

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 #: 409 Test Date: 12/31/02
Manufacturer:	<u>Filtration Manufacturing</u>	
Product Name:	<u>High Capacity</u>	
Model Number:	<u></u>	
Dimensions:	<u>24x24x1</u>	
Number of Pleats:	<u>32 pleats</u>	
Filter Description:	<u>White synthetic pleat filter</u>	
How Filter Obtained:	<u>Provided by manufacturer</u>	

Test Results

Test Air Flow Rate(CFM)/Velocity (FPM)	<u>1180cfm/295fpm</u>
Initial Resistance (in. WG)	<u>0.15</u>
Final Resistance (in. WG)	<u>0.6</u>
Minimum Efficiency Rating Value (MERV)	<u>MERV 8 @ 1180cfm</u>
Minimum Average Efficiency 0.3 to 1.0 Microns (E1)	<u>12.6</u>
Minimum Average Efficiency 1.0 to 3.0 Microns (E2)	<u>41.9</u>
Minimum Average Efficiency 3.0 to 10.0 Microns (E3)	<u>70.6</u>
Dust Fed to Final Resistance(grams)	<u>58.4grams</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>

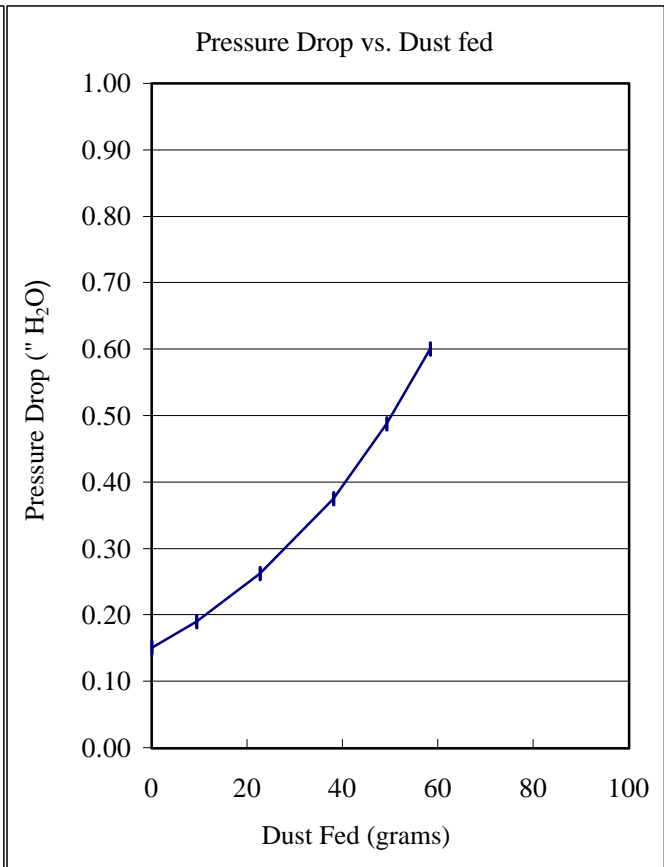
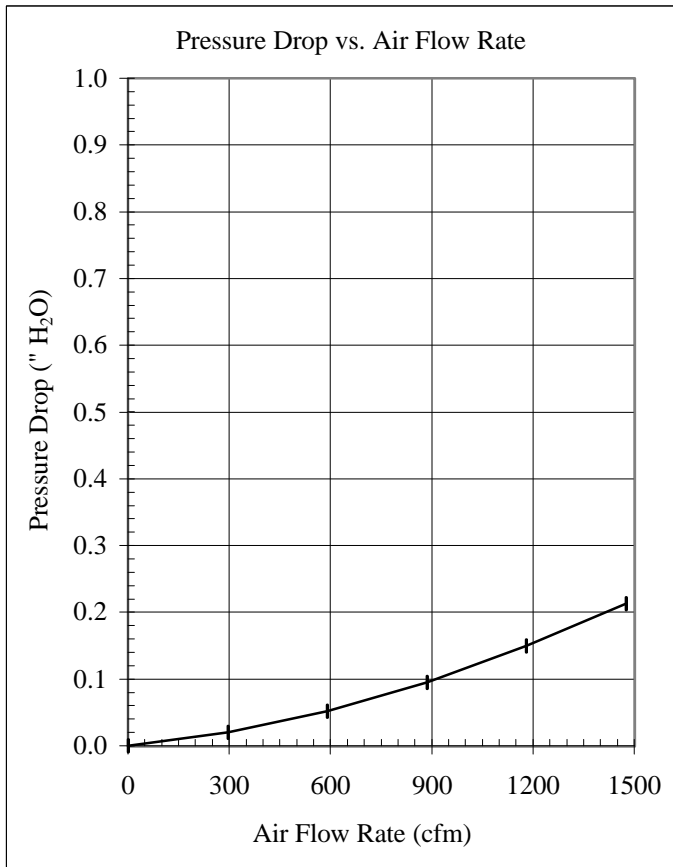
Test Technician:	<u>Mick Flom</u>
Approved By:	<u>K. C. Kwok, Ph.D.</u>

LMS Technologies, Inc.
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Date: December 31, 2002 Filter ID : High Capacity 24x24x1 Test Type : Pressure Drop of Clean Filter for ASHRAE 52.2 REP# 409	Test Requested by : Filtration Manufacturing Filter Manufacturer : 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	0.150
295	74	0.50	0.020	25%	9.40	0.190
590	148	1.31	0.052	50%	22.70	0.262
885	221	2.42	0.095	75%	38.10	0.375
1180	295	3.80	0.150	100%	49.20	0.487
1475	369	5.40	0.213	125%	58.40	0.600

52.2P (sec.9.4)



LMS Technologies, Inc.

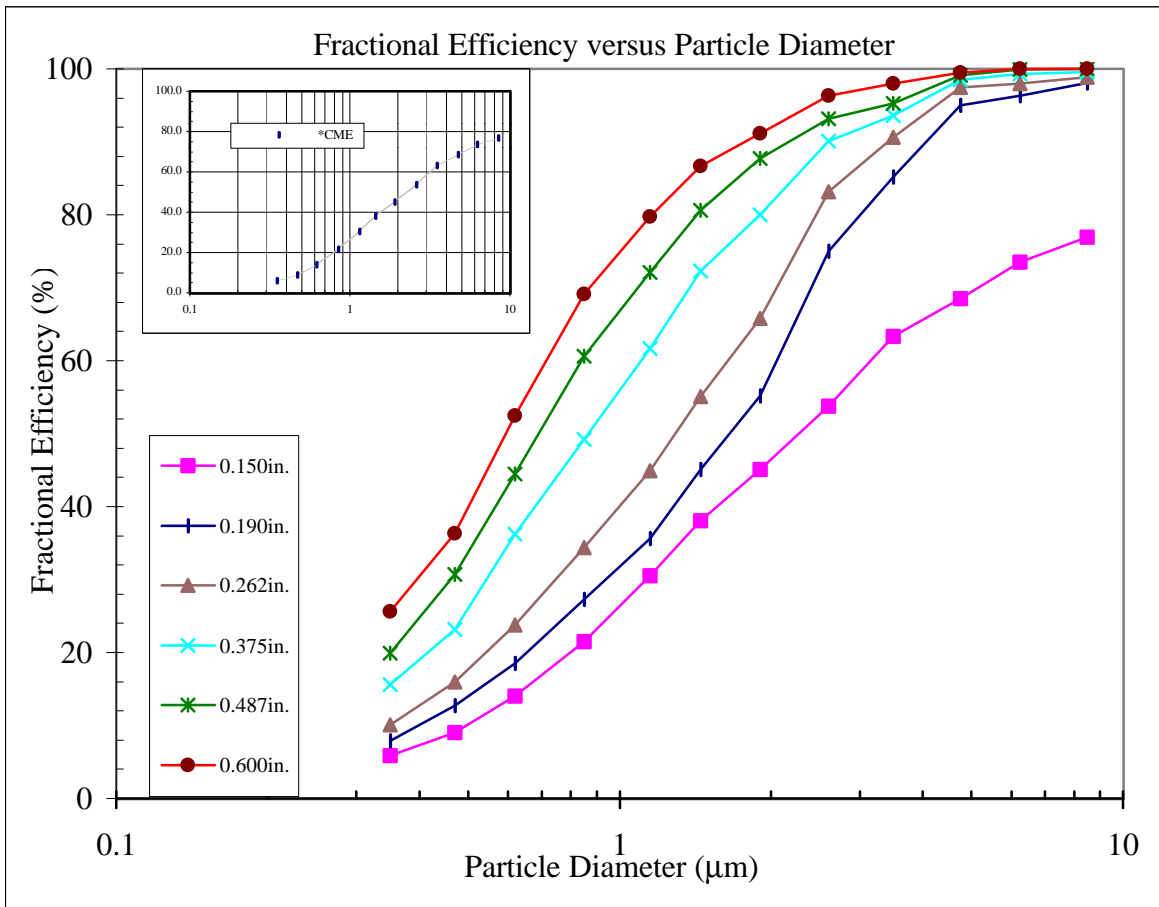
P.O. Box 24185, Edina, MN 55424

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

Date :	December 31, 2002	Requested by :
Filter ID :	High Capacity24x24x1	Filtration Manufacturing
Test Type :	52.2 REP# 409	Manufacturer : Filtration Manufacturing
Test Aerosol :	KCl, Neutralized	Flow Rate: 1180cfm

ΔP (" H ₂ O)	0.150in.	0.190in.	0.262in.	0.375in.	0.487in.	0.600in.	*CME
Size Range (μm)	Fractional Efficiency (%)						
0.3-0.4	5.9	7.9	10.1	15.6	19.9	25.6	5.9
0.4-0.55	9.0	12.7	16.0	23.2	30.7	36.3	9.0
0.55-0.7	14.0	18.5	23.8	36.2	44.5	52.5	14.0
0.7-1.0	21.5	27.3	34.4	49.2	60.6	69.1	21.5
1.0-1.3	30.5	35.6	44.9	61.7	72.1	79.7	30.5
1.3-1.6	38.1	45.1	55.1	72.3	80.6	86.7	38.1
1.6-2.2	45.1	55.2	65.8	80.0	87.7	91.1	45.1
2.2-3.0	53.8	75.0	83.2	90.1	93.2	96.3	53.8
3.0-4.0	63.3	85.2	90.6	93.6	95.3	98.0	63.3
4.0-5.5	68.5	95.0	97.5	98.5	99.1	99.5	68.5
5.5-7.0	73.5	96.3	98.0	99.3	99.9	100.0	73.5
7.0-10.0	76.9	98.1	98.9	99.6	100.0	100.0	76.9

*Composite Minimum Efficiency



TEST SUPERVISOR
MICK FLOM_____

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