



2820 S. English Station Road - Louisville, KY 40299

TEST NO. 19-448-1

# Test Report - Vertical Test Duct

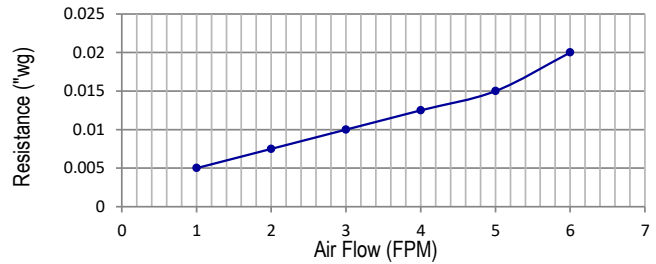
EN779:2012 Flat Sheet Media Efficiency Pre/Post IPA Discharged Test

## Filter Description

Manufacturer	HIFYBER	
Filter Model	Flat Sheet Media	
Part Number	HF-SPS50-07	
Test Area	1.0 ft <sup>2</sup>	0.0929 m <sup>2</sup>
Media Type		
Media Color	White	
Sample Procurement		

## Air Flow Versus Resistance

Velocity (%)	FPM / cm/s	Pre IPA		Post IPA Discharge	
		"WG	Pa	"WG	Pa
25	1.0 / 0.5	0.005	1.2	0.005	1.2
50	2.0 / 1.0	0.008	1.9	0.008	1.9
75	3.0 / 1.5	0.010	2.5	0.010	2.5
100	4.0 / 2.0	0.013	3.1	0.013	3.1
125	5.0 / 2.5	0.015	3.7	0.015	3.7
150	6.0 / 3.0	0.020	5.0	0.020	5.0



## Test Conditions

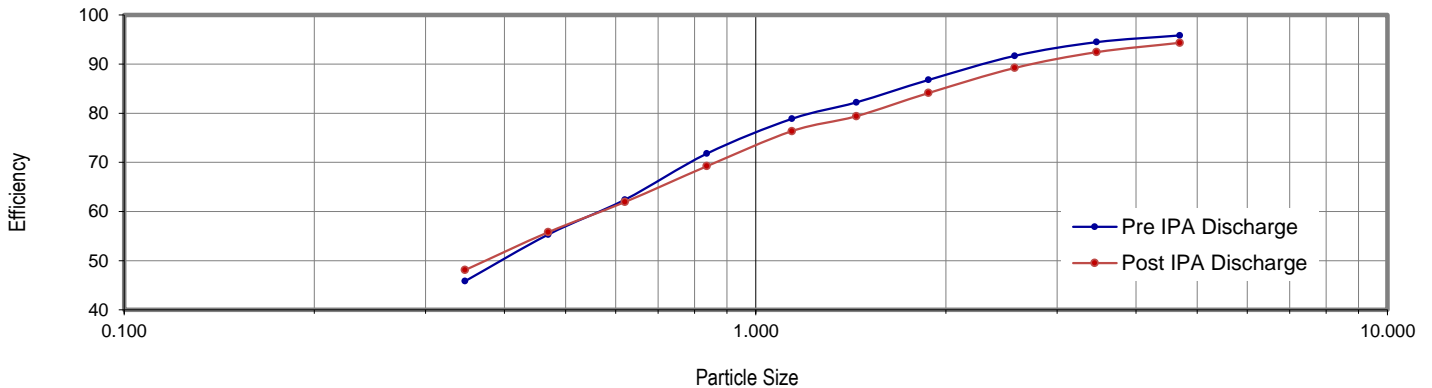
Test Air Flow Rate (FPM / cm/s)	4.0 FPM	2.0 cm/s
Challenge Aerosol	Aerosolized DEHS	
Counter Information	TSI 3330	
Test Temperature (°F / °C)	74.6 Deg F	23.7 Deg C
Relative Humidity (%)	52.4	
Barometric Pressure (\" Hg / Pa)	29.3 in. Hg	99.22 kPa

## Test Results

Initial Pressure Drop (\"WG / Pa)	0.013 \"WG	3 Pa
Initial Efficiency at 0.4 μm (%)	Untreated: 50.0 %	Discharged: 51.4 %
Filter Class	F7	

Particle Size (μm)	Geometric Mean (μm)	Pre Discharge Efficiency (%)		Post Discharge Efficiency (%)	
		Test 1	Average	Test 1	Average
0.30 - 0.40	0.346	45.82%	45.82%	48.08%	48.08%
0.40 - 0.55	0.469	55.31%	55.31%	55.78%	55.78%
0.55 - 0.70	0.620	62.41%	62.41%	61.93%	61.93%
0.70 - 1.00	0.837	71.79%	71.79%	69.22%	69.22%
1.00 - 1.30	1.140	78.86%	78.86%	76.35%	76.35%
1.30 - 1.60	1.442	82.21%	82.21%	79.39%	79.39%
1.60 - 2.20	1.876	86.77%	86.77%	84.11%	84.11%
1.60 - 3.00	2.569	91.67%	91.67%	89.21%	89.21%
3.00 - 4.00	3.464	94.46%	94.46%	92.43%	92.43%
4.00 - 5.50	4.690	95.84%	95.84%	94.33%	94.33%

## Efficiency vs. Particle Size



Requestor Information	Test Requestor	Mrs. Aysegul Zumbuller Fener	Phone:	+90 258 251 50 57
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	Company Address	Sumer Mah, Cal Cad No.78 Denizli, Turkey	Date Requested	8/15/2019
Test Operator Information	Test Performed by:	Evan Sparks	Completion Date	9/3/2019