



LMS TECHNOLOGIES, INC.

6423 Cecilia Circle

Bloomington, MN 55439

(952) 918-9060, Fax: (952) 918-9061

Test Report-ASHRAE Test Standard 52.2-2007

Test Requested By: A.J.Dralle

Manufacturer: A.J.Dralle

Filter ID: ST-6 Series

Model Number: N/A

Dimensions: 24" x 24" Panel

Number of Pleats: N/A

Filter Description: Panel Filter

How Filter Obtained: Provided by A.J.Dralle

Report #: 2357

Test Date: 03/08/2011

Test Results

Test Air Flow Rate(CFM)/Velocity (FPM)	<u>1968 cfm / 492 fpm</u>
Initial Resistance (in. WG)	<u>0.544"</u>
Final Resistance (in. WG)	<u>1.000"</u>
Minimum Efficiency Rating Value (MERV)	<u>MERV 10 @ 1968 cfm</u>
Minimum Average Efficiency 0.3 to 1.0 Microns (E1)	<u>12.0</u>
Minimum Average Efficiency 1.0 to 3.0 Microns (E2)	<u>51.4</u>
Minimum Average Efficiency 3.0 to 10 Microns (E3)	<u>85.3</u>
Dust Fed to Final Resistance (grams)	<u>92.1 grams</u>
Dust Holding Capacity (grams)	<u>77.0 grams</u>
Arrestance:	<u>83.6%</u>

Test Description

Temp & Humidity: 71° F @ 33%

Particle Analysis: Hiac/Royco FE-80

Test Dust: ASHRAE 52.1 Dust

Test Aerosol: KCl, Neutralized

LMS#: #1165

Test Engineer : Al Vatine/Emile Tadros/Pat Best/Jose Tizcareno/Neima Mehran

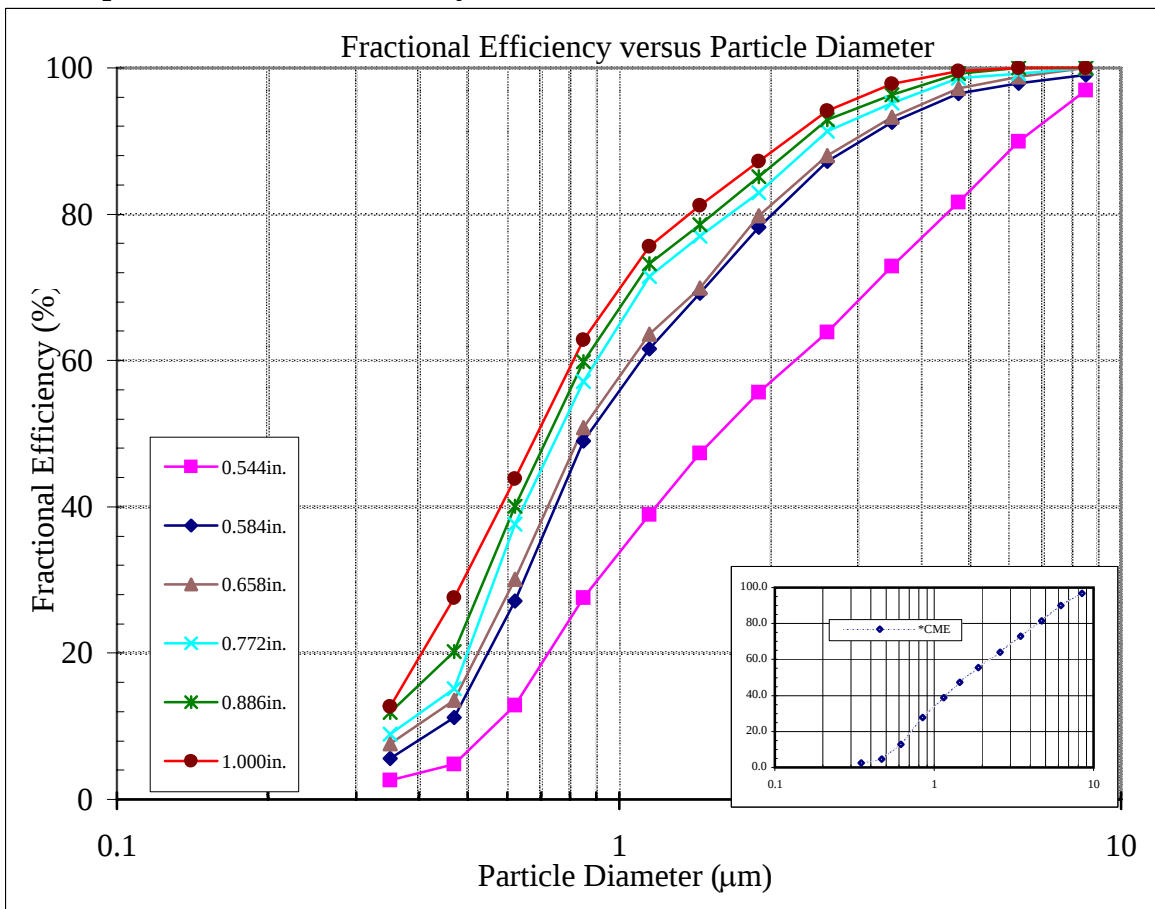
Approved By: K. C. Kwok, Ph.D.

LMS Technologies, Inc.
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Date :	March 8, 2011	Requested by :
Filter ID :	ST-6 Series Panel Filter	A.J.Dralle
Test Type :	52.2-2007 REP# 2357	Manufacturer :
Test Aerosol :	KCl, Neutralized	A.J.Dralle

ΔP (" H ₂ O)	0.544in.	0.584in.	0.658in.	0.772in.	0.886in.	1.000in.	*CME
Size Range (μm)	Fractional Efficiency (%)						
0.3-0.4	2.6	5.6	7.6	8.9	11.9	12.7	2.6
0.4-0.55	4.8	11.2	13.6	15.1	20.2	27.6	4.8
0.55-0.7	12.9	27.1	30.1	37.6	40.1	43.8	12.9
0.7-1.0	27.6	49.0	50.8	57.1	59.8	62.8	27.6
1.0-1.3	38.9	61.6	63.6	71.5	73.2	75.6	38.9
1.3-1.6	47.3	69.2	69.9	77.0	78.6	81.2	47.3
1.6-2.2	55.6	78.2	79.8	82.9	85.1	87.2	55.6
2.2-3.0	63.9	87.2	88.0	91.3	92.9	94.1	63.9
3.0-4.0	72.9	92.6	93.3	95.2	96.3	97.8	72.9
4.0-5.5	81.6	96.5	97.2	98.6	99.2	99.6	81.6
5.5-7.0	89.9	97.9	98.8	99.2	100.0	100.0	89.9
7.0-10.0	96.9	99.0	100.0	100.0	100.0	100.0	96.9

* Composite Minimum Efficiency



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

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Date:	March 8, 2011	Test Requested by :	
Filter ID :	ST-6 Series Panel Filter	A.J.Dralle	
Test Type :	Pressure Drop of Clean Filter	Filter Manufacturer :	
	For ASHRAE 52.2-2007 REP# 2357	A.J.Dralle	

Flow Rate (CFM)	Velocity FPM	dP (mm H ₂ O)	Pressure drop ("H ₂ O)	% of Rated Airflow	Dust fed	Pressure drop
0	0	0.00	0.000	0%	0.00	0.544
492	123	1.92	0.076	25%	6.90	0.584
984	246	5.27	0.207	50%	19.20	0.658
1476	369	8.97	0.353	75%	43.50	0.772
1968	492	13.82	0.544	100%	67.30	0.886
2460	615	19.24	0.757	125%	92.10	1.000

