

LMS TECHNOLOGIES, INC.

6423 Cecilia Circle

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Website: www.lmstechnologiesinc.com

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

Test Requested By:	<u>AirQuality Technology(Shanghai) Co., Ltd.</u>	Test Date: <u>9/23/2025</u>
Manufacturer:	<u>AirQuality Technology(Shanghai) Co., Ltd.</u>	Report #: <u>7275</u>
Filter ID:	<u>EAf</u>	
Part #:	<u>N/A</u>	
Dimensions inches:	<u>20" X 20" X 2"</u>	
Dimensions mm:	<u>495X 495X 47 mm</u>	
Filter Description:	<u>Electronic Air Filter</u>	
How Filter Obtained	<u>Provided By AirQuality Technology(Shanghai) Co., Ltd.</u>	



Test Results

Test Air Flow Rate(CFM)/(CMH)	<u>650 cfm / 1100 cmh</u>
Initial Resistance (in. WG)/(Pa)	<u>0.091" / 23.11 Pa</u>
Final Resistance (in. WG)/(Pa)	<u>0.097" / 24.64Pa</u>
Minimum Efficiency Rating Value (MERV)	<u>MERV 14 @ 650 cfm</u>
Minimum Average Efficiency 0.3 to 1.0 Microns (E1)	<u>80.3</u>
Minimum Average Efficiency 1.0 to 3.0 Microns (E2)	<u>92.8</u>
Minimum Average Efficiency 3.0 to 10 Microns (E3)	<u>98.3</u>
Dust Fed to Final Resistance (grams)	<u>10 grams</u>
Dust Holding Capacity (grams)	<u>8 grams</u>
Arrestance:	<u>80.0%</u>

Test Description

Temp & Humidity:	<u>70° F @ 40%</u>
Particle Analysis:	<u>Met One 3400</u>
Test Dust:	<u>ASHRAE Dust (No Carbon)</u>
Test Aerosol:	<u>KCl, Neutralized</u>
LMS#:	<u>10435</u>

Data verified by LMS Calibration filter* Patent Pending

AP Vate

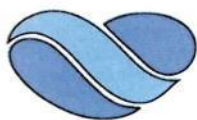


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LMS TECHNOLOGIES, INC.

Test Engineer:
Kevin Kwong, Pat-Best, Jose Tizcareno
Balakiyem Katariga

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Engineering Approval:
K.C. Kwok, PH.D. _____



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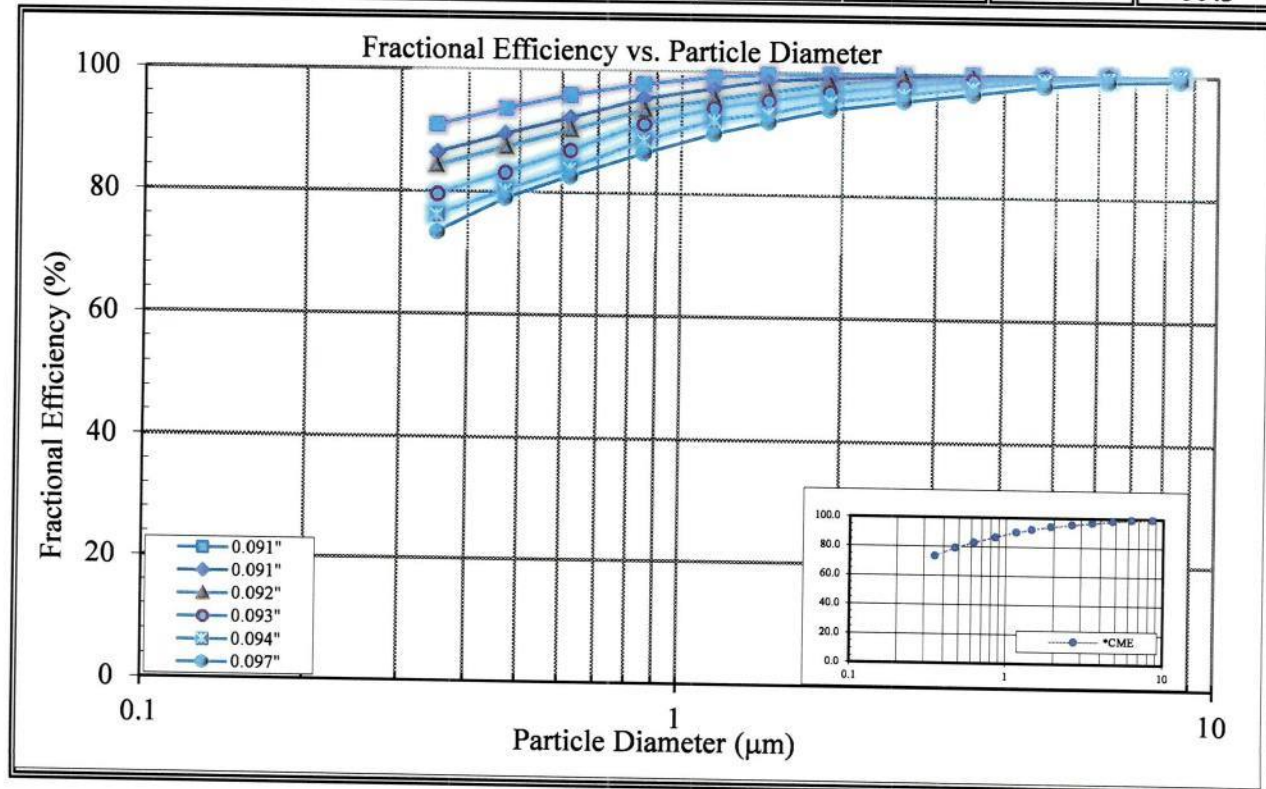
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Date :	September 23, 2025	Requested by :	AirQuality Technology(Shanghai) Co., Ltd.
Filter ID:	EAF	Manufacturer :	AirQuality Technology(Shanghai) Co., Ltd.
Test Type :	52.2 - 2017		
Test Aerosol :	KCl, Neutralized		
Report #:	7275		

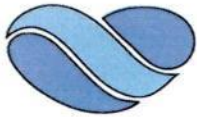
ΔP (" H ₂ O)	0.091"	0.091"	0.092"	0.093"	0.094"	0.097"	*CME
Size Range (μm)							
0.3-0.4	90.8	86.3	84.2	79.6	76.2	73.3	73.3
0.4-0.55	93.7	89.5	87.3	83.2	80.3	78.9	78.9
0.55-0.7	96.0	92.2	90.2	86.9	83.9	82.6	82.6
0.7-1.0	97.9	95.5	93.6	91.3	88.6	86.5	86.5
1.0-1.3	99.2	97.3	95.5	94.1	92.1	89.8	89.8
1.3-1.6	99.7	98.6	96.8	95.4	93.3	91.8	91.8
1.6-2.2	99.8	99.2	98.2	96.9	95.4	94.0	94.0
2.2-3.0	99.9	99.6	99.3	98.1	96.7	95.5	95.5
3.0-4.0	100.0	99.8	99.5	99.1	98.0	96.8	96.8
4.0-5.5	100.0	99.9	99.7	99.6	99.2	98.2	98.2
5.5-7.0	100.0	100.0	99.9	99.9	99.6	99.0	99.0
7.0-10.0	100.0	100.0	100.0	100.0	100.0	99.3	99.3



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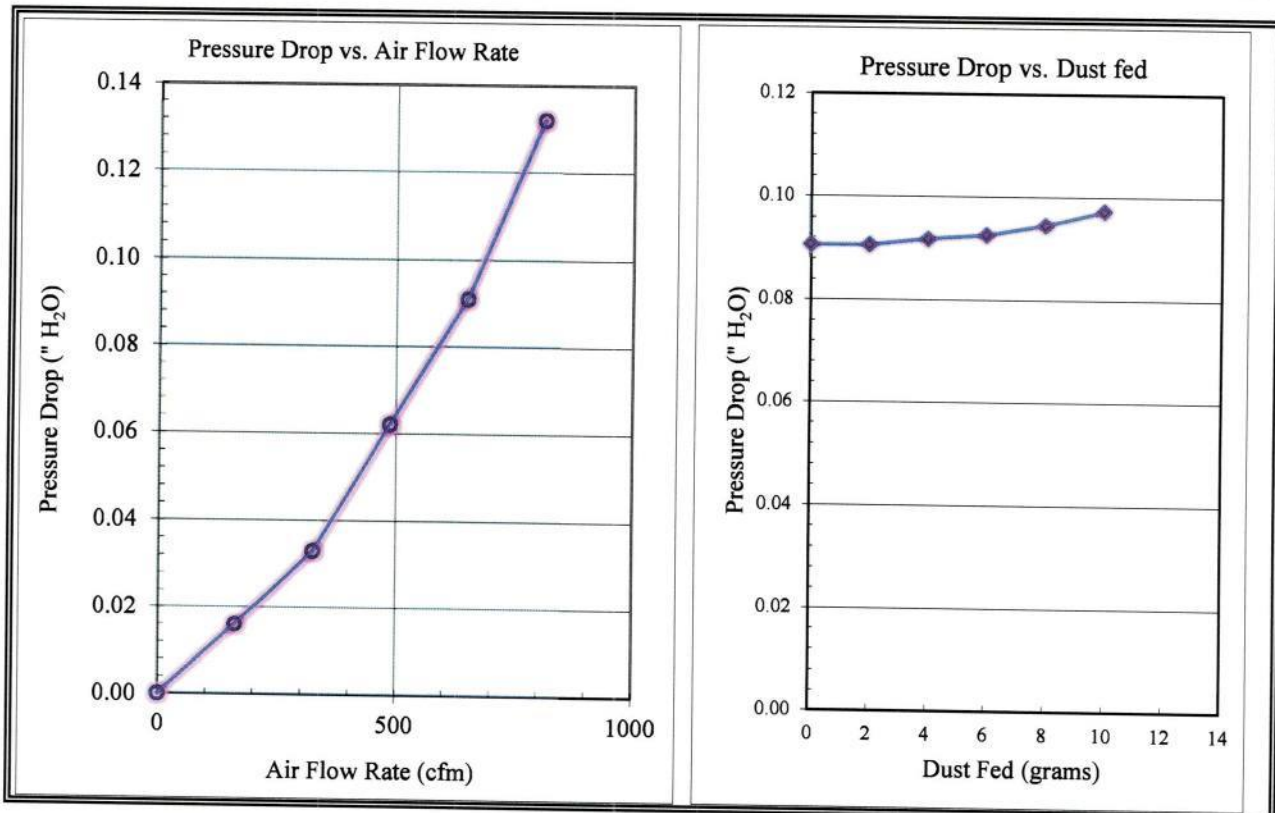
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Date:	September 23, 2025	Test Requested by :	AirQuality Technology(Shanghai) Co., Ltd.
Filter ID:	EAF	Filter Manufacturer :	AirQuality Technology(Shanghai) Co., Ltd.
Test Type :	Pressure Drop of Clean Filter		
	For ASHRAE 52.2-2017	REP#7275	

Flow Rate CFM	Flow Rate CMH	Δp (Pa)	Δp (in H ₂ O)	% of Rated Airflow	Dust fed	Pressure drop
0	0	0.00	0.000	0%	0.00	0.091
163	275	4.06	0.016	25%	2.00	0.091
325	550	8.38	0.033	50%	4.00	0.092
488	825	15.75	0.062	75%	6.00	0.093
650	1100	23.11	0.091	100%	8.00	0.094
813	1375	33.53	0.132	125%	10.00	0.097



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