



SERVA-PAK™ S

Synthetic Bag Filters



Unique Sonic Weld Configuration For Superior Air Flow And Uniform Media Separation:

- High Density Synthetic Microfibers
- MERV 10 to MERV 14 Performance
- Corrosion-Resistant Galvanized Header
- Rigid Internal Support

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In an effort to respond to the increasing synthetic media requirements in the air filtration industry, Purolator offers the SERVA-PAK S extended surface bag-type filter. Highlighted below are design and function characteristics which make the SERVA-PAK S stand out from its competitors.

Applications

Purolator's SERVA-PAK S synthetic bag air filter provides medium to high efficiency air filtration capability for a number of distinct applications. It is specifically designed for situations requiring strict adherence to filter media specifications, such as pharmaceutical, food processing, health care, and paint spray booth applications.

The SERVA-PAK S filter can also be incorporated into industrial applications where high static pressure conditions exist. Its durable design and construction features allow the SERVA-PAK S to perform at elevated air flow rates and endure turbulent conditions.

Filter Construction

Each SERVA-PAK S filter provides extended surface filtration efficiency through media formed into individual dust-holding pockets. These pockets are created by a multi-row sonic weld fabric ribbon separators which promotes uniform spacing between each pocket, ensuring optimum dirty-air-to-media contact.

Fabric ribbon separators for superior air flow and uniform media separation

Sonic weld construction

Pack secured by means of internal mechanical fasteners

Continuous media-to-metal bonded construction

High-density synthetic microfibers in Class 2 configuration

Individual galvanized J-channel support frame

Purolator

Frame Features

- Corrosion-resistant, galvanized header
- Rigid internal support
- Interlocking mitered corners

In addition, each pocket is bonded and sealed to its own J-channel support frame, which is fastened mechanically to a heavy duty, corrosion resistant, 28-gauge galvanized enclosure frame.

Dual Stage Media

Purolator uses a dual stage media in each SERVA-PAK S filter. The first stage media is a prefilter consisting of coarse polyester fibers designed to arrest larger particulate in the airstream and enhance dirt loading capacity. The second stage media is a layer of microfine polypropylene fibers, spun-bonded and fastened to a polypropylene backing which captures the remaining smaller particles. This dual stage media configuration increases the overall efficiency and dust-holding capacity of the SERVA-PAK S filter.

For industrial/commercial applications where upgrading from a microfiberglass product is recommended, the SERVA-PAK S will provide the following advantages:

- Increased initial efficiency
- Decreased initial resistance

It is also important to note that synthetic fibers are inherently stronger than microfiberglass fibers, decreasing the chance of media damage from handling or moisture. Also, the synthetic fibers are more resistant to the shearing stresses encountered at high air flow rates.

The continuous filament associated with the spun-bonded process further insures the integrity of the filter mat and eliminates fiber shedding.

Underwriters Laboratory Approved

The Purolator SERVA-PAK S filter is listed by Underwriters Laboratories, Inc. Testing is performed in accordance with UL Standard 900.

Suggested Product Specifications

Air filters shall be replaceable, factory assembled filters consisting of multiple dust holding pockets assembled in a corrosion-resistant galvanized steel frame.

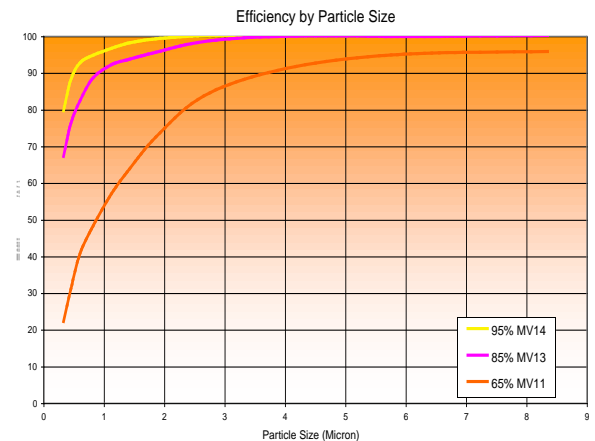
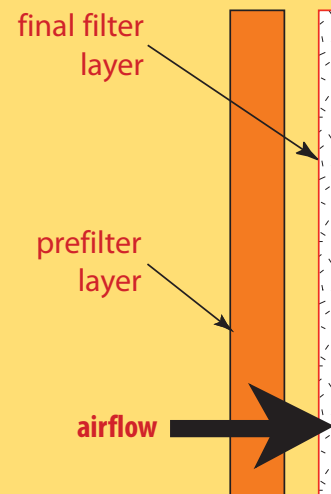
Filter media shall be of dual-stage, 100% synthetic fibers formed into a filter blanket and reinforced by an integral polypropylene backing. The filter shall have a minimum MERV performance of ____ when tested in accordance with ASHRAE 52.2.

A multi-row sonic weld process shall produce individual dust holding pockets to achieve uniform media spacing thereby extending filter life and optimizing performance. Dust holding pockets shall be bonded to their own metal support frame and assembled into a heavy gauge galvanized steel enclosure frame. Side-by-side pockets shall be mechanically fastened to the adjacent frames using a non-piercing clinch. The open area of the filter shall be greater than 85% of the total face area.

The filter shall be classified per U.L. Standard 900 for flammability only. Each filter shall have a rating of ____ CFM at an initial resistance not to exceed ____ inches w.g. Each filter shall have no less than ____ sq. ft. of media area.

The SERVA-PAK S Advantage: Dual Stage Media for Twice the Filtration

The media consists of two layers of high loft meltblown polypropylene fiber media with a spunbound synthetic scrim backing.



Media Efficiency

SERVA-PAK S Series	Efficiency Rating	Media Color	Average Arrestance	MERV
SP50S	50%	White	95%	10
SP65S	65%	Orange	97%	11
SP85S	85%	Pink	98%	13
SP95S	95%	Yellow	99%	14

Standard Models

(24x24 Sizes - Number of Pockets)

Header Size	Sizes (W x H)	Number of Pockets (3-12)
A	24x24	5-12
B	12x24	3-5
C	24x20	5-12
D	20x24	5-9
E	24x20	5-12
F	20x20	4-9
G	16x20	3-7
H	20x16	4-9
J	16x25	4-7
K	25x16	5-12
L	20x25	5-9
M	25x20	5-12

Min Depth: 10"

Max Depth: 36"

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Performance Data: SERVA-PAK S

Nominal Size (In.) W x H x D	Number of Pockets	Media Area (Sq. Ft.)	Air Flow Capacity (CFM)			Initial Resistance (In. W.G.)			
			375 FPM	500 FPM	625 FPM	95 MV14	85 MV13	65 MV11	50 MV10
						@500 FPM			
24 x 24 x 36	9	113	1500	2000	2500	0.33	0.25	0.18	-
24 x 24 x 36	8	100	1500	2000	2500	0.35	0.26	0.20	-
24 x 24 x 36	7	91	1500	2000	2500	0.35	0.27	0.22	-
24 x 24 x 36	6	78	1500	2000	2500	0.40	0.30	0.23	-
12 x 24 x 36	3	39	750	1000	1250	0.40	0.30	0.23	-
24 x 12 x 36	6	41	750	1000	1250	0.40	0.30	0.23	-
24 x 24 x 30	10	101	1500	2000	2500	0.39	0.30	0.23	0.23
24 x 24 x 30	8	81	1500	2000	2500	0.37	0.28	0.22	0.22
24 x 24 x 30	6	63	1500	2000	2500	0.40	0.30	0.24	0.24
12 x 24 x 30	4	41	750	1000	1250	0.37	0.28	0.22	0.22
12 x 24 x 30	3	32	750	1000	1250	0.40	0.30	0.24	0.24
24 x 12 x 30	6	33	750	1000	1250	0.40	0.30	0.24	0.24
24 x 24 x 26	10	92	1500	2000	2500	0.41	0.33	0.22	0.22
24 x 24 x 26	8	75	1500	2000	2500	0.39	0.31	0.24	0.24
24 x 24 x 26	6	59	1500	2000	2500	0.45	0.37	0.30	0.30
24 x 24 x 22	10	77	1500	2000	2500	0.44	0.35	0.23	0.23
24 x 24 x 22	8	62	1500	2000	2500	0.42	0.33	0.25	0.25
24 x 24 x 22	5	39	750	1000	1250	0.44	0.35	0.23	0.23
24 x 24 x 22	4	31	750	1000	1250	0.42	0.33	0.25	0.25
@ 375 FPM									
24 x 24 x 22	6	47	1500	2000	N/R	0.38	0.28	0.18	0.18
12 x 24 x 22	3	24	750	1000	N/R	0.38	0.28	0.18	0.18
24 x 12 x 22	6	26	750	1000	N/R	0.38	0.28	0.18	0.18
24 x 24 x 19	6	40	1500	2000	N/R	0.41	0.31	0.21	0.21
12 x 24 x 19	3	20	750	1000	N/R	0.41	0.31	0.21	0.21
24 x 24 x 15	10	53	1500	2000	N/R	0.38	0.28	0.18	0.18
12 x 24 x 15	5	27	750	1000	N/R	0.38	0.28	0.18	0.18
24 x 24 x 12	6	27	1500	2000	N/R	0.44	0.34	0.24	0.24
12 x 24 x 12	3	14	750	1000	N/R	0.44	0.34	0.24	0.24

NOTES:

N/R - Not Recommended

1. Model number format: SP<Efficiency Code>S<# of Pockets> <Nominal Size>
Example: SP95S08 24x24x30 - MERV 14, 8 Pockets, 24x24x30,
2. Actual face dimensions are 5/8" less than nominal size.
3. Standard header thickness is 13/16", 1" and 1-1/8" headers are available as options.
4. Depth measures from the front of the header to the end of the pocket. Tolerance +/- 1".
5. Performance data per ASHRAE Standard 52.2-2007, tested at 492 FPM on 24x24x30, 8 pocket.
6. Recommended final resistance = 1.5" W.G.
7. Classified per U.L. Standard 900 for flammability only.

P-SPAKS-0612

Purolator

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