



2820 S. English Station Road - Louisville, KY 40299

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TEST NO. 05-213

ASHRAE Standard 52.2-99 TEST REPORT

FULL TEST

Filter Description	Manufacturer <u>Leggett & Platt, Cumulus Fibres Division</u> Filter Model <u>Unknown</u> Part Number <u>Unknown</u> Filter Type <u>1.25" Super Tack</u> Filter Date Code <u>Unknown</u> Nominal Face Dimensions <u>24" x 24"</u> Nominal Depth <u>1.25"</u> Pocket / Pleat Quantity <u>Flat</u> Media Type <u>Polyester</u> Est. Gross Media Area <u>4 ft2</u> Adhesive Type <u>Super Tack</u> Adhesive Amount <u>Unknown</u>		
Internal Use	Open Market <u> </u> Experimental <u> </u> Quality Control <u> X </u> Standard <u> </u>	UL Class <u> </u> Not Rated <u> </u> Not Known <u> X </u>	
Test Conditions	Test Air Flow Rate (CFM) <u> 1200 </u> Dust Feed Rate (gms / MCF) <u> 2/1000 </u> Dust Type <u> ASHRAE </u> Test Duct Number <u> 3 </u>	Test Air Temp (degrees F.) <u> 77.28 </u> Relative Humidity (%) <u> 19.87 </u> Barometric Pressure (In. Hg.) <u> 30.35 </u>	
Test Results	Initial Resistance (in, W.G.) Final Resistance (in, W.G.) Dust Fed to Final Resistance E1 Minimum Average Efficiency 0.3-0.84 Microns E2 Minimum Average Efficiency 1.14-2.57 Microns E3 Minimum Average Efficiency 3.46-8.37 Microns Minimum Efficiency Rating Value (MERV)	0.33 1 130 gms 6 52 72 MERV 8 @ 1200 CFM	
Comments			
Requestor Information	Test Requestor <u> Shawn Tanner </u> Company Name <u> Leggett & Platt, Cumulus </u> Company Address <u> Charlotte, NC </u>	Phone Number <u> 704-394-2111 </u> Fax Number <u> 704-394-2650 </u> Date Requested <u> 4-May-05 </u>	
Test Operator Information	Test Performed by: <u> Mike McLain </u>	Completion Date <u> 6-May-05 </u>	

BLUE HEAVEN TECHNOLOGIES

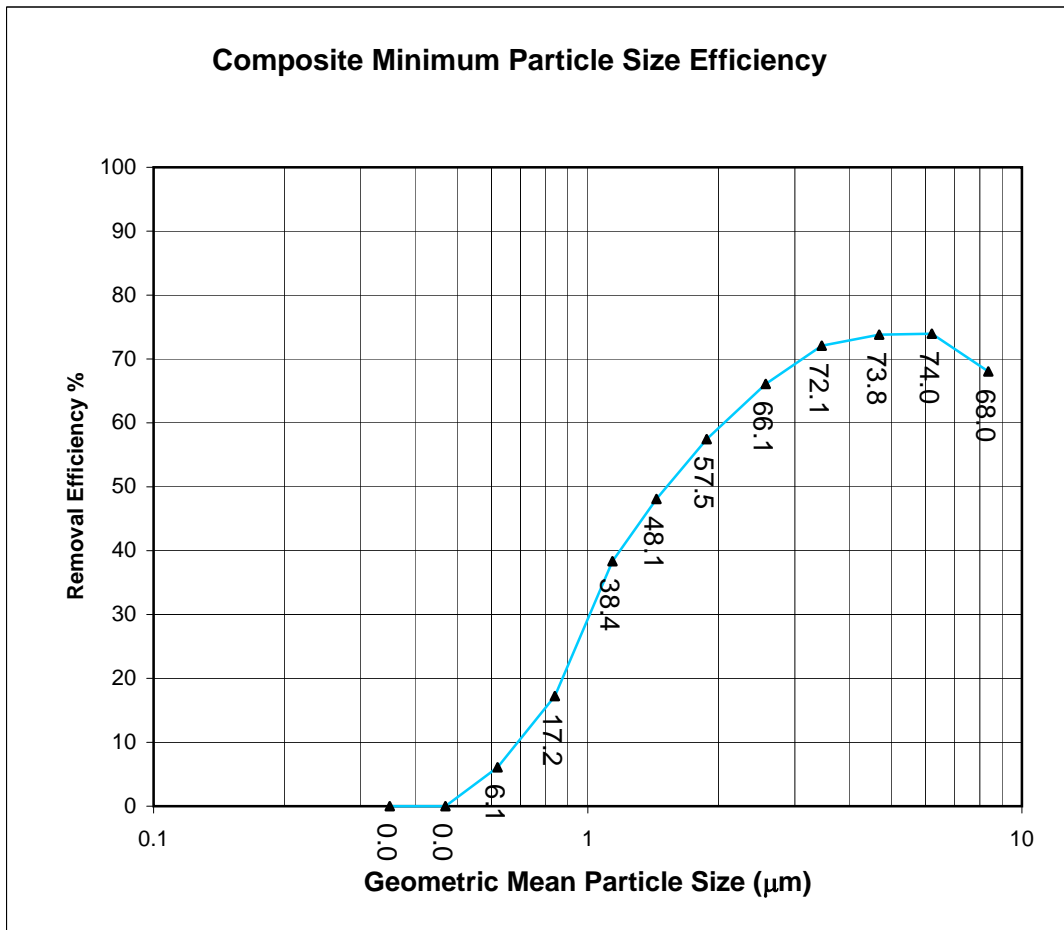
ASHRAE 52.2 REPORT

2820 S. ENGLISH STATION ROAD
LOUISVILLE, KY 40299

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FAX: (502) 267-8379

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Size Range (μm)	Composite Minimum Fractional Efficiency
0.35	0.0
0.47	0.0
0.62	6.1
0.84	17.2
1.14	38.4
1.44	48.1
1.88	57.5
2.57	66.1
3.46	72.1
4.69	73.8
6.20	74.0
8.37	68.0



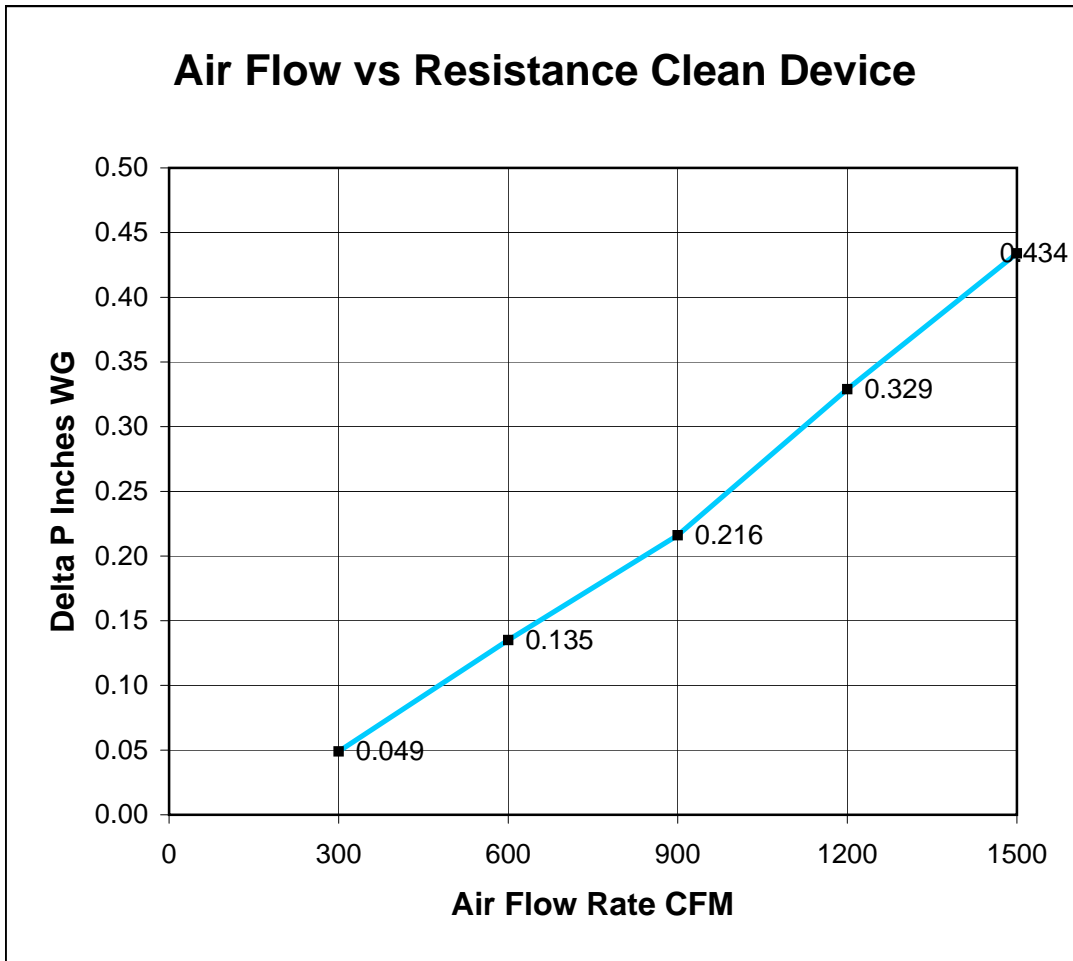
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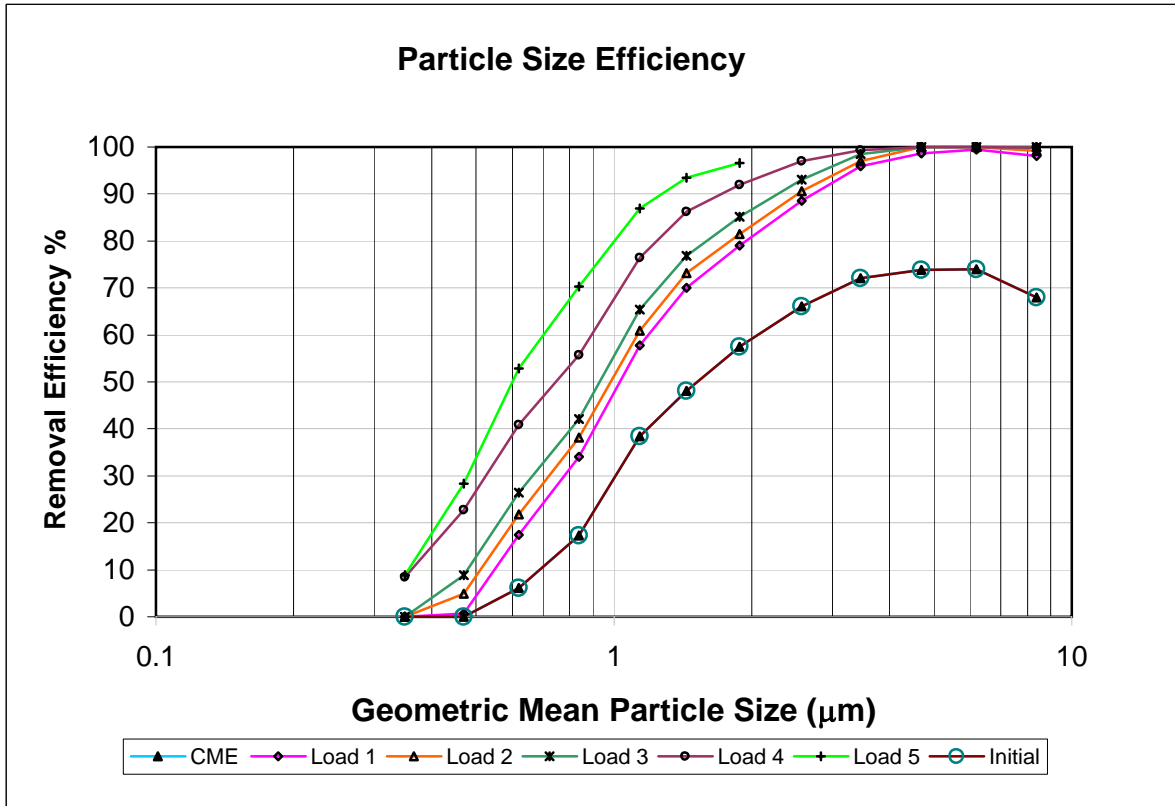
Flow Rate (cfm)	DP Inches of H2O
300	0.049
600	0.135
900	0.216
1200	0.329
1500	0.434

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Size Range (µM)	Fractional Efficiency (%)						
	CME	Initial	Load 1	Load 2	Load 3	Load 4	Load 5
0.35	0.0	0.0	0.0	0.0	0.0	8.5	8.9
0.47	0.0	0.0	0.6	4.9	8.9	22.8	28.4
0.62	6.1	6.1	17.5	21.8	26.4	40.9	52.8
0.84	17.2	17.2	34.1	38.1	42.1	55.8	70.4
1.14	38.4	38.4	57.7	60.8	65.5	76.5	86.9
1.44	48.1	48.1	70.0	73.1	76.9	86.2	93.5
1.88	57.5	57.5	79.0	81.4	85.2	92.0	96.6
2.57	66.1	66.1	88.6	90.6	93.0	97.0	99.2
3.46	72.1	72.1	95.9	97.0	98.6	99.4	100.0
4.69	73.8	73.8	98.7	100.0	100.0	100.0	98.7
6.20	74.0	74.0	99.5	100.0	100.0	100.0	98.4
8.37	68.0	68.0	98.0	99.2	100.0	99.9	98.2
	CME	Initial	Load 1	Load 2	Load 3	Load 4	Load 5
			0.39	0.44	0.54	0.77	1.02
			10 grams	20 grams	50 grams	85 grams	130 grams