

Econocell™ Filters

Applications

Email Air Handling Econocell™ filters are designed for use in such semi-critical applications as:

- Hospital ICU's & CCU's.
- Computer room installations.
- Prestige office buildings.

Benefits

- Reduced likelihood of post-operative infection.
- Redecorating costs of walls, ceilings and drapes reduced.
- Heating and cooling coils stay cleaner, maintaining heat transfer efficiencies and lowering energy costs.

Features

Individually tested: every Econocell™ is individually tested for guaranteed Hot DOP efficiency and resistance to airflow. The results of this testing, together with the filter code and the test airflow, are given on serialised NATA certification labels attached to the filter and its carton, providing easy and rapid identification.

Local manufacture: Australian manufacture and testing means that filters are less likely to be damaged during transportation.

Lower resistance to airflow: Email Air Handlings' high-performance filter paper provides a higher airflow capacity (for lower resistance to airflow).

Description

The glass-paper filtering medium is pleated into a narrow vee formation and held in place by corrugated aluminium separators. The filter assembly is enclosed in a metal frame that can also be supplied with extended sides for gel applications.

Performance

Email Air Handling Econocells™ are manufactured in two grades to provide the exact filtration selection for your application.

Standard Econocell™

- 60% efficiency on 0.3 micron Hot DOP particles.
- 85% efficiency on No.1 Test Dust & 100% efficiency on No.4 Test Dust.

Hospital Econocell™

- 95% efficiency on 0.3 micron Hot DOP particles.
- 97% efficiency on No.1 Test Dust & 100% efficiency on No.4 Test Dust.

Resistance V's Airflow

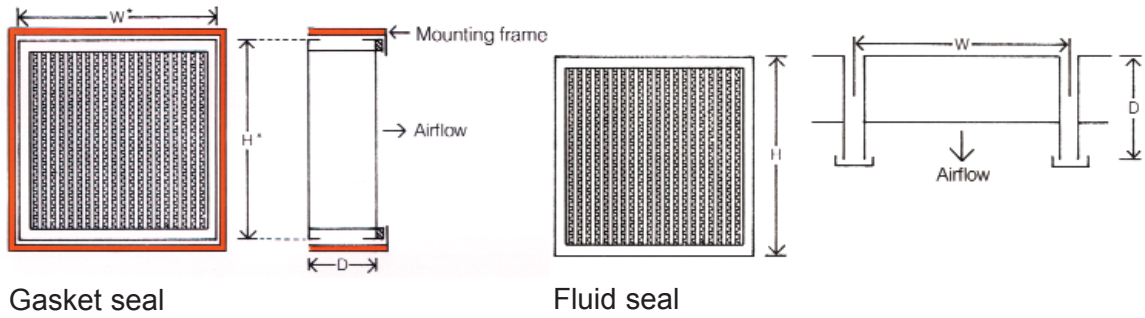
Unlike most filters which have a square law resistance characteristic, Econocell™ filters have a linear characteristic i.e. if the filter is operated at half airflow capacity, the resistance to airflow is also halved.

Design considerations

- Gel seal installations are suitable for applications up to 50°C and 100% RH.
- Gasket seal installations are suitable for applications up to 120°C and 100% RH.

All Econocells™ require adequate prefiltration to prolong filter life and Multipeak F5 grade filters are recommended for this.

Email Air Handling Econocells™ can be operated up to 2.5 Kpa. but increasing fan energy costs usually make replacement more economical when the filter reaches a pressure drop of 500 Pa. or twice initial P.D. Email Air Handling Econocells™ can be installed in any plane but when installed vertically the pleats must also be mounted vertically.



Part Number	Dimensions			Airflow L/S	Capacity CFM	Initial PD Pa.	Weight Kg.
	Height	Width	Depth				
Gasket Seal - 60% Hot DOP							
1589-4161/362	289	594	149	283	600	102	5.3
				472	1000	199	
1589-4161/363	289	594	292	472	1000	184	9
1589-4161/632	594	289	149	283	600	125	5.3
				472	1000	240	
1589-4161/633	594	289	292	472	1000	184	9
1589-4161/662	594	594	149	566	1200	102	8
				944	2000	199	
1589-4161/663	594	594	292	944	2000	184	13.7
Gasket Seal - 95% Hot DOP							
1589-5161/362	289	594	149	283	600	188	5.3
				472	1000	350	
1589-5161/363	289	594	292	472	1000	240	9
1589-5161/632	594	289	149	283	600	150	5.3
				472	1000	280	
1589-5161/633	594	289	292	472	1000	240	9
1589-5161/662	594	594	149	566	1200	150	8
				944	2000	280	
1589-5161/663	594	594	292	944	2000	240	13.7
Fluid Seal - 60% Hot DOP							
1589-4111/533	300	300	210	56	120	60	4.2
1589-4111/534	300	600	210	122	260	60	6.6
1589-4111/536	300	900	210	188	400	60	9
1589-4111/540	600	600	210	300	635	60	9.9
1589-4111/542	600	900	210	462	980	60	13.2
1589-4111/543	600	1200	210	624	1320	60	16.3
Fluid Seal - 95% Hot DOP							
1589-5111/533	300	300	210	56	120	80	4.2
1589-5111/534	300	600	210	122	260	80	6.6
1589-5111/536	300	900	210	188	400	80	9
1589-5111/540	600	600	210	300	635	80	9.9
1589-5111/542	600	900	210	462	980	80	13.2
1589-5111/543	600	1200	210	624	1320	80	16.3

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