



2820 S. English Station Road - Louisville, KY 40299

TEST NO. 18-463-3

# Test Report - Vertical Test Duct

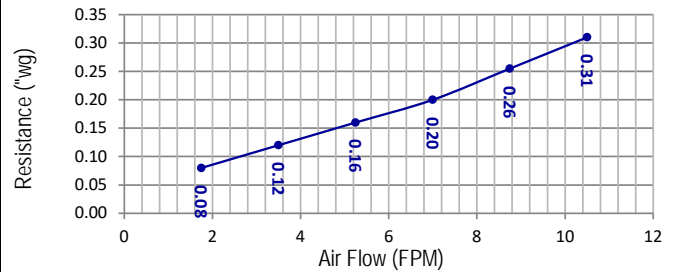
## EN779:2012 Flat Sheet Media Efficiency Pre/Post IPA Discharged Test

### Filter Description

Manufacturer	JP Air Tech	
Filter Model	Flat Sheet Media	
Part Number	JX135FR-NANO JP-C11	
Test Area	0.528 ft <sup>2</sup>	0.0490512 m <sup>2</sup>
Media Type	80/20 Cellulose with Nano	
Media Color	White	
Sample Procurement	JP Air Tech	

### Air Flow Versus Resistance

Velocity (%)	FPM / cm/s	Pre IPA		Post IPA Discharge	
		"WG	Pa	"WG	Pa
25	1.8 / 0.9	0.08	19.9	0.07	17.4
50	3.5 / 1.8	0.12	29.9	0.11	27.4
75	5.3 / 2.7	0.16	39.8	0.16	39.8
100	7.0 / 3.6	0.20	49.8	0.20	49.8
125	8.8 / 4.4	0.26	63.5	0.25	62.2
150	10.5 / 5.3	0.31	77.1	0.31	77.1



### 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)	81.2 Deg F	27.3 Deg C
Relative Humidity (%)	43.1	
Barometric Pressure (" Hg / Pa)	29.61 in. Hg	100.27 kPa

### Test Results

Initial Pressure Drop ("WG / Pa)	0.2 "WG	50 Pa
Initial Efficiency at 0.4 μm (%)	Untreated: 82.6 %	Discharged: 75.7 %
Filter Class	F9	

Treated with IPA Vapor - 48 hours

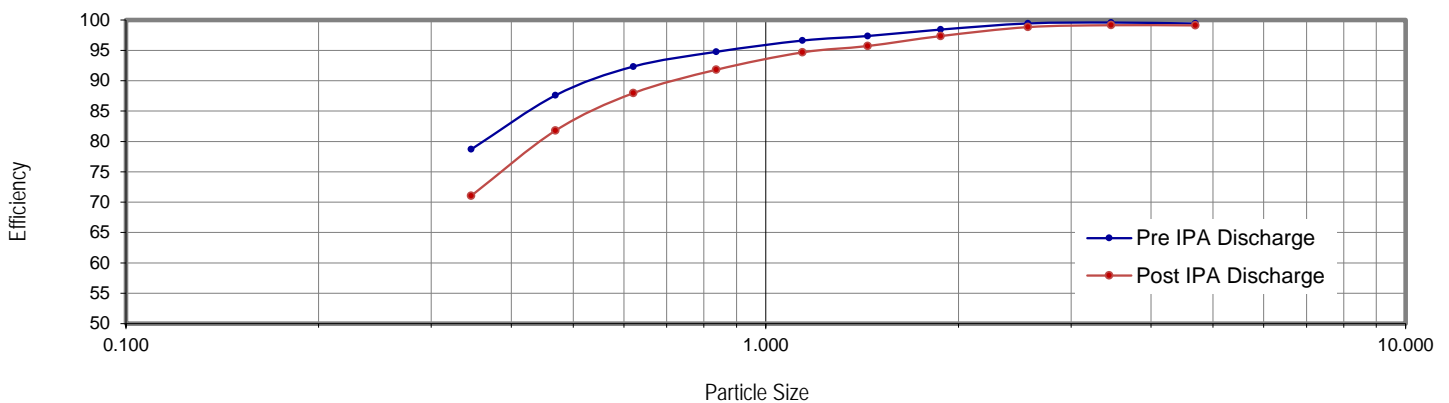
Particle Size Geometric Mean (μm)

Pre Discharge Efficiency (%)

Post Discharge Efficiency (%)

Particle Size (μm)	Geometric Mean (μm)	Test 1	Average	Test 1	Average
0.30 - 0.40	0.346	78.70%	78.70%	71.06%	71.06%
0.40 - 0.55	0.469	87.59%	87.59%	81.78%	81.78%
0.55 - 0.70	0.620	92.33%	92.33%	87.95%	87.95%
0.70 - 1.00	0.837	94.76%	94.76%	91.81%	91.81%
1.00 - 1.30	1.140	96.61%	96.61%	94.66%	94.66%
1.30 - 1.60	1.442	97.36%	97.36%	95.71%	95.71%
1.60 - 2.20	1.876	98.43%	98.43%	97.35%	97.35%
1.60 - 3.00	2.569	99.43%	99.43%	98.83%	98.83%
3.00 - 4.00	3.464	99.58%	99.58%	99.14%	99.14%
4.00 - 5.50	4.690	99.42%	99.42%	99.11%	99.11%

### Efficiency vs. Particle Size



Requestor Information	Test Requestor	Mads Bojda	Phone:	45 54 95 00 25
	Company Name	JP Air Tech	Email:	<a href="mailto:mb@jpairtech.com">mb@jpairtech.com</a>
	Company Address	Skifervej 2; DK-4990 Sakskobing Denmark	Date Requested	9/1/2018
Test Operator Information	Test Performed by:	Glen D Toloczko CAFS	Completion Date	9/7/2018