



LMS TECHNOLOGIES, INC.

6423 Cecilia Circle

Bloomington, MN 55439

(952) 918-9060, Fax: (952) 918-9061

Test Report-ASHRAE Test Standard 52.2-2017 (New Classification)

Test Requested By: Airquality Technology (Shanghai) Co., Ltd
Manufacturer: Airquality Technology (Shanghai) Co., Ltd
Product Name: Model FAH
Dimensions: 61 cm x 37 cm x 15 cm
Filter Description: Micro Electrostatic Precipitator
How Filter Obtained: Provided by Airquality Technology (Shanghai) Co., Ltd

Report #: 4004

Test Date: 11/07/2018



Test Results

Test Air Flow Velocity (M/s)	<u>2.5 m/s</u>
Initial Resistance (in. WG)	<u>49.5 pa</u>
Final Resistance (in. WG)	<u>57.0 pa</u>
Minimum Efficiency Rating Value (MERV)	<u>MERV 14 @ 2.5 m/s</u>
Minimum Average Efficiency 0.3 to 1.0 Microns (E1)	<u>77.9</u>
Minimum Average Efficiency 1.0 to 3.0 Microns (E2)	<u>90.7</u>
Minimum Average Efficiency 3.0 to 10 Microns (E3)	<u>98.4</u>
Dust Fed to Final Resistance (grams)	<u>20.0 grams</u>
Dust Holding Capacity (grams)	<u>18.7 grams</u>
Arrestance:	<u>91.8%</u>

Test Description

Temp & Humidity: 21° C @ 40%
Particle Analysis: Met One 3400
Test Dust: ASHRAE 52.1 Dust No Carbon
Test Aerosol: KCl, Neutralized
LMS#: 5298

Test Engineer : Emile Tadros/Kevin Kwong/Pat Best/Jose Tizcareno/Kia Kiantaj

Approved By: K. C. Kwok, Ph.D.

Data verified by LMS Calibration filter* Patent Pending

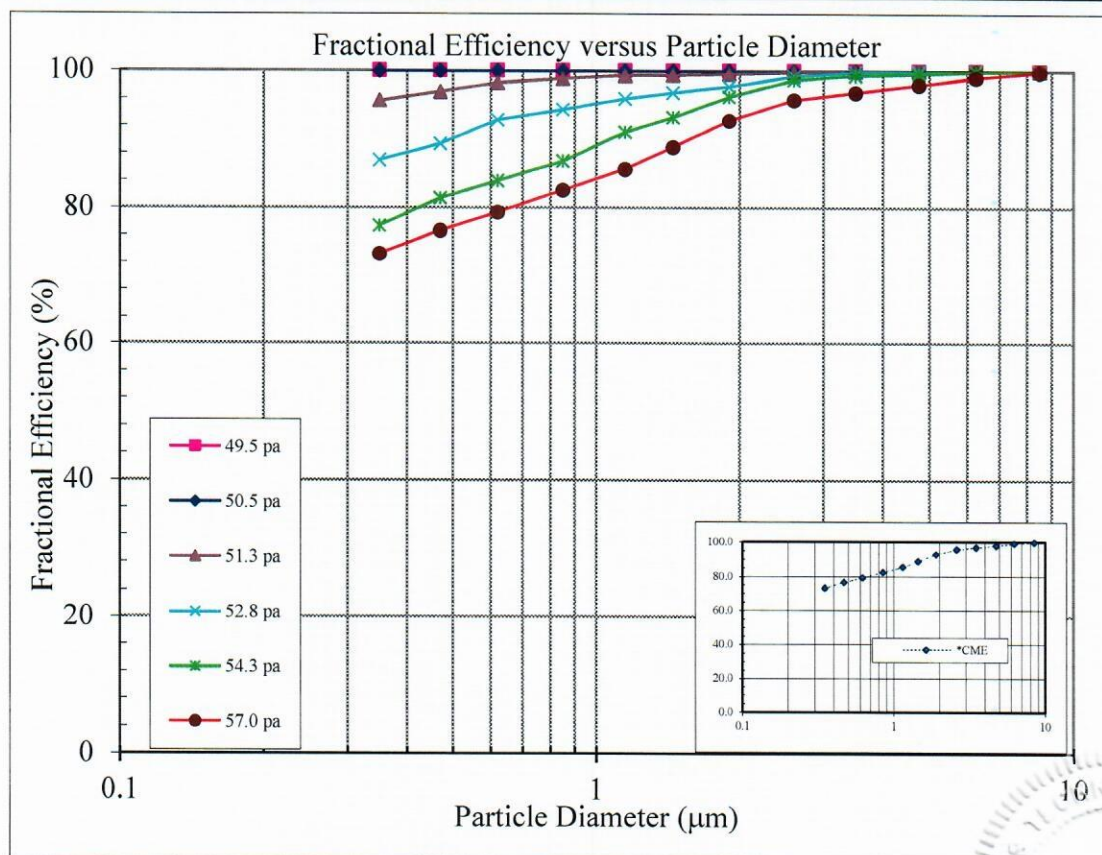


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Date :	November 26, 2018	Requested by :
Filter ID :	Model FAH	Airquality Technology (Shanghai) Co., Ltd
Test Type :	52.2-2017 REP# 4004	Manufacturer :
Test Aerosol :	KCl, Neutralized	Airquality Technology (Shanghai) Co., Ltd

ΔP (pascal)	49.5 pa	50.5 pa	51.3 pa	52.8 pa	54.3 pa	57.0 pa	*CME
Size Range (μm)	Fractional Efficiency (%)						
0.3-0.4	99.990	99.952	95.6	86.9	77.3	73.2	73.2
0.4-0.55	99.996	99.971	96.9	89.3	81.4	76.6	76.6
0.55-0.7	99.998	99.983	98.2	92.8	83.9	79.3	79.3
0.7-1.0	100.000	99.989	98.8	94.3	86.8	82.5	82.5
1.0-1.3	100.000	99.995	99.3	95.9	91.0	85.6	85.6
1.3-1.6	100.000	99.998	99.4	96.8	93.2	88.8	88.8
1.6-2.2	100.000	99.999	99.6	97.7	96.2	92.7	92.7
2.2-3.0	100.000	100.000	99.8	99.2	98.7	95.7	95.7
3.0-4.0	100.000	100.000	99.9	99.8	99.3	96.8	96.8
4.0-5.5	100.000	100.000	100.0	99.9	99.6	97.9	97.9
5.5-7.0	100.000	100.000	100.0	100.0	99.9	99.0	99.0
7.0-10.0	100.000	100.000	100.0	100.0	100.0	99.8	99.8



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

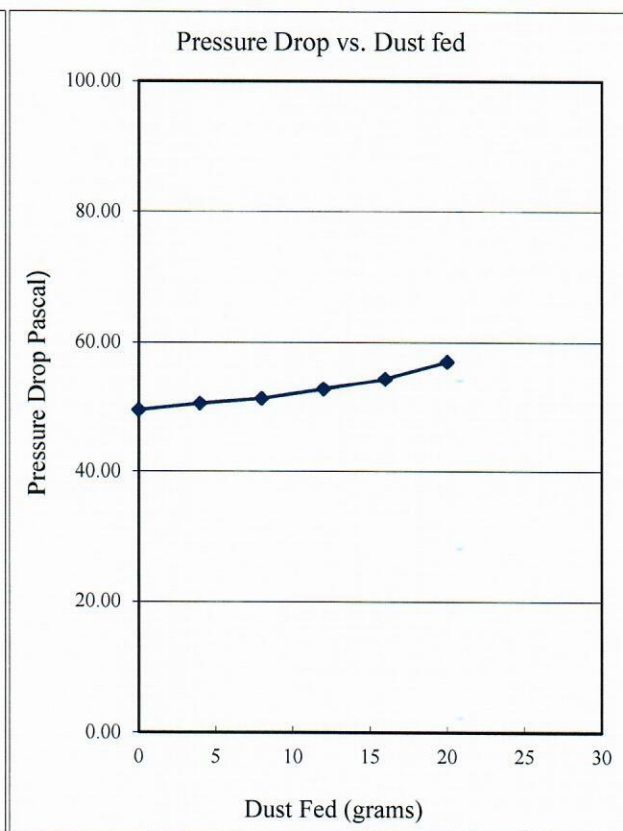
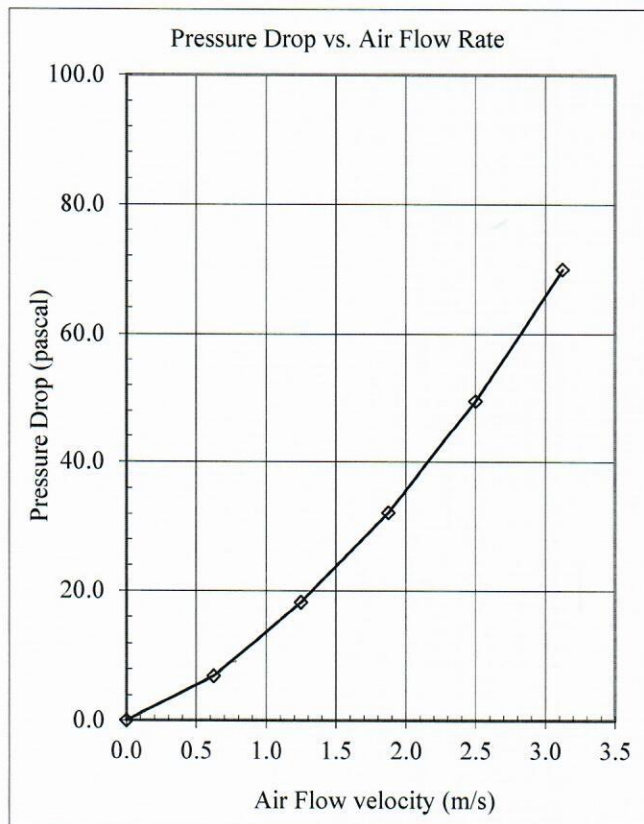


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Date:	November 26, 2018	Test Requested by :
Filter ID :	Model FAH	Airquality Technology (Shanghai) Co., Ltd
Test Type :	Pressure Drop of Clean Filter	Filter Manufacturer :
	For ASHRAE 52.2-2017 REP# 4004	Airquality Technology (Shanghai) Co., Ltd

Velocity m/s		dP (mm H ₂ O)	Pressure drop (Pa)	% of Rated Airflow	Dust fed	Pressure drop pascal
0		0.00	0.0	0%	0.00	49.5
0.625		0.70	6.9	25%	4.00	50.5
1.250		1.85	18.2	50%	8.00	51.3
1.875		3.27	32.2	75%	12.00	52.8
2.500		5.03	49.5	100%	16.00	54.3
3.125		7.10	69.9	125%	20.00	57.0



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