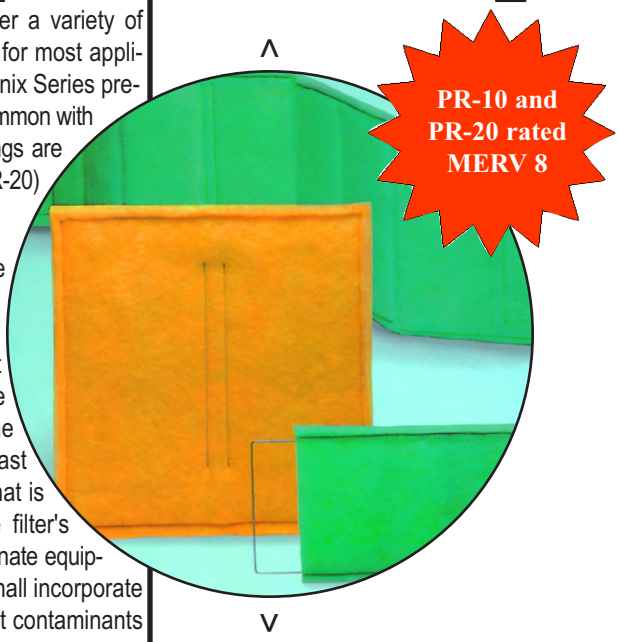
Glasfloss Industries
Excellence in Air Filtration Since 1936

PHOENIX SERIES

Poly-Rings, Sleeves and Links

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.



- **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**

CONSTRUCTION

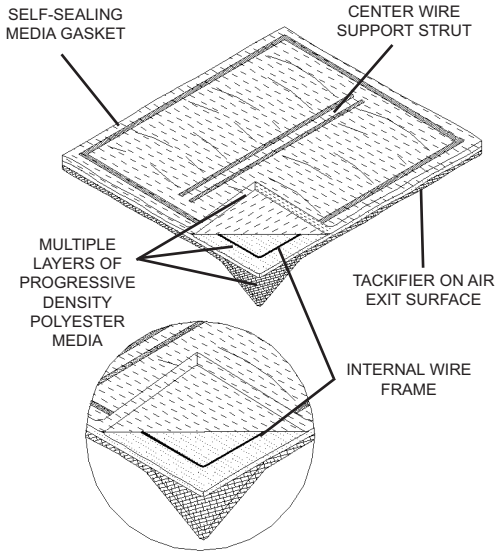
The Glasfloss Phoenix Series PR-5, PR-10 and PR-20 filters are constructed with multiple layers of progressively dense, 100% non-woven polyester media. The media layers are thermally sealed around an internal wire frame. A center wire support strut prevents the filter media from ballooning during operation. The progressively dense orientation of each media layer enables the small micron size particles to depth load within the filter. The last layer of media incorporates a non-migratory, in-line tackifier that is bonded to the media fibers, allowing maximum use of the filter's upstream layers. The in-line tackifier will not shed and contaminate equipment downstream of the filter. The Glasfloss Phoenix Series shall incorporate sufficient media overlap around the filter's perimeter to prevent contaminants from bypassing around the holding frame.

APPLICATIONS

The Glasfloss Phoenix Series Poly-Rings, Sleeves and Links can be used in a variety of HVAC applications and are commonly used as the air intake filter for spray paint booths. The Phoenix Series filters are manufactured with components impervious to moisture, which makes them excellent for rooftop units and HVAC applications plagued with high humidity. The Phoenix Series filters are durable; incorporating a heavy-duty internal framework, they are less likely to suffer damage during transit. Whether used as the primary or the pre-filter to extend the life of more expensive final filters, the Phoenix Series offers value and performance not found in other filters.

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.



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

PHOENIX SERIES

Poly-Rings, Sleeves and Links

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
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	610 x 457 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

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
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	610 x 457 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

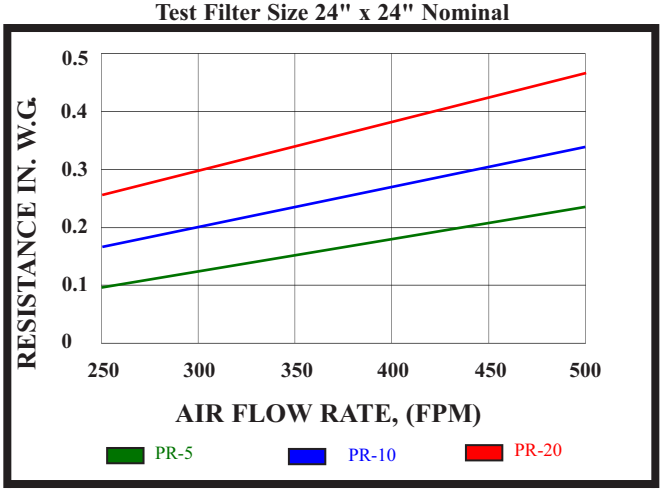
Phoenix Series: PR-20

PRP1224-20	12x24x2	11-3/8 x 23-3/8 x 1-3/4	300	0.30	2.00	305 x 610 x 50	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 50	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 50	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 50	5490	74.64
PRP1824-20	18x24x2	17-3/8 x 23-3/8 x 1-3/4	300	0.30	3.00	610 x 457 x 50	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 50	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 50	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 50	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 50	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 50	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"

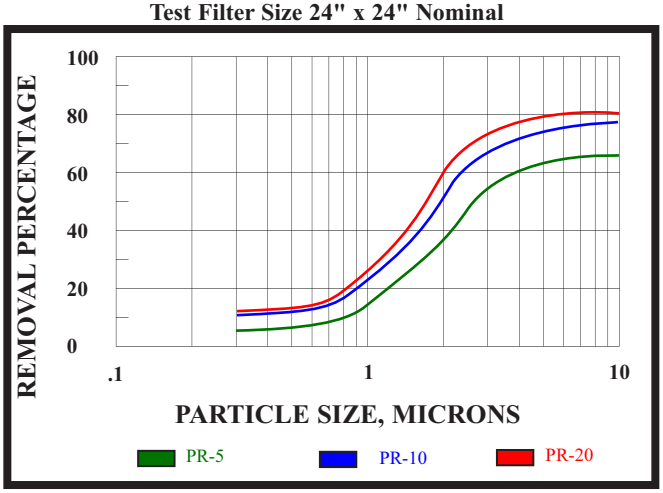
STANDARD PRESSURE DROP

Test Filter Size 24" x 24" Nominal



MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" Nominal



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 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.

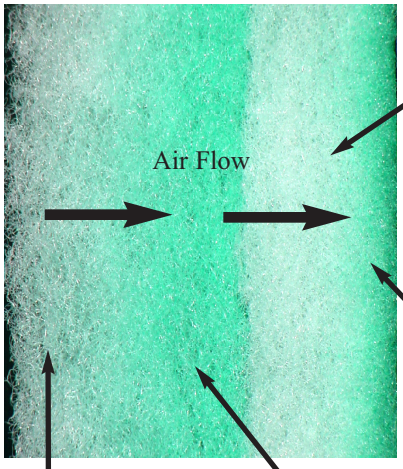
PR-10

Glasfloss Phoenix Series PR-10 Ring Panels, Sleeves and Links are engineered for moderate dust loading applications. PR-10 shall be 100% non-woven 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 polyester. Three distinctly different plies of media shall be utilized, each being more dense than the one preceding it. The progressively dense fiber orientation of each media layer enables the small micron size particles to depth load within the filter. The PR-20 shall have a nominal thickness of 2". An internal wire frame shall be thermally sealed within the filter. There shall be sufficient media overlap to ensure a positive seal between the filter and the holding frame, eliminating air bypass. The PR-20 Ring Panels shall be rated MERV 8 when tested in accordance with the ANSI/ASHRAE 52.2 Test Standard.

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



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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 in-between each panel. Glasfloss Poly-Ring Panels also offer easier handling, especially for rooftop units, and they are not susceptible to damage as some traditional cardboard frame filters. Glasfloss Poly-Ring Panels are a convenient alternative to individual cardboard frame filters and can save labor costs during installation.

OPTIONS

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

ENERGY STAR PARTNER

Glasfloss is proud to be an Energy Star Partner. The Energy Star Service and Product Provider Partnership is available to organizations that provide energy efficiency related products and/or services to the commercial buildings and industrial plants in the United States.

U.S. GREEN BUILDING COUNCIL LEED USGBC

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