

Precisionaire®

Rigi Pleat



Medium and high efficiency synthetic and glass micro-fiber rigid extended surface filters.

DIMENSIONS AND TYPICAL PERFORMANCE

| RIGI PLEAT FILTER MEDIA | NOMINAL SIZE (INCHES) | ACTUAL SIZE (INCHES) | | 12" DEEP FILTERS** | | | | 6" DEEP FILTERS | | | |
|----------------------------|-----------------------------|-------------------------|-------|------------------------------|-----------------------------|--------|-------------------------------------|------------------------------|-----------------------------|--------|-------------------------------------|
| | | | | AIRFLOW CAPACITY (CFM) | RESISTANCE (INCHES W.G.) | | MEDIA AREA (FT ²) | AIRFLOW CAPACITY (CFM) | RESISTANCE (INCHES W.G.) | | MEDIA AREA (FT ²) |
| | | | | | WIDTH | HEIGHT | | | INITIAL | FINAL* | |
| 45-50% EFFICIENCY | 12 x 24 | 11.38 | 23.38 | 1000 | .24 | 1.5 | 28 | 1000 | .29 | 1.5 | 14 |
| 96% AVERAGE ARRESTANCE | 20 x 20 | 19.38 | 19.38 | 1400 | .24 | 1.5 | 39 | 1400 | .29 | 1.5 | 19 |
| | 20 x 24 | 19.38 | 23.38 | 1660 | .24 | 1.5 | 47 | 1660 | .29 | 1.5 | 24 |
| | 24 x 24 | 23.38 | 23.38 | 2000 | .24 | 1.5 | 58 | 2000 | .29 | 1.5 | 29 |
| 60-65% EFFICIENCY | 12 x 24 | 11.38 | 23.38 | 1000 | .28 | 1.5 | 28 | 750 | .31 | 1.5 | 14 |
| 97% AVERAGE ARRESTANCE | 20 x 20 | 19.38 | 19.38 | 1400 | .28 | 1.5 | 39 | 1050 | .31 | 1.5 | 19 |
| | 20 x 24 | 19.38 | 23.38 | 1660 | .28 | 1.5 | 47 | 1245 | .31 | 1.5 | 24 |
| | 24 x 24 | 23.38 | 23.38 | 2000 | .28 | 1.5 | 58 | 1500 | .31 | 1.5 | 29 |
| 80-85% EFFICIENCY | 12 x 24 | 11.38 | 23.38 | 1000 | .49 | 1.5 | 28 | 600 | .40 | 1.5 | 14 |
| 98% AVERAGE ARRESTANCE | 20 x 20 | 19.38 | 19.38 | 1400 | .49 | 1.5 | 39 | 840 | .40 | 1.5 | 19 |
| | 20 x 24 | 19.38 | 23.38 | 1660 | .49 | 1.5 | 47 | 995 | .40 | 1.5 | 24 |
| | 24 x 24 | 23.38 | 23.38 | 2000 | .49 | 1.5 | 58 | 1200 | .40 | 1.5 | 29 |
| 90-95% EFFICIENCY | 12 x 24 | 11.38 | 23.38 | 1000 | .67 | 1.5 | 28 | 600 | .55 | 1.5 | 14 |
| 99% AVERAGE ARRESTANCE | 20 x 20 | 19.38 | 19.38 | 1400 | .67 | 1.5 | 39 | 840 | .55 | 1.5 | 19 |
| | 20 x 24 | 19.38 | 23.38 | 1660 | .67 | 1.5 | 47 | 995 | .55 | 1.5 | 24 |
| | 24 x 24 | 23.38 | 23.38 | 2000 | .67 | 1.5 | 58 | 1200 | .55 | 1.5 | 29 |

Note: Temperature range is 180°F (83°C) continuous and 200°F (94°C) intermittent on both the synthetic and glass media.

*Maximum recommended final resistance (1.5" w.g.)... system design may dictate a lower change-out point.

** Actual depth of 12" filter is 11.5", and 6" filter is 5.88".

| METRIC CONVERSIONS | FORMULA |
|-----------------------------------|-------------------------|
| Inches to mm | Inches x 25.4 |
| Inches w.g. to kPa | Inches w.g. x .2488 |
| CFM to m ³ /h | CFM x 1.6992 |
| Ft ² to m ² | Ft ² x .0929 |

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26-GAUGE GALVANIZED STEEL PERIMETER SUPPORT ON HEADERED FILTER. THIS IS THE STRONGEST FILTER OF ITS TYPE.

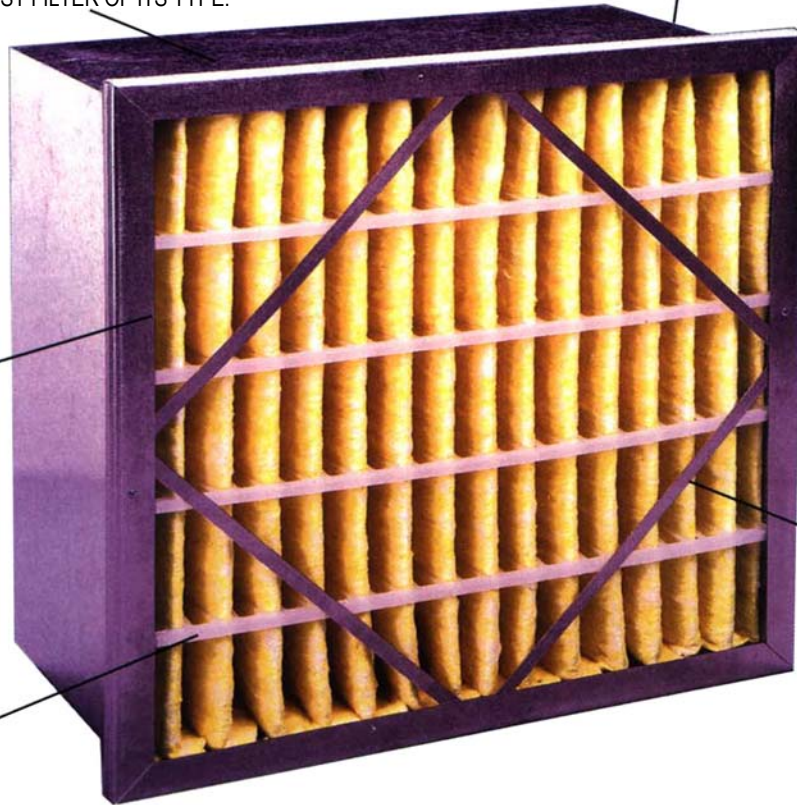
26-GAUGE GALVANIZED STEEL ENCLOSING FRAME.

BOX-STYLE SINGLE HEADER OR DOUBLE HEADER AND NON-HEADERED DESIGNS.

MEDIA IS THOROUGHLY BONDED TO THE ENCLOSING FRAME.

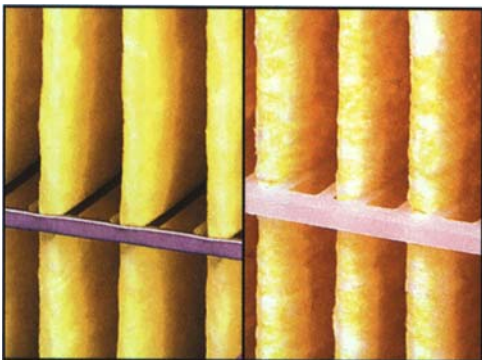
WATERPROOF PLASTIC OR METAL PLEAT SEPARATORS

DIAGONAL SUPPORTS ON BOTH AIR ENTERING AND AIR EXITING SIDES.



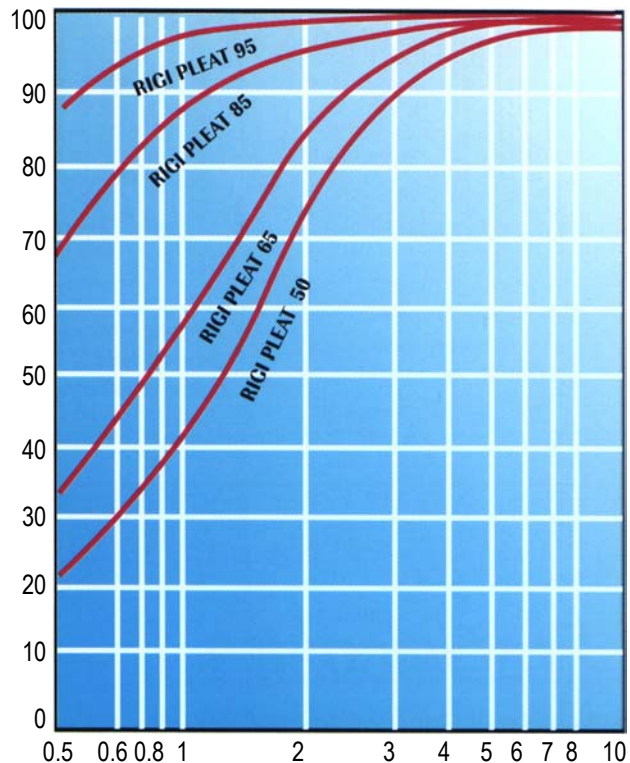
A high efficiency, totally rigid filter with exceptional service life.

RIGI PLEAT filters are the ideal choice where high dirt-holding capacity is required in a totally rigid, disposable air filter. Available in four efficiencies (either synthetic or glass micro-fiber media) and two depths, there is a Rigi Pleat filter to meet virtually every application. With an optional integral wire mesh face screen on both the air entering and air exiting sides, they are the right choice for many turbine applications as well. The Rigi Pleat's performance is not affected by changes in air velocity or fan shutdown, and is therefore well suited to variable volume systems.



New construction offers waterproof plastic or metal pleat separators

PARTICLE SIZE EFFICIENCY



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SUGGESTED SPECIFICATIONS

AIR FILTERS - Air filters shall be Precisionaire Rigi Pleat deep pleated filters, as manufactured by Precisionaire, Incorporated. Each filter shall consist of a synthetic (or glass) media, heavy gauge expanded metal support grid, and enclosing frame. The filter shall be listed by Underwriters' Laboratories.

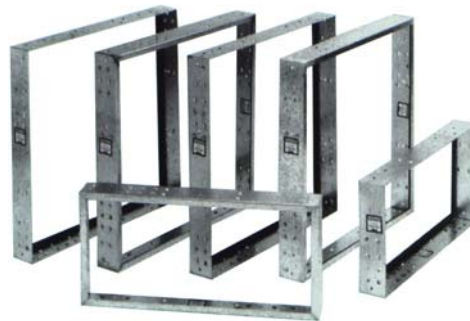
FILTER MEDIA - The filter media shall be of a two layer synthetic filter material (or single layer glass micro-fiber) with an average efficiency of _____% and have an average arrestance of _____% based on ASH RAE Test Standard 52.1-92.

DEPTH - The filter shall be (6", 12") deep.

MEDIA SUPPORT GRID - The media support grid shall be constructed of heavy gauge (.013) electrogalvanized expanded metal with grid members being no less than .025" wide, providing an open area of not less than 96%. The grid shall be 100% bonded to the media on the air exiting side to eliminate media vibration and pull-away. The grid shall be formed to provide a uniform V-shaped pleat, with a matching open area on the air exiting side for maximum utilization of the media and low airflow resistance.

PLEAT STABILIZERS - Pleat stabilizers shall be installed on both the air entering and air exiting sides of the media pack. The pleat stabilizers shall be waterproof plastic (or metal in class 1 filters).

ENCLOSING FRAME - The frame shall be constructed of 26-gauge galvanized steel. The headered model shall have a reinforcing perimeter support around the front of the filter. Diagonal supports shall be permanently attached to both the air entering and air exiting sides of the filter. The filter shall be a standard (headered) model. The enclosing frame shall be chemically bonded to the filter pack on all four sides.



Precisionaire Pre Pleat panel filters are ideal as prefilters to extend the life of the Rigi Pleat.

Holding Frames- These heavy-duty frames will securely hold 1" up to 12" deep filters, and may be bolted together to construct built-up banks.

Side Access Housing -Available in single or two-stage designs, these side access housings may be grouped to meet airflow requirements

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