



2820 S. English Station Road - Louisville, KY 40299

TEST NO. 20-709-5

# Test Report - Vertical Test Duct

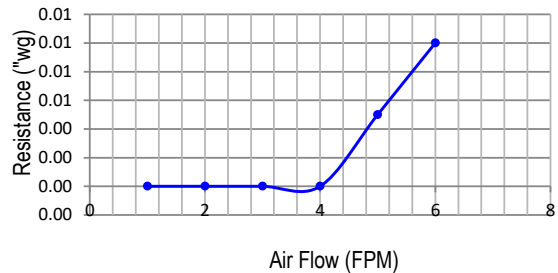
KCI Efficiency Testing (Based on ASHRAE 52.2 Test Method)

## Filter Description

Manufacturer	HIFYBER	
Filter Model	Flat Sheet Media	
Part Number	HF-SPP65-M13	
Test Area	1.0 ft <sup>2</sup>	0.0929 m <sup>2</sup>
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	0.005	1.2
150	6.0 / 3.0	0.010	2.5



## 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 values below 5 FPM too low to measure

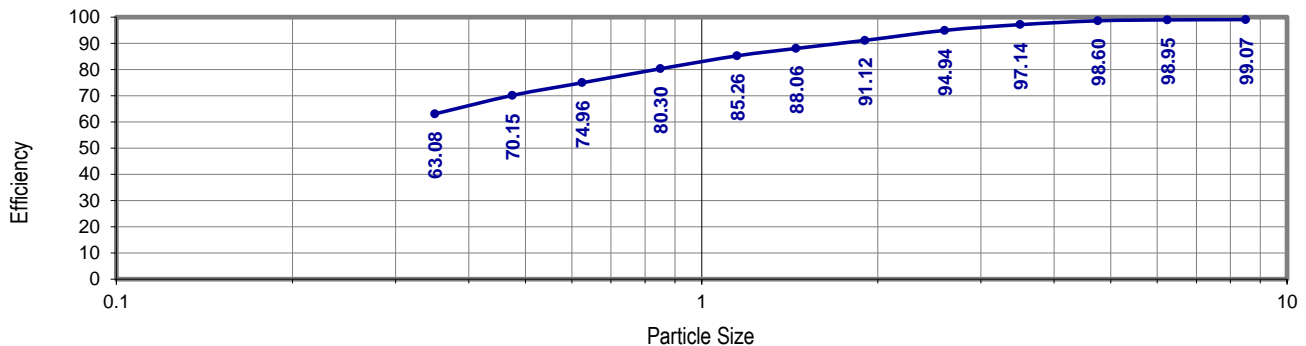
## Test Results

Particle Size Range (µm)	Geo. Mean	Avg.		
0.30 - 0.40	0.346	63.08	63.08	
0.40 - 0.55	0.469	70.15	70.15	
0.55 - 0.70	0.620	74.96	74.96	E1 72
0.70 - 1.00	0.837	80.30	80.30	
1.00 - 1.30	1.140	85.26	85.26	
1.30 - 1.60	1.442	88.06	88.06	E2 90
1.60 - 2.20	1.876	91.12	91.12	
2.20 - 3.00	2.569	94.94	94.94	
3.00 - 4.00	3.464	97.14	97.14	
4.00 - 5.50	4.690	98.60	98.60	E3 98
5.50 - 7.00	6.205	98.95	98.95	
7.00 - 10.0	8.367	99.07	99.07	

**Estimated MERV 13**

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: <a href="mailto:aysequ.fener@hifyber.com">aysequ.fener@hifyber.com</a>
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
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