

LMS TECHNOLOGIES, INC.
6423 Cecilia Circle
Bloomington, MN 55439
(952) 918-9060, Fax: (952) 918-9061

Test Report-ASHRAE Test Standard 52.2

Test Requested By:	<u>Dust Free, LP</u>	Report #: 1857
		Test Date: 07/29/2009
Manufacturer:	<u>Dust Free, LP</u>	
Product Name:	<u>Sample 0.20-0.21</u>	
Model Number:	<u>N/A</u>	
Dimensions:	<u>20" x 25" x 1"</u>	
Number of Pleats:	<u>N/A</u>	
Filter Description:	<u>Black, Foam Panel Filter</u>	
How Filter Obtained:	<u>Provided by Dust Free</u>	

Test Results

Test Air Flow Rate(CFM)/Velocity (FPM)	<u>1024 cfm / 295 fpm</u>
Initial Resistance (in. WG)	<u>0.175"</u>
Final Resistance (in. WG)	<u>0.800"</u>
Minimum Efficiency Rating Value (MERV)	<u>MERV 8 @ 1024 cfm</u>
Minimum Average Efficiency 0.3 to 1.0 Microns (E1)	<u>1.3</u>
Minimum Average Efficiency 1.0 to 3.0 Microns (E2)	<u>25.0</u>
Minimum Average Efficiency 3.0 to 10 Microns (E3)	<u>76.1</u>
Dust Fed to Final Resistance (grams)	<u>123.5 grams</u>
Dust Holding Capacity (grams)	<u>110.3 grams</u>
Arrestance:	<u>89.3%</u>

Test Description

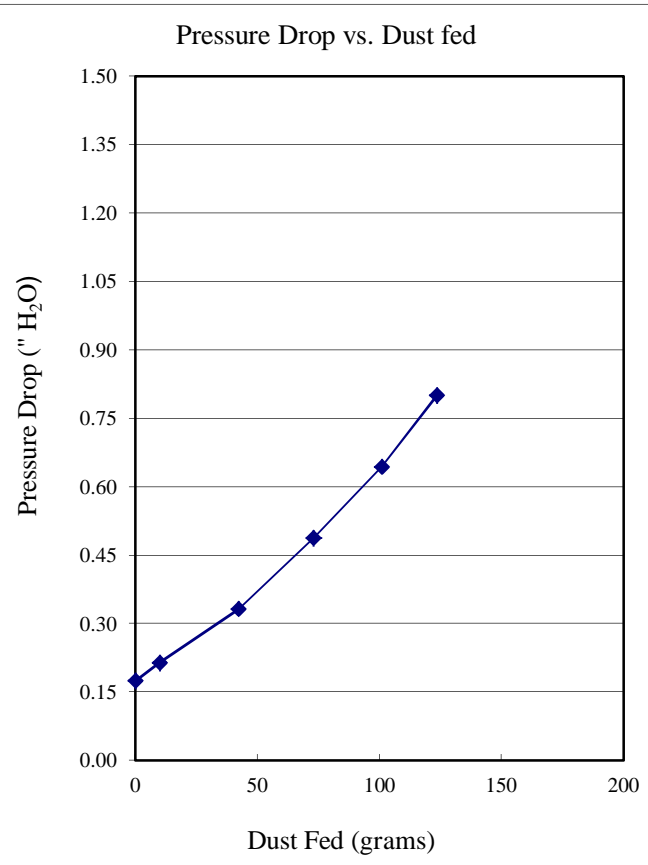
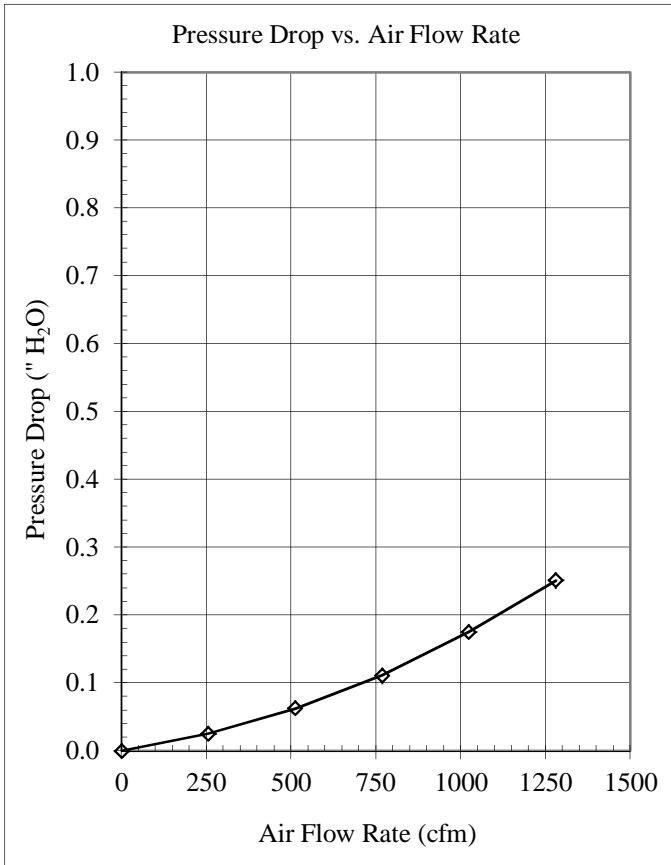
Temp & Humidity:	<u>71 @ 40%</u>
Particle Analysis:	<u>Hiac/Royco FE-80</u>
Test Dust:	<u>ASHRAE 52.1 Dust</u>
Test Aerosol:	<u>KCl, Neutralized</u>

Test Engineer :	<u>Mick Flom/Emile Tadros/Kian Imani/Pat Best</u>
Approved By:	<u>K. C. Kwok, Ph.D.</u>

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Date: July 29, 2009 Filter ID : Sample 0.20-0.21 Test Type : Pressure Drop of Clean Filter for ASHRAE 52.2 REP#: 1857	Test Requested by : Dust Free, LP Filter Manufacturer : Dust Free, LP
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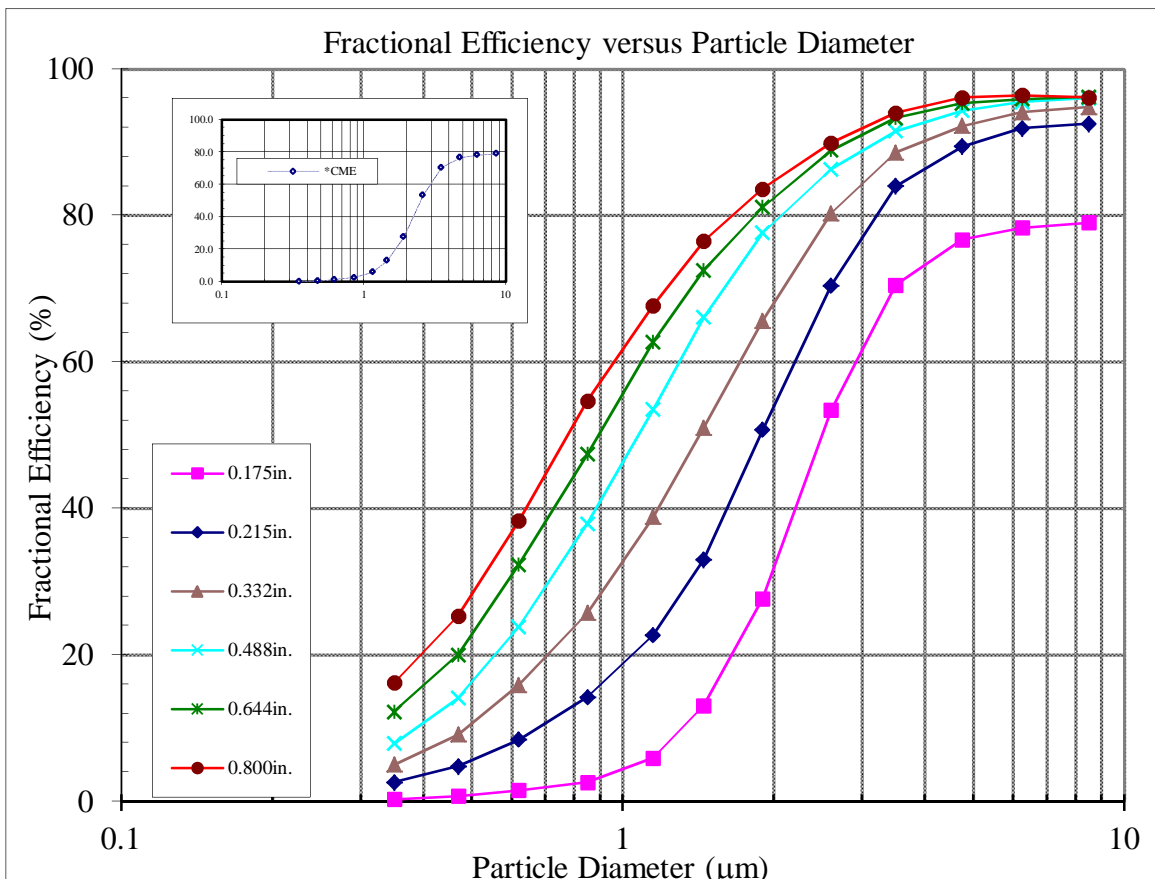
Flow Rate (CFM)	Velocity FPM	dP (mm H2O)	Pressure drop ("H2O)	% of Rated Airflow	Dust fed	Pressure drop
0	0	0.00	0.000	0%	0.00	0.175
256	74	0.64	0.025	25%	10.00	0.215
512	148	1.59	0.063	50%	42.30	0.332
768	221	2.82	0.111	75%	73.10	0.488
1024	295	4.45	0.175	100%	101.00	0.644
1280	369	6.38	0.251	125%	123.50	0.800



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Date : July 29, 2009 Filter ID : sample 0.20-0.21 Test Type : 52.2 REP#: 1857 Test Aerosol : KCl, Neutralized	Requested by : Dust Free, LP Manufacturer : Dust Free, LP
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ΔP (" H ₂ O)	0.175in.	0.215in.	0.332in.	0.488in.	0.644in.	0.800in.	*CME
Size Range (μm)	Fractional Efficiency (%)						
0.3-0.4	0.3	2.6	5.0	7.9	12.2	16.2	0.3
0.4-0.55	0.7	4.8	9.1	14.1	20.0	25.3	0.7
0.55-0.7	1.5	8.4	15.9	23.8	32.3	38.3	1.5
0.7-1.0	2.6	14.2	25.7	37.9	47.4	54.7	2.6
1.0-1.3	5.9	22.7	38.8	53.5	62.7	67.7	5.9
1.3-1.6	13.1	33.0	51.0	66.1	72.5	76.5	13.1
1.6-2.2	27.7	50.7	65.6	77.6	81.1	83.6	27.7
2.2-3.0	53.4	70.4	80.3	86.3	88.9	89.9	53.4
3.0-4.0	70.5	84.0	88.6	91.5	93.3	94.0	70.5
4.0-5.5	76.7	89.4	92.2	94.3	95.3	96.1	76.7
5.5-7.0	78.3	91.9	94.1	95.5	95.9	96.4	78.3
7.0-10.0	79.0	92.5	94.8	96.0	96.2	96.1	79.0



TEST SUPERVISOR
 MICK FLOM _____

ENGINEERING APPROVAL
 K.C. KWOK, PH.D. _____