Blue Heaven Technologies

2820 S. English Station Road - Louisville, KY 40299

TEST NO. 20-608-4

Test Report - Vertical Test Duct

KCl Efficiency Testing (Based on ASHRAE 52.2 Test Method)

Filter Description

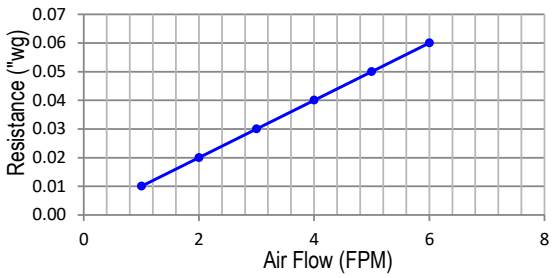
Manufacturer	HIFYBER
Filter Model	Flat Sheet Media
Part Number	HF-STP70-M15
Test Area	1.0 ft^2 0.0929 m2
Media Type	Flat Sheet Media
Media Color	White
Sample Procurement	HIFYBER

Test Conditions

Test Air Flow Rate (FPM / cm/s)	4.0 FPM 2.0 cm/s
Challenge Aerosol	Aerosolized KCl
Counter Information	TSI 3330121001
Test Temperature (ºF / ºC)	72 Deg F 22.2 Deg C
Relative Humidity (%)	51.1
Barometric Pressure (" Hg / Pa)	29.31 in. Hg 99.26 kPa

Air Flow Versus Resistance

(%)	Velocity FPM / cm/s	Resistance "WG	Pa
25	1.0 / 0.5	0.01	2.5
50	2.0 / 1.0	0.02	5.0
75	3.0 / 1.5	0.03	7.5
100	4.0 / 2.0	0.04	10.0
125	5.0 / 2.5	0.05	12.4
150	6.0 / 3.0	0.06	14.9



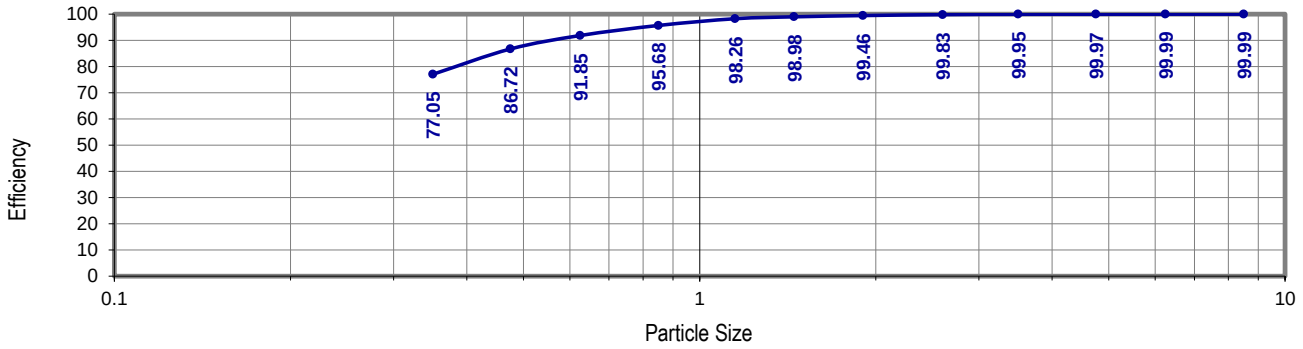
Test Results

Particle Size Range (µm)	Geo. Mean		Avg.		
0.30 -0.40	0.346	77.05	77.05		
0.40 - 0.55	0.469	86.72	86.72	E1	88
0.55 - 0.70	0.620	91.85	91.85		
0.70 - 1.00	0.837	95.68	95.68		
1.00 - 1.30	1.140	98.26	98.26		
1.30 - 1.60	1.442	98.98	98.98	E2	99
1.60 - 2.20	1.876	99.46	99.46		
2.20 - 3.00	2.569	99.83	99.83		
3.00 - 4.00	3.464	99.95	99.95		
4.00 - 5.50	4.690	99.97	99.97	E3	99.97
5.50 - 7.00	6.205	99.99	99.99		
7.00 - 10.0	8.367	99.99	99.99		

Estimated MERV 15

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:	aysegul.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	10/7/2020