



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: Viskon-Aire Corporation
 Manufacturer: Viskon-Aire Corporation
 Filter ID: Revolution MERV 14
 Model Number: N/A
 Dimensions: 24" x 24" x 22"
 Number of Pleats: 8-Pkts
 Filter Description: RV1424242208F 24x24x22 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>0.500"</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>100.0</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: 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

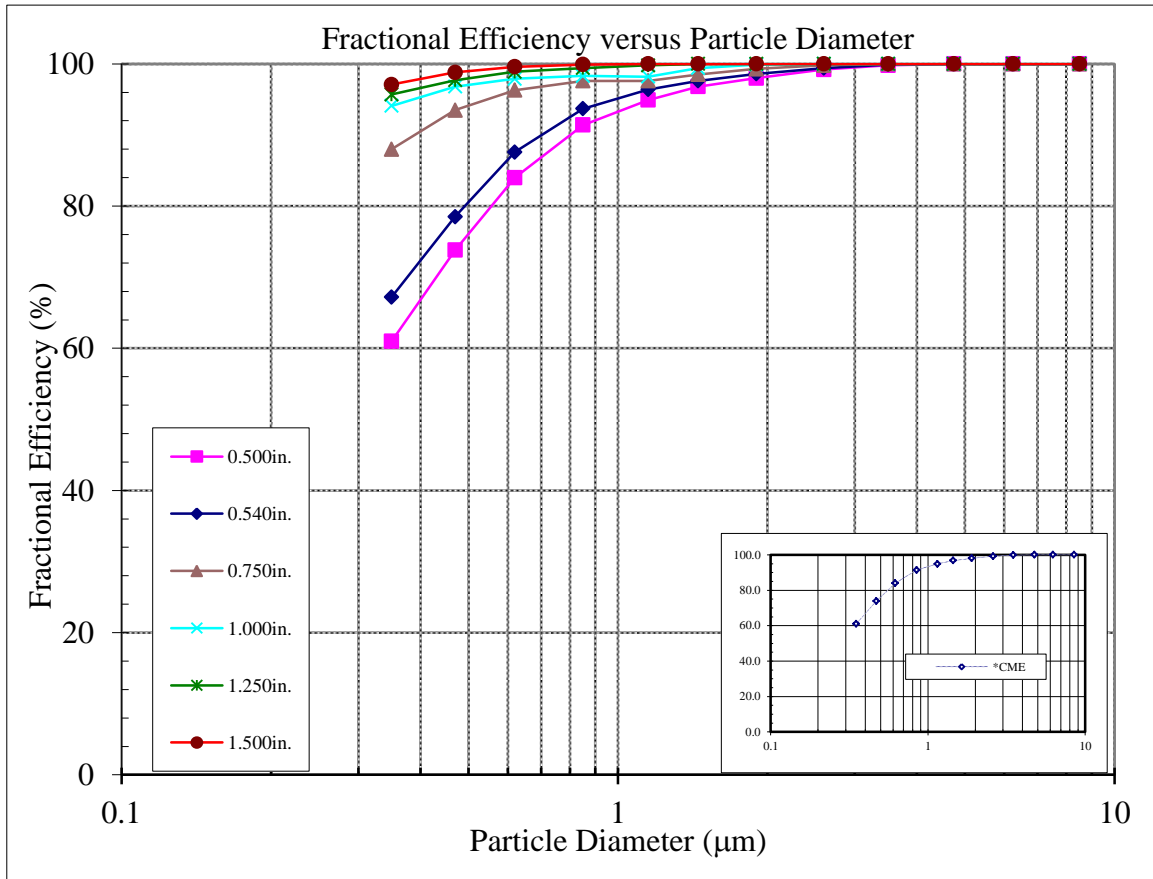
Approved By: K. C. Kwok, Ph.D.

Data verified by LMS Calibration filter* Patent Pending

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| | |
|--|--|
| Date : June 5, 2014 Filter ID : Revolution MERV 14 Test Type : 52.2-2012 REP# 3117 Test Aerosol : KCl, Neutralized | Requested by : Viskon-Aire Corporation Manufacturer : Viskon-Aire Corporation |
|--|--|

| ΔP (" H ₂ O) | 0.500in. | 0.540in. | 0.750in. | 1.000in. | 1.250in. | 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 |



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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 |
|--|--|

| 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 | 0.500 |
| 492 | 123 | 2.40 | 0.094 | 25% | 30.00 | 0.540 |
| 984 | 246 | 5.50 | 0.217 | 50% | 232.00 | 0.750 |
| 1476 | 369 | 8.70 | 0.343 | 75% | 459.00 | 1.000 |
| 1968 | 492 | 12.70 | 0.500 | 100% | 623.50 | 1.250 |
| 2460 | 615 | 17.40 | 0.685 | 125% | 779.00 | 1.500 |
| | | | | | | |

