

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>A. J. Dralle</u>	Report #: 434 Test Date: 04/23/03
Manufacturer:	<u>A. J. Dralle</u>	
Product Name:	<u>PT Panel</u>	
Model Number:	<u></u>	
Dimensions:	<u>20x20x1</u>	
Number of Pleats:	<u>Panel</u>	
Filter Description:	<u>White highloft with white backing</u>	
How Filter Obtained:	<u>Provided by manufacturer</u>	

Test Results

Test Air Flow Rate(CFM)/Velocity (FPM)	<u>1367cfm/492 fpm</u>
Initial Resistance (in. WG)	<u>0.387</u>
Final Resistance (in. WG)	<u>1.0</u>
Minimum Efficiency Rating Value (MERV)	<u>MERV 7 @ 1367cfm</u>
Minimum Average Efficiency 0.3 to 1.0 Microns (E1)	<u>14.3</u>
Minimum Average Efficiency 1.0 to 3.0 Microns (E2)	<u>44.7</u>
Minimum Average Efficiency 3.0 to 10.0 Microns (E3)	<u>52.7</u>
Dust Fed to Final Resistance(grams)	<u>149.3 grams</u>

Test Description

Temp & Humidity:	<u>70 @ 41%</u>
Particle Analysis:	<u>Hiac/Royco FE-80</u>
Test Dust:	<u>ASHRAE 52.1 Dust</u>
Test Aerosol:	<u>KCL Neutralized</u>

Test Technician:	<u>Mick Flom</u>
Approved By:	<u>K. C. Kwok, Ph.D.</u>

LMS Technologies, Inc.

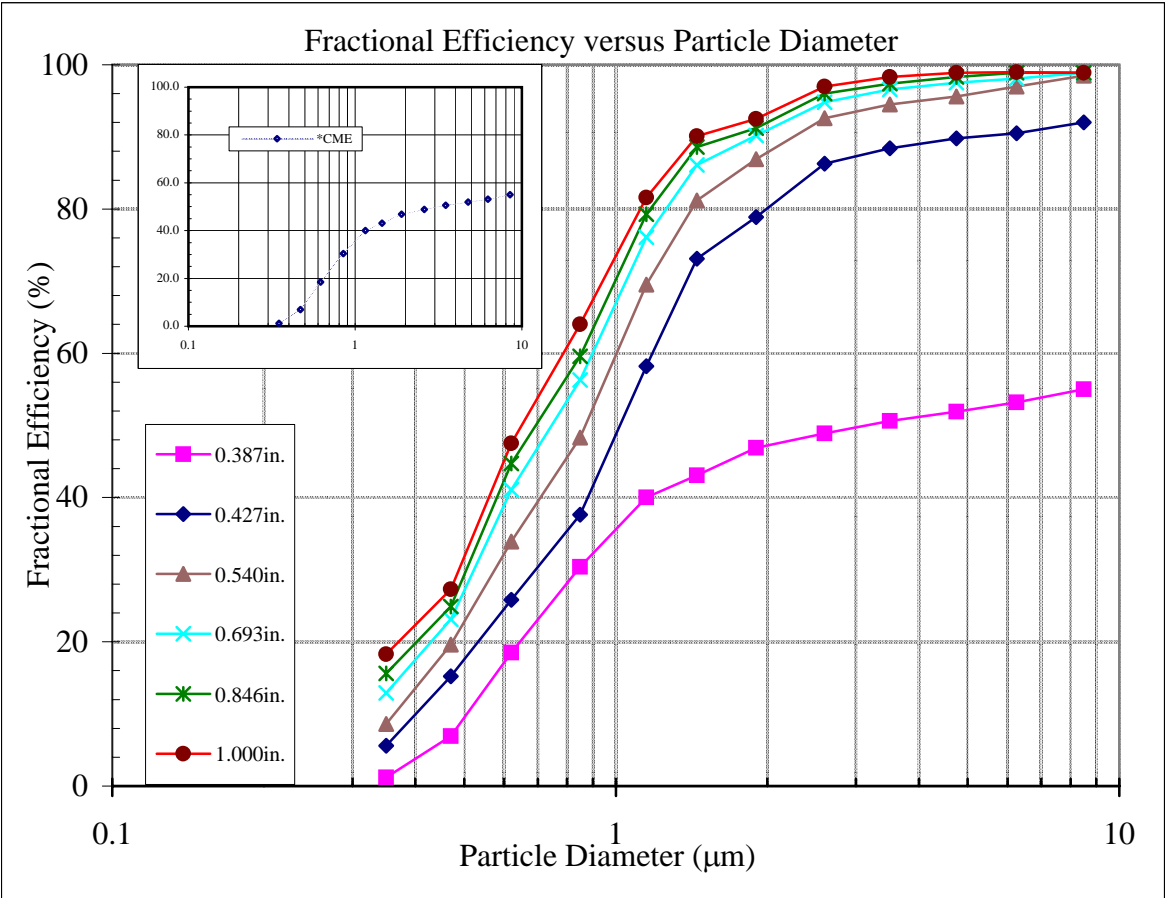
P.O. Box 24185, Edina, MN 55424

(612) 918-9060, Fax: (612) 918-9061

Date :	April 23, 2003	Requested by :	
Filter ID :	PT Panel	A.J. Dralle	
Test Type :	52.2 REP# 434	Manufacturer :	A. J. Dralle
Test Aerosol :	KCl, Neutralized	Flow Rate:	1367cfm

ΔP (" H ₂ O)	0.387in.	0.427in.	0.540in.	0.693in.	0.846in.	1.000in.	*CME
Size Range (μm)	Fractional Efficiency (%)						
0.3-0.4	1.2	5.6	8.6	12.9	15.6	18.3	1.2
0.4-0.55	6.9	15.2	19.6	23.1	24.9	27.3	6.9
0.55-0.7	18.5	25.8	33.9	41.1	44.7	47.5	18.5
0.7-1.0	30.4	37.6	48.3	56.3	59.6	64.0	30.4
1.0-1.3	40.0	58.2	69.5	76.1	79.3	81.6	40.0
1.3-1.6	43.1	73.1	81.2	86.1	88.6	90.1	43.1
1.6-2.2	46.9	78.9	86.9	90.2	91.2	92.5	46.9
2.2-3.0	48.9	86.3	92.6	94.8	96.0	97.0	48.9
3.0-4.0	50.6	88.4	94.5	96.6	97.4	98.3	50.6
4.0-5.5	51.9	89.8	95.6	97.5	98.3	98.9	51.9
5.5-7.0	53.2	90.5	97.0	98.1	98.9	99.0	53.2
7.0-10.0	55.0	92.0	98.5	98.9	98.9	98.9	55.0

***Composite Minimum Efficiency**



TEST SUPERVISOR
MICK FLOM _____

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

LMS Technologies, Inc.
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Date: April 23, 2003 Filter ID : PT Panel Test Type : Pressure Drop of Clean Filter for ASHRAE 52.2 REP# 434	Test Requested by : A.J. Dralle Filter Manufacturer : A.J. Dralle
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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	0.387
347	125	1.58	0.062	25%	10.10	0.427
695	250	3.98	0.157	50%	34.80	0.540
1042	375	6.97	0.274	75%	75.10	0.693
1389	500	9.83	0.387	100%	110.50	0.846
1736	625	13.20	0.520	125%	149.30	1.000

52.2P (sec.9.4)

