



# AIR FILTER TESTING LABORATORIES, INC.

4632 Old LaGrange Road • Buckner, Kentucky 40010

Phone (502) 222-5720 • Fax (502) 222-9881

## ASHRAE METHOD 52.1-1992 AIRFLOW -vs- RESISTANCE AND PARTICLE SIZE, AMBIENT ATMOSPHERIC DUST -vs- REMOVAL EFFICIENCY; LOADED DEVICE

### DEVICE TESTED

Test Requested By	FILTER DEYLAMAN
Manufacturer	FILTER DEYLAMAN
Test Sample Procurement	FURNISHED BY MANUFACTURER
Product Name	CYLINDRICAL CARTRIDGE FILTER
Model No.	DA205
Dimensions	12.83 IN. O.D. X 8.50 IN. I.D. X 23.62 IN. LG. (NOMINAL)
Product Description	MEDIA TYPE - H & V 88% CELLULOSE/ 12% SYNTHETIC

**REPORT NO.**  
13625

**TEST NO.**  
1

**SHEET NO.**  
5

### TEST CONDITIONS

Test Airflow Rate	750	ft <sup>3</sup> /min (cfm)
Initial Resistance	0.88	in. w.g.
Air Temperature	23.0	°C
Relative Humidity	50	%
Particle Analyzer	CI-500 (laser)	

### TEST RESULTS - see attached performance curves

Particle Size Ranges (µm)	Ambient Atmospheric Removal Efficiency (%)				
	@ 0 g	@ 100 g	@ 1300 g	@ 2000 g	@ 2900 g
0.3 - 0.4	10.35	39.46	90.34	95.50	97.57
0.4 - 0.55	10.50	42.59	91.51	96.54	98.19
0.55 - 0.7	11.18	48.42	93.03	97.21	98.61
0.7 - 1.0	12.99	54.61	94.57	97.66	98.91
1.0 - 1.3	16.86	60.88	96.12	98.12	99.23
1.3 - 1.6	16.12	63.89	96.98	98.76	99.26
1.6 - 2.2	23.06	69.76	97.15	98.34	99.35
2.2 - 3.0	51.94	84.92	98.21	98.88	99.46

Particle Size Ranges (µm)	Ambient Atmos. Rem. Eff. (%)	
	@ 3500 g	@ 4500 g
0.3 - 0.4	97.44	97.72
0.4 - 0.55	97.68	98.10
0.55 - 0.7	97.81	98.59
0.7 - 1.0	97.84	98.75
1.0 - 1.3	97.80	99.07
1.3 - 1.6	97.70	99.04
1.6 - 2.2	97.78	98.81
2.2 - 3.0	97.05	98.89

**DATE**  
11-14-2007

**TEST SUPERVISOR**  
J.P.S.

**ADMINISTRATIVE APPROVAL**  
*Michael K. Murphy*





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## PERFORMANCE CURVES

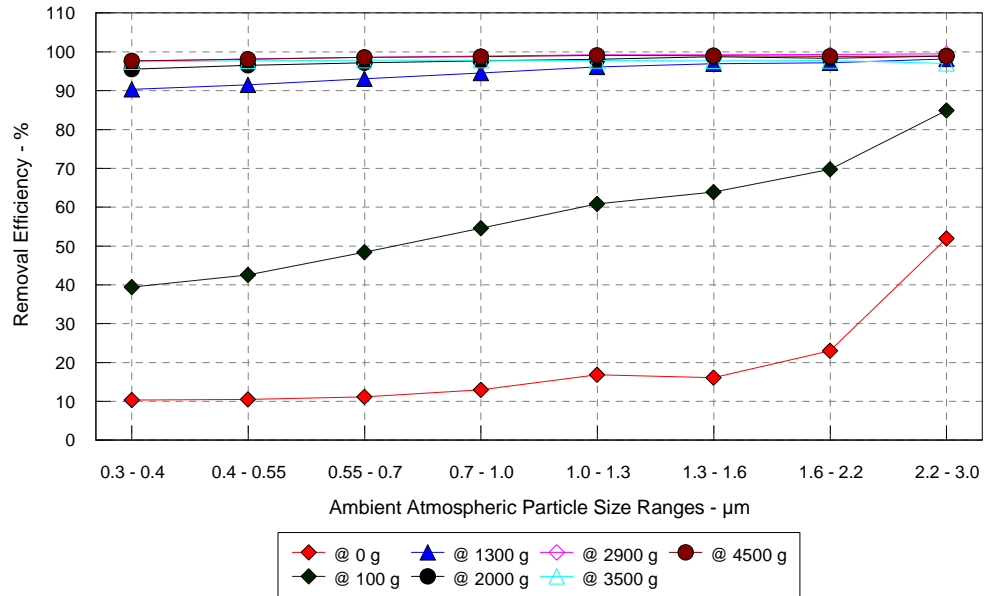
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### PARTICLE SIZE -vs- REMOVAL EFFICIENCY

Ambient Atmospheric Dust



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