

Introduction

- Purolator's PAF 11 filters are medium efficiency, self-supported, extended surface, pleated air filters.
- Specifically manufactured for system applications requiring high efficiency, non-shedding filtration media.
- Outperforms 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, health care facilities, food processing plants, telecommunications, pharmaceutical and semi-conductor manufacturing, etc.
- Based on ASHRAE standard 52.1-1992:
Average efficiency: 40 - 45%
Average arrestance: 95 - 98%
- Based on ASHRAE Test Standard 52.2:
MERV 11 (Minimum Efficiency Reporting Value)

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 assure no dirty air bypass, the media pack is securely bonded to the periphery of the enclosure frame with solvent-free water based glue.
- U.L. Classification: Class 2 approved and listed. Tested in accordance with U.L. Standard 900.
- In 4" models, accurate pleat alignment is maintained by die-cut pleat spacers on the upstream side.
- Maximum operating temperature: $\leq 200^{\circ}\text{F}$.



PAF 11™

Medium Efficiency, Synthetic Pleated Filters

Suggested Product Specifications

1. The filter shall be the PAF 11 as manufactured by Purolator Air Filtration.
2. Air filters shall be (2") and (4") deep, medium efficiency, pleated media, disposable panel type.
3. The filter media shall be synthetic media as brand named to Purolator Air Filtration .
4. The filter media shall be bonded to a corrosion resistant, expanded metal support grid with a 96% open face area.
5. To assure 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	Nominal (1) Size WxHxD	Actual Size WxHxD	PAF 11 Model number	CFM (2) capacity med.	CFM (2) capacity high	Resist *W.G. med.	Resist *W.G. high	Resist *W.G. final (3)	Sq. ft.	Media area/sq. ft. face area
2 15 pleats per lineal foot of face area	10x20x2	9½ x 19½ x 1¾	PAF11-1002	425	700	.20	.32	1.00	6.1	4.6
	12x12x2	11½ x 11½ x 1¾	PAF11-2202	600	900	.20	.32	1.00	3.1	4.6
	12x20x2	11½ x 19½ x 1¾	PAF11-2002	500	850	.20	.32	1.00	7.1	4.6
	12x24x2	11¾ x 23¾ x 1¾	PAF11-2402	600	1000	.20	.32	1.00	8.5	4.6
	14x20x2	13½ x 19½ x 1¾	PAF11-4002	585	975	.20	.32	1.00	8.6	4.6
	14x25x2	13½ x 24½ x 1¾	PAF11-4502	730	1215	.20	.32	1.00	10.8	4.6
	15x20x2	14½ x 19½ x 1¾	PAF11-5002	625	1040	.20	.32	1.00	9.1	4.6
	16x16x2	15½ x 15½ x 1¾	PAF11-6602D	530	890	.20	.32	1.00	5.7	4.6
	16x20x2	15½ x 19½ x 1¾	PAF11-6002	665	1100	.20	.32	1.00	9.6	4.6
	16x24x2	15½ x 23¾ x 1¾	PAF11-6402	800	1335	.20	.32	1.00	11.6	4.6
	16x25x2	15½ x 24½ x 1¾	PAF11-6502	850	1400	.20	.32	1.00	12.1	4.6
	18x20x2	17¾ x 19½ x 1¾	PAF11-8002	750	1250	.20	.32	1.00	11.2	4.6
	18x22x2	17¾ x 21½ x 1¾	PAF11-8202	900	1500	.20	.32	1.00	12.3	4.6
	18x24x2	17¾ x 23¾ x 1¾	PAF11-8402	900	1500	.20	.32	1.00	13.4	4.6
	18x25x2	17¾ x 24½ x 1¾	PAF11-8502	950	1550	.20	.32	1.00	14.0	4.6
	20x20x2	19½ x 19½ x 1¾	PAF11-0002	850	1400	.20	.32	1.00	12.2	4.6
	20x24x2	19¾ x 23¾ x 1¾	PAF11-0402	1000	1665	.20	.32	1.00	14.6	4.6
	20x25x2	19½ x 24½ x 1¾	PAF11-0502	1050	1750	.20	.32	1.00	15.3	4.6
	20x30x2	19-½ x 29½ x 1¾	PAF11-0302	1200	2000	.20	.32	1.00	13.1	4.6
	24x24x2	23¾ x 23¾ x 1¾	PAF11-4402	1200	2000	.20	.32	1.00	17.6	4.6
25x25x2	24½ x 24½ x 1¾	PAF11-5502	1200	2000	.20	.32	1.00	19.1	4.6	
4 11 pleats per lineal foot of face area	12x24x4	11¾ x 23¾ x 3¾	PAF11-2404	1000	1250	.24	.35	1.00	14.0	7.0
	16x20x4	15¾ x 19¾ x 3¾	PAF11-6004	1100	1400	.24	.35	1.00	14.9	7.0
	16x25x4	15¾ x 24¾ x 3¾	PAF11-6504	1400	1750	.24	.35	1.00	18.6	7.0
	18x24x4	17¾ x 23¾ x 3¾	PAF11-8404	1500	1875	.24	.35	1.00	20.4	7.0
	20x20x4	19¾ x 19¾ x 3¾	PAF11-0004	1400	1750	.24	.35	1.00	19.1	7.0
	20x24x4	19¾ x 23¾ x 3¾	PAF11-0404	1625	2050	.24	.35	1.00	23.0	7.0
	20x25x4	19¾ x 24¾ x 3¾	PAF11-0504	1750	2170	.24	.35	1.00	24.0	7.0
	24x24x4	23¾ x 23¾ x 3¾	PAF11-4404	2000	2500	.24	.35	1.00	28.0	7.0
25x29x4	24½ x 28-½ x 3¾	PAF11-5904	2500	3150	.24	.35	1.00	34.6	7.0	

- (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 52.1-1992 and ASHRAE 52.2 Test Methods. Performance tolerances conform to Section 7.4 of ARI Standard 850.93.
- (3) The recommended final operating resistance is typical of systems currently in operation. The PAF 11 can be operated to higher or lower final resistance levels without materially affecting filter efficiency.
- (4) The PAF 11 pleated filter is UL Class 2 approved and listed. Testing on this product was performed in accordance with UL Standard 900. Suggested operating temperatures: not to exceed 200°F (93°C).



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