



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 #: 3117

Test Date: 06/05/2014

Test Requested By:	<u>Viskon-Aire Corporation</u>
Manufacturer:	<u>Viskon-Aire Corporation</u>
Filter ID:	<u>Revolution MERV 14</u>
Model Number:	<u>N/A</u>
Dimensions:	<u>24" x 24" x 22"</u>
Number of Pleats:	<u>8-Pkts</u>
Filter Description:	<u>RV1424242208F 24x24x22 8P</u>
How Filter Obtained:	<u>Provided by Viskon-Air Corporation</u>



Test Results

Test Air Flow Rate(CFM)/Velocity (FPM)	<u>1968 cfm / 492 fpm</u>
Initial Resistance (in. WG)	<u>0.300"</u>
Final Resistance (in. WG)	<u>1.500"</u>
Minimum Efficiency Rating Value (MERV)	<u>MERV 14 @ 1968 cfm</u>
Minimum Average Efficiency 0.3 to 1.0 Microns (E1)	<u>77.6</u>
Minimum Average Efficiency 1.0 to 3.0 Microns (E2)	<u>97.2</u>
Minimum Average Efficiency 3.0 to 10 Microns (E3)	<u>100</u>
Dust Fed to Final Resistance (grams)	<u>779.0 grams</u>
Dust Holding Capacity (grams)	<u>776.1 grams</u>
Arrestance:	<u>99.6%</u>

Test Description

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

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

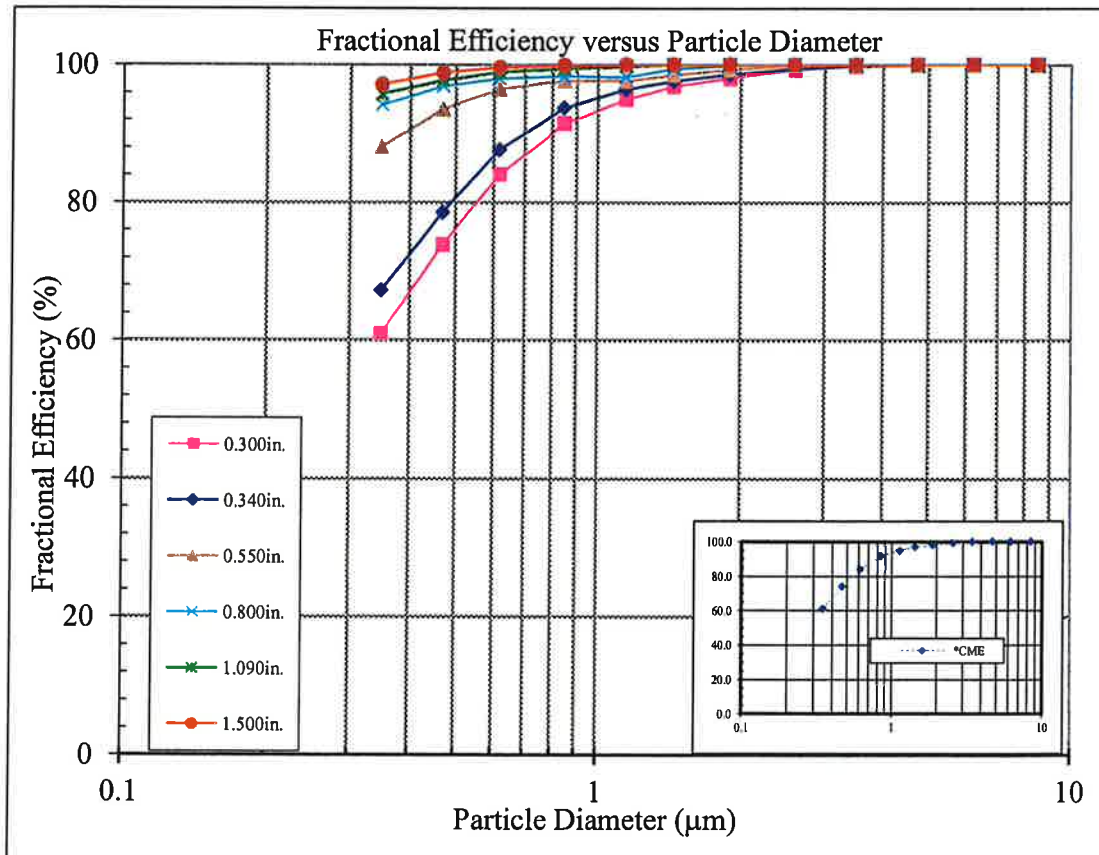
Approved By: K. C. Kwok, Ph.D.

Data verified by LMS Calibration filter* Patent Pending

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Date : June 5, 2014 Filter ID : Revolution MERV 14 Test Type : 52.2-2012 REP# 3117 Test Aerosol : KCl, Neutralized	Requested by : Viskon-Aire Corporation Manufacturer : Viskon-Aire Corporation
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ΔP (" H ₂ O)	0.300in.	0.340in.	0.550in.	0.800in.	1.090in.	1.500in.	*CME
Size Range (μm)	Fractional Efficiency (%)						
0.3-0.4	61.0	67.2	88.0	94.1	95.7	97.1	61.0
0.4-0.55	73.8	78.5	93.5	96.8	97.7	98.8	73.8
0.55-0.7	84.0	87.6	96.3	97.9	98.9	99.6	84.0
0.7-1.0	91.4	93.7	97.6	98.3	99.4	99.9	91.4
1.0-1.3	94.9	96.4	97.6	98.2	99.8	100.0	94.9
1.3-1.6	96.8	97.6	98.5	99.4	100.0	100.0	96.8
1.6-2.2	98.0	98.6	99.3	99.9	100.0	100.0	98.0
2.2-3.0	99.2	99.4	99.8	100.0	100.0	100.0	99.2
3.0-4.0	99.8	99.9	100.0	100.0	100.0	100.0	99.8
4.0-5.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5.5-7.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7.0-10.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

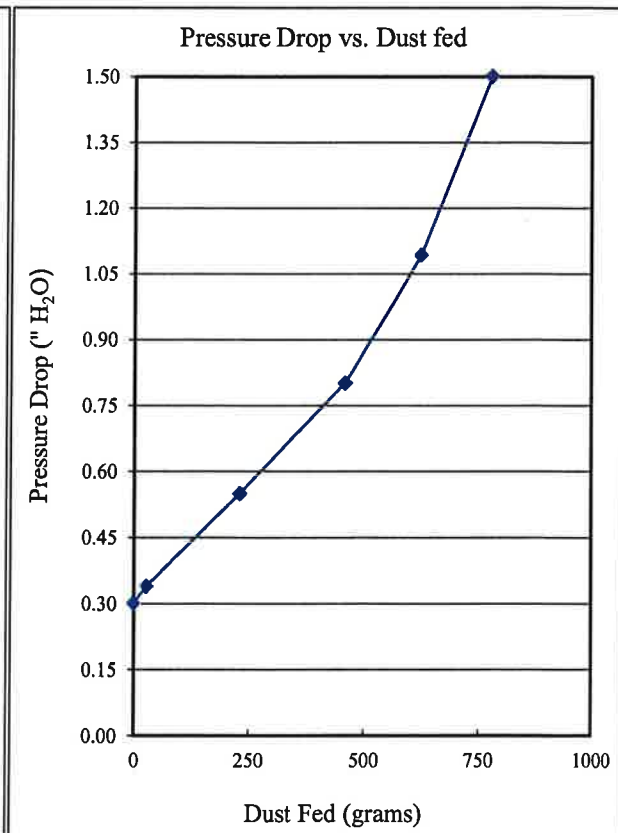
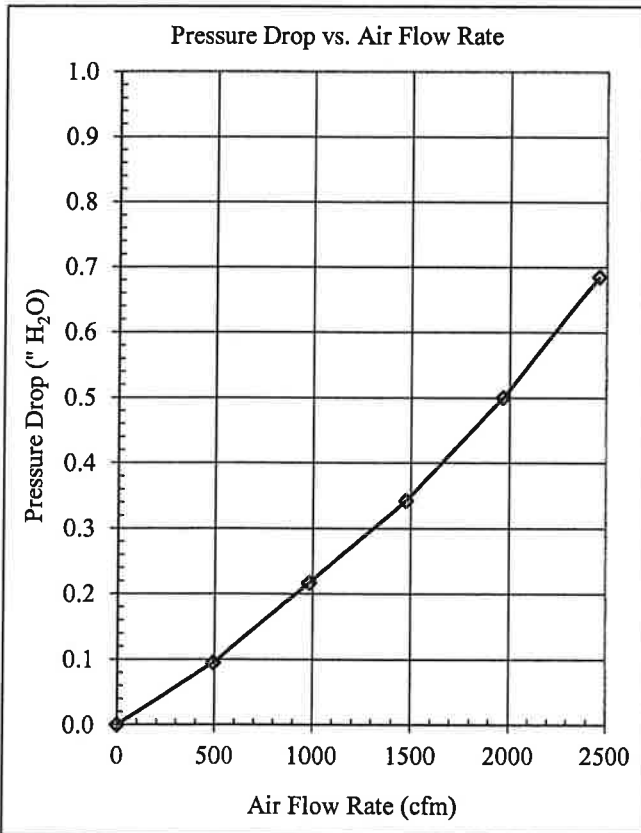


ENGINEERING APPROVAL
 K.C. KWOK, PH.D. _____

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Date: June 5, 2014 Filter ID : Revolution M14 - RV1424242208F Test Type : Pressure Drop of Clean Filter For ASHRAE 52.2-2012 REP# 3117	Test Requested by : Viskon-Aire corporation Filter Manufacturer : Viskon-Aire corporation
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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	0.300
492	123	2.40	0.094	25%	30.00	0.340
984	246	5.50	0.217	50%	232.00	0.550
1476	369	8.70	0.343	75%	459.00	0.800
1968	492	12.70	0.500	100%	623.50	1.090
2460	615	17.40	0.685	125%	779.00	1.500



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