



## Extended Surface Bag Filter - Synthetic Fiber

Testing Method	Dot Spot Efficiency (in NBS Testing Method)	Arrestance (in AFI Testing Method)	MERV
	90~95%	> 99%	14
	80~85%	> 98%	13
	60~65%	> 97%	11
	45~50%	> 96%	9
By ASHRAE Standard 52.1-1992 (Equal to EN 779)		By ASHRAE 52.2-1999 Standard	

### Features:

S-Series Bag Filter is designed to a V-Shape pocket. The microprocessor control automatic sewing machines can actually control the stitch loosening and continuously to adjust the pockets from 60mm to 20mm. V-Shape pocket design allows every pocket to fully inflate and maintain a proper spacing with adjacent pockets. Clean air can freely exit from front to back.

### Efficiency:

Per ASHRAE 52.1-1982 standard, the filters have an average atmospheric dust spot efficiency range 45-50%, 60-65%, 80-85% and 90-95% (in NBS Test Method); per ASHRAE 52.2, the efficiency is MERV9, MERV11, MERV12 & MERV14. Operating face velocities up to 750FPM are available for certain models.

### Media:

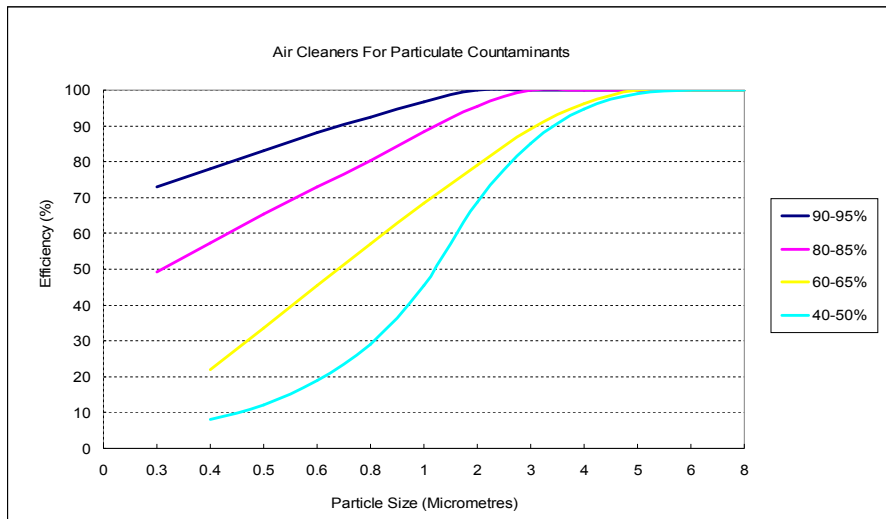
S-Series bag filters are manufactured of Multiple Layers Synthetic Microfiber. The Synthetic Microfiber builds up in non-woven layers to ensure Multi-layers buildup and eliminate fiber shedding. The media is extremely durable and non-shedding. Using a variety of materials, the range of filtration efficiencies can be spanned from 45-50% to 90-95% and > 95%.

## Sealant

Each stitch of pocket is sealed with a special adhesive to prevent the possibility of contaminant leakage or media break-off.

## Frame:

S-Series Bag Filter consists of a series of individual pockets, which are bonded to a corrosion-resistant header frame. Media and metal frame are glued to ensure product integrity during operation.



## Material and Service Conditions

Type		Description
Construction	Media	Synthetic Fiber
	Frame Material	Metal Frame
Service Conditions	The maximum continuous use temperature	60 °C
	Instant Highest Humidity	100 (% RH) (No condensation state)

## Performance Data – S Series Extended Surface Bag Filter ( Synthetic Fiber )

Efficiency %		Nominal Size (W*H*D) ( inch )	Actual Size (W*H*D) ( mm )	Pockets P	Rated Capacity CMH	Pressure Drop Pa	
Dot Spot Efficiency (in NBS)	Arrestance (in AFI)					Initial Resistance	Final Resistance
90~95	> 99	12*24*15	289*595*381	3	1070	179	250
				6	1700	159	
		12*24*21	289*595*533	3	1700	147	
				6	2130	134	
		12*24*30	289*595*762	3	2130	169	
				6	2130	92	
		12*24*36	289*595*914	3	2130	149	
				6	2550	95	
		24*24*15	595*595*381	6	2130	179	
				12	3400	159	
		24*24*21	595*595*533	6	3400	147	
				12	4250	134	
		24*24*30	595*595*762	6	4250	169	
				12	4250	92	
		24*24*36	595*595*914	6	4250	149	
				12	5100	95	

\* Special Sizes are available upon request.

Efficiency		Nominal Size	Actual Size	Pockets	Rated Capacity	Pressure Drop	
%		(W*H*D)	(W*H*D)	P	CMH	Pa	
Dot Spot Efficiency (in NBS)	Arrestance (in AFI)	(inch)	(mm)			Initial Resistance	Final Resistance
80~85	> 98	12*24*15	289*595*381	3	1275	174	250
				6	1700	134	
		12*24*21	289*595*533	3	1700	169	
				6	2130	117	
		12*24*30	289*595*762	3	2130	144	
				6	2130	82	
		12*24*36	289*595*914	3	2550	149	
				6	2550	87	
		24*24*15	595*595*381	6	2550	174	
				12	3400	134	
		24*24*21	595*595*533	6	3400	169	
				12	4250	117	
		24*24*30	595*595*762	6	4250	144	
				12	4250	82	
24*24*36	595*595*914	6	5100	149			
		12	5100	87			

Efficiency		Nominal Size (W*H*D) (inch)	Actual Size (W*H*D) (mm)	Pockets P	Rated Capacity CMH	Pressure Drop	
%						Initial Resistance	Final Resistance
Dot Spot Efficiency (in NBS)	Arrestance (in AFI)						
60~65	> 97	12*24*15	289*595*381	3	1700	154	250
				6	2130	112	
		12*24*21	289*595*533	3	2130	137	
				6	2130	75	
		12*24*30	289*595*762	3	2250	115	
				6	2250	67	
		12*24*36	289*595*914	3	2250	105	
				6	2250	57	
		24*24*15	595*595*381	6	3400	154	
				12	4250	112	
		24*24*21	595*595*533	6	4250	137	
				12	4250	75	
		24*24*30	595*595*762	6	5100	115	
				12	5100	67	
		24*24*36	595*595*914	6	5100	105	
				12	5100	57	
45~50	> 96	12*24*15	289*595*381	3	1700	82	250
		12*24*21	289*595*533	3	2250	95	
		24*24*15	595*595*381	6	3400	82	
		24*24*21	595*595*533	6	5100	95	



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