



W-Pre Disposable Pleated Air Filter

Testing Method	Dot Spot Efficiency (in NBS Testing Method)	Arrestance (in AFI Testing Method)
	30~35%	90~94%
	By ASHRAE Standard 52.1-1992 (Equal to EN 779)	

Features:

W-PRE radial wedge pleat is with the greatest media area exposed to the air flow which can contribute filter's dust collection capacity.

They are available in 1", 2" and 4" nominal thicknesses. W-Pre Disposable Pleated Air Filters are available in a wide range of sizes; and with slight or without any system modification, is able to fit most commercial and industrial installations.

Only need to use gaskets and fasteners to adapt W-PRE filter to existing filter bands.

These filters are also suitable for variable air volume system. Operating face velocity range is from 0 to 500 FPM for 1" and 2" thickness filters, and 0 to 625 FPM for 4" thickness filters.

Efficiency:

Per ASHRAE 52.1-1982 standard, the filters have an average atmospheric dust spot efficiency range 30-35% (in NBS Test Method; per ASHRAE 52.2, the efficiency is MERV8) and an average arrestance of 90-94% (in AFI test method).

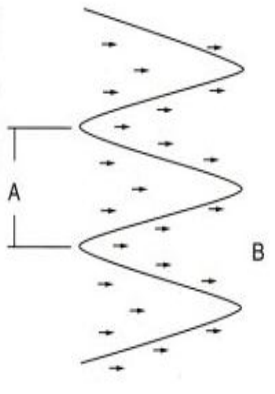
Media:

W-PRE filter media is a special blend of nonwoven cotton and synthetic fibers offering high dust-holding capacity and high efficiency.

Media Support Grid:

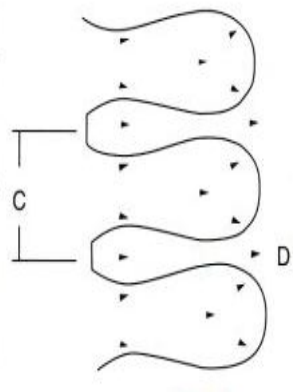
Expanded painted metal provides a flat, stable surface that allows 100% media to metal adhesion. This eliminates media damage caused by overlapping wire grids that cannot be 100% attached. Expanded painted metals give a better corrosion resistance than others.

The radial wedge pleats create an air exit area (B) equals to the air entering area (A), which minimizes end losses and reduces pressure drop.



楔形狀褶疊使進氣面積 (A) 等於出氣面積 (B)，這將使末端損失減至最低達到降低壓損效果。

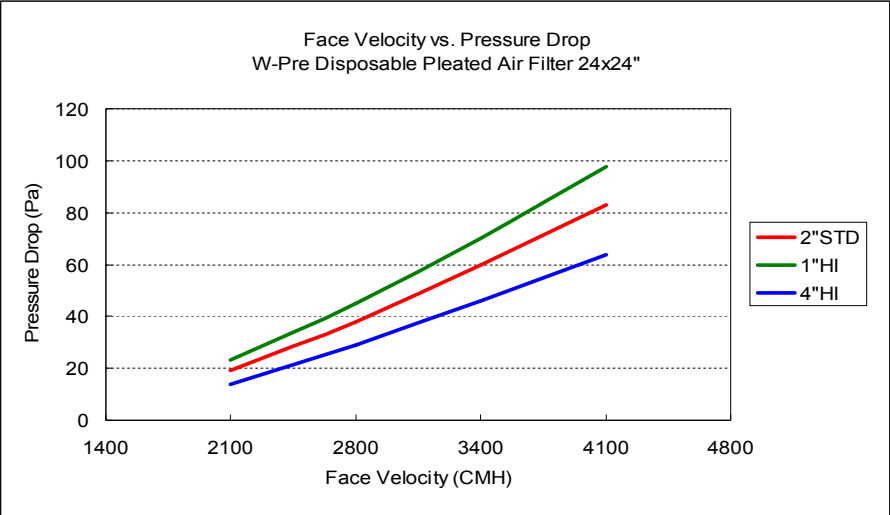
Non-radial wedge pleats have unequal air exit (D) and air entering (C) areas, which cause higher resistance and uneven usage of media.



非楔形狀褶疊進氣面積 (C) 不等於出氣面積 (D)，導致高壓損及濾材使用不均勻。

Outer Frame:

Outer frame can be also a wide range of metal selection which is including of Paper, Galvanized Steel, Aluminum and Stainless Steel. The paper frame is constructed of high wet strength, moisture-resistant beverage board. Two mating die-cut boxes are bonded together, forming a double wall around the entire filter. Diagonal supports are designed for maximum open area while providing excellent structural stability in heavy dirt loading.



Performance Data - W-Pre Disposable Pleated Air Filter

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
30~35	90~94	12*24*1	289*595*22	1700	87	130
		16*25*1	390*619*22	2380		
		20*20*1	492*492*22	2380		
		20*24*1	492*595*22	2800		
		24*24*1	595*595*22	3400		
		12*24*2	289*595*45	1700	65	130
		20*20*2	492*492*45	2380		
		20*24*2	492*595*45	2800		
		24*24*2	595*595*45	3400		
		12*24*4	289*595*95	1700	50	130
24*24*4	595*595*95	3400				

* Special Sizes are available upon request.

Material and Service Conditions

Type		Description
Construction	Media	Special Blended of Nonwoven Cotton and Synthetic Fibers
	Frame Material	Card Board Metal Frame
	Support Grid	Anticorrosion Metal Support Grid w/Radial Wedge Pleats
Service Conditions	The maximum continuous use temperature	°C 40
	Instant Highest Humidity	% RH 98 (No condensation state)



晟鼎科技股份有限公司

AIRREA CO., LTD.

2F., No. 5, Baoqing St., Xindian City, Taipei County 231, Taiwan

TEL: +886-2-29182914 FAX: +886-2-29109995

<http://www.air-rex.com.tw>

台北縣新店市寶慶街5號2樓