



P-Cell Air Filter is the most saving space air filter (only 4" thickness). It is thinner & lighter, but with high performance of air filtration. P-Cell is the best choice for HVAC system. It is ideal for new installations, as it is smaller to be able to save air handling unit's space & cost.

ASHRAE Grade P- CELL Extended Surface Air Filter

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:

P-Cell Air Filter is made by mini-pleats to enlarge the media filtration area. Although the thickness is only 4", it can make air flow rate 2000 CFM by size 24"x24". Compare with other medium efficiency air filters, P-Cell air filter has better performance in pressure drop.

Efficiency:

Per ASHRAE 52.1-1982 standard, the filters have an average atmospheric dust spot efficiency range 60-65%, 80-85% and 90-95% (in NBS Test Method); per ASHRAE 52.2, the efficiency is MERV11, MERV12 & MERV14.

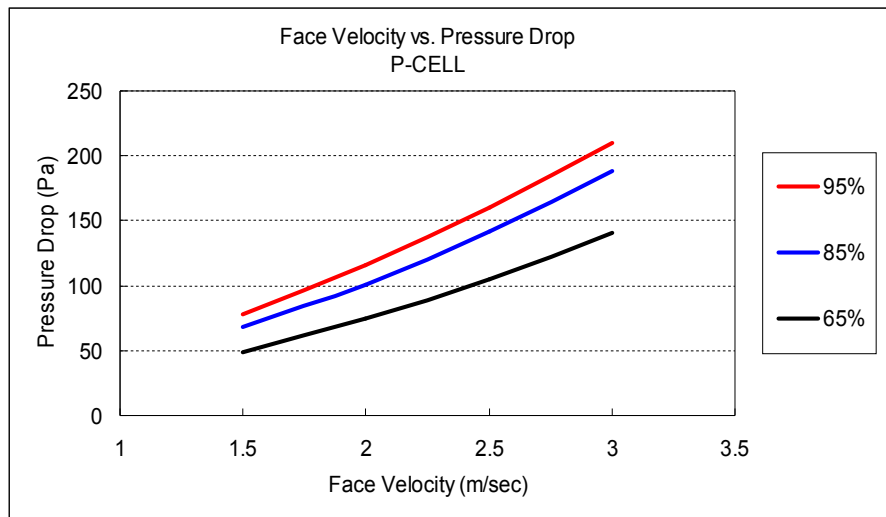
Media:

P-Cell media is manufactured from Water-Resistant Glass Microfiber and Synthetic Fiber. The glass microfiber paper is formed with a dual density construction, coarser fiber is formed on the upstream and finer fiber is formed on the downstream. This structure can increase media's dust collection capacity. The Synthetic Fiber is made of meltblown microfiber offering maximum dust collection capacity.

P-Cell media is pleated form the filter pack and use hot melting glue to replace the traditional aluminum separators. It is without the aluminum separators or expanded metal to support the media, but ensure the maximum air flow and minimum resistance to enhance the dust collection capacity.

Outer Frame:

The frame is available for Paper and Metal Frame (Galvanized Steel, Aluminum and Stainless Steel). Paper frame consists of two-pieces of moisture-resistant press paper. Two press papers are bonded together to comprise a double wall frame, and the media pack is just stick closely with this double wall frame.



Performance Data – ASHRAE Grade P-Cell Extended Surface Air Filter

Efficiency (%)		Nominal Size (W*H*D)	Actual Size (W*H*D)	Rated Capacity (CMH)	Pressure Drop (Pa)	
Dot Spot Efficiency (in NBS)	Arrestance (in AFI)	(inch)	(mm)		Initial Resistance	Final Resistance
90~95	> 99	12*24*4	289*595*95	1700	169	324
		24*24*4	595*595*95	3400		
80~85	> 98	12*24*4	289*595*95	1700	147	324
		24*24*4	595*595*95	3400		
60~65	> 97	12*24*4	289*595*95	1700	100	324
		24*24*4	595*595*95	3400		

*Special Sizes are available upon request.

Material and Service Conditions

Type		Description
Construction	Media	Ultra-Fine Glass Fiber
	Support Grid	Hot Melt Adhesive
	Frame Material	Paper Frame Metal Frame
	Frame Type	Box Type Single Header
Service Conditions	The maximum use temperature	°C 60
	The maximum continuous use temperature	°C 40
	Instant Highest Humidity	% RH 98 (No condensation state))



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