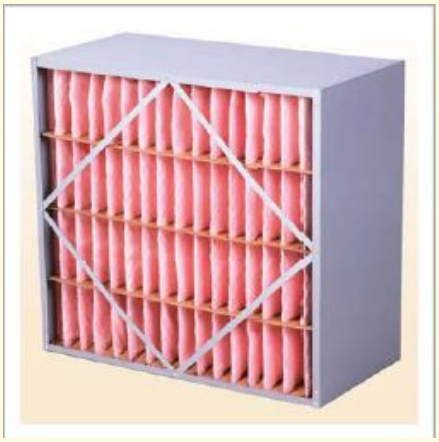
ASHRAE Grade S Series W-PAK

Extended Surface Air Filter- Synthetic Fiber



W-PAK S Series Filter has wide range of efficiencies and rigid compact designs make this an excellent product for upgrading current system and for new installation. The filters are used in a wide variety of applications. They are ideally suited for Hospital, Automotive painting System pr in any critical application while high efficiency is essential, and fiber shedding can not be tolerated. The medial is extremely durable and non-shedding.

	Dot Spot Efficiency (in NBS Testing Method)	Arrestance (in AFI Testing Method)	MERV
Testing Method	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:

W-PAK S Series filter contains moisture-resistant pleat stabilizers on both sides of the media pack. This ensures that the tapered pleat configuration will not be deformed throughout the service life of the filter. The design of the pleat stabilizer offers maximum media filtration area and dust holding capacity, furthermore extending filter life span.

Efficiency:

Per ASHRAE 52.1-1982 standard (equal to EN779), 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.

Media:

W-PAK S-Series filters are manufactured of Multiple Layers Synthetic Microfiber formed into a pleated configuration. The Synthetic Microfiber builds up in non-woven layers to strengthen Multi-layers and eliminate fiber shedding.

It contains non-glass fiber (to be thought a healthy hazard). W-PAK S-Series filters are not affected by extreme moisture and humidity conditions, unlike wet glass fibers that will be lost up to 20% efficiency. The media is color coded by efficiency.

Media Color	Average Efficiency (NBS)	Average Arrestance (AFI)
Tan	45~50%	90%
Orange	60~65%	97%
Pink	80~85%	98%
Yellow	90~95%	99%

Backings:

Class 1 – Woven Glass Scrim

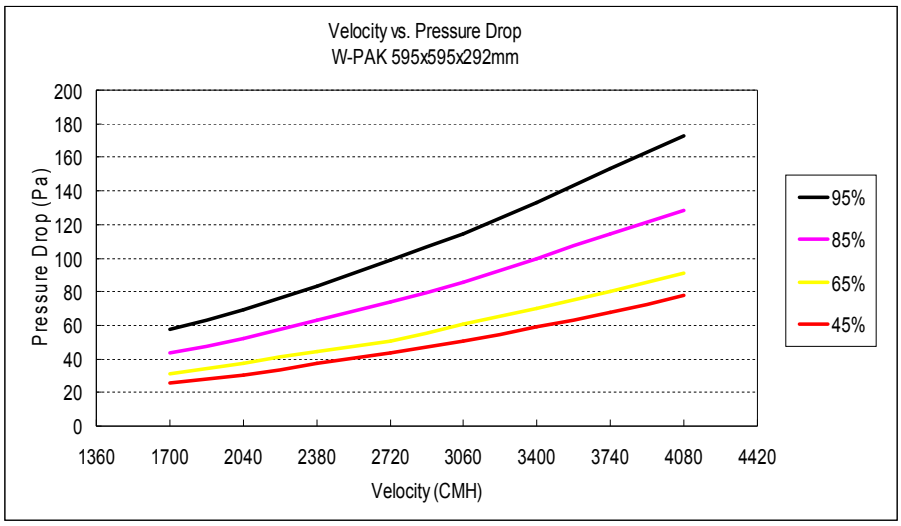
Class 2 – Non-Woven Polyester or Nylon

Media Support Grid:

A corrosion-resistant metal support grid is bonded to the media to strengthen pleat construction and stability.

Frame:

The enclosing frame is a galvanized steel construction. Diagonal supports on both upstream and downstream sides enhance the construction of the filter. This construction provides W-PAK filter with exceptional strength and durability for a longer life span. It is available in header or non-header type.



Performance Data – ASHRAE Grade S Series Extended

Surface Air Filter（Synthetic Fiber）

Efficiency %		Nominal Size (W*H*D) （inch）	Actual Size (W*H*D) （mm）	Rated Capacity CMH	Pressure Drop Pa	
Dot Spot Efficiency (in NBS)	Arrestance (in AFI)				Initial Resistance	Final Resistance
90~95	＞ 99	12*24*4	289*595*95	850	134	250
		24*24*4	595*595*95	1700		
		12*24*6	289*595*150	1020	169	324
		24*24*6	595*595*150	2040		
		12*24*12	289*595*292	1700	129	
		24*24*12	595*595*292	3400		
80~85	＞ 98	12*24*4	289*595*95	850	90	250
		24*24*4	595*595*95	1700		
		12*24*6	289*595*150	1020	116	324
		24*24*6	595*595*150	2040		
		12*24*12	289*595*292	1700	88	
		24*24*12	595*595*292	3400		
60~65	＞ 97	12*24*4	289*595*95	850	46	250
		24*24*4	595*595*95	1700		
		12*24*6	289*595*150	1020	90	324
		24*24*6	595*595*150	2040		
		12*24*12	289*595*292	1700	67	
		24*24*12	595*595*292	3400		
45~50	＞ 96	12*24*4	289*595*95	850	42	250
		24*24*4	595*595*95	1700		
		12*24*6	289*595*150	1020	70	324
		24*24*6	595*595*150	2040		
		12*24*12	289*595*292	1700	44	
		24*24*12	595*595*292	3400		

1. Recommended Final Resistance on all S Series Filters is 1.5” w.g.

2. Special Sizes are available upon request.

Material and Service Conditions

Type			Description	
Construction	Media		Synthetic Fiber	
	Frame Material		Card Board	Metal Frame
	Frame Type		Box Type	Single Header
	Support Grid		Anticorrosion Metal Support Grid w/Radial Wedge Pleats	
Service Conditions	The maximum continuous use temperature	℃	60	
	Instant Highest Humidity	% RH	98（No condensation state）	

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