Purolator®

SERVA-PAK™ S

Synthetic Bag Filters

Unique Stitch Configuration For Superior Air Flow And Uniform Media Separation:

- **High Density Synthetic Microfibers In Class 2 Configuration**
- **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 stitching process which promotes uniform spacing between each pocket, ensuring optimum dirty-air-to-media contact.

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

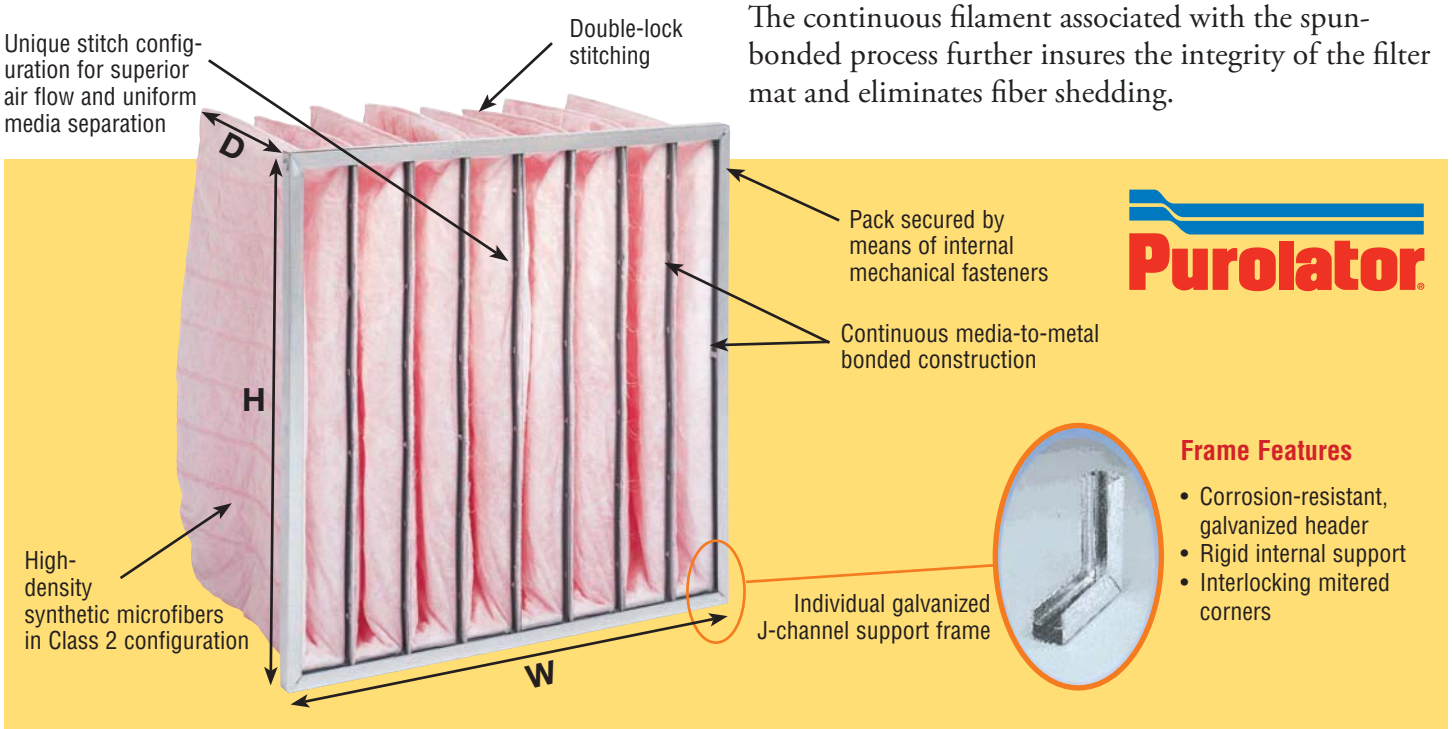
Purolator uses a dual stage media in each SERVA-PAK S filter. The first stage media is a prefilter consisting of coarse polyester fibers designed to arrest larger particulate in the airstream and enhance dirt loading capacity. The second stage media is a layer of microfine polypropylene fibers, spun-bonded 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 UL Class II 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.

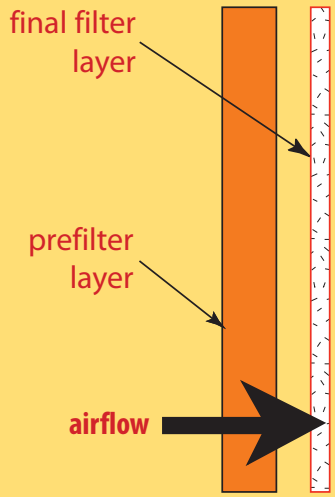
A multi-row stitching process shall produce individual self-supporting dust holding pockets to achieve uniform media spacing thereby extending filter life and optimizing performance. The multiple rows of stitching shall be sealed with a hot-melt adhesive. Dust holding pockets shall be bonded to their 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.

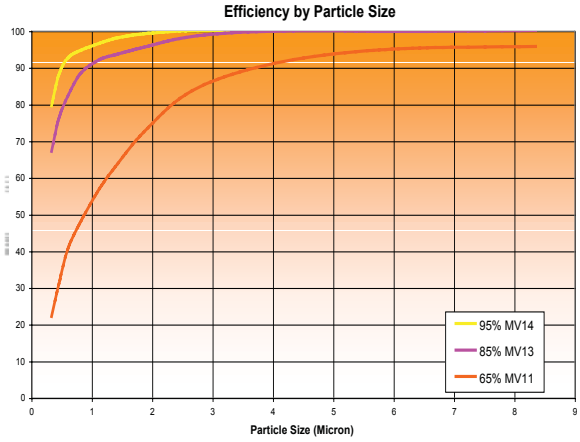
The filter shall be rated Class 2 by Underwriters Laboratories, Inc. Each filter shall have a rating of _____ CFM at an initial resistance not to exceed _____ inches w.g. Each filter shall have no less than _____ sq. ft. of media area.

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 Efficiency	Average Arrestance	MERV
SP50S	50%	White	50-55%	95%	10
SP65S	65%	Orange	60-65%	97%	11
SP85S	85%	Pink	80-85%	98%	13
SP95S	95%	Yellow	90-95%	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 50-S

Series Type 50S: 50-55% ASHRAE efficient

Nominal size WxHxD	Actual size WxHxD	# of pockets	Media area sq. ft.	model no.	CFM capacity low	CFM capacity med	CFM capacity high	Resist. in. W.G. low	Resist. in. W.G. med	Resist. in. W.G. high
24x24x11	23-3/8x23-3/8x11	6	24	SP50S06	1200	1500	2000	.10	.14	.21
20x24x11	19-3/8x23-3/8x11	5	20	SP50S05	1250	1600	2000	.14	.21	.29
20x20x11	19-3/8x19-3/8x11	5	17	SP50S05	1150	1500	1750	.17	.25	.32
12x24x11	11-3/8x23-3/8x11	3	12	SP50S03	1750	1000	1200	.13	.20	.29
24x24x19	23-3/8x23-3/8x19	6	42	SP50S06	1200	1500	2000	.08	.10	.14
20x24x19	19-3/8x23-3/8x19	5	35	SP50S05	1600	2000	2500	.13	.20	.30
20x20x19	19-3/8x19-3/8x19	5	30	SP50S05	1500	1750	2000	.18	.23	.30
12x24x19	11-3/8x23-3/8x19	3	21	SP50S03	1000	1200	1500	.16	.23	.33

Performance Data: SERVA-PAK 65S/85S/95S

Nominal size WxHxD	# of pockets	Media area sq. ft.	CFM capacity low	CFM capacity med	CFM capacity high	65S model no.	65S Resist. in. W.G. low	65S Resist. in. W.G. med	65S Resist. in. W.G. high	85S model no.	85S Resist. in. W.G. low	85S Resist. in. W.G. med	85S Resist. in. W.G. high	95S model no.	95S Resist. in. W.G. low	95S Resist. in. W.G. med	95S Resist. in. W.G. high
24x24x22	8	62	1000	1500	2000	SP65S08	.09	.25	.21	SP85S08	.12	.20	.30	SP95S08	.16	.26	.38
24x24x22	6	48	800	1250	1500	SP65S06	.07	.13	.16	SP85S06	.12	.20	.24	SP95S06	.15	.26	.34
20x24x22	5	40	750	1000	1250	SP65S05	.09	.15	.21	SP85S05	.12	.20	.30	SP95S05	.16	.26	.38
20x20x22	5	33	--	750	1000	SP65S05	.09	.15	.21	SP85S05	.12	.20	.30	SP95S05	.16	.26	.38
12x24x22	4	31	500	750	1000	SP65S04	.09	.15	.21	SP85S04	.12	.20	.30	SP95S04	.16	.26	.38
12x24x22	3	24	500	625	750	SP65S03	.07	.13	.16	SP85S03	.12	.20	.24	SP95S03	.15	.26	.34
24x24x26	8	73	1000	1500	2000	SP65S08	.08	.14	.23	SP85S08	.14	.23	.34	SP95S08	.16	.27	.39
24x24x26	6	56	1000	1500	2000	SP65S06	.06	.12	.20	SP85S06	.18	.26	.39	SP95S06	.16	.26	.38
20x24x26	5	47	800	1200	1600	SP65S05	.08	.14	.23	SP85S05	.14	.23	.34	SP95S05	.16	.27	.39
20x20x26	5	39	800	1200	1600	SP65S05	.08	.14	.23	SP85S05	.14	.23	.34	SP95S05	.16	.27	.39
12x24x26	4	33	750	1000	1250	SP65S04	.08	.14	.23	SP85S04	.14	.23	.34	SP95S04	.16	.27	.39
12x24x26	3	28	--	750	1000	SP65S03	.06	.12	.20	SP85S03	.18	.26	.39	SP95S03	.16	.26	.38
24x24x30	10	107	1500	2000	2500	SP65S10	.15	.28	.38	SP85S10	.24	.38	.50	SP95S10	.28	.40	.52
24x24x30	8	84	1500	2000	2500	SP65S08	.09	.15	.24	SP85S08	.18	.32	.43	SP95S08	.20	.31	.45
24x24x30	6	65	--	1500	2000	SP65S06	.10	.18	.28	SP85S06	.15	.25	.38	SP95S06	.17	.26	.39
20x24x30	5	54	--	1200	1600	SP65S05	.09	.15	.24	SP85S05	.18	.32	.43	SP95S05	.20	.31	.45
20x20x30	5	45	--	1200	1600	SP65S05	.09	.15	.24	SP85S05	.18	.32	.43	SP95S05	.20	.31	.45
12x24x30	4	42	750	1000	1200	SP65S04	.09	.15	.24	SP85S04	.18	.32	.43	SP95S04	.20	.31	.45
12x24x30	3	33	--	750	1000	SP65S03	.10	.18	.28	SP85S03	.15	.25	.38	SP95S03	.17	.26	.39
24x24x36	8	106	1500	2000	2500	SP65S08	.09	.25	.34	SP85S08	.18	.32	.43	SP95S08	.20	.34	.45

Nominal Size W x H	Actual Size W x H
24" x 24"	23-3/8" x 23-3/8"
20" x 24"	19-3/8" x 23 3/8"
20" x 20"	19-3/8" x 19-3/8"
12" x 24"	11-3/8" x 23-3/8"

Full product description is:

Model Number followed by the Size

Example: SP9508 24x24x30

To calculate Gross media required use the following formula:

Gross media area (sq. foot.) = {2 x [(# of pockets) x (pocket width*) x (pocket depth)]} ÷ 144

Example: SP95S084422 = {2 x [(8 x 25 x 22)]}÷144 = 61.1 Square feet

**Pocket widths: 6- or 7-pocket = 26"; 8- or 9-pocket = 25"; 10-pocket=24.75"; 12-pocket=24"*

Nominal and Actual Depths are 11", 19", 22", 26", and 30"

P-SPAKS-709

Purolator®

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