



AIRREX ASHRAE Grade W-Cell Extended Surface Air Filter is a Separator-type air filter which is designed for any commercial or industrial HVAC systems use, required medium to high efficiency.

Per ASHRAE 52.1-1982 standard, W-Cell 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.

Operating face velocity ranges are from 0-375FPM (0-1.9m/sec) for 6 inch (150mm) deep filters, and from 0-625FPM (0-3.175m/sec) for 12inch (295mm) deep units.

Air filtration system which was originally supplied by other equipment manufacturers can be replaced by W-Cell to improve air cleaning performance and enhance reliability.

## ASHRAE Grade W-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
By ASHRAE Standard 52.1-1992 (Equal to EN 779)		By ASHRAE 52.2-1999 Standard	
*High temperature resistance filter is available for special use.			

#### Features:

Both edges of aluminum separators are rolled to prevent media tearing and provide maximum integrity. Rolled edges can also reduce the injury of cutting worker's hands during installation.

For special use, high temperature resistance filter is available for 750 FPM use.

#### Ultra-Fine Glass Fiber Media:

W-Cell Media is manufacture from glass microfiber. The media is water-resistant and can withstand temperature up to 350°C .

#### Fire-Retardant Sealant:

Filter element is completely sealed around with fire-retardant epoxy, polyurethane form or silicon sealant.

#### Face Guard:

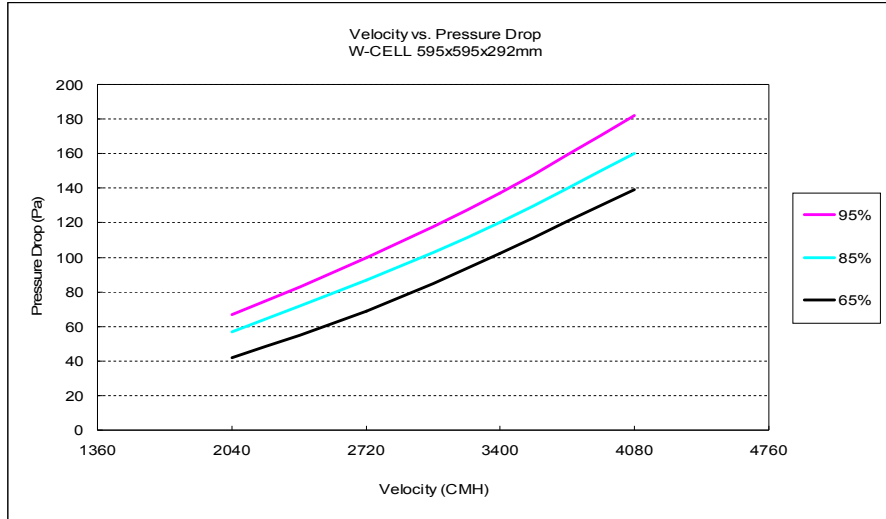
A Metal hardware close faceguard installed on both sides of the filter is available as an option.

#### Temperature:

Standard units are rated for maximum 200°F. Temperature up to 750°F can be obtained by optional sealants, gaskets and frames.

### Outer Frame:

The frame is available for Wooden Frame (Fire-Retardant Particle Board Frame) and Metal Frame (Galvanized Steel, Aluminum and Stainless Steel) in box type or header type. High Density Fire-Retardant Particle Board Frame is an unique construction to ensure maximum rigidity of filter.



### Performance Data – ASHRAE Grade W-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) 比色法	Arrestance (in AFI) 比重法	(inch)	(mm)		Initial Resistance	Final Resistance
90~95	> 99	12*24*6	289*595*150	850	82	324
		24*24*6	595*595*150	1700		
		12*24*12	289*595*292	1700	137	
		24*24*12	595*595*292	3400		
80~85	> 98	12*24*6	289*595*150	850	74	324
		24*24*6	595*595*150	1700		
		12*24*12	289*595*292	1700	120	
		24*24*12	595*594*292	3400		
60~65	> 97	12*24*6	289*595*150	850	62	324
		24*24*6	595*595*150	1700		
		12*24*12	289*595*292	1700	102	
		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	Ultra-Fine Glass Fiber
	Support Grid	Corrugated Aluminum Separator
	Sealant	PU BASE
	Gasket Material	Neoprene Rubber
	Frame Material	Wooden Frame      Metal Frame
	Frame Type	Box Type      Single Header
Service Conditions	The maximum continuous use temperature	°C 60
	Instant Highest Humidity	% RH 100 (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