



AERO-CELL™

Extended Surface Rigid Cell Filter

Introduction

- Purolator's AERO-CELL is a high efficiency, deep pleated, disposable, rigid cell air filter.
- Its box construction eliminates the need for retainers and special external wire media supports.
- A high surface area to depth ratio provides the maximum amount of effective filter media in areas of minimum in-line duct space.
- Average efficiency range: 50-95%
- Average arrestance: 97-99%
- Available in three filter face sizes: 12x24, 20x24, 24x24, and two depth sizes—6", 12"

Media and Support

- Media: High-density ultra-fine glass microfiber filter blanket laminated to reinforced, high strength nylon backing.
- Media support: Continuously bonded to a corrosion resistant, 28-gauge, expanded metal grid allowing a 95% open face area.
- Pleat configuration: Formed into aerodynamic, semi-tapered, wedge-shaped pleats
- Pleat support: Stationary metal pleat stabilizers promoting consistent pleat configuration.
- Media area/square foot: See performance data chart on back.
- Recorded airflow rate: 500 FPM (625 FPM Max.)

Construction Features

- Frame and assembly: High strength, corrosion resistant, galvanized steel to which the filter pack is sealed on all sides.
- Metal corner supports.
- Filter integrity is maintained by diamond-pattern metal strapping on the air exit side of the pack.
- UL Classification: Class 2 approved and listed. Class 1 also available.
- Tested in accordance with U.L. Standard 900 and ASHRAE 52.1-1992 and ASHRAE 52.2.
- Recommended operating temperature: ≤200°F



Suggested Product Specifications

1. The filter shall be the AERO-CELL as manufactured by Purolator Air Filtration.
2. Air filters shall be high efficiency, deep pleated, disposable, rigid cell type.
3. The filter media shall be a high loft blanket composed of randomly oriented ultra-fine fiberglass fibers laminated to a non-woven backing.
4. The filter media shall be continuously bonded to a heavy duty, 28-gauge, corrosion resistant, electro-galvanized steel, expanded metal grid with an open face area of not less than 95%.
5. Tested in accordance with ASHRAE Std. 52.1-1992 and ASHRAE 52.2.

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Purolator®
Air Filtration
 a CLARCOR company

Suggested product specifications (continued)

6. To inhibit dirty air bypass, the media grid assembly shall be bonded to all interior surfaces of the enclosure frame.
7. The support grid shall be formed into a wedge configuration to optimize usage of the filter media. Die cut pleat spacers shall be permanently installed.
8. The enclosure frame shall be constructed of corrosion resistant galvanized steel in such a manner as to produce a rigid durable filter.
9. Filters shall be listed and rated by Underwriters Laboratories, Inc. as Class 2.

Performance data: AERO-CELL 65/85/95

Series	Nominal size WxHxD	Standard Models						Headered Models*			
		AERO-CELL Model number	CFM capacity		Resist. in. w.g.		Media area sq. ft.	AERO-CELL Model number	Resist in. w.g.		Media area sq. ft.
		number	med	high	med	high		number	med	high	
50%	24x24x12	AC50-4412	1000	2000	.08	.25	58	HAC50-4412	.10	.32	50
	20x24x12	AC50-0412	850	1700	.08	.25	47	HAC50-0412	.10	.32	40
	12x24x12	AC50-2412	500	1000	.08	.25	29	HAC50-2412	.10	.32	25
	24x24x6	AC50-4406	500	1000	.04	.13	29	HAC50-4406	.05	.15	26
	20x24x6	AC50-0406	425	850	.04	.13	24	HAC50-0406	.05	.15	21
	12x24x6	AC50-2406	250	500	.04	.13	15	HAC50-2406	.05	.15	13
65%	24x24x12	AC60-4412	1000	2000	.10	.30	58	HAC60-4412	.13	.40	50
	20x24x12	AC60-0412	850	1700	.10	.30	47	HAC60-0412	.13	.40	40
	12x24x12	AC60-2412	500	1000	.10	.30	29	HAC60-2412	.13	.40	25
	24x24x6	AC60-4406	500	1000	.05	.15	29	HAC60-4406	.06	.17	26
	20x24x6	AC60-0406	425	850	.05	.15	24	HAC60-0406	.06	.17	21
	12x24x6	AC60-2406	250	500	.05	.15	15	HAC60-2406	.06	.17	13
85%	24x24x12	AC85-4412	1000	2000	.25	.50	58	HAC85-4412	.28	.65	50
	20x24x12	AC85-0412	850	1700	.25	.50	47	HAC85-0412	.28	.65	40
	12x24x12	AC85-2412	500	1000	.25	.50	29	HAC85-2412	.28	.65	25
	24x24x6	AC85-4406	500	1000	.10	.30	29	HAC85-4406	.15	.35	26
	20x24x6	AC85-0406	425	850	.10	.30	24	HAC85-0406	.15	.35	21
	12x24x6	AC85-2406	250	500	.10	.30	15	HAC85-2406	.15	.35	13
95%	24x24x12	AC95-4412	1000	2000	.30	.65	58	HAC95-4412	.35	.80	50
	20x24x12	AC95-0412	850	1700	.30	.65	47	HAC95-0412	.35	.80	40
	12x24x12	AC95-2412	500	1000	.30	.65	29	HAC95-2412	.35	.80	25
	24x24x6	AC95-4406	500	1000	.25	.50	29	HAC95-4406	.30	.60	26
	20x24x6	AC95-0406	425	850	.25	.50	24	HAC95-0406	.30	.60	21
	12x24x6	AC95-2406	250	500	.25	.50	15	HAC95-2406	.30	.60	13

* Standard Header is 3/4"; a 1-1/8" header is available.

The following non-standard sizes are available upon request: 20x20x12, 16x20x12, 20x25x12, and 16x25x12. Class 1 available where required.



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