

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

**Test Report-ASHRAE Test Standard 52.2-2012**

Report #: 3118  
 Test Date: 06/05/2014

Test Requested By: Viskon-Aire Corporation  
 Manufacturer: Viskon-Aire Corporation  
 Filter ID: Revolution MERV 13  
 Model Number: N/A  
 Dimensions: 24" x 24" x 19"  
 Number of Pleats: 8-Pkts  
 Filter Description: RV1324241908F 24x24x19 8P  
 How Filter Obtained: Provided by Viskon-Air Corporation



**Test Results**

Test Air Flow Rate(CFM)/Velocity (FPM)	<u>1968 cfm / 492 fpm</u>
Initial Resistance (in. WG)	<u>0.461"</u>
Final Resistance (in. WG)	<u>1.500"</u>
Minimum Efficiency Rating Value (MERV)	<u>MERV 13 @ 1968 cfm</u>
Minimum Average Efficiency 0.3 to 1.0 Microns (E1)	<u>65.0</u>
Minimum Average Efficiency 1.0 to 3.0 Microns (E2)	<u>94.6</u>
Minimum Average Efficiency 3.0 to 10 Microns (E3)	<u>99.4</u>
Dust Fed to Final Resistance (grams)	<u>598.3 grams</u>
Dust Holding Capacity (grams)	<u>596.6 grams</u>
Arrestance:	<u>99.7%</u>

**Test Description**

Temp & Humidity: 71° F @ 33%  
 Particle Analysis: Met One 3400  
 Test Dust: SAE Fine  
 Test Aerosol: KCl, Neutralized  
 LMS#: 2865

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

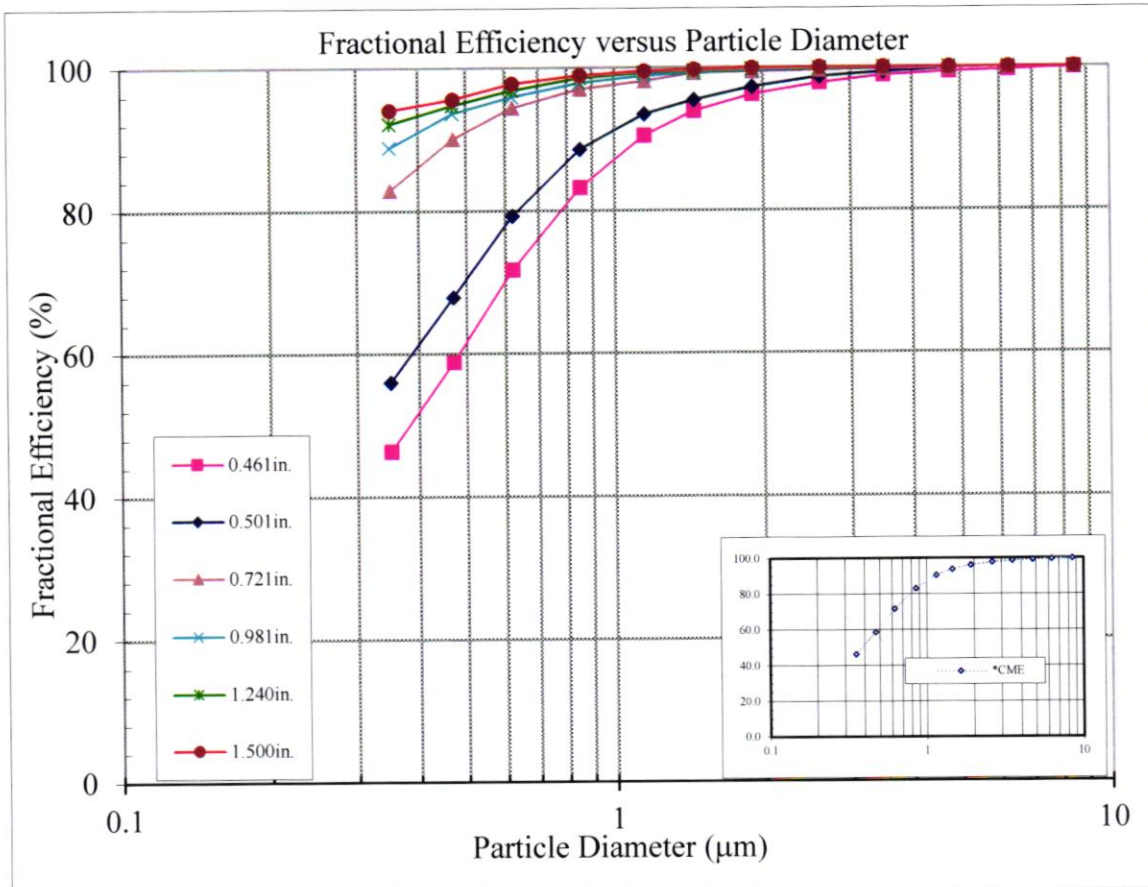
Approved By: K. C. Kwok, Ph.D.

**Data verified by LMS Calibration filter\* Patent Pending**

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Date : June 5, 2014 Filter ID : Revolution MERV 13 Test Type : 52.2-2012 <b>REP# 3118</b> Test Aerosol : KCl, Neutralized	Requested by : Viskon-Aire Corporation Manufacturer : Viskon-Aire Corporation
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ΔP (" H <sub>2</sub> O)	0.461in.	0.501in.	0.721in.	0.981in.	1.240in.	1.500in.	*CME
Size Range (μm)	Fractional Efficiency (%)						
0.3-0.4	46.4	56.0	82.9	88.9	92.2	94.1	46.4
0.4-0.55	58.8	67.9	90.1	93.7	94.8	95.6	58.8
0.55-0.7	71.7	79.3	94.4	96.0	96.9	97.8	71.7
0.7-1.0	83.2	88.6	97.0	97.9	98.6	98.9	83.2
1.0-1.3	90.5	93.5	98.1	98.9	99.3	99.5	90.5
1.3-1.6	93.9	95.5	99.2	99.3	99.6	99.7	93.9
1.6-2.2	96.2	97.3	99.4	99.6	99.8	99.9	96.2
2.2-3.0	97.8	98.7	99.6	99.8	99.9	100.0	97.8
3.0-4.0	98.8	99.3	99.7	100.0	100.0	100.0	98.8
4.0-5.5	99.3	99.8	99.8	100.0	100.0	100.0	99.3
5.5-7.0	99.6	100.0	100.0	100.0	100.0	100.0	99.6
7.0-10.0	99.9	100.0	100.0	100.0	100.0	100.0	99.9



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

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Date: June 5, 2014	Test Requested by : Viskon-Aire corporation
Filter ID : Revolution M13 - RV1324241908F	Filter Manufacturer : Viskon-Aire corporation
Test Type : Pressure Drop of Clean Filter For ASHRAE 52.2-2012 <b>REP# 3118</b>	

Flow Rate CFM	Velocity FPM	dP (mm H2O)	Pressure drop ("H2O)	% of Rated Airflow	Dust fed	Pressure drop
0	0	0.00	0.000	0%	0.00	0.461
492	123	2.40	0.094	25%	30.00	0.501
984	246	5.20	0.205	50%	217.50	0.721
1476	369	8.30	0.327	75%	349.40	0.981
1968	492	11.70	0.461	100%	480.00	1.240
2460	615	15.60	0.614	125%	598.30	1.500

