

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>Filtration Manufacturing</u>	Report #: 413
		Test Date: 12/31/02
Manufacturer:	<u>Filtration Manufacturing</u>	
Product Name:	<u>MERV 8 High Capacity Pleat</u>	
Model Number:	<u></u>	
Dimensions:	<u>24x24x4</u>	
Number of Pleats:	<u>20 pleats</u>	
Filter Description:	<u>White synthetic deep pleat</u>	
How Filter Obtained:	<u>Provided by manufacturer</u>	

Test Results

Test Air Flow Rate(CFM)/Velocity (FPM)	<u>1968cfm/492fpm</u>
Initial Resistance (in. WG)	<u>0.244</u>
Final Resistance (in. WG)	<u>1.0</u>
Minimum Efficiency Rating Value (MERV)	<u>MERV 8 @ 1968 cfm</u>
Minimum Average Efficiency 0.3 to 1.0 Microns (E1)	<u>16.6</u>
Minimum Average Efficiency 1.0 to 3.0 Microns (E2)	<u>46.8</u>
Minimum Average Efficiency 3.0 to 10.0 Microns (E3)	<u>70.7</u>
Dust Fed to Final Resistance(grams)	<u>173.6 grams</u>

Test Description

Temp & Humidity:	<u>70 @ 35%</u>
Particle Analysis:	<u>Hiac/Royco FE-80</u>
Test Dust:	<u>ASHRAE 52.1 Dust</u>
Test Aerosol:	<u>KCL Neutralized</u>

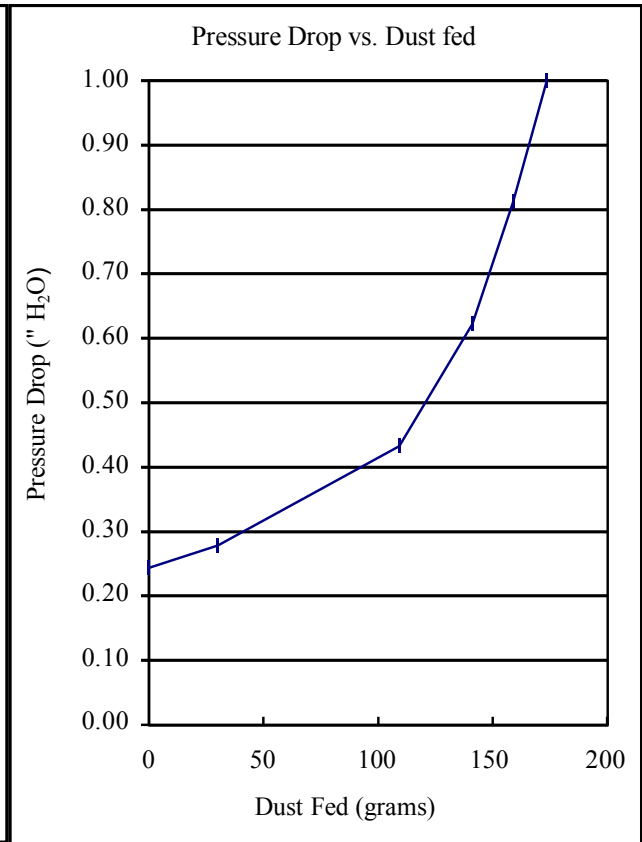
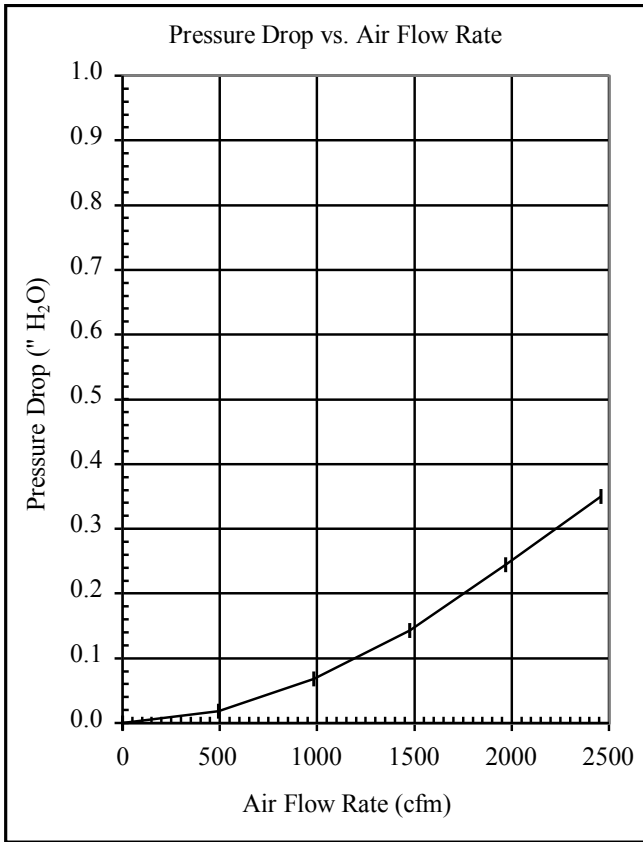
Test Technician:	<u>Mick Flom</u>
Approved By:	<u>K. C. Kwok, Ph.D.</u>

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

Date: December 31, 2002 Filter ID : High Cap. 24x24x4 Test Type : Pressure Drop of Clean Filter for ASHRAE 52.2 REP# 413	Test Requested by : Filtration Manufacturing
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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	0.244
492	123	0.47	0.019	25%	30.00	0.278
984	246	1.73	0.068	50%	109.30	0.433
1476	369	3.62	0.143	75%	141.20	0.622
1968	492	6.20	0.244	100%	158.90	0.811
2460	615	8.90	0.350	125%	173.60	1.000

52.2P (sec.9.4)



TEST SUPERVISOR
 MICK FLOM _____

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

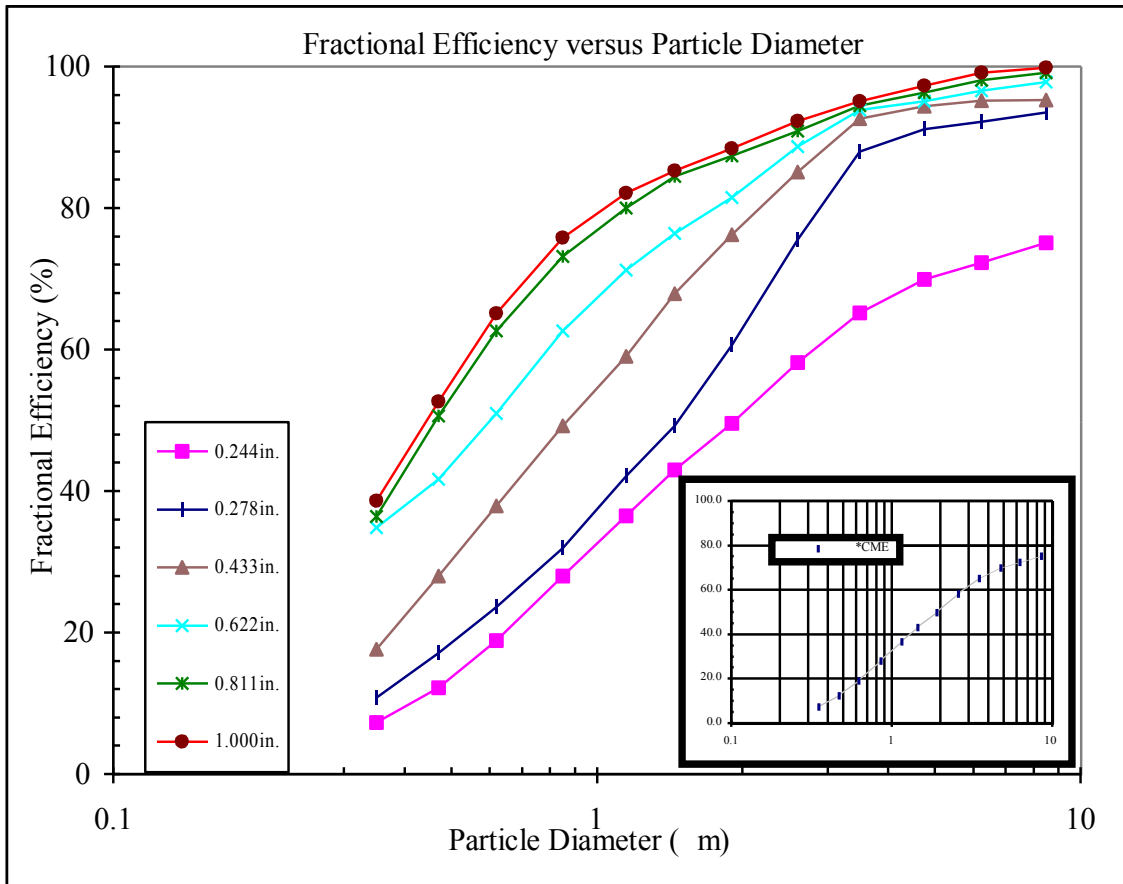
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LMS Technologies, Inc.
P.O. Box 24185, Edina, MN 55424
(612) 918-9060, Fax: (612) 918-9061

Date :	December 31, 2002	Requested by :	
Filter ID :	High Cap.24x24x4	Filtration Manufacturing	
Test Type :	52.2 REP# 413		
Test Aerosol :	KCl, Neutralized	Flow Rate: 1968cfm	

P (" H ₂ O)	0.244in.	0.278in.	0.433in.	0.622in.	0.811in.	1.000in.	*CME
Size Range (m)	Fractional Efficiency (%)						
0.3-0.4	7.3	10.8	17.6	34.8	36.4	38.6	7.3
0.4-0.55	12.2	17.1	28.0	41.7	50.6	52.6	12.2
0.55-0.7	18.9	23.6	37.9	51.0	62.6	65.1	18.9
0.7-1.0	28.0	31.9	49.2	62.6	73.2	75.8	28.0
1.0-1.3	36.5	42.1	59.0	71.2	80.0	82.1	36.5
1.3-1.6	43.0	49.2	67.9	76.4	84.5	85.3	43.0
1.6-2.2	49.6	60.6	76.2	81.5	87.4	88.4	49.6
2.2-3.0	58.2	75.5	85.1	88.7	90.9	92.3	58.2
3.0-4.0	65.2	88.0	92.6	93.9	94.5	95.1	65.2
4.0-5.5	69.9	91.1	94.4	95.1	96.3	97.3	69.9
5.5-7.0	72.3	92.2	95.2	96.6	98.1	99.1	72.3
7.0-10.0	75.1	93.5	95.3	97.8	99.1	99.8	75.1

*Composite Minimum Efficiency



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