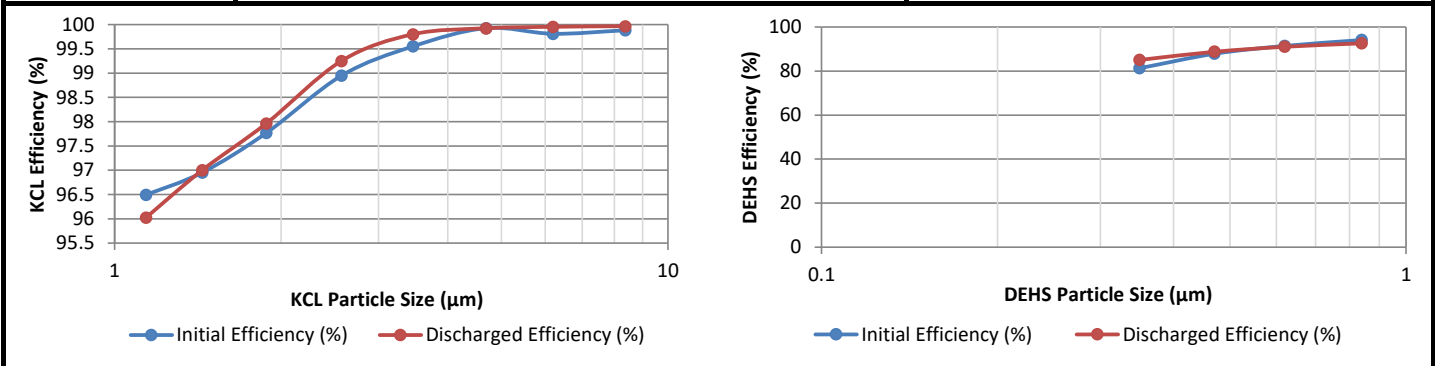


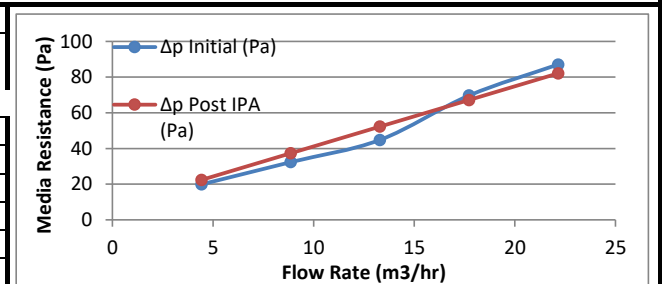
**ISO 16890-2 /-4:2016 Air Filter Test Result Summary**

<b>Counter Information</b>	Manufacturer <u>TSI, Inc.</u>	<b>Test Conditions</b>	Test Flow Rate <u>10.5 CFM / 17.84 m3/h</u>
	Model No. <u>3330</u>		Test Aerosol <u>Aerosolized KCl &amp; DEHS</u>
Serial No. <u>3330174305</u>	Temperature <u>73.0 Deg F / 22.8 Deg C</u>		
IPA Discharge Method <input checked="" type="checkbox"/> Vapor Treated <input type="checkbox"/> IPA Dip Method	Relative Humidity <u>36.0 %</u>		
			Barometer <u>29.58 in Hg / 100.17 kPa</u>

<b>Device Tested</b>	Manufacturer <u>JP Air Tech</u>
	Model <u>JX130-B-C-NANO-9</u>
	Dimensions <u>16" x 16"</u>
	Type of Media <u>Flat Sheet Media</u>
	Media Area <u>1.0 ft^2</u>
	Construction <u>N/A</u>
	Filter/Media Electrostatic Charge <u>N/A</u>
	Media Color <u>White</u>
	Media Adhesive <u>N/A</u>
	Sample Procurement <u>JP Air Tech</u>



KCL					
Range (µm)	Geo. Mean	Initial Efficiency (%)	Discharged Efficiency (%)	Upstream Number of Particles per Test	
				Pre	Post
1.0-1.3	1.14	96	96	22855	63437
1.3-1.6	1.44	97	97	12333	35887
1.6-2.0	1.88	98	98	26289	83915
2.0-3.0	2.57	99	99	14350	50766
3.0-4.0	3.46	100	100	6959	26343
4.0-5.5	4.69	100	100	3480	14765
5.5-7.0	6.20	100	100	795	4176
7.0-10.0	8.37	100	100	529	3132



%	m <sup>3</sup> /h	Δp Initial (Pa)	Δp Post IPA (Pa)
25	4.43	19.9	22.4
50	8.86	32.3	37.3
75	13.29	44.8	52.2
100	17.72	69.7	67.2
125	22.15	87.1	82.1

DEHS					
Range (µm)	Geo. Mean	Initial Efficiency (%)	Discharged Efficiency (%)	Upstream Number of Particles per Test	
				Pre	Post
0.3-0.4	0.35	81	85	253527	116545
0.4-0.55	0.47	88	89	237003	108333
0.55-0.7	0.62	91	91	152030	73933
0.7-1.0	0.84	94	93	215146	110403

Reporting Data			
	ePM <sub>1</sub>	ePM <sub>2,5</sub>	ePM <sub>10</sub>
<b>Minimum</b>	<b>89%</b>	<b>92%</b>	<b>97%</b>
<b>Average</b>	<b>88%</b>	<b>91%</b>	<b>97%</b>
<b>Reported</b>	<b>85%</b>	<b>90%</b>	<b>95%</b>

<b>Requestor Information</b>	Test Requestor <u>Cagri Tekman</u>	Phone: <u>+90 532 686 9259</u>
	Company Name <u>JP Air Tech</u>	Email: <u>ct@jpairtech.com</u>
	Company Address <u>Skifervej 2, 4990 Sakskobing, Denmark</u>	Requested Date: _____

ISO 16890-1										
Data Entry Table							Reporting Data			
DEHS								ePM <sub>1</sub>	ePM <sub>2,5</sub>	ePM <sub>10</sub>
$d_i$	$d_{i+1}$	$d_m$	$\Delta \ln d_i$	$E_i$	$E_{D,i}$	$E_{A,i}$	Minimum	89%	92%	--
0.30	0.40	0.35	0.29	81.3%	85.0%	83.2%	Average	88%	91%	97%
0.40	0.55	0.47	0.32	87.8%	88.7%	88.3%	Reported	85%	90%	95%
0.55	0.70	0.62	0.24	91.4%	91.0%	91.2%				
0.70	1.00	0.84	0.36	94.1%	92.6%	93.3%				
KCL										
1.00	1.30	1.14	0.26	96.5%	96.0%	96.3%				
1.30	1.60	1.44	0.21	97.0%	97.0%	97.0%				
1.60	2.20	1.88	0.32	97.8%	98.0%	97.9%				
2.20	3.00	2.57	0.31	98.9%	99.3%	99.1%				
3.00	4.00	3.46	0.29	99.6%	99.8%	99.7%				
4.00	5.50	4.69	0.32	99.9%	99.9%	99.9%				
5.50	7.00	6.20	0.24	99.8%	100.0%	99.9%				
7.00	10.00	8.37	0.36	99.9%	100.0%	99.9%				
ePM <sub>1</sub> Calculations										
$d_i$	$d_{i+1}$	$d_m$	$\Delta \ln d_i$	$E_{A,i}$	$q_{3\sigma}$	$q_{3\sigma} * \Delta \ln d_i$	$E_{D,i} * q_{3\sigma} * \Delta \ln d_i$	$E_{A,i} * q_{3\sigma} * \Delta \ln d_i$	E <sub>min</sub> (PM <sub>1</sub> )	E(PM <sub>1</sub> )
0.30	0.40	0.35	0.29	83.2%	22.627%	0.065095	0.055353	0.054129	89%	88%
0.40	0.55	0.47	0.32	88.3%	19.891%	0.063343	0.056215	0.055926		
0.55	0.70	0.62	0.24	91.2%	15.837%	0.038193	0.034759	0.034837		
0.70	1.00	0.84	0.36	93.3%	11.522%	0.041097	0.038051	0.038360		
Sums:					0.207728	0.184378	0.183251			
ePM <sub>2,5</sub> Calculations										
$d_i$	$d_{i+1}$	$d_m$	$\Delta \ln d_i$	$E_{A,i}$	$q_{3\sigma}$	$q_{3\sigma} * \Delta \ln d_i$	$E_{D,i} * q_{3\sigma} * \Delta \ln d_i$	$E_{A,i} * q_{3\sigma} * \Delta \ln d_i$	E <sub>min</sub> (PM <sub>2,5</sub> )	E(PM <sub>2,5</sub> )
0.30	0.40	0.35	0.29	83.2%	22.627%	0.065095	0.055353	0.054129	92%	91%
0.40	0.55	0.47	0.32	88.3%	19.891%	0.063343	0.056215	0.055926		
0.55	0.70	0.62	0.24	91.2%	15.837%	0.038193	0.034759	0.034837		
0.70	1.00	0.84	0.36	93.3%	11.522%	0.041097	0.038051	0.038360		
1.00	1.30	1.14	0.26	96.3%	8.503%	0.022309	0.021423	0.021475		
1.30	1.60	1.44	0.21	97.0%	7.618%	0.015817	0.015343	0.015339		
1.60	2.20	1.88	0.32	97.9%	8.022%	0.025546	0.025026	0.025001		
2.20	3.00	2.57	0.31	99.1%	9.984%	0.030966	0.030734	0.030687		
Sums:					0.302366	0.276903	0.275754			
ePM <sub>10</sub> Calculations										
$d_i$	$d_{i+1}$	$d_m$	$\Delta \ln d_i$	$E_{A,i}$	$q_{3\sigma}$	$q_{3\sigma} * \Delta \ln d_i$	$E_{D,i} * q_{3\sigma} * \Delta \ln d_i$	$E_{A,i} * q_{3\sigma} * \Delta \ln d_i$	E <sub>min</sub> (PM <sub>10</sub> )	E(PM <sub>10</sub> )
0.30	0.40	0.35	0.29	83.2%	9.412%	0.027077	0.023025	0.022515	97%	97%
0.40	0.55	0.47	0.32	88.3%	8.395%	0.026733	0.023725	0.023603		
0.55	0.70	0.62	0.24	91.2%	7.432%	0.017924	0.016312	0.016349		
0.70	1.00	0.84	0.36	93.3%	7.014%	0.025016	0.023162	0.023350		
1.00	1.30	1.14	0.26	96.3%	7.628%	0.020013	0.019218	0.019265		
1.30	1.60	1.44	0.21	97.0%	8.833%	0.018340	0.017790	0.017786		
1.60	2.20	1.88	0.32	97.9%	10.804%	0.034406	0.033706	0.033672		
2.20	3.00	2.57	0.31	99.1%	13.726%	0.042573	0.042254	0.042189		
3.00	4.00	3.46	0.29	99.7%	16.708%	0.048067	0.047971	0.047911		
4.00	5.50	4.69	0.32	99.9%	19.542%	0.062233	0.062186	0.062187		
5.50	7.00	6.20	0.24	99.9%	21.671%	0.052261	0.052238	0.052200		
7.00	10.00	8.37	0.36	99.9%	23.143%	0.082545	0.082518	0.082483		
Sums:					0.457189	0.444105	0.443511			

