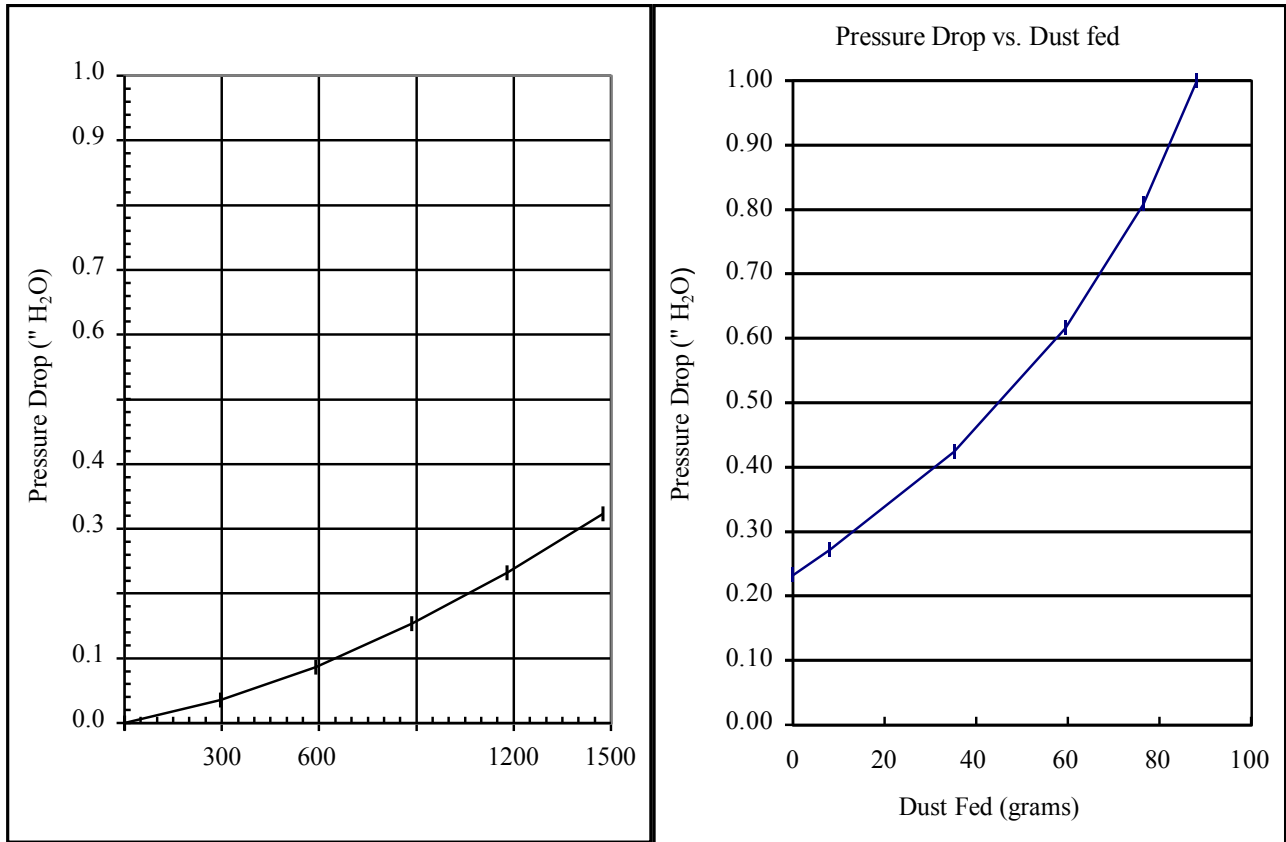


LMS Technologies, Inc.
6423 Cecilia Circle, Bloomington, MN 55439
(952) 918-9060, Fax: (952) 918-9061

Date: December 31, 2002 Filter ID : MERV 11 24x24x1 Test Type : Pressure Drop of Clean Filter for ASHRAE 52.2	
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Flow Rate (CFM)	Velocity FPM	dP (mm H2O)	Pressure drop	% of Rated Airflow	Dust fed	Pressure drop
0	0	0.00	0.000	0%	0.00	0.232
295	74	0.90	0.035	25%	8.00	0.272
590	148	2.20	0.087	50%	35.20	0.424
885	221	3.90	0.154	75%	59.50	0.616
1180	295	5.90	0.232	100%	76.50	0.808
1475	369	8.20	0.323	125%	88.20	1.000

52.2P (sec.9.4)

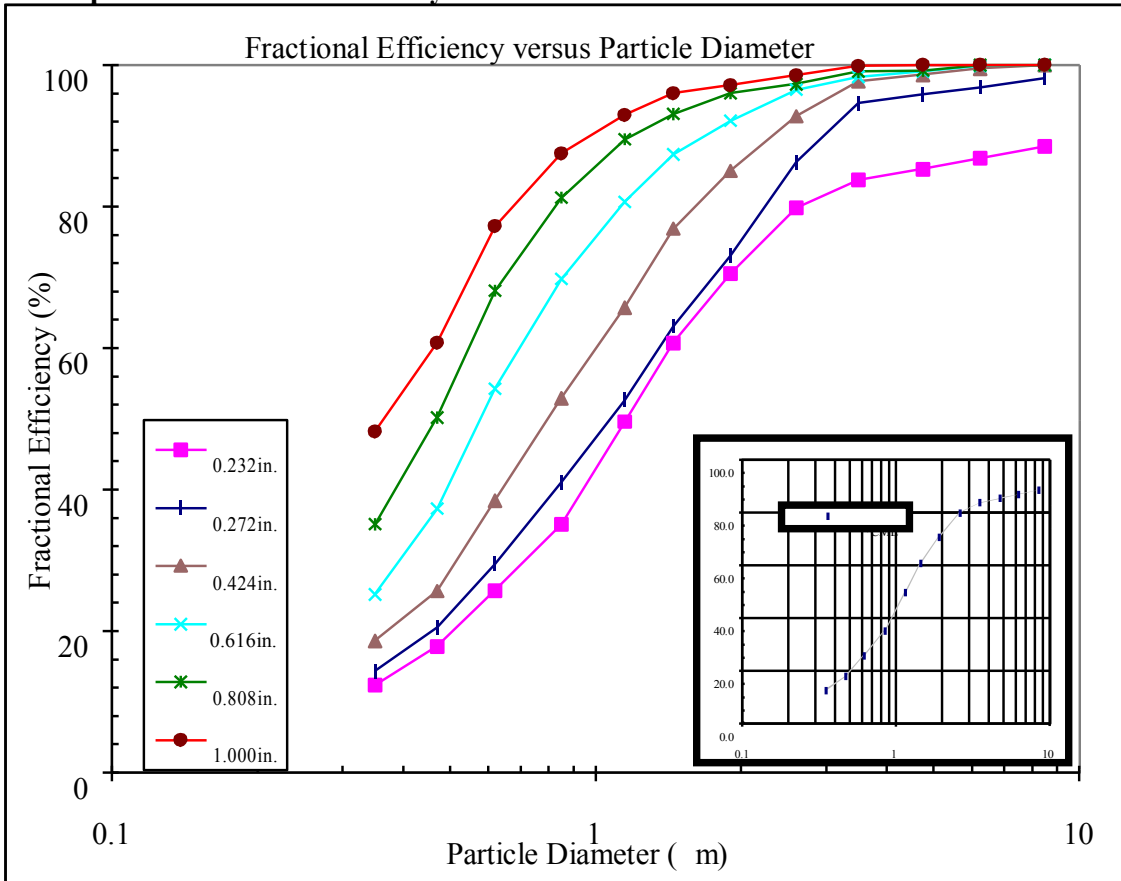


LMS Technologies, Inc.
P.O. Box 24185, Edina, MN 55424
(612) 918-9060, Fax: (612) 918-9061

Date :	December 31, 2002	
Filter ID :	MERV 11	24x24x1
Test Type :	52.2	
Test Aerosol :	KCl, Neutralized	

P (" H ₂ O)	0.232in.	0.272in.	0.424in.	0.616in.	0.808in.	1.000in.	*CME
Size Range (m)	Fractional Efficiency (%)						
0.3-0.4	12.4	14.3	18.6	25.2	35.1	48.2	12.4
0.4-0.55	17.8	20.4	25.6	37.3	50.2	60.7	17.8
0.55-0.7	25.7	29.5	38.4	54.2	68.1	77.2	25.7
0.7-1.0	35.1	41.0	52.9	69.7	81.2	87.5	35.1
1.0-1.3	49.6	52.6	65.7	80.6	89.5	92.9	49.6
1.3-1.6	60.7	63.1	76.8	87.4	93.1	96.0	60.7
1.6-2.2	70.5	73.0	85.0	92.1	96.0	97.1	70.5
2.2-3.0	79.8	86.2	92.7	96.5	97.3	98.5	79.8
3.0-4.0	83.8	94.6	97.6	98.3	99.0	99.8	83.8
4.0-5.5	85.3	95.8	98.6	99.0	99.2	100.0	85.3
5.5-7.0	86.8	96.8	99.5	99.8	100.0	100.0	86.8
7.0-10.0	88.5	98.2	100.0	100.0	100.0	100.0	88.5

*Composite Minimum Efficiency



TEST SUPERVISOR
MICK FLOM _____

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