

**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>SAN HUEI UNITED CO., LTD.</u>	Report #: 420
		Test Date: 02/18/03
Manufacturer:	<u>SAN HUEI UNITED CO., LTD.</u>	
Product Name:	<u>Light blue bag</u>	
Model Number:	<u>TPB-99-30/8</u>	
Dimensions:	<u>60 cmX 60cmX 75cm</u>	
Number of Pockets:	<u>8 Pockets</u>	
Filter Description:	<u>Light blue on white synthetic bag filter</u>	
How Filter Obtained:	<u>Provided by manufacturer</u>	

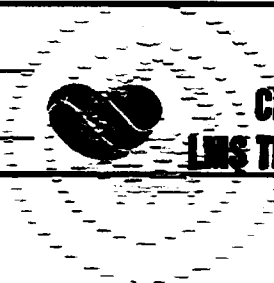
**Test Results**

Test Air Flow Rate(CFM)/Velocity (FPM)	<u>1968cfm/492fpm</u>
Initial Resistance (in. WG)	<u>0.447</u>
Final Resistance (in. WG)	<u>1.6</u>
Minimum Efficiency Rating Value (MERV)	<u>MERV 16 @ 1968cfm</u>
Minimum Average Efficiency 0.3 to 1.0 Microns (E1)	<u>95.2</u>
Minimum Average Efficiency 1.0 to 3.0 Microns (E2)	<u>99</u>
Minimum Average Efficiency 3.0 to 10.0 Microns (E)	<u>99.8</u>
Dust Fed to Final Resistance(grams)	<u>221.1grams</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>



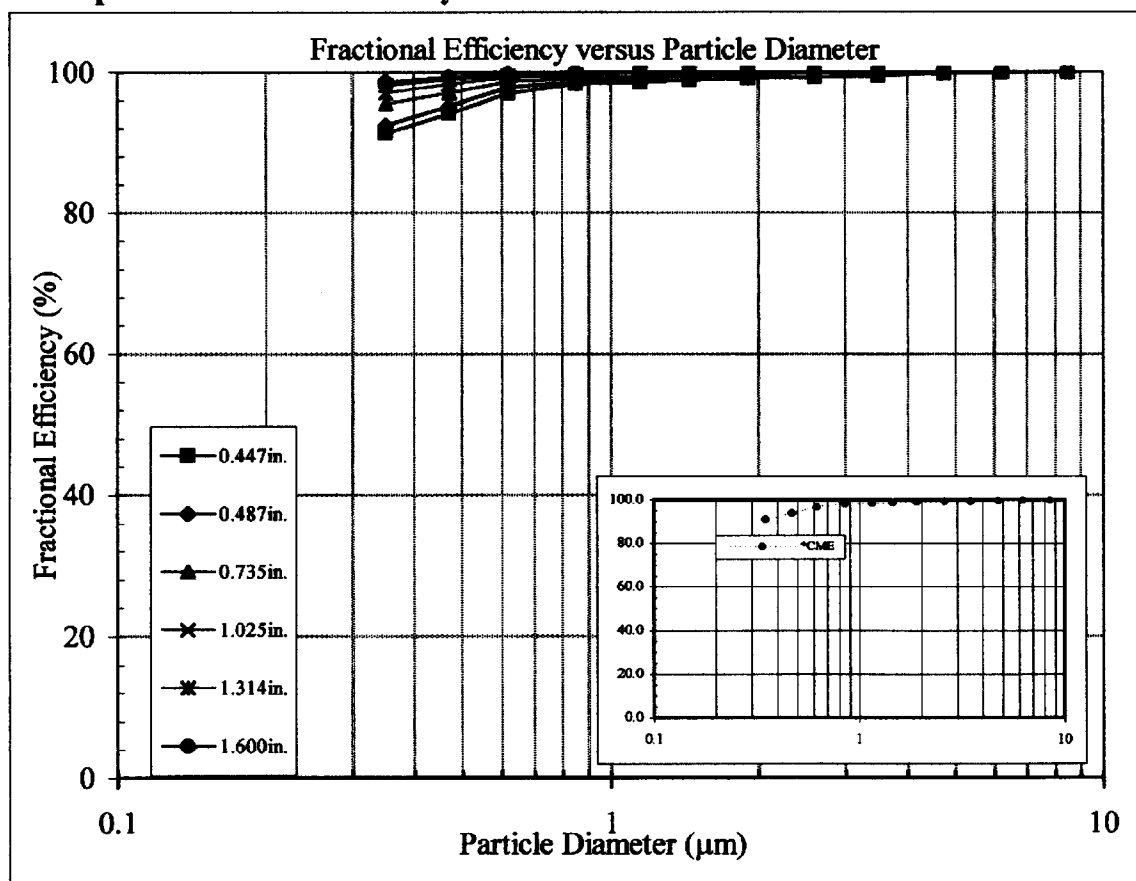
**CERTIFIED COPY**  
**LMS TECHNOLOGIES, INC.**

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

Date :	February 18, 2003	Requested by :	SAN HUEI UNITED CO., LTD.
Filter ID :	TPB-99-30/8	Manufacturer :	SAN HUEI
Test Type :	52.2 <b>REP# 420</b>	Flow Rate:	1968cfm
Test Aerosol :	KCl, Neutralized		

ΔP (" H <sub>2</sub> O)	0.447in.	0.487in.	0.735in.	1.025in.	1.314in.	1.600in.	*CME
Size Range (μm)	Fractional Efficiency (%)						
0.3-0.4	91.3	92.5	95.5	97.1	98.2	98.6	91.3
0.4-0.55	94.1	95.2	97.1	98.3	99.0	99.3	94.1
0.55-0.7	97.0	97.9	98.7	99.3	99.6	99.8	97.0
0.7-1.0	98.3	98.6	99.1	99.6	99.7	100.0	98.3
1.0-1.3	98.6	99.1	99.4	99.9	100.0	100.0	98.6
1.3-1.6	98.9	99.4	99.7	100.0	100.0	100.0	98.9
1.6-2.2	99.1	99.6	99.9	100.0	100.0	100.0	99.1
2.2-3.0	99.3	99.9	100.0	100.0	100.0	100.0	99.3
3.0-4.0	99.5	100.0	100.0	100.0	100.0	100.0	99.5
4.0-5.5	99.8	100.0	100.0	100.0	100.0	100.0	99.8
5.5-7.0	99.9	100.0	100.0	100.0	100.0	100.0	99.9
7.0-10.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

\*Composite Minimum Efficiency



TEST SUPERVISOR  
MICK FLOM \_\_\_\_\_

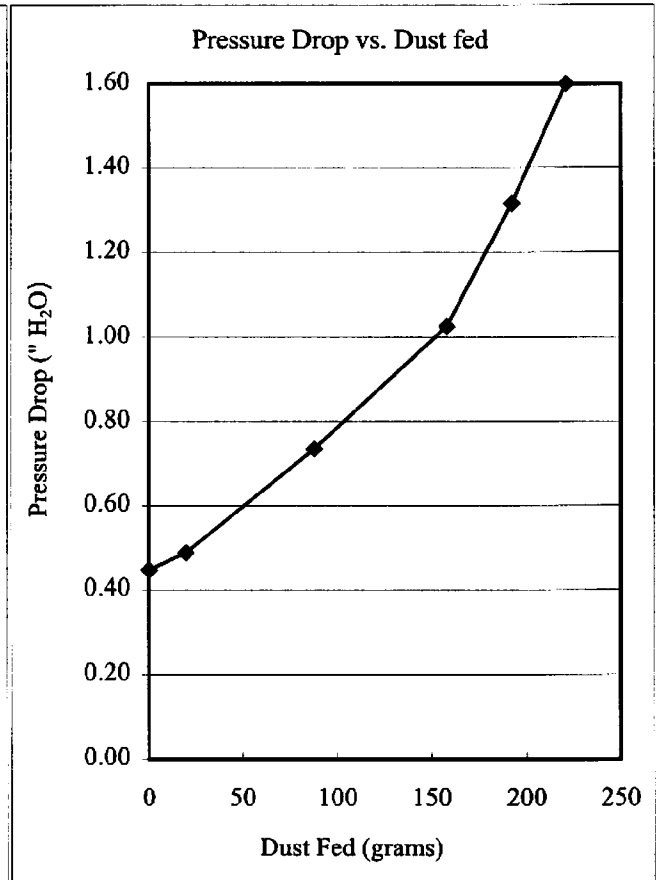
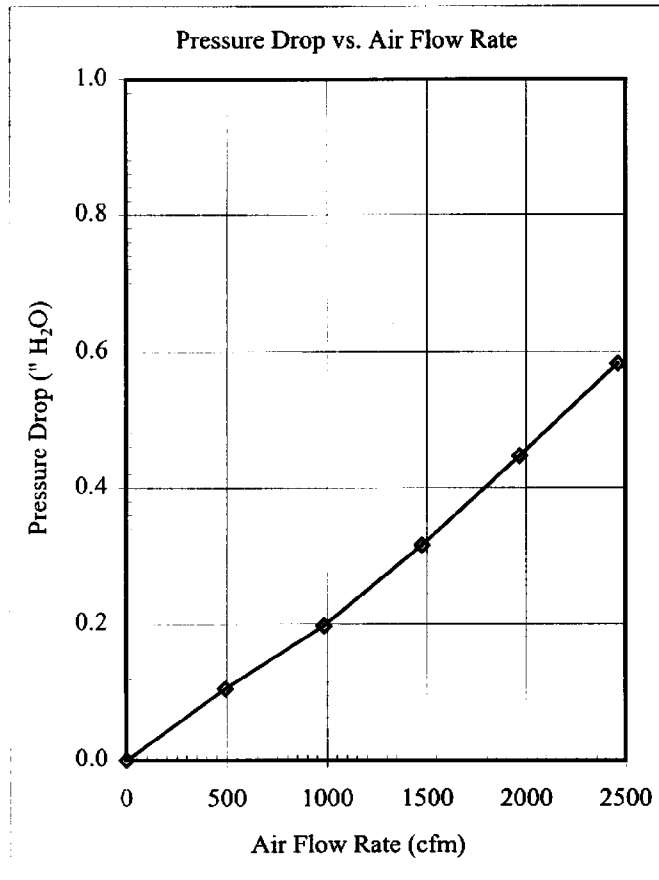
ENGINEERING APPROVAL  
K.C. KWOK, PH.D. \_\_\_\_\_

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

Date: February 18, 2003 Filter ID : TPB-99-30/8 Test Type : Pressure Drop of Clean Filter for ASHRAE 52.2 <b>REP# 420</b>	Test Requested by : SAN HUEI UNITED CO., LTD. Filter Manufacturer : SAN HUEI UNITED CO., LTD.
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Flow Rate (CFM)	Velocity FPM	dP (mm H <sub>2</sub> O)	Pressure drop ("H <sub>2</sub> O)	% of Rated Airflow	Dust fed	Pressure drop
0	0	0.00	0.000	0%	0.00	0.447
492	123	2.68	0.106	25%	19.70	0.487
984	246	5.00	0.197	50%	87.90	0.735
1476	369	8.00	0.315	75%	158.10	1.025
1968	492	11.35	0.447	100%	192.40	1.314
2460	615	14.80	0.583	125%	221.10	1.600

52.2P (sec.9.4)



TEST SUPERVISOR  
 MICK FLOM \_\_\_\_\_

ENGINEERING APPROVAL  
 K.C.KWOK PH.D. \_\_\_\_\_

DPI