



2820 S. English Station Road - Louisville, KY 40299

TEST NO. 20-608-2

# Test Report - Vertical Test Duct

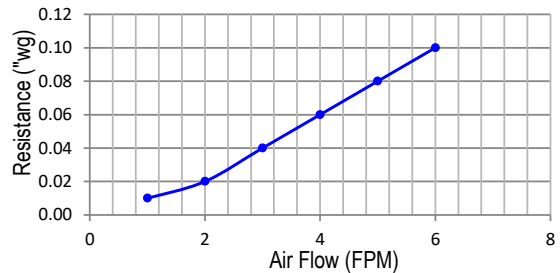
KCI Efficiency Testing (Based on ASHRAE 52.2 Test Method)

## Filter Description

Manufacturer	HIFYBER
Filter Model	Flat Sheet Media
Part Number	HF-STP70-M16
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	0.01	2.5
50	2.0 / 1.0	0.02	5.0
75	3.0 / 1.5	0.04	10.0
100	4.0 / 2.0	0.06	14.9
125	5.0 / 2.5	0.08	19.9
150	6.0 / 3.0	0.10	24.9



## 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)	72 Deg F    22.2 Deg C
Relative Humidity (%)	51.1
Barometric Pressure (\" Hg / Pa)	29.31 in. Hg    99.26 kPa

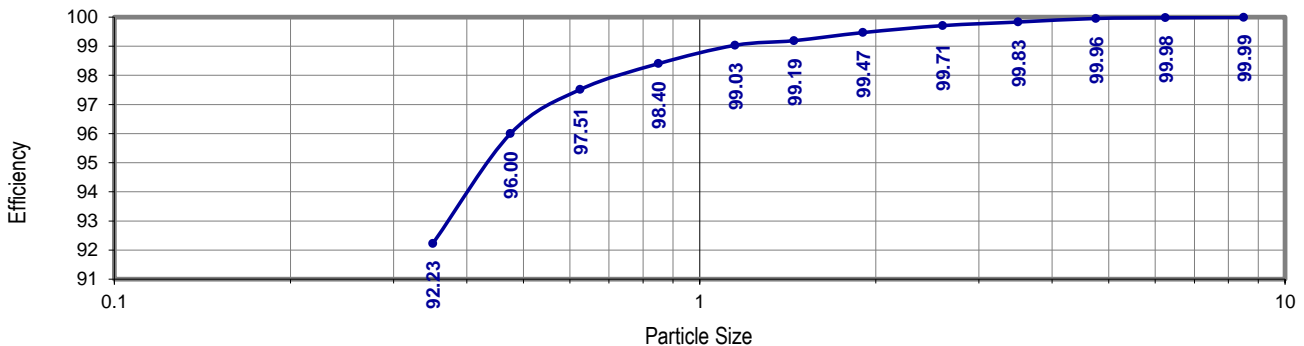
## Test Results

Particle Size Range (µm)	Geo. Mean	Avg.		
0.30 - 0.40	0.346	92.23	92.23	
0.40 - 0.55	0.469	96.00	96.00	
0.55 - 0.70	0.620	97.51	97.51	E1    96
0.70 - 1.00	0.837	98.40	98.40	
1.00 - 1.30	1.140	99.03	99.03	
1.30 - 1.60	1.442	99.19	99.19	E2    99
1.60 - 2.20	1.876	99.47	99.47	
2.20 - 3.00	2.569	99.71	99.71	
3.00 - 4.00	3.464	99.83	99.83	
4.00 - 5.50	4.690	99.96	99.96	E3    99.9
5.50 - 7.00	6.205	99.98	99.98	
7.00 - 10.0	8.367	99.99	99.99	

**Estimated MERV 16**

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  
 Company Name: HIFYBER  
 Company Address: Sumer Mah, Cal Cad No.78 Denizli, Turkey

Phone: +90 258 251 50 57  
 Email: [aysegul.fener@hifyber.com](mailto:aysegul.fener@hifyber.com)  
 Date Requested:

### Test Operator Information

Test Performed by: Evan Sparks, EIT

Completion Date: 10/7/2020