

Purolator™

PAF 11™

Medium Efficiency, Synthetic Pleated Filters



Introduction

- Purolator's PAF 11 filters are medium-efficiency, extended surface, pleated air filters.
- Specifically manufactured for system applications requiring improved medium-efficiency, non-shedding filtration media.
- Out performs similar products with respect to initial efficiency, and average efficiency providing optimum filter service life.
- Effective in single filter applications or as improved pre-filter substitutes for disposables, permanent metal filters or media pad/frame filters.
- Industry applications: Prefiltration for hospitals, general health care facilities, food processing plants, telecommunications, pharmaceutical and semi-conductor manufacturing, etc.
- MERV 11 (Minimum Efficiency Reporting Value) based on ASHRAE Test Standard 52.2-2007.



Media and Support

- Synthetic media made up of continuous hydrophobic fibers which do not absorb moisture and can withstand turbulent, high velocity conditions.
- Fibers are thermally bonded to eliminate the need for chemical binders that could promote microbial growth or generate VOCs.
- Improved overall particle size efficiency due to continuous fiber structure and dual-stage electrostatic enhancement which captures an increased amount of smaller particulate than conventional glass media.
- Media support: Continuously bonded to a corrosion resistant, expanded metal grid allowing a 96% open face area.
- Pleat configuration: Formed into aerodynamic, semi-tapered, wedge-shaped pleats expanding its capability to capture contaminants.

Construction features

- Frame: Enclosed in a two-piece, high wet-strength beverage board frame.
- Assembly: A fully bonded double-wall frame combines with the integral corner flaps and forms a rugged, durable filter which will not rack, warp or leak under normal operating conditions.
- To ensure no dirty air bypass, the media pack is securely bonded to the periphery of the frame with solvent-free, water-based glue.
- UL Classification: Classified per UL Standard 900 for flammability.
- In 4" models, accurate pleat alignment is maintained by die-cut pleat spacers on the upstream side.
- Maximum operating temperature: ≤200°F.

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Product Specifications

1. The filter shall be the PAF 11 as manufactured by Purolator.
2. Air filters shall be 1", 2" and 4" deep, medium efficiency, pleated media, disposable panel type.
3. The filter media shall be synthetic media as brand named to Purolator.
4. The filter media shall be bonded to a corrosion resistant, expanded metal support grid with a 96% open face area.
5. To ensure no dirty air bypass, the media grid assembly shall be bonded to all interior surfaces of the frame with solvent-free water based glue.
6. The support grid shall be formed into a wedge configuration to optimize use of the filter media.
7. To maintain accurate pleat alignment, die-cut diagonal frame members shall be bonded to the media pack upstream and downstream.

Performance Data: PAF 11

Series	PAF 11 Model Number	Actual Size WxHxD	Nominal (1) Size WxHxD	CFM(2) Capacity	Resist *W.G.	Sq. Ft.
1 14 pleats per liner foot of face area	PAF11-STD1	10x20x1	9 1/2 x 19 1/2 x 3/4	425	0.32	2.6
	PAF11-STD1	12x20x1	11 1/2 x 19 1/2 x 3/4	500	0.32	3.1
	PAF11-STD1	12x24x1	11 3/4 x 23 3/4 x 3/4	600	0.32	3.7
	PAF11-STD1	14x20x1	13 1/2 x 19 1/2 x 3/4	590	0.32	3.8
	PAF11-STD1	14x25x1	13 1/2 x 24 1/2 x 3/4	730	0.32	4.8
	PAF11-STD1	15x20x1	14 1/2 x 19 1/2 x 3/4	630	0.32	4.1
	PAF11-STD1	16x20x1	15 1/2 x 19 1/2 x 3/4	670	0.32	4.3
	PAF11-STD1	16x25x1	15 1/2 x 24 1/2 x 3/4	840	0.32	5.3
	PAF11-STD1	18x24x1	17 3/4 x 23 3/4 x 3/4	900	0.32	5.8
	PAF11-STD1	18x25x1	17 1/2 x 24 1/2 x 3/4	940	0.32	6.0
	PAF11-STD1	20x20x1	19 1/2 x 19 1/2 x 3/4	840	0.32	5.5
	PAF11-STD1	20x25x1	19 1/2 x 24 1/2 x 3/4	1050	0.32	6.9
	PAF11-STD1	24x24x1	23 3/4 x 23 3/4 x 3/4	1200	0.32	7.8
	PAF11-STD1	25x25x1	24 1/2 x 24 1/2 x 3/4	1310	0.32	8.7
2 15 pleats per liner foot of face area	PAF11-STD2	10x20x2	9 1/2 x 19 1/2 x 1 1/4	700	0.31	6.1
	PAF11-STD2	12X12X2	11 1/2 x 11 1/2 x 1 1/4	900	0.31	3.1
	PAF11-STD2	12X20X2	11 1/2 x 19 1/2 x 1 1/4	850	0.31	7.1
	PAF11-STD2	12X24X2	11 3/4 x 23 3/4 x 1 1/4	1000	0.31	8.5
	PAF11-STD2	14X20X2	13 1/2 x 19 1/2 x 1 1/4	975	0.31	8.6
	PAF11-STD2	14X25X2	13 1/2 x 24 1/2 x 1 1/4	1215	0.31	10.8
	PAF11-STD2	15X20X2	14 1/2 x 19 1/2 x 1 1/4	1040	0.31	9.1
	PAF11-STD2	16X16X2	15 1/2 x 15 1/2 x 1 1/4	890	0.31	5.7
	PAF11-STD2	16X20X2	15 1/2 x 19 1/2 x 1 1/4	1100	0.31	9.6
	PAF11-STD2	16X24X2	15 1/2 x 23 3/4 x 1 1/4	1335	0.31	11.6
	PAF11-STD2	16X25X2	15 1/2 x 24 1/2 x 1 1/4	1400	0.31	12.1
	PAF11-STD2	18X20X2	17 3/4 x 19 1/2 x 1 1/4	1250	0.31	11.2
	PAF11-STD2	18X22X2	17 3/4 x 21 1/2 x 1 1/4	1500	0.31	12.3
	PAF11-STD2	18X24X2	17 3/4 x 23 3/4 x 1 1/4	1500	0.31	13.4
	PAF11-STD2	18X25X2	17 3/4 x 24 1/2 x 1 1/4	1550	0.31	14.0
	PAF11-STD2	20X20X2	19 1/2 x 19 1/2 x 1 1/4	1400	0.31	12.2
	PAF11-STD2	20X24X2	19 1/2 x 23 3/4 x 1 1/4	1665	0.31	14.6
	PAF11-STD2	20X25X2	19 1/2 x 24 1/2 x 1 1/4	1750	0.31	15.3
	PAF11-STD2	20X30X2	19 1/2 x 29 1/2 x 1 1/4	2000	0.31	13.1
	PAF11-STD2	24X24X2	23 3/4 x 23 3/4 x 1 1/4	2000	0.31	17.6
	PAF11-STD2	25X25X2	24 1/2 x 24 1/2 x 1 1/4	2000	0.31	19.1
4 11 pleats per liner foot of face area	PAF11-STD4	12X24X4	11 3/4 x 23 3/4 x 3 3/4	1250	0.24	14.4
	PAF11-STD4	16X20X4	15 1/2 x 19 1/2 x 3 3/4	1400	0.24	14.9
	PAF11-STD4	16X25X4	15 1/2 x 24 1/2 x 3 3/4	1750	0.24	18.6
	PAF11-STD4	18X24X4	17 3/4 x 23 3/4 x 3 3/4	1875	0.24	20.4
	PAF11-STD4	20X20X4	19 1/2 x 19 1/2 x 3 3/4	1750	0.24	19.1
	PAF11-STD4	20X24X4	19 1/2 x 23 3/4 x 3 3/4	2050	0.24	23.0
	PAF11-STD4	20X25X4	19 1/2 x 24 1/2 x 3 3/4	2170	0.24	24.0
	PAF11-STD4	24X24X4	23 3/4 x 23 3/4 x 3 3/4	2500	0.24	28.0

(1) Width and height dimensions are interchangeable. The PAF 11 may be installed with pleats running vertical or horizontal.

(2) Capacity ratings are recommended levels. Resistance to airflow data is based on ASHRAE 52.2-2007 Test Methods. Data based on 24x24 size at a test velocity of 492 FPM.

(3) The recommended final operating resistance is 1.0" W.G. in typical operation. The PAF 11 can be operated to lower final resistance levels without materially affecting filter efficiency.

(4) The PAF 11 pleated filter is classified per UL 900 for flammability. Suggested operating temperatures: not to exceed 200°F (93°C).

P-PAF11-0214



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