



2820 S. English Station Road - Louisville, KY 40299

TEST NO. 18-607-2

# Test Report - Vertical Test Duct

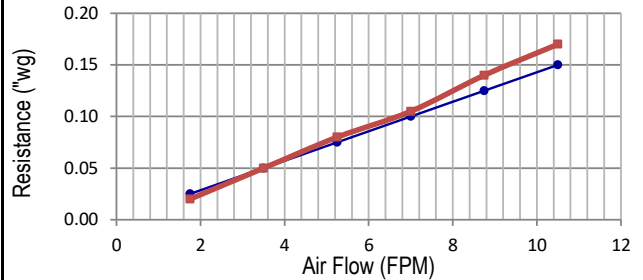
EN779:2012 Flat Sheet Media Efficiency Pre/Post IPA Discharged Test

## Filter Description

Manufacturer	JP Airtech	
Filter Model		
Part Number	JX180PET	
Test Area	0.528 ft <sup>2</sup>	0.0490512 m <sup>2</sup>
Media Type	Flat Sheet	
Media Color	White	
Sample Procurement		

## Air Flow Versus Resistance

Velocity (%)	FPM / cm/s	Pre IPA		Post IPA Discharge	
		"WG	Pa	"WG	Pa
25	1.8 / 0.9	0.03	6.2	0.02	5.0
50	3.5 / 1.8	0.05	12.4	0.05	12.4
75	5.3 / 2.7	0.08	18.7	0.08	19.9
100	7.0 / 3.6	0.10	24.9	0.11	26.1
125	8.8 / 4.4	0.13	31.1	0.14	34.8
150	10.5 / 5.3	0.15	37.3	0.17	42.3



## Test Conditions

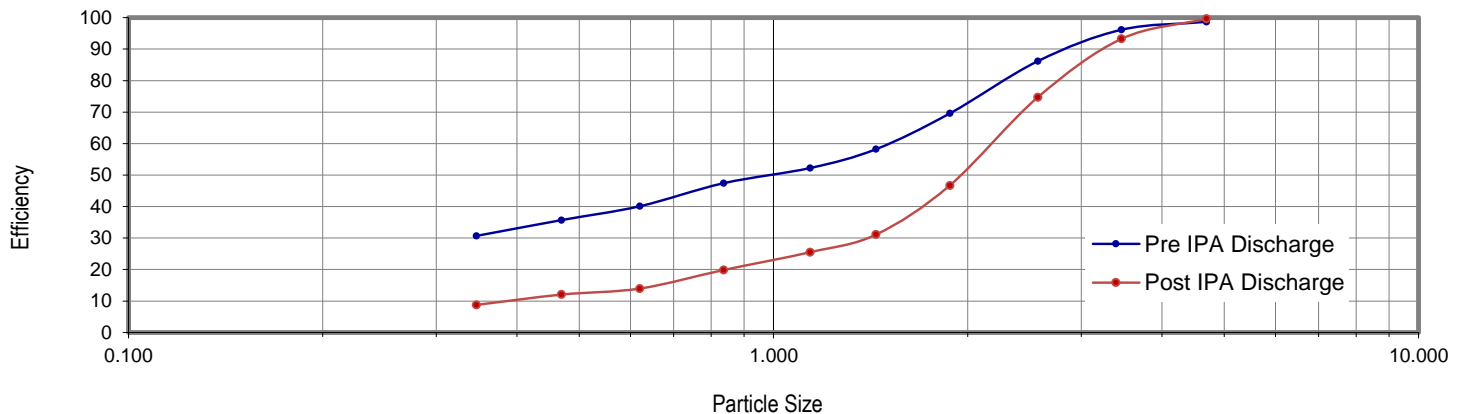
Test Air Flow Rate (FPM / cm/s)	7.0 FPM	3.6 cm/s
Challenge Aerosol	Aerosolized DEHS	
Counter Information	TSI 3330	
Test Temperature (°F / °C)	66 Deg F	18.9 Deg C
Relative Humidity (%)	24	
Barometric Pressure (\" Hg / Pa)	29.66 in. Hg	100.44 kPa

## Test Results

Initial Pressure Drop (\"WG / Pa)	0.1 \"WG	25 Pa
Initial Efficiency at 0.4 μm (%)	Untreated: 32.9 %	Discharged: 10.2 %
Filter Class		

Particle Size (μm)	Geometric Mean (μm)	Pre Discharge Efficiency (%)		Post Discharge Efficiency (%)	
		Test 1	Average	Test 1	Average
0.30 - 0.40	0.346	30.70%	30.70%	8.78%	8.78%
0.40 - 0.55	0.469	35.70%	35.70%	12.05%	12.05%
0.55 - 0.70	0.620	40.11%	40.11%	13.96%	13.96%
0.70 - 1.00	0.837	47.42%	47.42%	19.85%	19.85%
1.00 - 1.30	1.140	52.25%	52.25%	25.52%	25.52%
1.30 - 1.60	1.442	58.23%	58.23%	31.12%	31.12%
1.60 - 2.20	1.876	69.57%	69.57%	46.71%	46.71%
1.60 - 3.00	2.569	86.18%	86.18%	74.73%	74.73%
3.00 - 4.00	3.464	96.15%	96.15%	93.26%	93.26%
4.00 - 5.50	4.690	98.66%	98.66%	99.66%	99.66%

## Efficiency vs. Particle Size



Requestor Information

Test Requestor: Jorgen Poulsen  
 Company Name: JP Airtech  
 Company Address: Skifervej2-4990 Sakskobing-Denmark

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 Email: [jp@jpairtech.com](mailto:jp@jpairtech.com)  
 Date Requested:

Test Operator Information

Test Performed by: Evan Sparks

Completion Date: 12/6/2018