



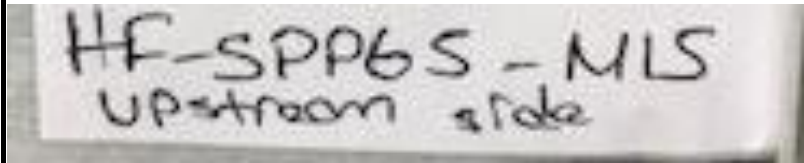
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Date: 22-Jul-21 TEST NO. 21-379-1

## ASHRAE Standard 52.2-2012 APPENDIX J TEST REPORT Efficiency with KCL Conditioning

### Filter Description

Manufacturer	Hifyber
Filter Model	N/A
Part Number	HF-SPP65-M15
Generic Filter Type	Flat Sheet Media
Nominal Dimensions (H x W x D)	N/A
Pocket / Pleat Quantity	N/A
Media Type	Flat Sheet Media
Est. Gross Media Area	N/A
Adhesive Type	N/A



### Test Conditions

Conditioning Aerosol Type	KCL		
Loading Dust Type	N A	Test Air Temp (degrees F.)	81
Barometric Pressure (In. Hg.)	29.51	Relative Humidity (%)	42

### Test Results

<b>Airflow Rate (CFM)</b>	<b>4.0</b>
<b>Nominal Face Velocity (fpm)</b>	<b>4.0</b>
<b>Initial Resistance (in WG)</b>	<b>0.03</b>

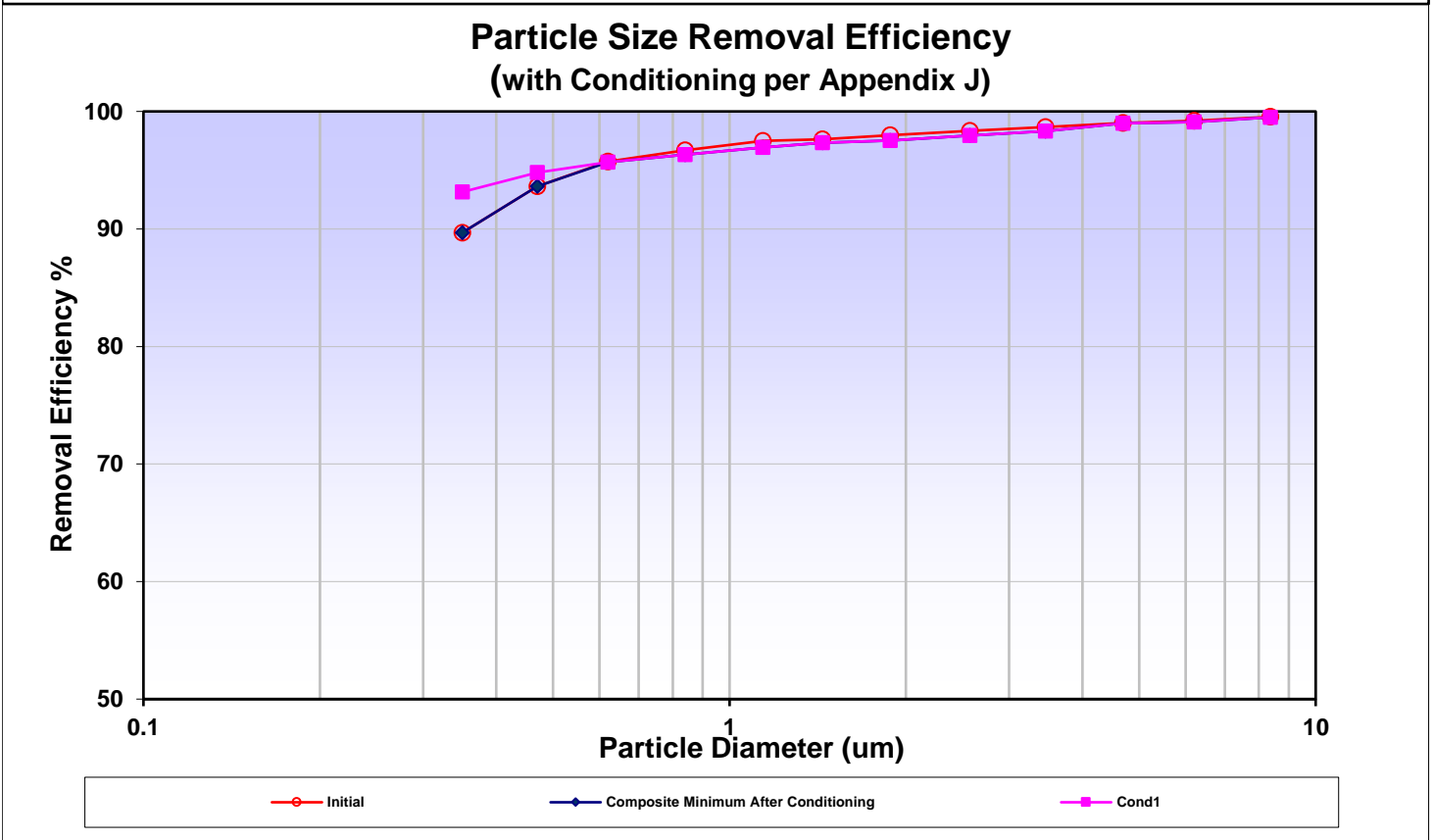
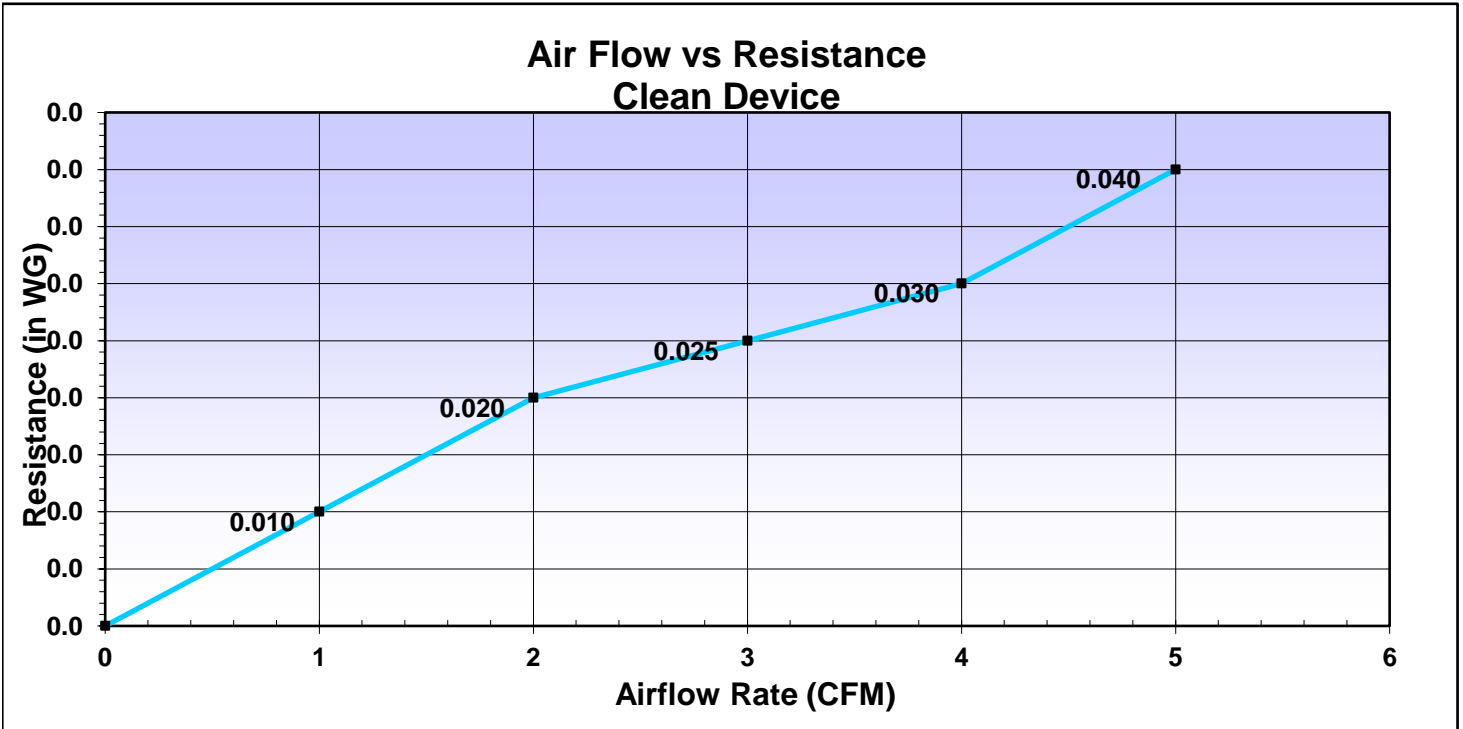
<b>E1-A (%) Min. Composite Efficiency after KCL Conditioning 0.30 - 1.0 um</b>	<b>94</b>
<b>E2-A (%) Min. Composite Efficiency after KCL Conditioning 1.0 - 3.0 um</b>	<b>97</b>
<b>E3-A (%) Min. Composite Efficiency after KCL Conditioning 3.0 - 10.0 um</b>	<b>99</b>

**\*Minimum Efficiency Reporting Value after KCL Conditioning (MERV-A) MERV 15-A @ 4 CFM**  
 (\* assumes no efficiency reduction during subsequent ASHRAE dust loading)

**Comments** Tested For: 0

Test Performed by: EWS Approved By: Test Completed: 22-Jul-21

Test No. 21-379-1  
Date: 22-Jul-21



**Data - Initial Resistance**

Airflow (CFM)	Resistance (in WG)
0	0.000
1	0.010
2	0.020
3	0.025
4	0.030
5	0.040

**Data - Particle Removal Efficiency per Appendix J**

Particle Size Range (um)	Geometric Mean Diam (um)	Particle Removal Efficiency (%)											
		89.69	89.69	93.15									
0.30 - 0.40	0.35	89.69	89.69	93.15									
0.40 - 0.55	0.47	93.64	93.64	94.79									
0.55 - 0.70	0.62	95.68	95.75	95.68									
0.70 - 1.00	0.84	96.32	96.70	96.32									
1.00 - 1.30	1.14	96.93	97.50	96.93									
1.30 - 1.60	1.44	97.35	97.63	97.35									
1.60 - 2.20	1.88	97.52	97.97	97.52									
2.20 - 3.00	2.57	97.96	98.35	97.96									
3.00 - 4.00	3.46	98.31	98.66	98.31									
4.00 - 5.50	4.69	98.99	99.03	98.99									
5.50 - 7.00	6.20	99.09	99.19	99.09									
7.00 - 10.00	8.37	99.50	99.54	99.50									
	Composite Min Eff (CME)	Initial	Conditioning Increment 1	Conditioning Increment 2	Conditioning Increment 3	Conditioning Increment 4	Conditioning Increment 5	Conditioning Increment 6	Conditioning Increment 7	Conditioning Increment 8	Conditioning Increment 9	Conditioning Increment 10	

**Conditioning Procedure Details**

(included for reference as required by Appendix J11.1)

	Initial	Cond 1	Cond 2	Cond 3	Cond 4	Cond 5	Cond 6	Cond 7	Cond 8	Cond 9	Cond 10
Background concentration (particles cm-3) ----->	0.86										
Correlation ratio small to large particles ----->	25,154										
Avg conditioning aerosol concentration (particles cm-3) ----->	681,365										
Incremental conditioning duration (minutes) ----->	113.0										
Cumulative conditioning duration (minutes) ----->	113.0										
Incremental CT (particle cm-3 min) ----->	76,560,304										
Cumulative conditioning CT (particles cm-3 min) ----->	7.66E+07										
Dust Holding Capacity DHC-A (grams) ----->	NA										