

# Econocell™ Panel Medium Efficiency Filter

Email Air Handling Econocell Panel filters are high performance dry-type filters, intended for use in semi-critical locations, in both HVAC and general industrial. The Econocell is available in three efficiencies to suit a range of applications. With its' rigid construction, the Econocell ideally meets the design requirements of today's variable air volume systems.

The performance of Econocell Panel Filters are not interrupted by changes in air velocity or fan shutdown Compared to unsupported bag filters. Additionally the structural integrity of the Filter is not affected by accumulated dust. The Econocell filters have the lowest pressure drop available for their type and design. Continually low resistance under varied air volumes ensures power savings over the life of the filter.

## Construction

The lofted media and tapered radial pleats provide a high dust holding capability, extending the life of the filter. A continuous sheet of special fibre filter medium is pleated into a vee configuration. This forms the filter element which is bonded into a beverage bond frame with all joints encapsulated and sealed in a special urethane. As a result the system will require less down time and in turn reduce maintenance costs. The Econocell can be purchased with a cardboard or plastic outer frame.



## Durability



The final pleated filter is extremely durable with high compressive strength in the airflow direction. This durability also ensures that there is no damage to the pleats during transportation and storage.

## Dimensions

Filters are produced in a wide range of face dimensions and in two standard depths of nominally 100mm and 50mm

## Efficiencies

The Econocell Filter is available in three ratings and is colour coded for easy identification:

-  F6 (60/80%) - Green Filter Media
-  F7 (80/90%) Pink Filter Media
-  F8 (90/95%) - Yellow Filter Media

## Performance Data

### F6 Rating (60/80%)

Nominal Size	610x610x100mm	305x610x100mm	610x610x 50mm	305x610x 50mm
Part Number	EC65100-610610	EC65100-305610	EC6550-610610	EC6550-305610
Efficiency AS1324	F6	F6	F6	F6
Media Colour	Green	Green	Green	Green
Capacity	944 L/s	566L/s	944 L/s	566 L/s
Clean Resistance (Pa)	72		86	
No.1 Minimum	77%	77%		
No.4 Average	94.80%	94.80%		
Dust Holding (g/m <sup>2</sup> )	551			
Final Resistance (Pa)	450	450	450	450

### F7 Rating (80/90%)

Nominal Size	610x610x100mm	305x610x100mm	610x610x 50mm	305x610x 50mm
Part Number	EC85100-610610	EC85100-305610	EC8550-610610	EC8550-305610
Efficiency AS1324	F7	F7	F7	F7
Media Colour	Pink	Pink	Pink	Pink
Capacity	944 L/s	566L/s	944 L/s	566 L/s
Clean Resistance (Pa)	87		105	
No.1 Minimum	86%	86%		
No.4 Average	95.42%	95.42%		
Dust Holding (g/m <sup>2</sup> )	388			
Final Resistance (Pa)	450	450	450	450

### F8 Rating (90/95%)

Nominal Size	610x610x100mm	305x610x100mm	610x610x 50mm	305x610x 50mm
Part Number	EC95100-610610	EC95100-610610	EC9550-610610	EC9550-305610
Efficiency AS1324	F8	F8	F8	F8
Media Colour	Yellow	Yellow	Yellow	Yellow
Capacity	944 L/s	566L/s	670 L/s	566 L/s
Clean Resistance (Pa)	144		110	
No.1 Minimum	90%	90%		
No.4 Average	96.96%	96.96%		
Dust Holding (g/m <sup>2</sup> )	177			
Final Resistance (Pa)	450	450	450	450

## Standard Specification

Filter Description	Type 1, Class A
Rating	F6, F7 or F8
Selection	Air filters shall be Econocell or approved equal.
Sizes (Nominal)	610 x 610 x 100, 305 x 610 x 100, 610 x 610 x 50 or 305 x 610 x 50
Efficiency	When tested to AS1324.2 the filter shall achieve a No.1 dust efficiency of 60% (F6), 80% (F7) or 90% (F8).
Test Reports	A NATA test certificate will need to be provided which will be less than three years old to conform to this specification..

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*In keeping with our policy of continuing product improvement, we reserve the right to alter specifications without notice.*



9A Pembury Rd, Minto 2566  
 Ph 1300 550 116 F 1300 550 117  
 sales@aesenvironmental.com.au  
 www.aesenvironmental.com.au

