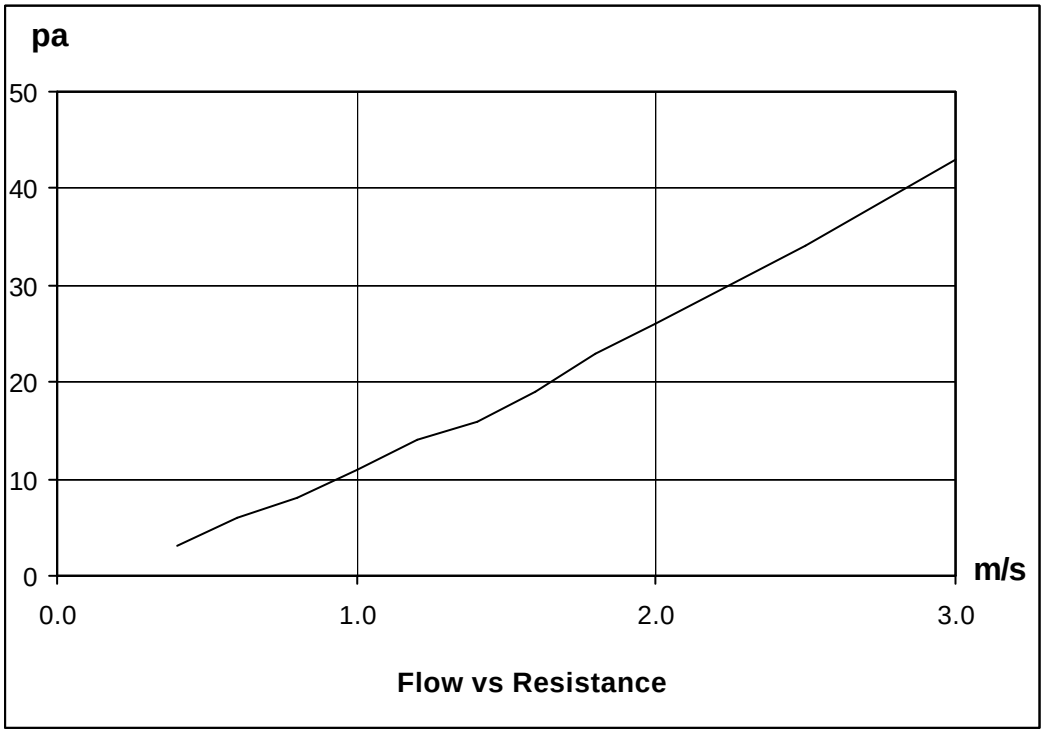
ESSA ELECTRONIC AIR FILTERS

Performance data for series 600/600/25

The airflow vs. resistance characteristic in a test duct based upon AS1324-1996:

m/s	**L/s**	**Pa**	**H_2O**
0.40	118	3	0.012
0.60	177	6	0.024
0.80	236	8	0.032
1.00	295	11	0.044
1.20	354	14	0.056
1.40	413	16	0.064
1.60	472	19	0.076
1.80	531	23	0.092
2.00	590	26	0.104
2.50	738	34	0.137
3.00	885	43	0.173



The fractional efficiency performance series 600/600/25 using ambient dust at various face velocities. The procedures used by AIRAH sponsored air filter research and the results were:

Efficiency results for 25mm Filter Unit, clean media

Particle size, um	0.3-0.5	0.5-1	1-5	5+	No.1 Dust est.*
0.5 m/s	23.2%	27.0%	34.6%	76.4%	25.1%
1.0 m/s	15.8%	20.4%	27.5%	75.4%	18.1%
1.8 m/s	9.2%	17.5%	24.5%	71.1%	13.4%
3.0 m/s	6.6%	17.0%	23.9%	68.3%	11.8%

The fractional efficiency performance series 600/600/50 using ambient dust at various face velocity. The procedures used by AIRAH sponsored air filter

Efficiency results for 50mm Filter Unit, clean media

Particle size, um	0.3-0.5	0.5-1	1-5	5+	No.1 Dust est.*
0.5 m/s	49.5%	52.3%	59.0%	92.3%	50.9%
1.0 m/s	35.5%	45.1%	51.4%	91.5%	40.3%
1.8 m/s	23.0%	42.0%	50.0%	88.0%	32.5%
3.0 m/s	18.1%	41.4%	56.8%	85.7%	29.7%

Notes:
Results for each face velocity were based upon approximately 30 x 1 minute samples.
*** Estimated equivalent results for AS1324-1996 No.1 Dust.**

Ref: #AIRAH 2000 Conference, Melbourne, “A New On-Site Performance Test for General Air Conditioning Filters” by James M Ficker, Victor Vandendool, and Robert Cavicchiolo.

ESSA ELECTRONIC AIR FILTERS

Performance data series 600/600/50

The airflow vs resistance characteristic in a test duct based upon AS1324-1996:

m/s	**L/s**	**Pa**	**H_2O**
0.40	118	6	0.024
0.60	177	10	0.040
0.80	236	14	0.056
1.00	295	20	0.080
1.20	354	25	0.100
1.40	413	31	0.124
1.60	472	37	0.149
1.80	531	43	0.173
2.00	590	50	0.201
2.50	738	68	0.273
3.00	885	87	0.349