



SERVA-CELL® VA 65/85/95

V-Configuration Rigid Cell Filter

Introduction

- The Purolator SERVA-CELL VA offers the benefits of ASHRAE filtration performance, lightweight materials, and industrial strength construction able to withstand nominal air flow of 2500 CFM.
- Low pressure drop and maximum use of the filtration surface area combine to increase filter service life and allow for maximum efficiency ratings.
- The SERVA-CELL VA captures particulate in the size range of fine dust, soot, pollen, smoke, bacteria, and vapor making it ideal for most air conditioning filter applications.
- Since they are self-contained and sized for most standard requirements, each SERVA-CELL VA is maintenance free, and easy to replace (fits into most standard frames and housings).
- MERV 11, 13, 14, 16 and 95% DOP
- Available in three filter face sizes with a depth under 12": 12 x 24, 20 x 24, and 24 x 24.
- Available in 95% DOP efficiency.

Media and Support

- **Media:** Consists of microfiberglass paper coated with a water repellent binder. This binder promotes media resistance to intermittent moisture exposure which might otherwise affect media performance. The media composition causes no dust migration or shedding, thereby protecting the HVAC system equipment.
- **Pleat configuration:** The key to high performance for the SERVA-CELL VA is the consistency of pleat spacing provided by adhesive beads as a pleat separator.
- **Pleat support:** During assembly, beads of adhesive are applied on both the air-entering and air-exiting sides. The beads on neighboring sides bond together creating a formidable rigid media pak which will withstand turbulent air flow conditions.
- This method of pleat spacing construction greatly



improves overall filter performance by providing consistent pleat alignment which promotes maximum exposure to media area, and lowers initial resistances.

- Fiber density increases gradually from the air-entering to the air-exiting side of the microfiberglass, providing dual density filtration action.

Construction features

- **Frame:** plastic/galvaneal frame.
- To assure no dirty air bypass, the media pak is securely bonded to the periphery of the enclosure frame.
- Tested in accordance with U.L. Standard 900 and ASHRAE 52.2-2007.
- Maximum operating temperature: $\leq 180^{\circ}\text{F}$.

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Suggested product specifications

1. The filter shall be the SERVA-CELL VA as manufactured by Purolator Air Filtration.
2. Air filters shall be the SERVA-CELL VA air filter type engineered to provide medium and high efficiency filtration combined with a prolonged life cycle.
3. The filter media shall consist of a microfiberglass paper coated with a water repellent binder.
4. The frame construction shall be plastic/galvaneal.
5. During assembly, beads of adhesive shall be applied every 1/4" on both the air-entering and air-exiting sides. The beads on neighboring sides bond together creating a formidable rigid media pak which will withstand turbulent air flow conditions.
6. Performance data is in accordance with ASHRAE standard 52.2-2007. Data is based on a 24x24x12 filter tested at 492 FPM.
7. To assure no dirty air bypass, the media grid assembly shall be bonded to all interior surfaces of the enclosure frame.

Performance Data: SERVA-CELL VA 65/85/95

Series & MERV	SERVA-Cell VA Model Number*	Nominal Size W x H x D	Actual Size W x H x D	Initial Resistance Inches w.g.			Media area/ Sq.ft.
				Standard 500 fpm	High 625fpm	Maximum 750 fpm	
65 MERV 11	SLVA65	12 x 24 x 12	11 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	.24	.37	.52	97
	SLVA65	20 x 24 x 12	19 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	.24	.37	.52	162
	SLVA65	24 x 24 x 12	23 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	.24	.37	.52	194
85 MERV 13	SLVA85	12 x 24 x 12	11 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	.28	.44	.60	97
	SLVA85	20 x 24 x 12	19 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	.28	.44	.60	162
	SLVA85	24 x 24 x 12	23 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	.28	.44	.60	194
95 MERV 14	SLVA95	12 x 24 x 12	11 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	.36	.50	.64	97
	SLVA95	20 x 24 x 12	19 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	.36	.50	.64	162
	SLVA95	24 x 24 x 12	23 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	.36	.50	.64	194
98 MERV 16	SLVA98	12 x 24 x 12	11 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	.57	.77	N/A	97
	SLVA98	20 x 24 x 12	19 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	.57	.77	N/A	162
	SLVA98	24 x 24 x 12	23 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	.57	.77	N/A	194
95 DOP MERV 16	SLVAP95	12 x 24 x 12	11 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	.87	N/A	N/A	97
	SLVAP95	20 x 24 x 12	19 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	.87	N/A	N/A	162
	SLVAP95	24 x 24 x 12	23 ³ / ₈ x 23 ³ / ₈ x 11 ¹ / ₂	.87	N/A	N/A	194

P-SERVA-VA-1208



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