



2820 S. English Station Road - Louisville, KY 40299  
 Tel: (502) 357-0132 Fax (502) 267-8379

Date: 1-Jul-09 TEST NO. 09-1031

## ASHRAE Standard 52.2-2007 TEST REPORT Initial Efficiency / Resistance

### Filter Description

Manufacturer	Superior Filtration Products, LLC
Filter Model	SuperCell 2 MERV 11 Prefilter
Part Number	S2M11SC-22424
Generic Filter Type	Pleated Prefilter
Nominal Dimensions (H x W x D)	24"x24"x2"
Pocket / Pleat Quantity	24 Pleats
Media Type	MERV 11 Synthetic Fiber
Est. Gross Media Area	17.6 Ft <sup>2</sup>
Adhesive Type	Filtergrip .75 Pounds



### Test Conditions

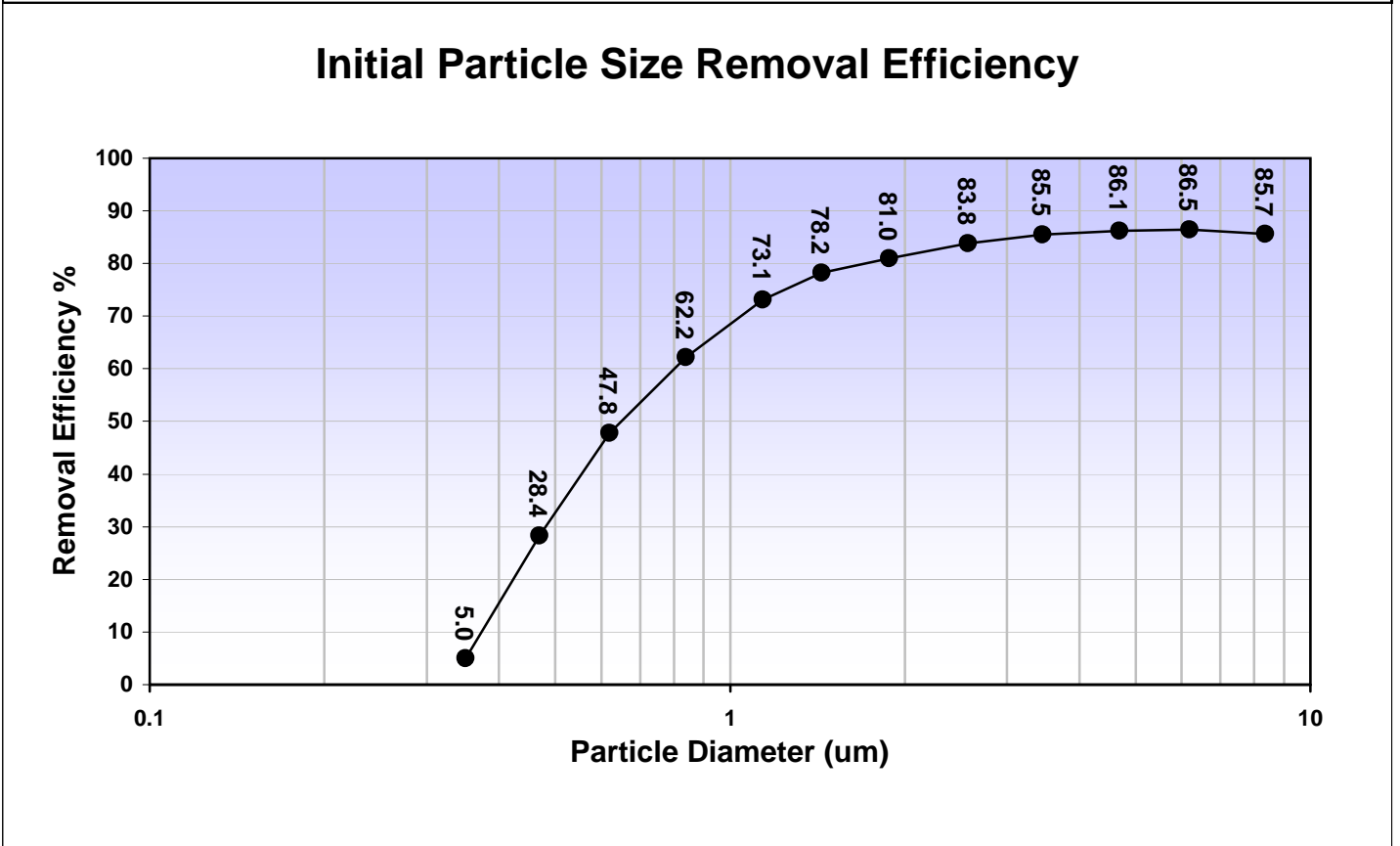
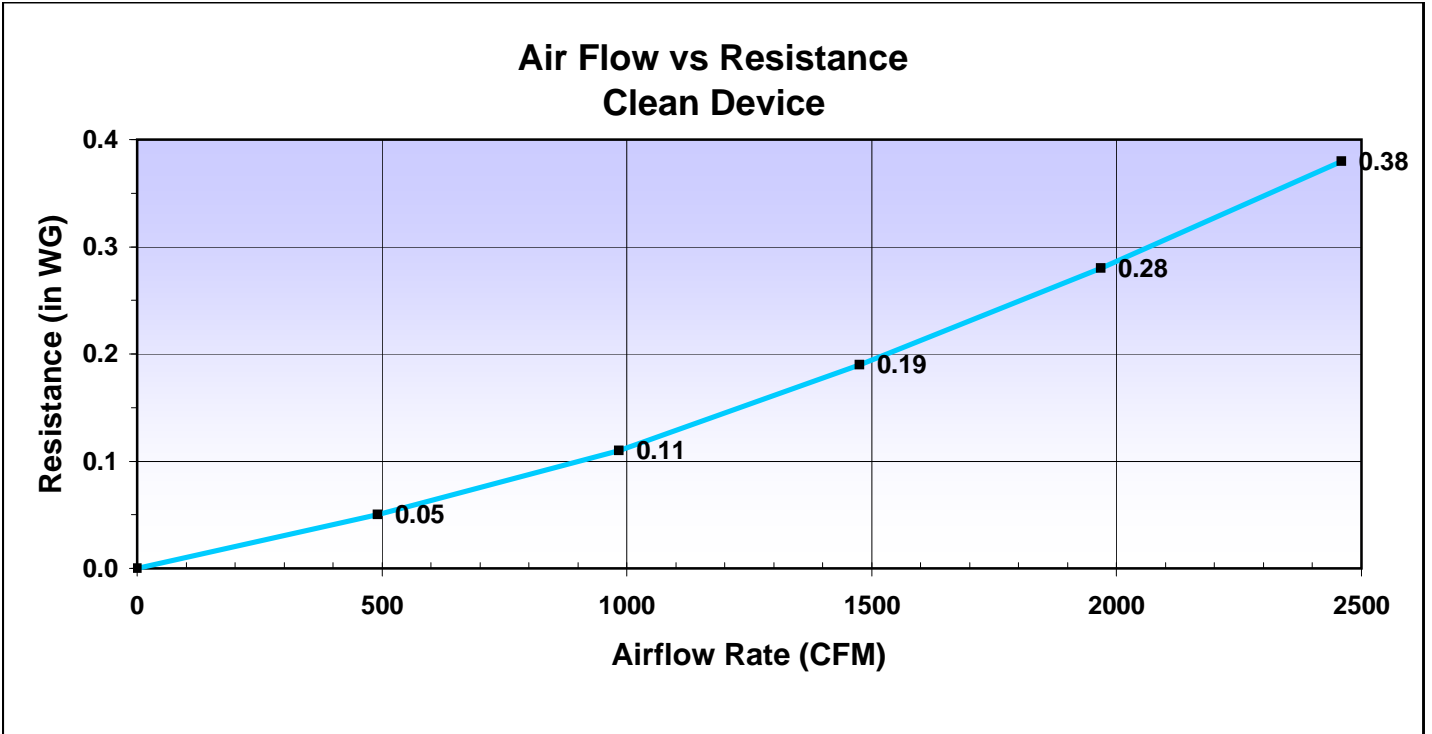
Loading Dust Type	N A	Test Air Temp (degrees F.)	81
Barometric Pressure (In. Hg.)	29.82	Relative Humidity (%)	54

### Test Results

<b>Airflow Rate (CFM)</b>	<b>1968</b>
<b>Nominal Face Velocity (fpm)</b>	<b>492</b>
<b>Initial Resistance (in WG)</b>	<b>0.28</b>
<b>E1 (%) Initial Efficiency 0.30 - 1.0 um</b>	<b>36</b>
<b>E2 (%) Initial Efficiency 1.0 - 3.0 um</b>	<b>79</b>
<b>E3 (%) Initial Efficiency 3.0 - 10.0 um</b>	<b>86</b>
<b>Estimated * Minimum Efficiency Reporting Value (MERV)</b>	<b>MERV 11 @ 1968 CFM</b>
<small>* If initial data is minimum</small>	

**Comments** Tested For: Superior Filtration Products, LLC

Approval:



**Blue Heaven Technologies**

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**ASHRAE Standard 52.2 -2007****Test Report**

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**Data - Initial Resistance**

Airflow (CFM)	Resistance (in WG)
0	0.00
492	0.05
984	0.11
1476	0.19
1968	0.28
2460	0.38

**Data - Particle Removal Efficiency**

Particle Size Range (um)	Geometric Mean Diam (um)	Initial Particle Removal Efficiency (%)
0.30 - 0.40	0.35	5.0
0.40 - 0.55	0.47	28.4
0.55 - 0.70	0.62	47.8
0.70 - 1.00	0.84	62.2
1.00 - 1.30	1.14	73.1
1.30 - 1.60	1.44	78.2
1.60 - 2.20	1.88	81.0
2.20 - 3.00	2.57	83.8
3.00 - 4.00	3.46	85.5
4.00 - 5.50	4.69	86.1
5.50 - 7.00	6.20	86.5
7.00 - 10.00	8.37	85.7