

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>Tri-Dim</u>	Report #: 683 Test Date: 02/02/04
Manufacturer:	<u>Tri-Dim</u>	
Product Name:	<u>LX 8 LE</u>	
Model Number:	<u>2302424208</u>	
Dimensions:	<u>24x24x2</u>	
Number of Pleats:	<u>19 Pleats</u>	
Filter Description:	<u>White synthetic pleat filter</u>	
How Filter Obtained:	<u>Open market purchase</u>	

Test Results

Test Air Flow Rate(CFM)/Velocity (FPM)	<u>1968 cfm/492 fpm</u>
Initial Resistance (in. WG)	<u>0.287</u>
Final Resistance (in. WG)	<u>1.0</u>
Minimum Efficiency Rating Value (MERV)	<u>MERV 8 @ 1968cfm</u>
Minimum Average Efficiency 0.3 to 1.0 Microns (E1)	<u>26.3</u>
Minimum Average Efficiency 1.0 to 3.0 Microns (E2)	<u>54.7</u>
Minimum Average Efficiency 3.0 to 10 Microns (E3)	<u>72</u>
Dust Fed to Final Resistance(grams)	<u>89.6 grams</u>

Test Description

Temp & Humidity:	<u>70 @ 30%</u>
Particle Analysis:	<u>Hiac/Royco FE-80</u>
Test Dust:	<u>ASHRAE 52.1 Dust</u>
Test Aerosol:	<u>KCL Neutralized</u>

Test Engineer :	<u>Mick Flom/Tom Atef/Kian Imani/Emile Tadros</u>
Approved By:	<u>K. C. Kwok, Ph.D.</u>

Distributed by:

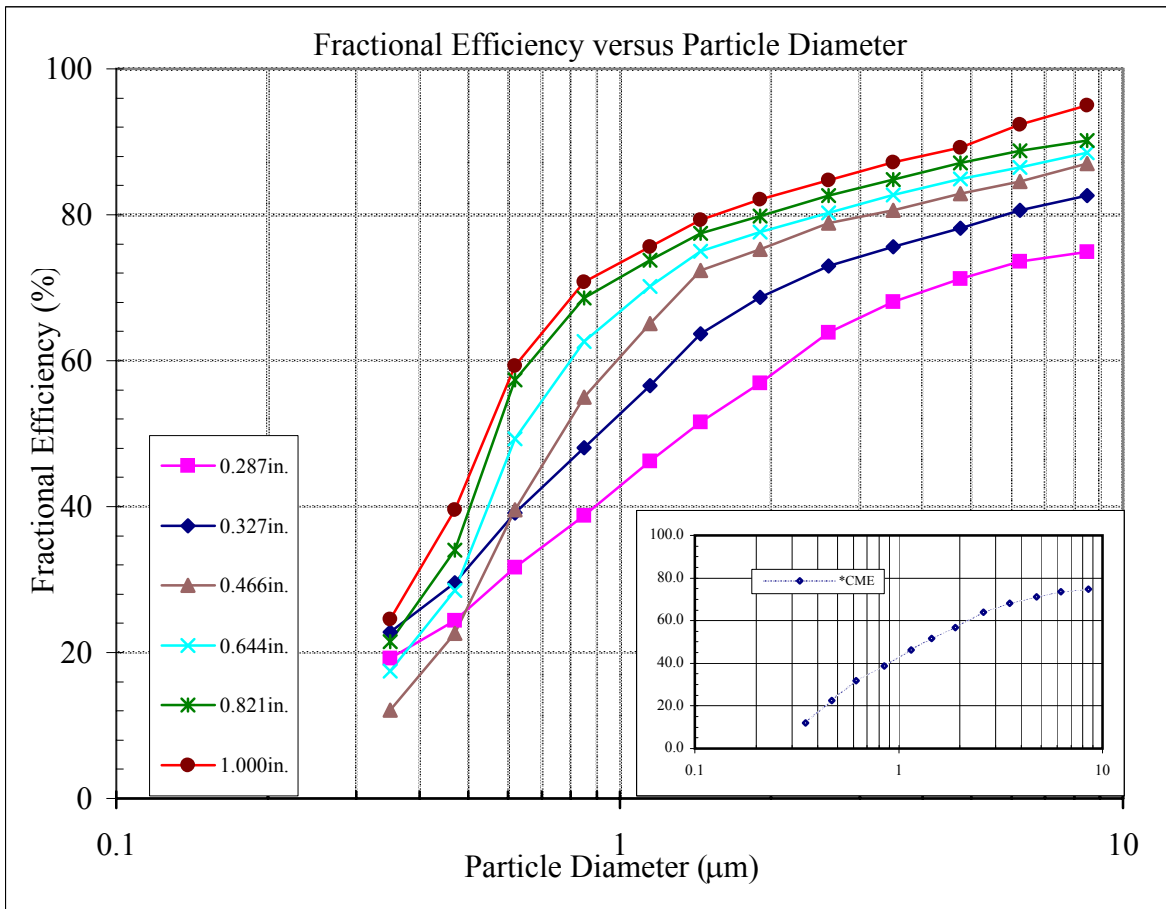
NELSON JAMESON
INC.
800-826-8302 nelsonjameson.com

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

Date :	February 2, 2004	Requested by :
Filter ID :	LX 8 LE	Tri-Dim
Test Type :	52.2 REP# 683	Manufacturer : Tri-Dim
Test Aerosol :	KCl, Neutralized	Flow Rate: 1968 cfm

ΔP (" H ₂ O)	0.287in.	0.327in.	0.466in.	0.644in.	0.821in.	1.000in.	*CME
Size Range (μm)	Fractional Efficiency (%)						
0.3-0.4	19.2	22.8	12.1	17.5	21.5	24.6	12.1
0.4-0.55	24.4	29.6	22.6	28.5	34.0	39.6	22.6
0.55-0.7	31.7	39.1	39.6	49.3	57.4	59.3	31.7
0.7-1.0	38.8	48.1	55.0	62.6	68.6	70.8	38.8
1.0-1.3	46.2	56.6	65.1	70.2	73.8	75.6	46.2
1.3-1.6	51.6	63.7	72.4	75.0	77.5	79.3	51.6
1.6-2.2	56.9	68.7	75.3	77.6	79.8	82.1	56.9
2.2-3.0	63.9	73.0	78.9	80.3	82.6	84.7	63.9
3.0-4.0	68.1	75.6	80.6	82.7	84.8	87.2	68.1
4.0-5.5	71.2	78.2	82.9	84.9	87.1	89.2	71.2
5.5-7.0	73.6	80.6	84.6	86.5	88.8	92.4	73.6
7.0-10.0	74.9	82.6	87.0	88.5	90.2	95.0	74.9

***Composite Minimum Efficiency**



TEST SUPERVISOR
MICK FLOM _____

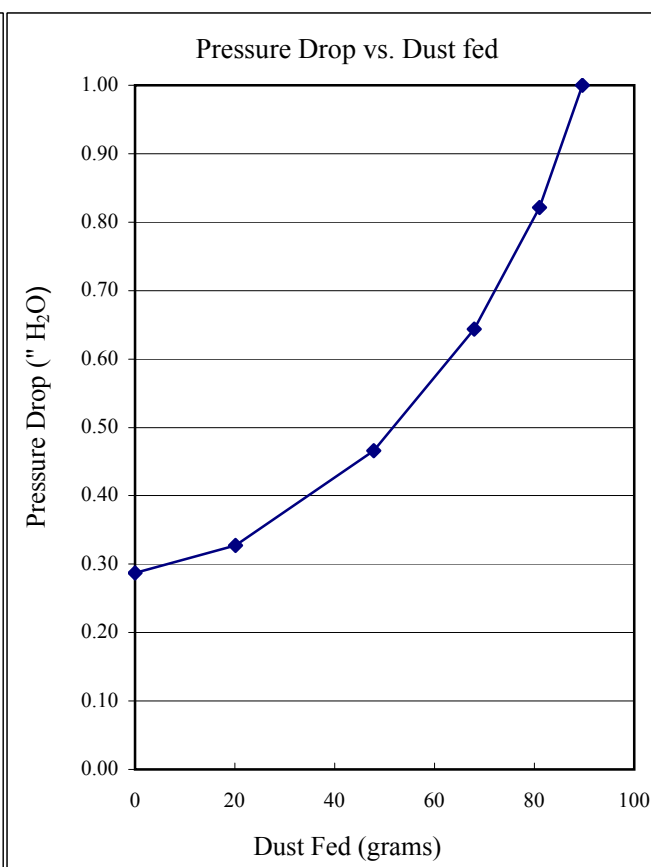
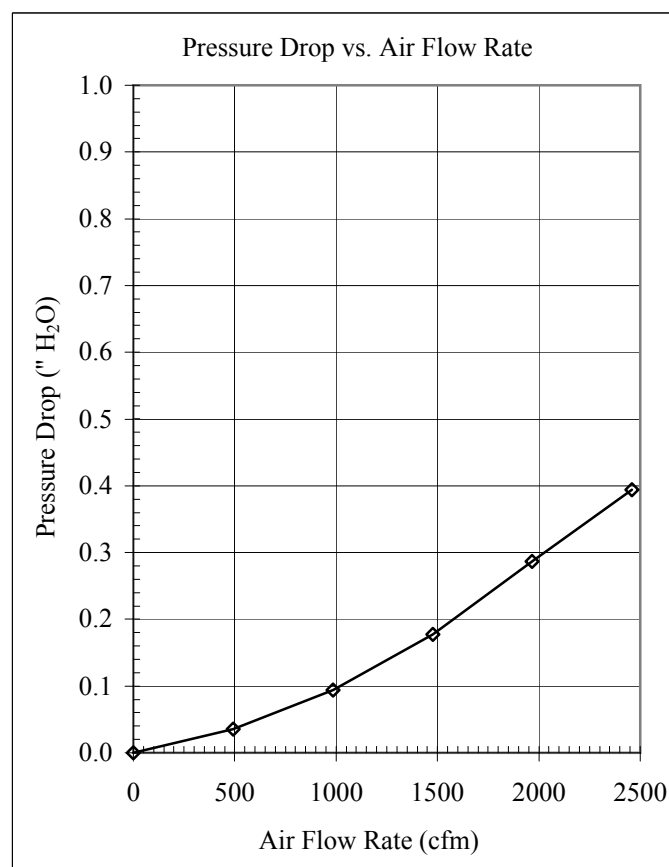
ENGINEERING APPROVAL
K.C. KWOK, PH.D. _____

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Date:	February 2, 2004	Test Requested by :
Filter ID :	LX 8 LE	Tri-Dim
Test Type :	Pressure Drop of Clean Filter for ASHRAE 52.2 REP# 683	Filter Manufacturer : Tri-Dim

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	0.287
492	123	0.90	0.035	25%	20.10	0.327
984	246	2.40	0.094	50%	47.80	0.466
1476	369	4.50	0.177	75%	68.00	0.644
1968	492	7.30	0.287	100%	81.00	0.821
2460	615	10.00	0.394	125%	89.60	1.000

52.2P (sec.9.4)



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DPI