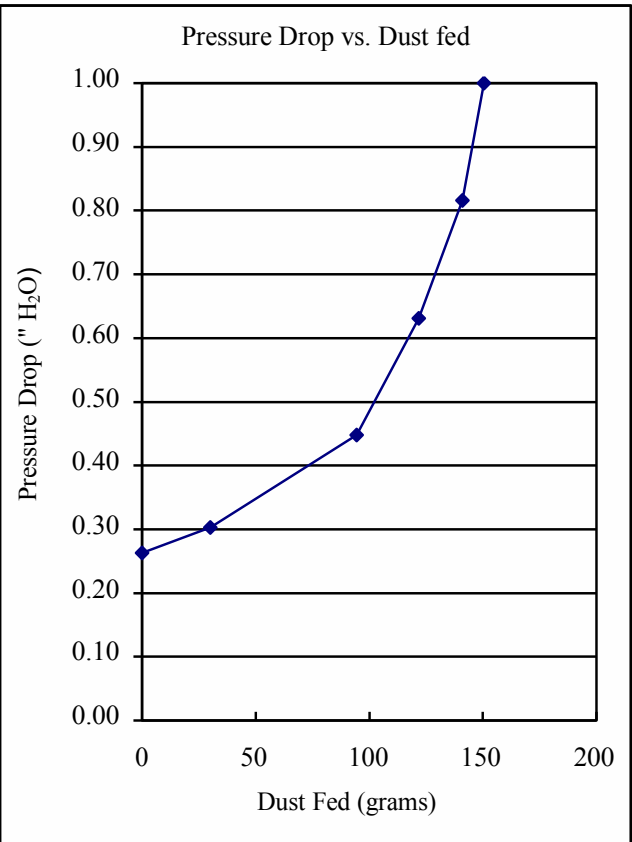
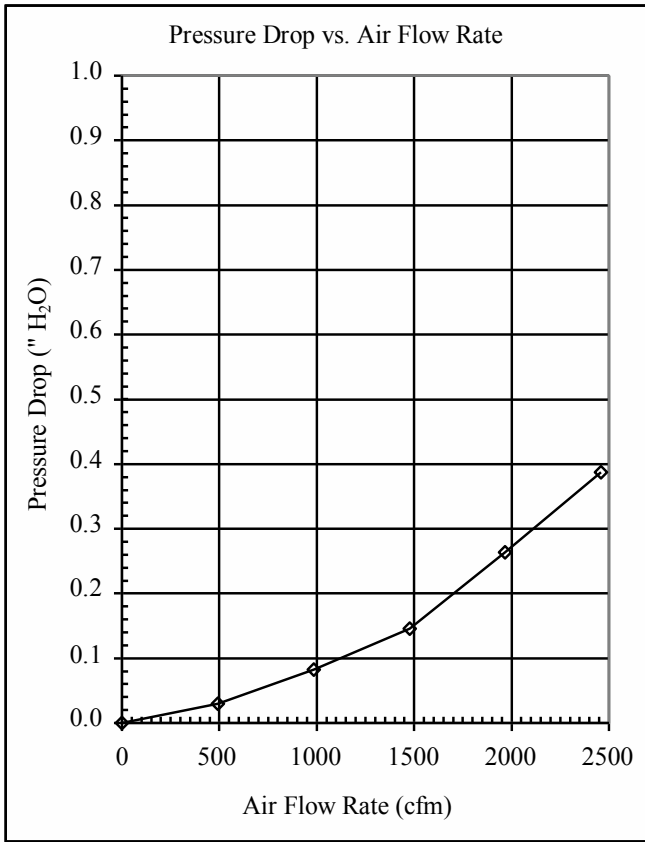


LMS Technologies, Inc.
6423 Cecilia Circle, Bloomington, MN 55439
(952) 918-9060, Fax: (952) 918-9061

Date:	February 27, 2003
Filter ID :	MERV 11 24X24X4
Test Type :	Pressure Drop of Clean Filter for ASHRAE 52.2

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	0.263
492	123	0.75	0.030	25%	30.00	0.303
984	246	2.10	0.083	50%	94.50	0.448
1476	369	3.70	0.146	75%	121.90	0.631
1968	492	6.70	0.264	100%	140.90	0.816
2460	615	9.85	0.388	125%	150.60	1.000

52.2P(sec.9.4)

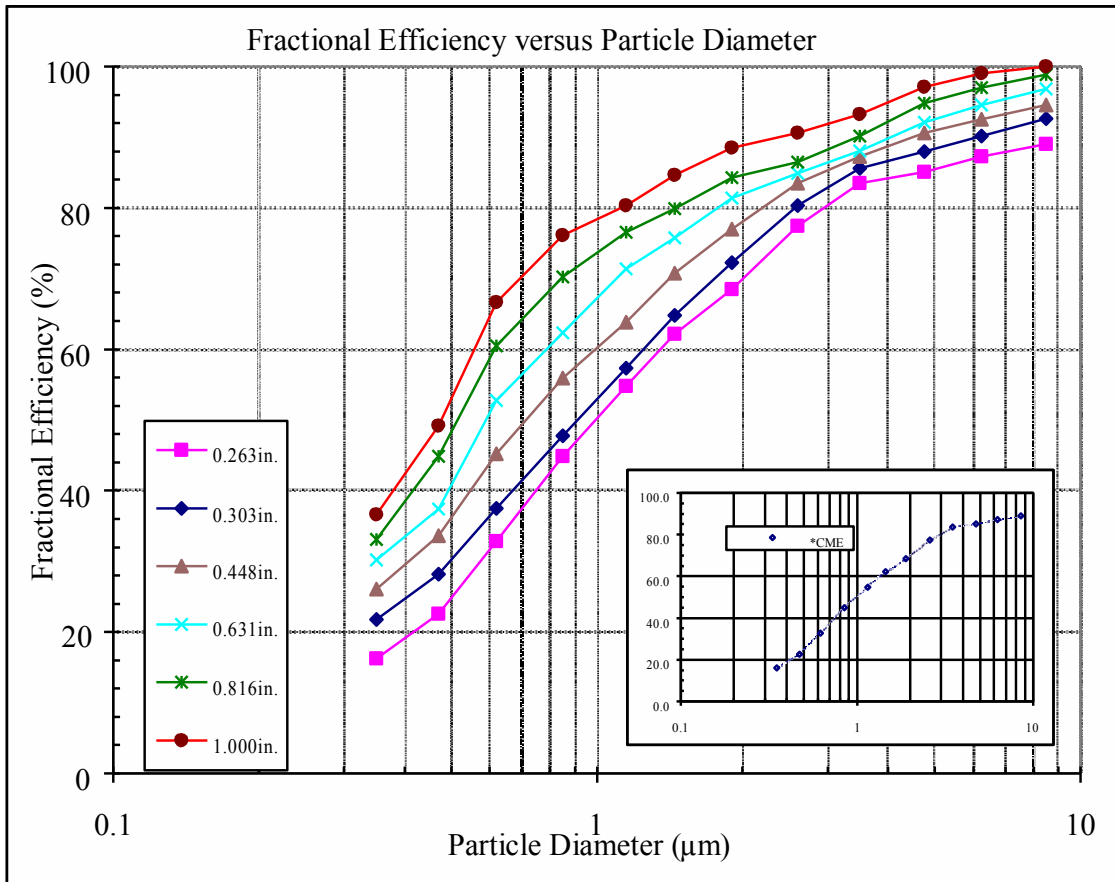


LMS Technologies, Inc.
P.O. Box 24185, Edina, MN 55424
(612) 918-9060, Fax: (612) 918-9061

Date : February 27, 2003	Flow Rate: 1968cfm
Filter ID : MERV 11 24X24X4	
Test Type : 52.2	
Test Aerosol : KCl, Neutralized	

ΔP (" H ₂ O)	0.263in.	0.303in.	0.448in.	0.631in.	0.816in.	1.000in.	*CME
Size Range (μm)	Fractional Efficiency (%)						
0.3-0.4	16.2	21.8	26.1	30.2	33.1	36.6	16.2
0.4-0.55	22.6	28.2	33.6	37.4	44.9	49.2	22.6
0.55-0.7	32.8	37.5	45.2	52.8	60.5	66.6	32.8
0.7-1.0	44.9	47.8	55.9	62.3	70.2	76.1	44.9
1.0-1.3	54.8	57.3	63.8	71.4	76.6	80.3	54.8
1.3-1.6	62.2	64.8	70.8	75.8	79.9	84.6	62.2
1.6-2.2	68.5	72.3	77.0	81.4	84.3	88.5	68.5
2.2-3.0	77.4	80.3	83.5	84.9	86.5	90.6	77.4
3.0-4.0	83.5	85.6	87.3	88.1	90.2	93.2	83.5
4.0-5.5	85.1	88.0	90.6	92.1	94.8	97.1	85.1
5.5-7.0	87.3	90.2	92.5	94.6	97.0	99.0	87.3
7.0-10.0	89.0	92.6	94.6	96.8	98.9	100.0	89.0

*Composite Minimum Efficiency



TEST SUPERVISOR
MICK FLOM _____

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