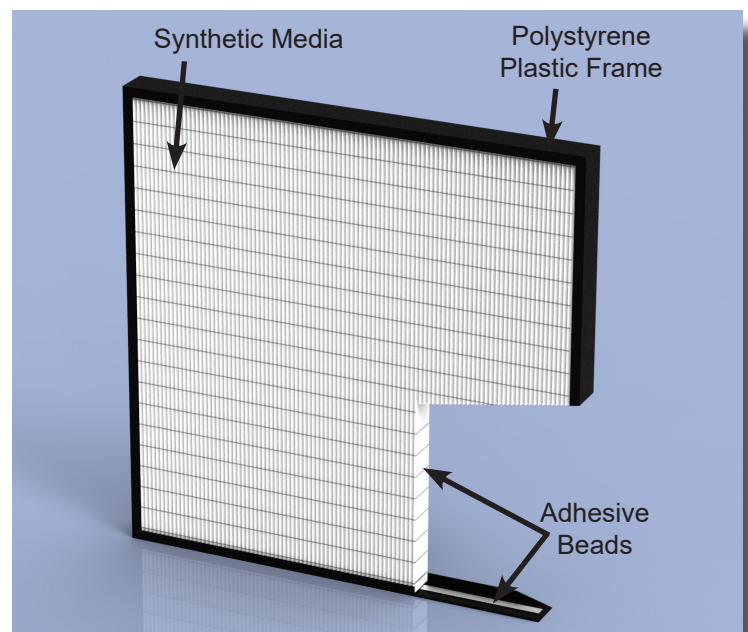
- 100% Synthetic Media
- High Impact Plastic Frame or Beverage Board Frame
- 2" Depth Design
- MERV 11, 13 & 15 Performance Ranges
- Media Will Not Support Microbial Growth

## 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.

## Specifications

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.



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## PURACELL® II-S & P-S 2" SYNTHETIC MEDIA SERIES

### MERV 15

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 FOOT	SIZE W x H x D NOMINAL MM
2424295	24 x 24 x 2	23-3/8" x 23-3/8" x 1-3/4"	500	0.55	1.50	45.41	610 x 610 x 51
2520295	25 x 20 x 2	24-3/8" x 19-3/8" x 1-3/4"	500	0.55	1.50	39.30	635 x 508 x 51
2024295	20 x 24 x 2	19-3/8" x 23-3/8" x 1-3/4"	500	0.55	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	0.55	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	0.55	1.50	33.82	457 x 610 x 51
2516295	25 x 16 x 2	24-3/8" x 15-3/8" x 1-3/4"	500	0.55	1.50	31.24	635 x 406 x 51
1620295	16 x 20 x 2	15-3/8" x 19-3/8" x 1-3/4"	500	0.55	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	0.55	1.50	22.22	305 x 610 x 51
*2518295	25 x 18 x 2	24-3/8" x 17-3/8" x 1-3/4"	500	0.55	1.50	35.37	635 x 457 x 51
*1820295	18 x 20 x 2	17-3/8" x 19-3/8" x 1-3/4"	500	0.55	1.50	28.30	457 x 508 x 51
*1818295	18 x 18 x 2	17-3/8" x 17-3/8" x 1-3/4"	500	0.55	1.50	25.00	457 x 457 x 51
*1624295	16 x 24 x 2	15-3/8" x 23-3/8" x 1-3/4"	500	0.55	1.50	30.02	406 x 610 x 51
*1616295	16 x 16 x 2	15-3/8" x 15-3/8" x 1-3/4"	500	0.55	1.50	19.60	406 x 406 x 51
*1220295	12 x 20 x 2	11-3/8" x 19-3/8" x 1-3/4"	500	0.55	1.50	18.45	305 x 508 x 51
*1216295	12 x 16 x 2	11-3/8" x 15-3/8" x 1-3/4"	500	0.55	1.50	14.46	305 x 406 x 51
*1212295	12 x 12 x 2	11-3/8" x 11-3/8" x 1-3/4"	500	0.55	1.50	10.77	305 x 305 x 51

### MERV 13 / MERV 11

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 FOOT	SIZE W x H x D NOMINAL MM
MERV 13	MERV 11				MERV 13	MERV 11			
242428	242426	24 x 24 x 2	23-3/8" x 23-3/8" x 1-3/4"	500	0.52	0.49	1.50	45.41	610 x 610 x 51
252028	252026	25 x 20 x 2	24-3/8" x 19-3/8" x 1-3/4"	500	0.52	0.49	1.50	39.30	635 x 508 x 51
202428	202426	20 x 24 x 2	19-3/8" x 23-3/8" x 1-3/4"	500	0.52	0.49	1.50	45.41	508 x 610 x 51
202028	202026	20 x 20 x 2	19-3/8" x 19-3/8" x 1-3/4"	500	0.52	0.49	1.50	31.60	508 x 508 x 51
182428	182426	18 x 24 x 2	17-3/8" x 23-3/8" x 1-3/4"	500	0.52	0.49	1.50	33.82	457 x 610 x 51
251628	251626	25 x 16 x 2	24-3/8" x 15-3/8" x 1-3/4"	500	0.52	0.49	1.50	31.24	635 x 406 x 51
162028	162026	16 x 20 x 2	15-3/8" x 19-3/8" x 1-3/4"	500	0.52	0.49	1.50	25.12	406 x 508 x 51
122428	122426	12 x 24 x 2	11-3/8" x 23-3/8" x 1-3/4"	500	0.52	0.49	1.50	22.22	305 x 610 x 51
*251828	*251826	25 x 18 x 2	24-3/8" x 17-3/8" x 1-3/4"	500	0.52	0.49	1.50	35.37	635 x 457 x 51
*182028	*182026	18 x 20 x 2	17-3/8" x 19-3/8" x 1-3/4"	500	0.52	0.49	1.50	28.30	457 x 508 x 51
*181828	*181826	18 x 18 x 2	17-3/8" x 17-3/8" x 1-3/4"	500	0.52	0.49	1.50	25.00	457 x 457 x 51
*162428	*162426	16 x 24 x 2	15-3/8" x 23-3/8" x 1-3/4"	500	0.52	0.49	1.50	30.02	406 x 610 x 51
*161628	*161626	16 x 16 x 2	15-3/8" x 15-3/8" x 1-3/4"	500	0.52	0.49	1.50	19.60	406 x 406 x 51
*122028	*122026	12 x 20 x 2	11-3/8" x 19-3/8" x 1-3/4"	500	0.52	0.49	1.50	18.45	305 x 508 x 51
*121628	*121626	12 x 16 x 2	11-3/8" x 15-3/8" x 1-3/4"	500	0.52	0.49	1.50	14.46	305 x 406 x 51
*121228	*121226	12 x 12 x 2	11-3/8" x 11-3/8" x 1-3/4"	500	0.52	0.49	1.50	10.77	305 x 305 x 51

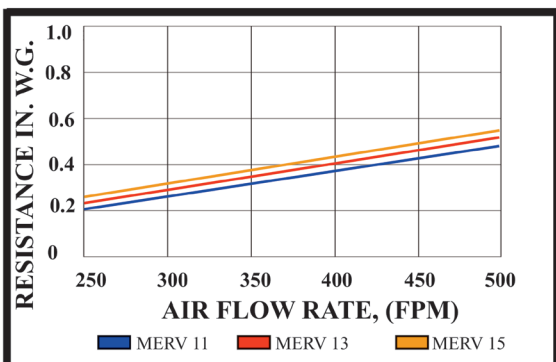
\* Semi-standard sizes are only available in Plastic Frame

For Puracell II-S 2" Depth Synthetic Media Plastic Frame, omit the "5" (last digit) in the BASE MODEL NUMBER

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

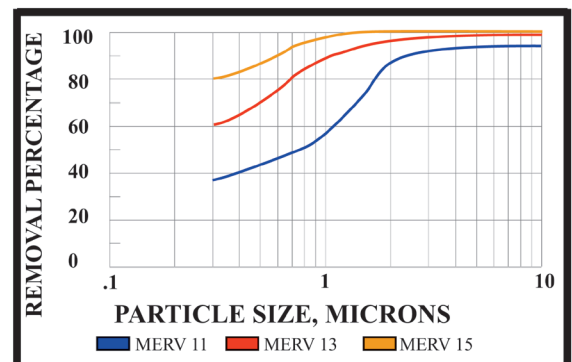
Test Filter Size 24" x 24" x 2" Nominal



Distributed by:

### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 2" 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.

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## Product Highlights

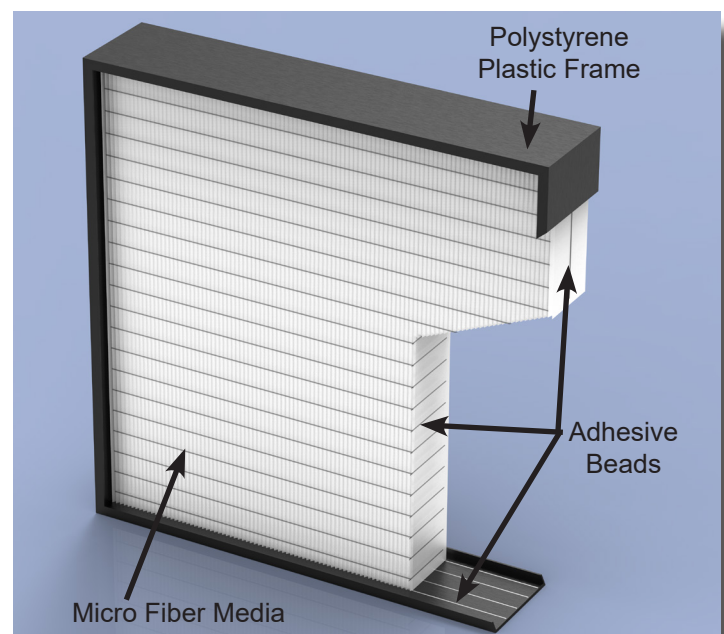
- Compact Design for Maximum Air Flow
- Lightweight High-Impact Polystyrene Plastic Frame Construction
- Box and Header Style Frames
- MERV 11, 13, 14 and 15
- Media Will Not Support Microbial Growth

## Features

The Glasfloss Puracell II P & PH 6" Plastic Frame Mini-Pleat Series is designed for use in applications where a high degree of efficiency is required in a 6" 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.

## Specifications

The Glasfloss Puracell II P & PH 6" 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.



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## PURACELL® II P & PH 6" SERIES

### MERV 15 / MERV 14

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 FOOT		SIZE W x H x D NOM. MM
MERV 15	MERV 14				P		PH			P	PH	
					MERV 15	MERV 14	MERV 15	MERV 14				
242469	242463	24 x 24 x 6	23-3/8" x 23-3/8" x 5-7/8"	500	0.58	0.44	0.65	0.51	1.50	139.85	121.56	610 x 610 x 152
*202569	*202563	20 x 25 x 6	19-3/8" x 24-3/8" x 5-7/8"	500	0.58	0.44	0.65	0.51	1.50	120.42	103.16	508 x 635 x 152
202469	202463	20 x 24 x 6	19-3/8" x 23-3/8" x 5-7/8"	500	0.58	0.44	0.65	0.51	1.50	116.07	98.28	508 x 610 x 152
202069	202063	20 x 20 x 6	19-3/8" x 19-3/8" x 5-7/8"	500	0.58	0.44	0.65	0.51	1.50	96.10	80.00	508 x 508 x 152
162569	162563	16 x 25 x 6	15-3/8" x 24-3/8" x 5-7/8"	500	0.58	0.44	0.65	0.51	1.50	95.40	79.58	406 x 635 x 152
162069	162063	16 x 20 x 6	15-3/8" x 19-3/8" x 5-7/8"	500	0.58	0.44	0.65	0.51	1.50	76.42	62.10	406 x 508 x 152
122469	122463	12 x 24 x 6	11-3/8" x 23-3/8" x 5-7/8"	500	0.58	0.44	0.65	0.51	1.50	67.13	53.02	305 x 610 x 152

### MERV 13 / MERV 11

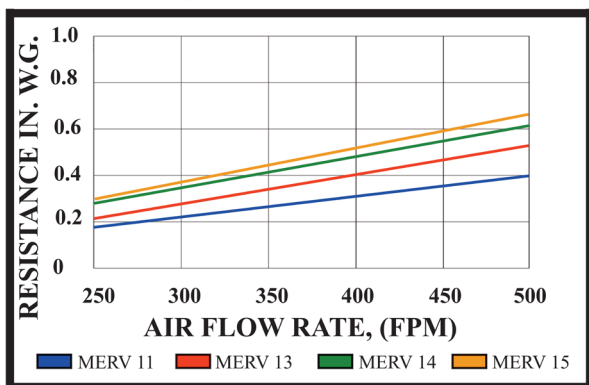
BASE MODEL NUMBER		SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.				FINAL RESIST. IN W.G.	MEDIA SQUARE FOOT		SIZE W x H x D NOMINAL MM
MERV 13	MERV 11				P		PH			P	PH	
					MERV 13	MERV 11	MERV 13	MERV 11				
242462	242461	24 x 24 x 6	23-3/8" x 23-3/8" x 5-7/8"	500	0.42	0.32	0.49	0.40	1.50	134.25	115.09	610 x 610 x 152
*202562	*202561	20 x 25 x 6	19-3/8" x 24-3/8" x 5-7/8"	500	0.42	0.32	0.49	0.40	1.50	116.94	97.89	508 x 635 x 152
202462	202461	20 x 24 x 6	19-3/8" x 23-3/8" x 5-7/8"	500	0.42	0.32	0.49	0.40	1.50	111.88	93.11	508 x 610 x 152
202062	202061	20 x 20 x 6	19-3/8" x 19-3/8" x 5-7/8"	500	0.42	0.32	0.49	0.40	1.50	92.63	75.79	508 x 508 x 152
162562	162561	16 x 25 x 6	15-3/8" x 24-3/8" x 5-7/8"	500	0.42	0.32	0.49	0.40	1.50	92.64	75.52	406 x 635 x 152
162062	162061	16 x 20 x 6	15-3/8" x 19-3/8" x 5-7/8"	500	0.42	0.32	0.49	0.40	1.50	72.95	58.95	406 x 508 x 152
122462	122461	12 x 24 x 6	11-3/8" x 23-3/8" x 5-7/8"	500	0.42	0.32	0.49	0.40	1.50	65.73	50.43	305 x 610 x 152

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.

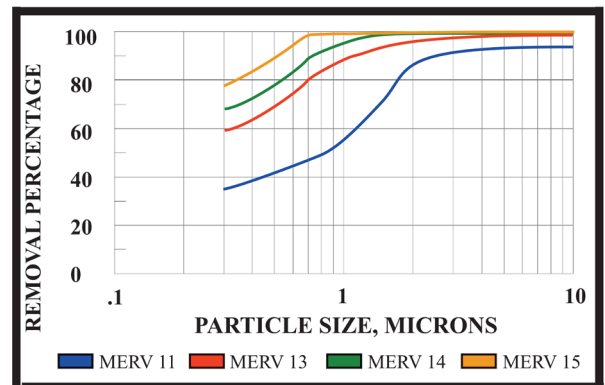
### STANDARD PRESSURE DROP

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



### MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 6" Nominal



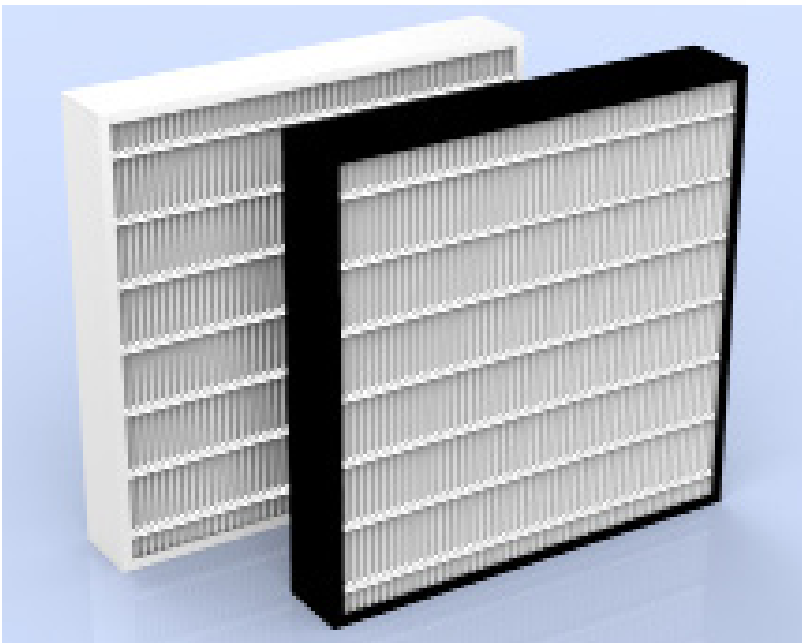
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## Product Highlights

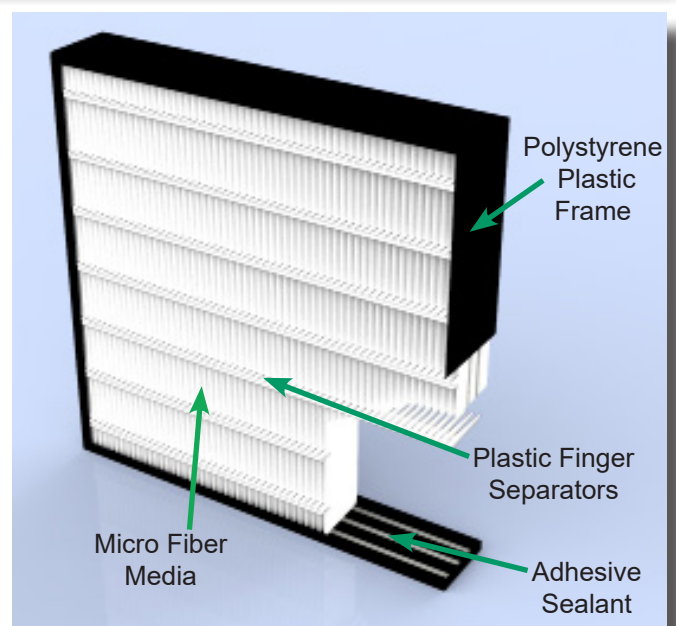
- MERV 15 Performance
- Beverage Board or Plastic Frame
- Plastic Frame Available in Box or Header Style
- Plastic Finger Separators

## Features

The Glasfloss Puracell II LR 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 LR Series combines state-of-the-art mini-pleat construction techniques with superior reliability to offer maximum value for commercial and industrial applications. The filters incorporate plastic finger media separators which reduce resistance and decrease the filter's weight. Additionally, the 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 Puracell II LR Series is offered in several standard sizes and performance options.

## Specifications

The Glasfloss Puracell II LR Series mini-pleat cartridge is sealed within a heavy-duty beverage board framework or high impact polystyrene plastic frame. The mini-pleat cartridge shall incorporate 100% synthetic fibers. The pleats are separated and supported by plastic fingers that reduce resistance. The media pack is resistant to moisture and does not support the growth of bacteria and mold. The media pack is thoroughly bonded within the beverage board or plastic framework. The filter shall be rated to withstand temperatures up to 180 degrees Fahrenheit. The recommended final resistance for Puracell II LR Series is 1.5" w.g.



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**PURACELL® II LR 4" SYNTHETIC MEDIA SERIES**  
Beverage Board Frame

MODEL NUMBER	SIZE W x H x D EXACT	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.	FINAL RESIST. IN. W.G.	MEDIA SQUARE FOOT	SIZE W x H x D NOMINAL MM
<b>MERV 15</b>							
PURSLR2424495	24 x 24 x 4	23 3/8" x 23 3/8" x 3 3/4"	500	0.25	1.50	65.63	610 x 610 x 102
PURSLR2520495	25 x 20 x 4	24 1/2" x 19 1/2" x 3 3/4"	500	0.25	1.50	57.89	635 x 508 x 102
PURSLR2024495	20 x 24 x 4	19 3/8" x 23 3/8" x 3 3/4"	500	0.25	1.50	55.44	508 x 610 x 102
PURSLR2020495	20 x 20 x 4	19 1/2" x 19 1/2" x 3 3/4"	500	0.25	1.50	46.20	508 x 508 x 102
PURSLR1824495	18 x 24 x 4	17 1/2" x 23 1/2" x 3 3/4"	500	0.25	1.50	49.79	457 x 610 x 102
PURSLR2516495	25 x 16 x 4	24 1/2" x 15 1/2" x 3 3/4"	500	0.25	1.50	46.01	635 x 406 x 102
PURSLR1620495	16 x 20 x 4	15 1/2" x 19 1/2" x 3 3/4"	500	0.25	1.50	36.54	457 x 508 x 102
PURSLR1224495	12 x 24 x 4	11 3/8" x 23 3/8" x 3 3/4"	500	0.25	1.50	31.68	305 x 610 x 102

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.50" w.g.

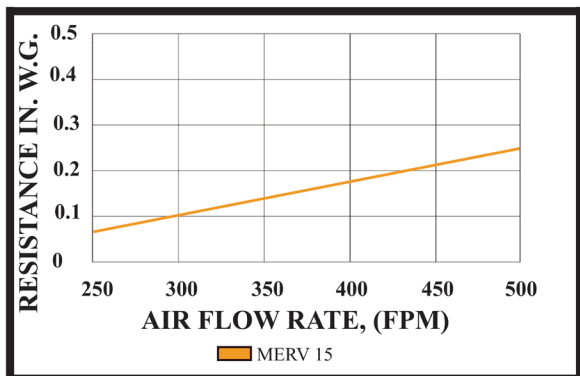
**PURACELL® II P-LR 4" SYNTHETIC MEDIA SERIES**  
Plastic Frame

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 FOOT		SIZE W x H x D NOMINAL MM
						P-LR	PH-LR	
<b>MERV 15</b>								
242449	24 x 24 x 4	23 3/8" x 23 3/8" x 3 3/4"	500	0.25	1.50	61.20	51.72	610 x 610 x 102
* 202549	20 x 25 x 4	19 3/8" x 24 3/8" x 3 3/4"	500	0.25	1.50	53.29	44.48	635 x 508 x 102
202449	20 x 24 x 4	19 3/8" x 23 3/8" x 3 3/4"	500	0.25	1.50	50.65	41.96	508 x 610 x 102
202049	20 x 20 x 4	19 3/8" x 19 3/8" x 3 3/4"	500	0.25	1.50	41.94	34.15	508 x 508 x 102
182449	18 x 24 x 4	17 3/8" x 23 3/8" x 3 3/4"	500	0.25	1.50	45.37	37.08	457 x 610 x 102
* 162549	16 x 25 x 4	15 3/8" x 24 3/8" x 3 3/4"	500	0.25	1.50	42.22	34.31	635 x 406 x 102
162049	16 x 20 x 4	15 3/8" x 19 3/8" x 3 3/4"	500	0.25	1.50	33.20	26.21	457 x 508 x 102
122449	12 x 24 x 4	11 3/8" x 23 3/8" x 3 3/4"	500	0.25	1.50	29.55	22.44	305 x 610 x 102

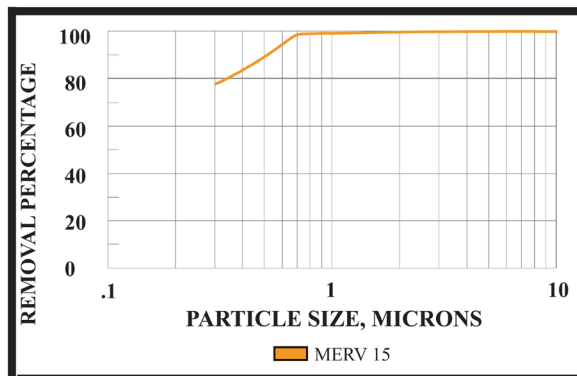
Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.50" w.g.

\* Model Number Size Configuration may be produced as 20x25 or 25x20 and 16x25 or 25x16.

**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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## Product Highlights

- 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

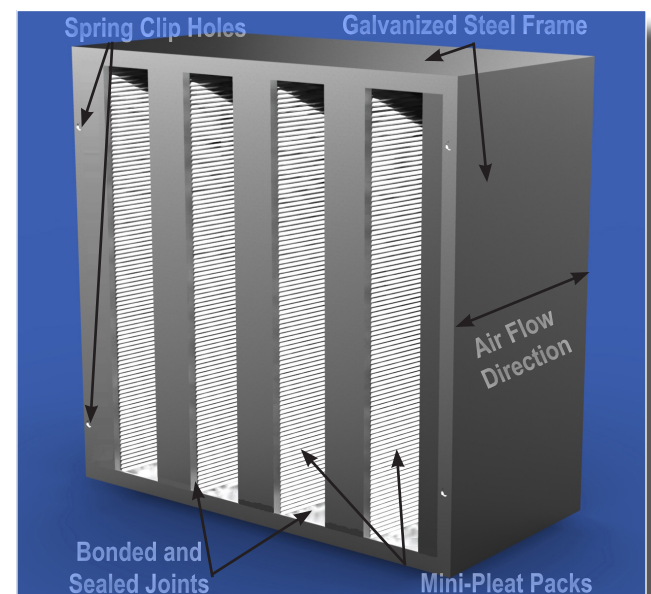
## Features

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.

## Specifications

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.

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



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## 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 FOOT		SIZE W x H x D NOMINAL 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	0.23	0.36	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	0.23	0.36	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	0.23	0.36	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	0.23	0.36	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	0.23	0.36	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	0.26	0.40	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	0.26	0.40	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	0.26	0.40	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	0.26	0.40	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	0.26	0.40	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	0.30	0.45	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	0.30	0.45	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	0.30	0.45	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	0.30	0.45	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	0.30	0.45	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	0.32	0.47	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	0.32	0.47	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	0.32	0.47	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	0.32	0.47	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	0.32	0.47	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	0.45	-	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	0.45	-	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	0.45	-	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	0.45	-	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	0.45	-	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	0.95	-	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	0.95	-	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	0.95	-	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	0.95	-	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	0.95	-	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"

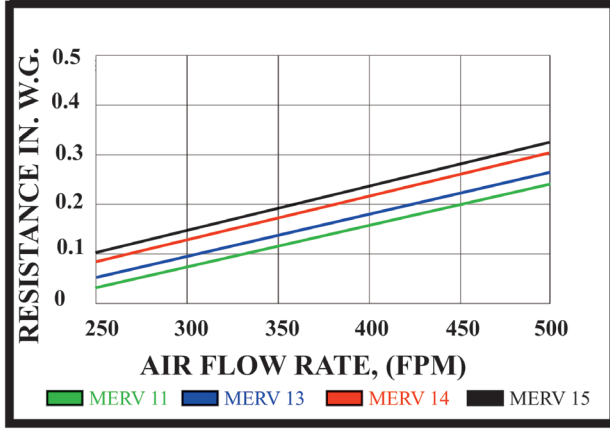
\* These models are available in both full and exact sizes.

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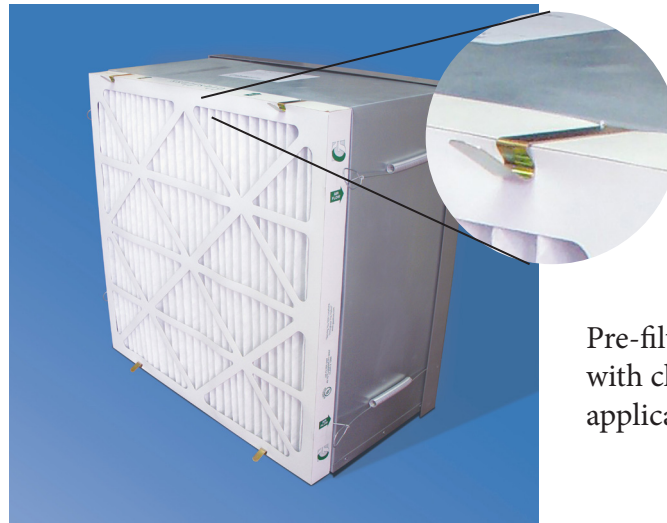
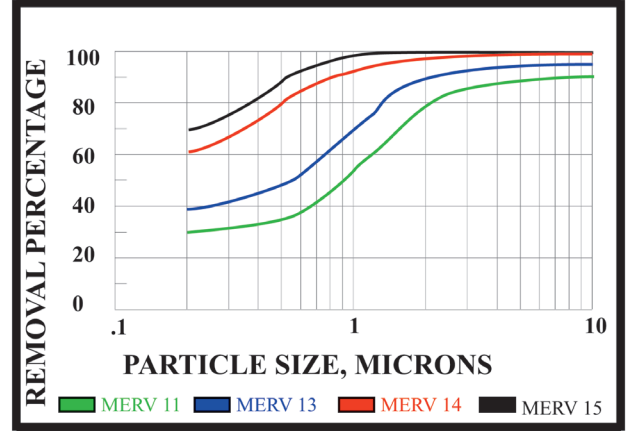
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**PURACELL V**  
**STANDARD PRESSURE DROP**  
 Test Filter Size 24" x 24" x 12" Nominal

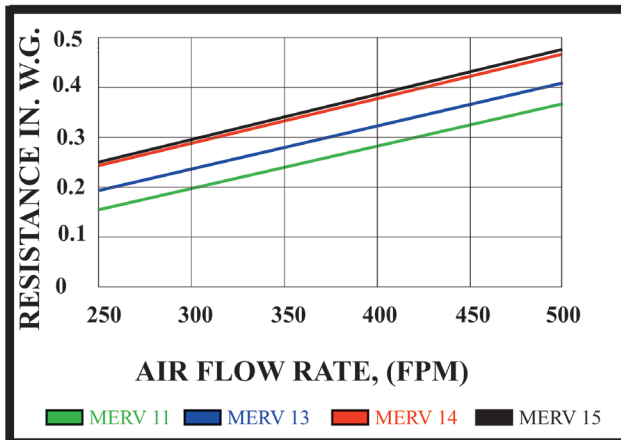


**PURACELL V/VX**  
**MINIMUM PARTICLE SIZE EFFICIENCY**  
 Test Filter Size 24" x 24" x 12" Nominal

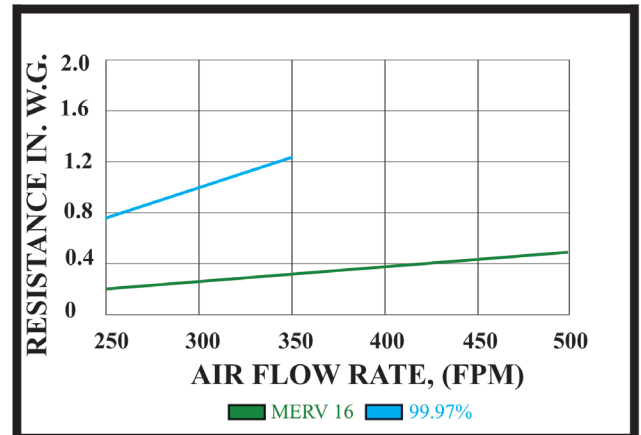


Pre-filter easily attached with clips for front-load applications

**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	3,876
Annual CO2 Emissions (lbs)	3,533	5,240
<b>Annual Energy Cost (\$0.08/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

PREFIX	FRAME STYLE	BASE PART NUMBER	GASKET LOCATION	
PUV = V PUVX = VX	B = BOX H = HEADER	SELECT THE BASE PART NUMBER FOR DESIRED SIZE AND EFFICIENCY	O = NO GASKET	
			<b>BOX STYLE</b>	<b>SINGLE HEADER</b>
			A = AIR EXIT (4) B = AIR ENTRY (4) C = AIR EXIT/ENTRY (8) D = SIDE LOAD (2)	E = AIR EXIT/ENTRY (8) F = AIR ENTRY (4) H = AIR EXIT (4) J = SIDE LOAD (2) S = SIDE LOAD (1)

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 = "PUVXB2424B3O".

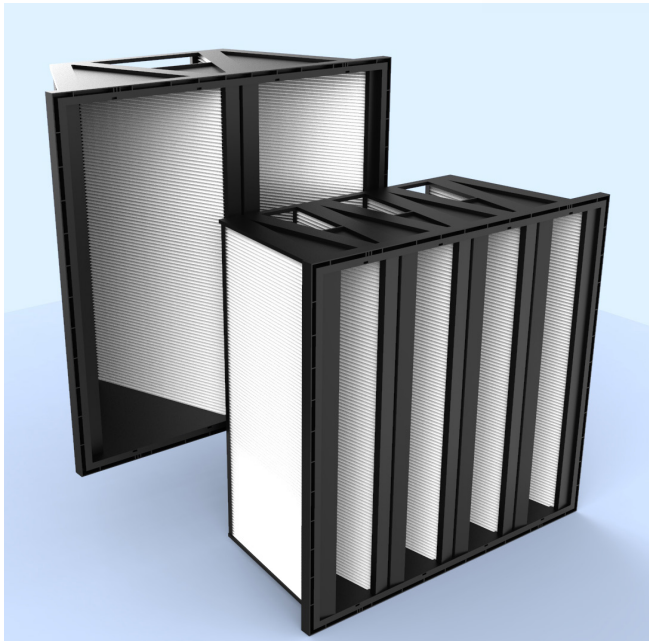
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## Product Highlights

- 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

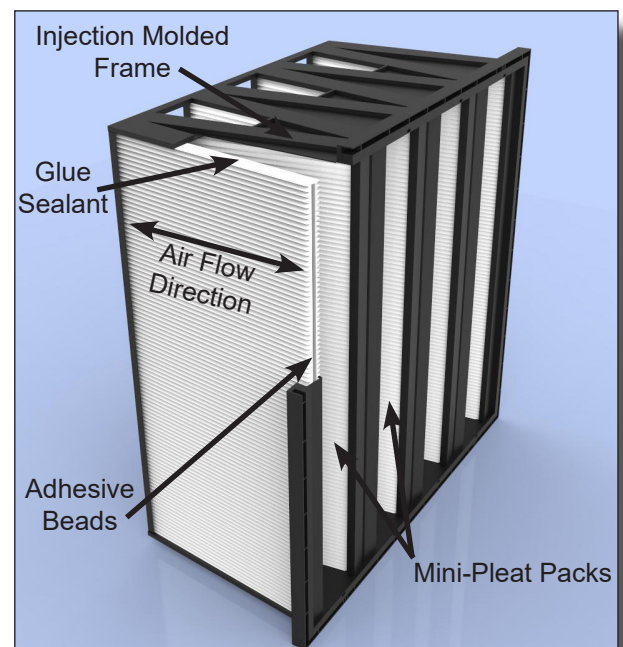
## Features

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.

## Specifications

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.

Efficiency	60-65%	80-85%	90-95%	98%	-	99.97%
MERV	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 FOOT		SIZE W x H x D NOMINAL 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	0.26	0.33	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	0.26	0.33	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	0.26	0.33	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	0.26	-	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	0.29	0.41	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	0.29	0.41	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	0.29	0.41	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	0.29	-	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	0.32	0.45	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	0.32	0.45	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	0.32	0.45	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	0.32	-	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	0.33	0.49	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	0.33	0.49	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	0.33	0.49	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	0.33	-	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	0.78	-	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	0.78	-	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	0.78	-	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.

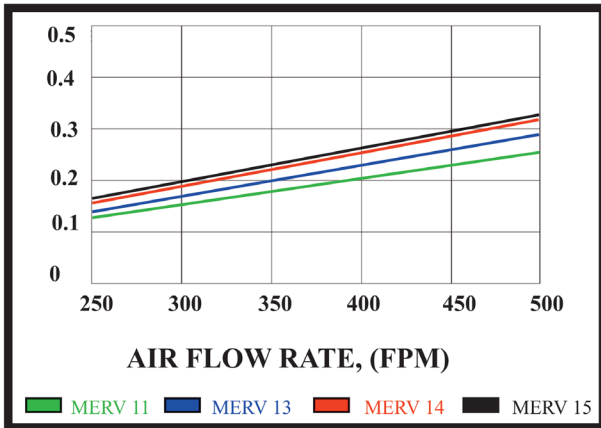
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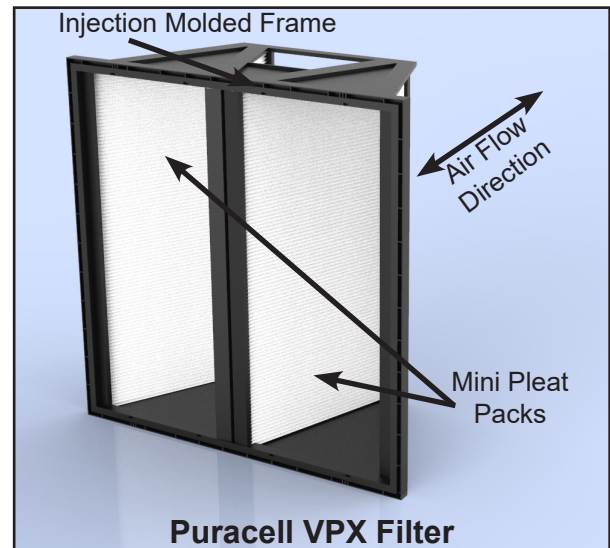
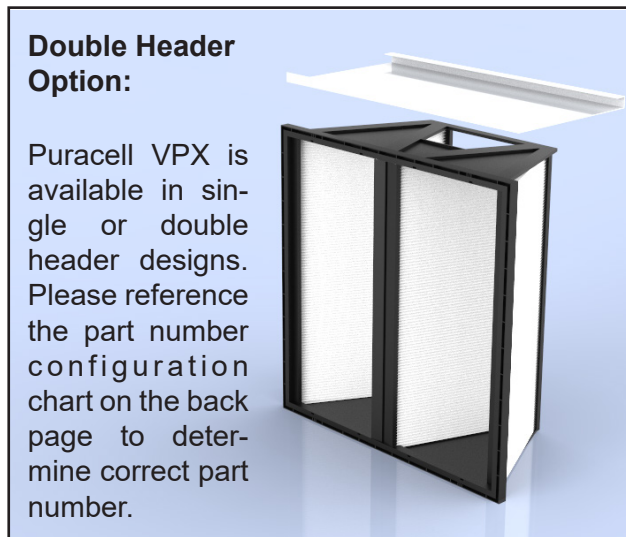
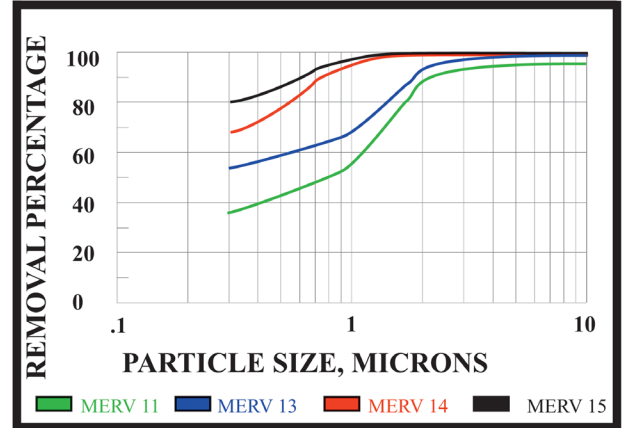
**PURACELL VP  
STANDARD PRESSURE DROP**

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



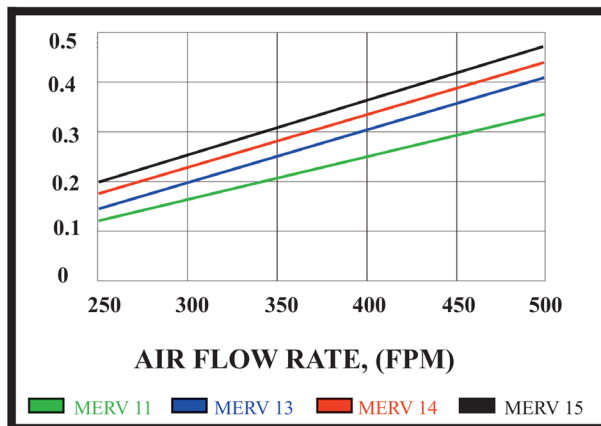
**PURACELL VP/VPX  
MINIMUM PARTICLE SIZE EFFICIENCY**

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



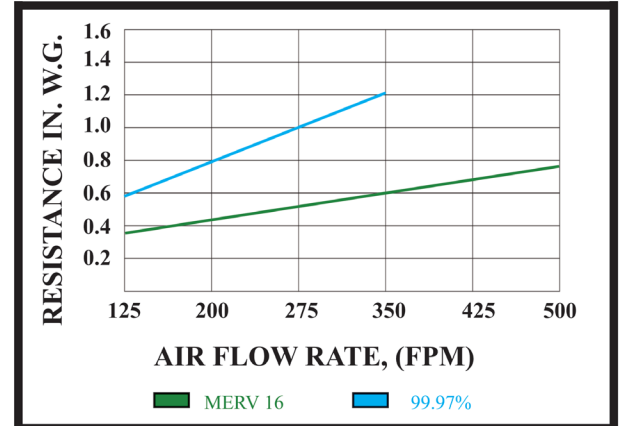
**PURACELL VPX  
STANDARD PRESSURE DROP**

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)	2,649	3,876
Annual CO2 Emissions (lbs)	3,581	5,240
<b>Annual Energy Cost (\$0.08/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

PREFIX	FRAME STYLE	BASE PART NUMBER	GASKET LOCATION	
PUP = VP PUX = VPX	H = HEADER D = DOUBLE HEADER (VPX Model only)	NUMERICAL SIZE OF FILTER AND EFFICIENCY	O = NO GASKET	
			<b>SINGLE HEADER</b>	<b>DOUBLE HEADER</b>
			E = AIR ENTRY/EXIT (8) F = AIR ENTRY (4) H = AIR EXIT (4) J = SIDE LOAD (2) S = SIDE LOAD (1)	K = AIR ENTRY/EXIT (8) M = AIR ENTRY (4) Q = AIR EXIT (2)

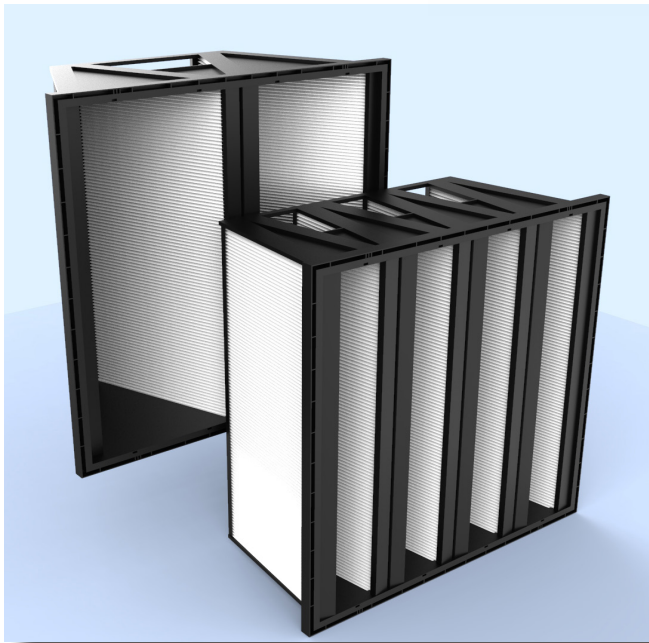
To ensure that Puracell VP and VPX filters are fabricated to meet job requirements, order by the exact Part Number.  
 Example: 24 x 24 x 12 MERV 14, Puracell VPX, Header style, no gasket. Part number = "PUXH2424B3O".



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## Product Highlights

- 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

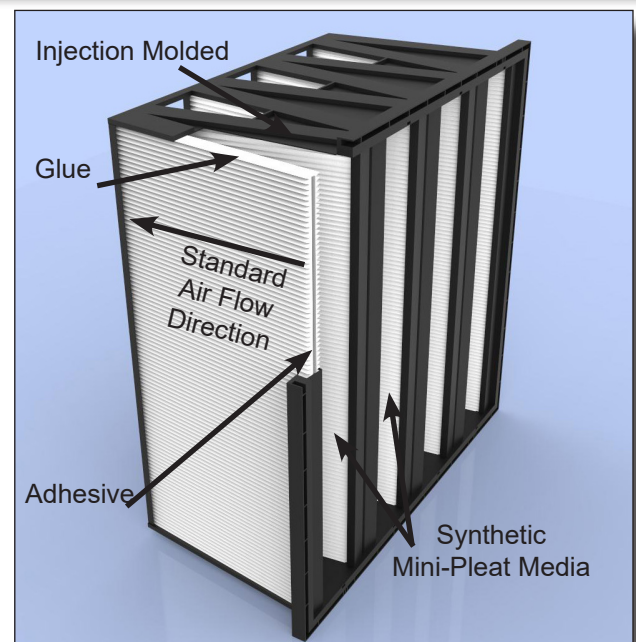
## Features

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.

## Specifications

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.

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



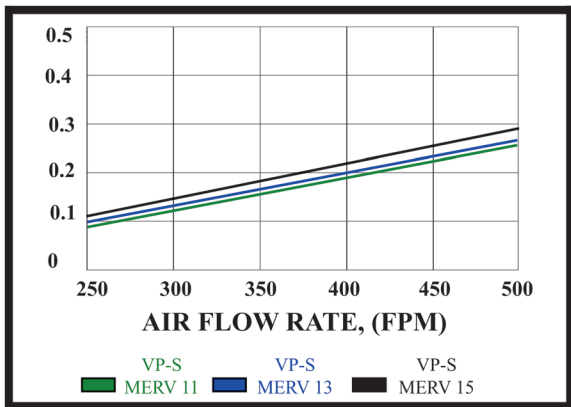
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## PURACELL® VP-S / VPX-S 100% Synthetic Media

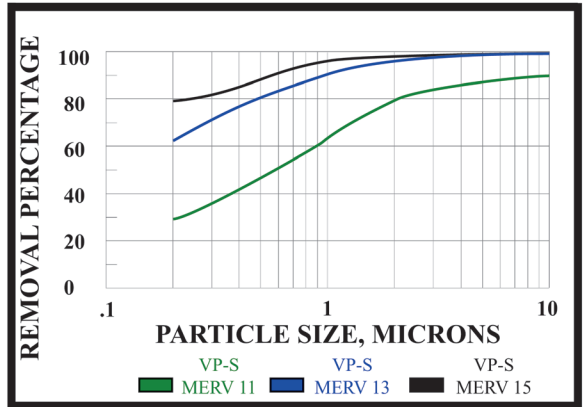
BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.		MEDIA SQUARE FOOT		SIZE W x H x D NOMINAL MM
				VP-S	VPX-S	VP-S	VPX-S	
<b>MERV 11 - 60-65% Efficiency</b>								
2424B1	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	0.26	0.33	146.93	73.46	610 x 610 x 305
2420B1	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	500	0.26	0.33	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	0.26	0.33	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	0.26	-	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	0.27	0.35	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	0.27	0.35	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	0.27	0.35	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	0.27	-	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	0.29	0.37	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	0.29	0.37	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	0.29	0.37	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	0.29	-	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

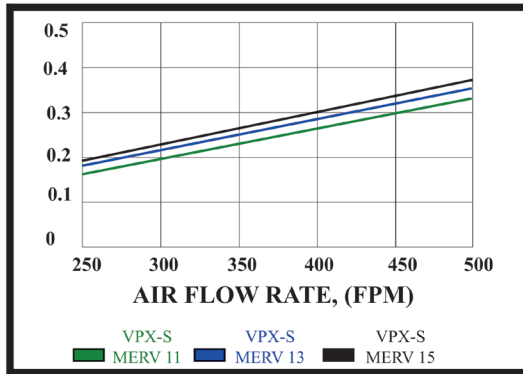


**PURACELL VP-S  
MINIMUM PARTICLE SIZE EFFICIENCY**  
Test Filter Size 24" x 24" x 12" Nominal

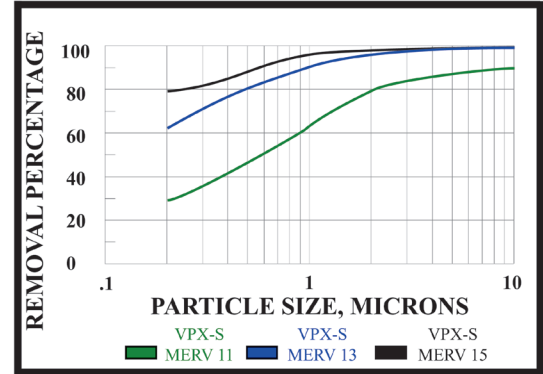


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**PURACELL VPX-S**  
**STANDARD PRESSURE DROP**  
Test Filter Size 24" x 24" x 12" Nominal



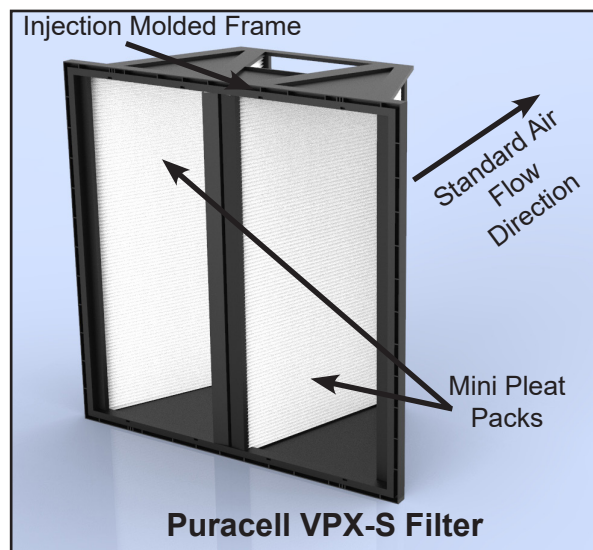
**PURACELL VPX-S**  
**MINIMUM PARTICLE SIZE EFFICIENCY**  
Test Filter Size 24" x 24" x 12" Nominal



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

PREFIX	FRAME STYLE	BASE PART NUMBER	GASKET LOCATION	REVERSE AIR FLOW
PUPS = VPS PUXS = VPXS	H = HEADER	NUMERICAL SIZE OF FILTER AND EFFICIENCY	O = NO GASKET <b>SINGLE HEADER</b> E = AIR ENTRY/EXIT (8) F = AIR ENTRY (4) H = AIR EXIT (4) J = SIDE LOAD (2) S = SIDE LOAD (1)	RF (leave blank for standard air flow)

To ensure that Puracell VP-S and VPX-S- filters are fabricated to meet job requirements, order by the exact Part Number.  
Example: 24 x 24 x 12 MERV 13, Puracell VPX, Header style, no gasket. Part number = "PUPSH2424B2O".



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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)	2,548	3,876
Annual CO2 Emissions (lbs)	3,440	5,240
<b>Annual Energy Cost (\$0.08/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.

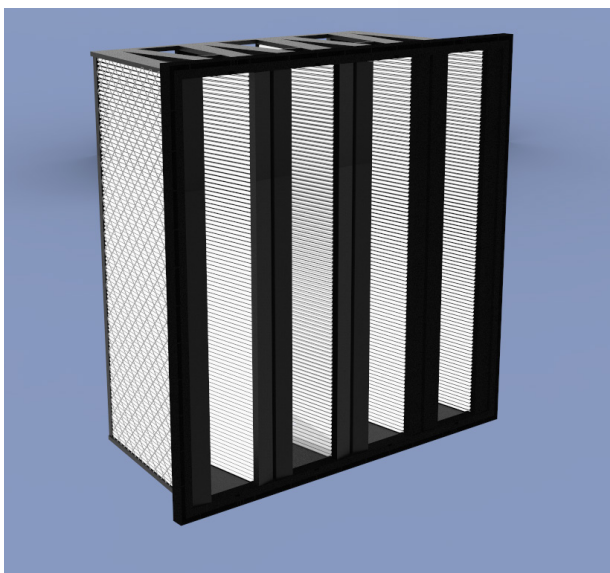
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Glasfloss has a policy of uninterrupted research, development and product improvement and reserves the right to change design and specifications without notice.

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## Product Highlights

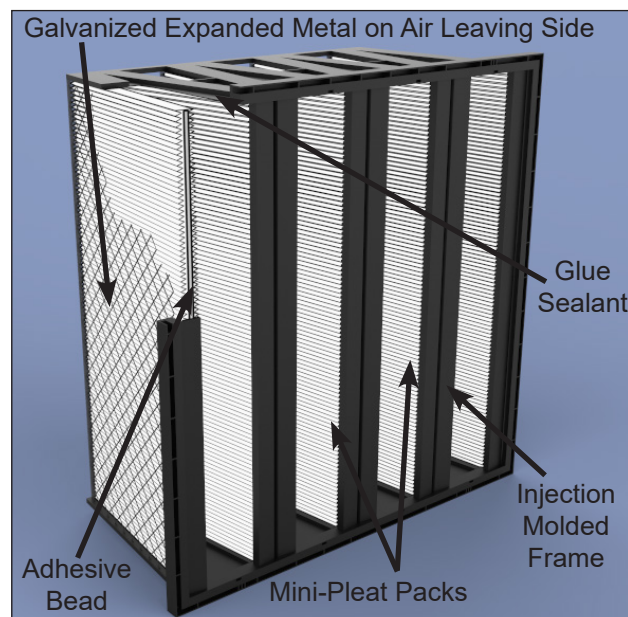
- Heavy-duty Construction for Gas Turbine Applications
- Glass Microfiber Media or Synthetic Fibers Provide Excellent Moisture Resistance
- Extra Durability for Demanding HVAC Applications

## 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.

## Specifications

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.



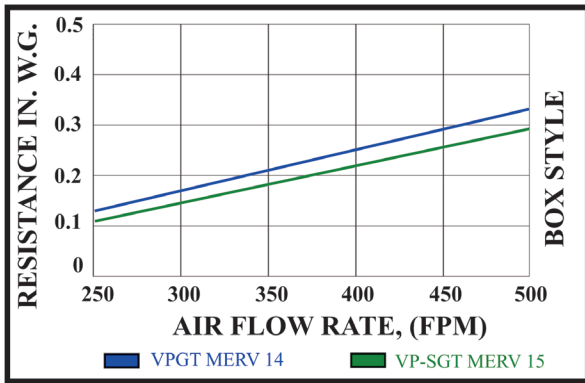
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MODEL NUMBER	SIZE H x W x D NOMINAL	SIZE H x W x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN W.G.	MEDIA SQUARE FEET	SIZE H x W x D NOMINAL MM	RATED VELOCITY M/H	SIZE H x W x D EXACT
<b>Puracell® VPGT MERV 14</b>								
PUPH2412B3H1	24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	500	0.33	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	0.33	191.32	610 x 610 x 305	9150	82.12
<b>Puracell® VP-SGT MERV 15</b>								
PUPSH2412B9H1	24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	500	0.29	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	0.29	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.

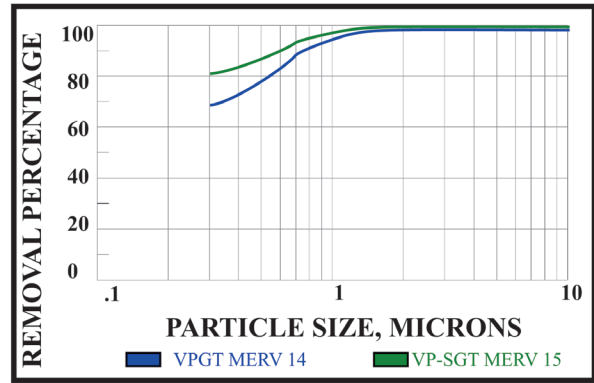
### STANDARD PRESSURE DROP

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



### MINIMUM PARTICLE SIZE EFFICIENCY

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



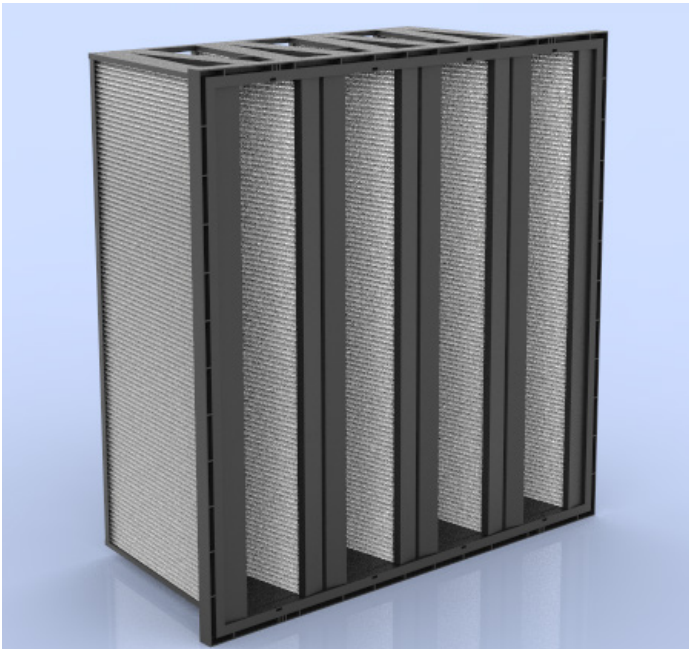
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## Product Highlights

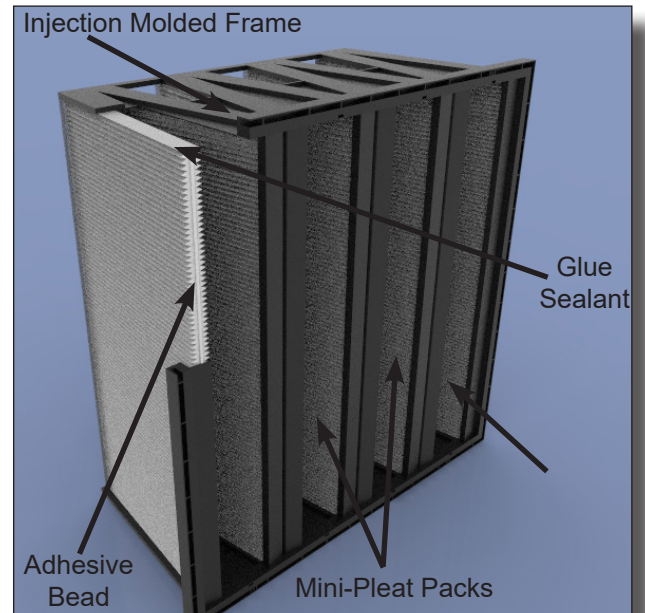
- MERV 15 Performance
- 500 gsm Activated Carbon
- Low Resistance to Airflow
- High-Strength All-Plastic Frame

## 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.

## Specifications

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.



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## Puracell® VP-GA

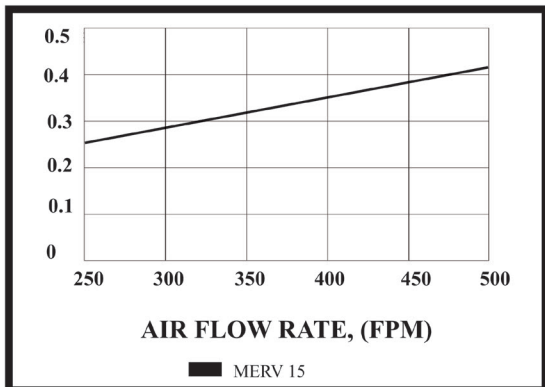
MERV 15 - 98% EFFICIENCY						
MODEL NUMBER	SIZE H x W x D NOMINAL	SIZE H x W x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN W.G.	MEDIA SQUARE FEET	SIZE H x W x D NOMINAL MM
2424B9	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	0.42	68.8	610 x 610 x 305
2420B9	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	500	0.42	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	0.42	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.

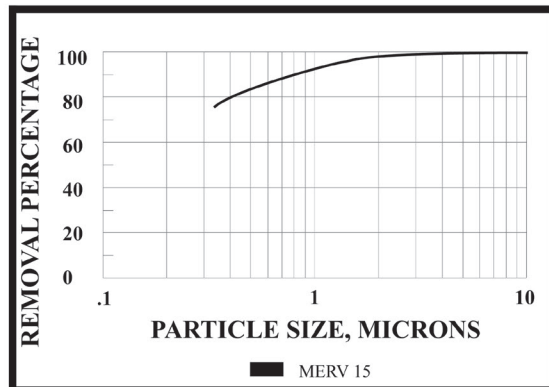
### PART NUMBER CONFIGURATION FOR VP-GA

PREFIX	FRAME STYLE	BASE PART NUMBER	GASKET LOCATION
PUPGA	H = SINGLE HEADER	SELECT THE BASE PART NUMBER FOR DESIRED SIZE	O = NO GASKET <b>SINGLE HEADER</b> E = AIR ENTRY/EXIT (8) F = AIR ENTRY (4) H = AIR EXIT (4) J = SIDE LOAD (2) S = SIDE LOAD (1)

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



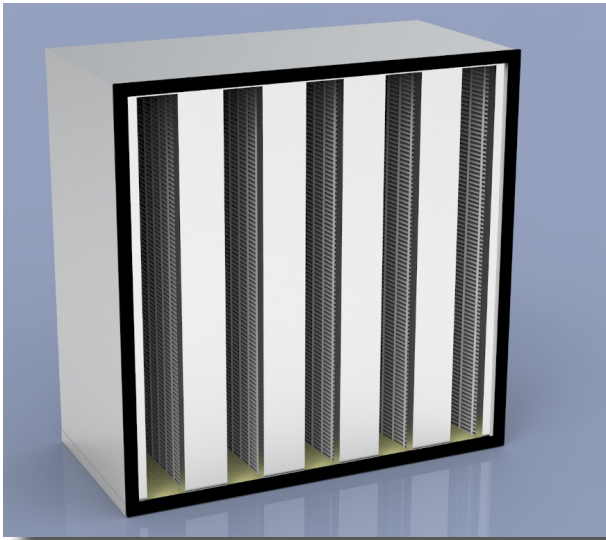
**PURACELL VP-GA**  
MINIMUM PARTICLE SIZE EFFICIENCY  
Test Filter Size 24" x 24" x 12" Nominal



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## Product Highlights

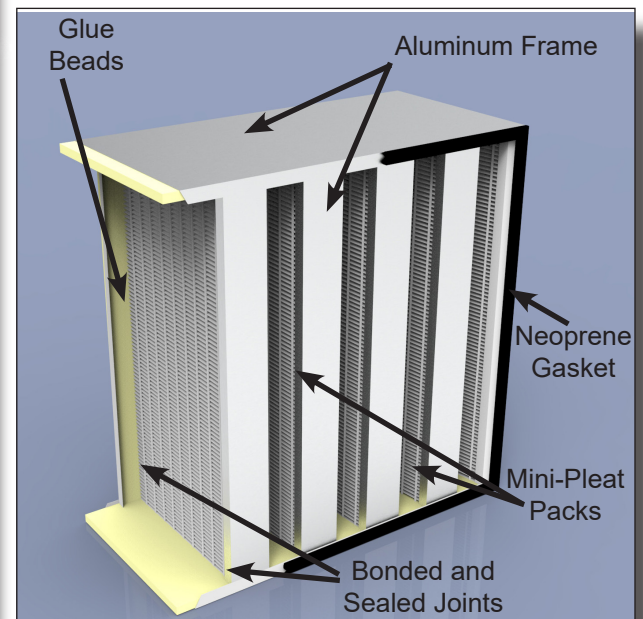
- High Capacity HEPA Performance
- 5V Features 10-Pack Construction
- Low Pressure Drop & Lower Operating Costs
- Chemical Resistant Aluminum Frame
- Moisture Resistant Construction

## Features

The Glasfloss Puracell 5V mini-pleat series offers HEPA grade performance, extremely low resistance to air flow and extended service life. The combination of incorporating 10 filtration packs of high efficiency media provides lower operating costs than traditional rigid cell filters. The chemical resistant aluminum framework provides exceptional strength. The Puracell 5V mini-pleat series provides MERV 16 performance or 99.99% performance @ .30 micron and are available in exact and nominal standard sizes.

## Specifications

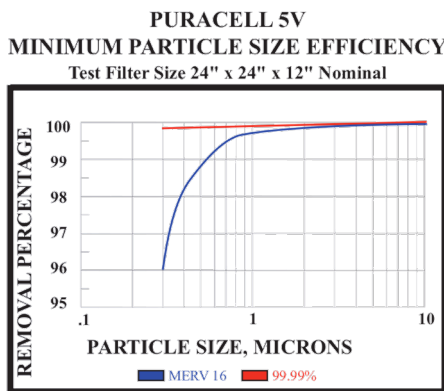
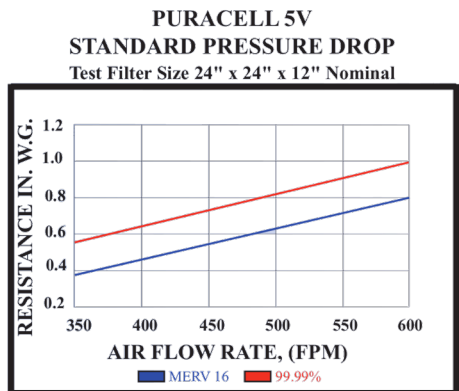
The Puracell 5V shall utilize mini-pleat packs which allow low resistance to air flow and long service life. The media shall be water resistant, inorganic, wet laid microfiber. The Puracell 5V media packs are constructed by pleating a continuous sheet of media. The pleats are separated by a uniform glue 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.



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Puracell® VP-5V						
BASE MODEL NUMBER	SIZE H x W x D NOMINAL (IN.)	SIZE H x W x D EXACT (IN.)	RATED VELOCITY FPM	INITIAL RESIST. IN W.G.	MEDIA SQUARE FEET	SIZE H x W x D NOMINAL (MM)
<b>MERV 16</b>						
Exact Size						
2424B4	24 x 24 x 12	24 x 24 x 11-1/2	600	0.80	401.19	610 x 610 x 305
2420B4	24 x 20 x 12	24 x 20 x 11-1/2	600	0.80	320.95	610 x 508 x 305
2412B4	24 x 12 x 12	24 x 12 x 11-1/2	600	0.80	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	0.80	389.99	610 x 610 x 305
23F19FB4	24 x 20 x 12	23-3/8 x 19-3/8 x 11-1/2	600	0.80	311.99	610 x 508 x 305
23F11FB4	24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	600	0.80	194.99	610 x 305 x 305
<b>99.99%</b>						
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	610 x 610 x 305
23F19FB6	24 x 20 x 12	23-3/8 x 19-3/8 x 11-1/2	600	1.00	311.99	610 x 508 x 305
23F11FB6	24 x 12 x 12	23-3/8 x 11-3/8 x 11-1/2	600	1.00	194.99	610 x 305 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"



## PART NUMBER CONFIGURATION FOR PURACELL® 5V

PREFIX	FRAME STYLE	BASE PART NUMBER	GASKET LOCATION
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)

To ensure that Puracell® 5V filters are fabricated to meet job requirements, order by the exact Part Number.  
Example: 24 x 24 x 12 MERV 16, box style, no gasket. Part number = "PUV52424B4O".



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