



2820 S. English Station Road - Louisville, KY 40299

TEST NO. 20-709-4

Test Report - Vertical Test Duct

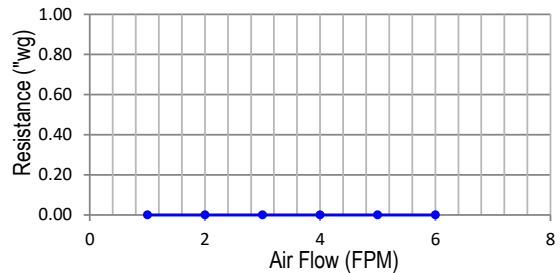
KCI Efficiency Testing (Based on ASHRAE 52.2 Test Method)

Filter Description

Manufacturer	HIFYBER
Filter Model	Flat Sheet Media
Part Number	HF-SPP65-M12
Test Area	1.0 ft ² 0.0929 m ²
Media Type	Flat Sheet Media
Media Color	White
Sample Procurement	HIFYBER

Air Flow Versus Resistance

Velocity (%)	Velocity FPM / cm/s	Resistance	
		"WG	Pa
25	1.0 / 0.5	0.000	0.0
50	2.0 / 1.0	0.000	0.0
75	3.0 / 1.5	0.000	0.0
100	4.0 / 2.0	0.000	0.0
125	5.0 / 2.5	0.000	0.0
150	6.0 / 3.0	0.000	0.0



Test Conditions

Test Air Flow Rate (FPM / cm/s)	4.0 FPM 2.0 cm/s
Challenge Aerosol	Aerosolized KCI
Counter Information	TSI 3330121001
Test Temperature (°F / °C)	69.6 Deg F 20.9 Deg C
Relative Humidity (%)	35.1
Barometric Pressure (\" Hg / Pa)	29.59 in. Hg 100.20 kPa

Comments: Pressure drop too low to measure.

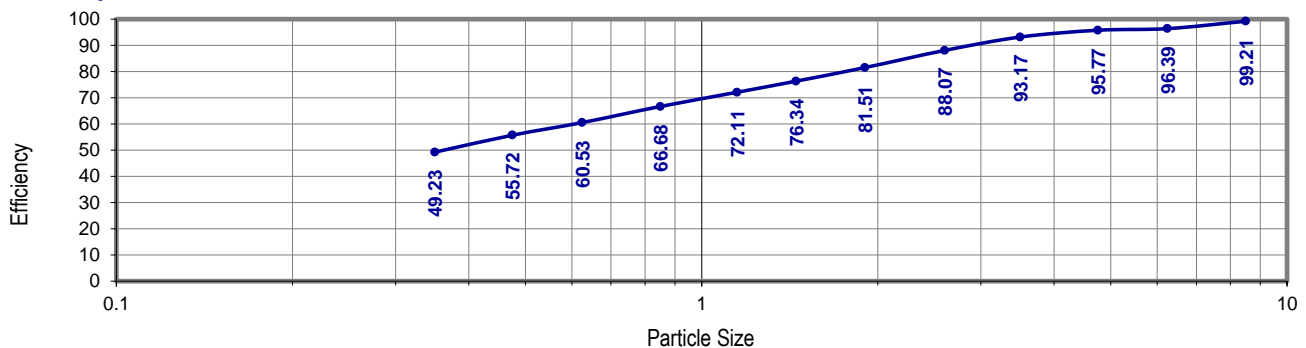
Test Results

Particle Size Range (µm)	Geo. Mean	Avg.		
0.30 - 0.40	0.346	49.23	49.23	
0.40 - 0.55	0.469	55.72	55.72	
0.55 - 0.70	0.620	60.53	60.53	E1 58
0.70 - 1.00	0.837	66.68	66.68	
1.00 - 1.30	1.140	72.11	72.11	
1.30 - 1.60	1.442	76.34	76.34	E2 80
1.60 - 2.20	1.876	81.51	81.51	
2.20 - 3.00	2.569	88.07	88.07	
3.00 - 4.00	3.464	93.17	93.17	
4.00 - 5.50	4.690	95.77	95.77	E3 96
5.50 - 7.00	6.205	96.39	96.39	
7.00 - 10.0	8.367	99.21	99.21	

Estimated MERV 12

Important Note: Please be advised that the ASHRAE committee SSPC 52.2, in March 2016, has published "addendum e" relative to the 52.2-2012 test protocol. This addendum restricts the use of the acronym "MERV" as only applicable to a test report that has been completed using the "entire procedure prescribed by the standard". This report is a modified version of the procedure and therefore, subject to that ruling. In the best interest of our customers, Blue Heaven Technologies has elected to delay this action until further assessment can be made at committee level. Where applicable, the qualified use of the term "MERV" will continue to be part of our reported data.

Efficiency vs. Particle Size



Requestor Information	Test Requestor	Mrs. Aysegul Zumbuller Fener	Phone:	+90 258 251 50 57
	Company Name	HIFYBER	Email:	aysequf.fener@hifyber.com
	Company Address	Sumer Mah, Cal Cad No.78 Denizli, Turkey	Date Requested	
Test Operator Information	Test Performed by:	Evan Sparks, EIT	Completion Date	11/16/2020