

SERVA-CELL® PV 65/85/95

V-Configuration Rigid Cell Filter

Introduction

- The Purolator SERVA-CELL PV offers the benefits of ASHRAE filtration performance, lightweight materials and industrial-strength construction able to withstand nominal air flow of 750 FPM.
- The new all plastic frame construction allows it to be user and environmentally friendly. The new frame is lighter and completely disposable through incineration.
- 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 PV 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 PV is maintenance free and easy to replace (fits into most standard frames and housings).
- Average efficiency range: 65-95%
Average arrestance: 97-99%
Recommended air flow rate: 500/625 FPM
- Available in three filter face sizes with a depth under 12": 12 x 24, 20 x 24 and 24 x 24.

Media and Support

- Media: Consists of 100% synthetic fiber. The synthetic media is resistant 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 PV 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.
- Fiber density increases gradually from the air-entering to the air-exiting side of the media, providing dual density filtration action.
- Burst strength rated to .22 W.G.



Construction Features

- Frame: All plastic.
- To assure no dirty air bypass, the media pack is securely bonded to the periphery of the enclosure frame.
- Tested in accordance with U.L. Standard 900, ASHRAE 52.1-1992, and ASHRAE 52.2.
- Recommended operating temperature: $\leq 180^{\circ}\text{F}$.

Purolator®
Air Filtration
a CLARCOR company

Suggested product specifications

1. The filter shall be the SERVA-CELL PV as manufactured by Purolator Air Filtration.
2. Air filters shall be the SERVA-CELL PV 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 100% synthetic media.
4. The frame construction shall be all plastic.
5. During assembly, beads of adhesive shall be applied every 1" 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. When tested in accordance with ASHRAE Test Std. 52.1 - 1992 and ASHRAE 52.2 the filter media shall have an average efficiency of _____ % and a MERV rating of _____ %
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 PV 65/85/95

Rated (1) Average Efficiency (52.1)	MERV (1) Rating (52.2)	Nominal (2) Size w x h x d	Actual (3) Size w x h x d	Serva-Cell PV Model Number	Rated Air Flow Capacity @ 500 FPM (CFM)	Rated Air Flow Capacity @ 625 FPM (CFM)	Rated (1) Initial Resistance @ 500 FPM (in W.G.)	Rated (1) Initial Resistance @ 625 FPM (in W.G.)	Recommended Final Resistance (in W.G.)
65 60-65%	11	12 x 24 x 12	11-3/8 x 23-3/8 x 11-1/2	SLPV65-2412	1000	1250	.28"	.40"	1.5"
	11	20 x 24 x 12	19-3/8 x 23-3/8 x 11-1/2	SLPV65-0412	1650	1800	.28"	.40"	1.5"
	11	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	SLPV65-4412	2000	2500	.28"	.40"	1.5"
85 80-85%	13	12 x 24 x 12	11-3/8 x 23-3/8 x 11-1/2	SLPV85-2412	1000	1250	.32"	.48"	1.5"
	13	20 x 24 x 12	19-3/8 x 23-3/8 x 11-1/2	SLPV85-0412	1650	1800	.32"	.48"	1.5"
	13	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	SLPV85-4412	2000	2500	.32"	.48"	1.5"
95 90-95%	15	12 x 24 x 12	11-3/8 x 23-3/8 x 11-1/2	SLPV95-2412	1000	1250	.39"	.58"	1.5"
	15	20 x 24 x 12	19-3/8 x 23-3/8 x 11-1/2	SLPV95-0412	1650	1800	.39"	.58"	1.5"
	15	24 x 24 x 12	23-3/8 x 23-3/8 x 11-1/2	SLPV95-4412	2000	2500	.39"	.58"	1.5"

(1) All performance data is based on ASHRAE 52.1 and 52.2 test methods. Performance tolerances conform to Section 7.4 of ARI Standard 850-93.

(2) Width and height dimensions are interchangeable. SERVA-cell PV filters can be installed with the pleats either vertical or horizontal.

(3) Serva-cell PV filters can be operated up to 150% of rated filter face velocity.

Underwriters Laboratories, Inc. Classification - SERVA-cell PV filters are classified U.L. Class 2 per U.L. Standard 900.

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