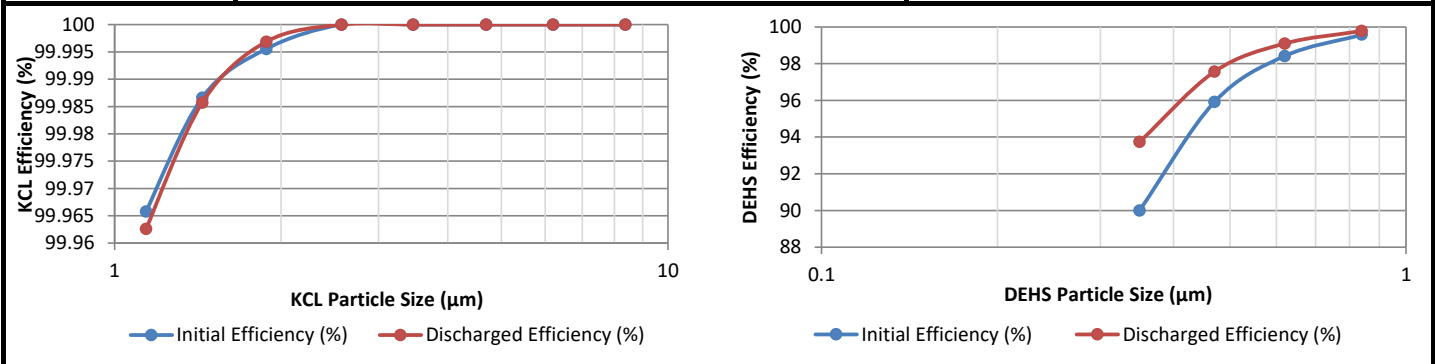


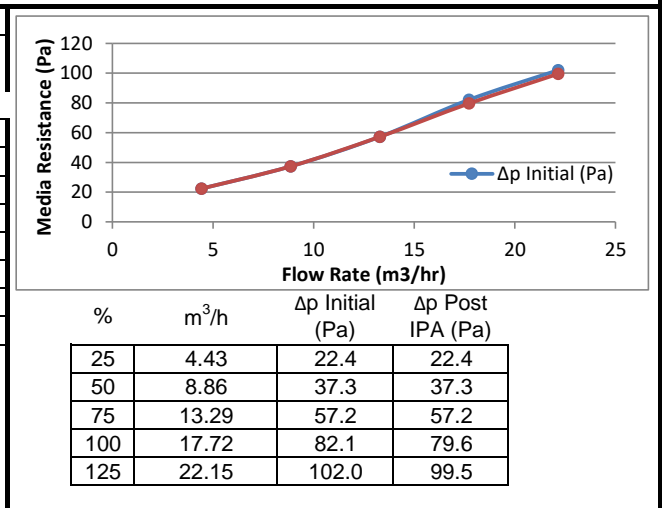
# ISO 16890-2 /-4:2016 Air Filter Test Result Summary

<b>Counter Information</b>	Manufacturer <u>TSI, Inc.</u>	<b>Test Conditions</b>	Test Flow Rate <u>10.4 CFM / 17.72 m3/h</u>
	Model No. <u>3330</u>		Test Aerosol <u>Aerosolized KCl &amp; DEHS</u>
	Serial No. <u>3330174305</u>		Temperature <u>69.0 Deg F / 20.6 Deg C</u>
	IPA Discharge <input checked="" type="checkbox"/> Vapor Treated		Relative Humidity <u>36.6 %</u>
	Method <input type="checkbox"/> IPA Dip Method		Barometer <u>29.31 in Hg / 99.26 kPa</u>

<b>Device Tested</b>	Manufacturer <u>JP Air Tech</u>
	Model <u>JX124-B-Ecoweb</u>
	Dimensions <u>16" x 16"</u>
	Type of Media <u>Flat Sheet Media</u>
	Media Area <u>1.0 ft2 / 0.09 m2 Tested Area</u>
	Construction <u>N/A</u>
	Filter/Media Electrostatic Charge <u>N/A</u>
	Media Color <u>White</u>
	Media Adhesive <u>NA</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	99.97	99.96	163555	103767
1.3-1.6	1.44	99.99	99.99	103620	61882
1.6-2.0	1.88	100.00	100.00	244689	155807
2.0-3.0	2.57	100.00	100.00	133511	105630
3.0-4.0	3.46	100.00	100.00	59546	56133
4.0-5.5	4.69	100.00	100.00	29062	31750
5.5-7.0	6.20	100.00	100.00	7795	8105
7.0-10.0	8.37	100.00	100.00	5926	4878



DEHS					
Range (µm)	Geo. Mean	Initial Efficiency (%)	Discharged Efficiency (%)	Upstream Number of Particles per Test	
				Pre	Post
0.3-0.4	0.35	90	94	619771	463839
0.4-0.55	0.47	96	98	584443	435557
0.55-0.7	0.62	98	99	373008	273780
0.7-1.0	0.84	100	100	571730	398950

Reporting Data			
	ePM <sub>1</sub>	ePM <sub>2.5</sub>	ePM <sub>10</sub>
<b>Minimum</b>	<b>97%</b>	<b>98%</b>	<b>99%</b>
<b>Average</b>	<b>96%</b>	<b>97%</b>	<b>99%</b>
<b>Reported</b>	<b>95%</b>	<b>95%</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	97%	98%	--
0.30	0.40	0.35	0.29	90.0%	93.7%	91.9%	Average	96%	97%	99%
0.40	0.55	0.47	0.32	95.9%	97.6%	96.7%	Reported	95%	95%	95%
0.55	0.70	0.62	0.24	98.4%	99.1%	98.8%				
0.70	1.00	0.84	0.36	99.6%	99.8%	99.7%				
KCL										
1.00	1.30	1.14	0.26	100.0%	100.0%	100.0%				
1.30	1.60	1.44	0.21	100.0%	100.0%	100.0%				
1.60	2.20	1.88	0.32	100.0%	100.0%	100.0%				
2.20	3.00	2.57	0.31	100.0%	100.0%	100.0%				
3.00	4.00	3.46	0.29	100.0%	100.0%	100.0%				
4.00	5.50	4.69	0.32	100.0%	100.0%	100.0%				
5.50	7.00	6.20	0.24	100.0%	100.0%	100.0%				
7.00	10.00	8.37	0.36	100.0%	100.0%	100.0%				
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	91.9%	22.627%	0.065095	0.061017	0.059800	97%	96%
0.40	0.55	0.47	0.32	96.7%	19.891%	0.063343	0.061799	0.061275		
0.55	0.70	0.62	0.24	98.8%	15.837%	0.038193	0.037849	0.037719		
0.70	1.00	0.84	0.36	99.7%	11.522%	0.041097	0.041009	0.040967		
Sums:					0.207728	0.201674	0.199761			
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	91.9%	22.627%	0.065095	0.061017	0.059800	98%	97%
0.40	0.55	0.47	0.32	96.7%	19.891%	0.063343	0.061799	0.061275		
0.55	0.70	0.62	0.24	98.8%	15.837%	0.038193	0.037849	0.037719		
0.70	1.00	0.84	0.36	99.7%	11.522%	0.041097	0.041009	0.040967		
1.00	1.30	1.14	0.26	100.0%	8.503%	0.022309	0.022301	0.022301		
1.30	1.60	1.44	0.21	100.0%	7.618%	0.015817	0.015815	0.015815		
1.60	2.20	1.88	0.32	100.0%	8.022%	0.025546	0.025545	0.025545		
2.20	3.00	2.57	0.31	100.0%	9.984%	0.030966	0.030966	0.030966		
Sums:					0.302366	0.296301	0.294388			
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	91.9%	9.412%	0.027077	0.025381	0.024874	99%	99%
0.40	0.55	0.47	0.32	96.7%	8.395%	0.026733	0.026081	0.025860		
0.55	0.70	0.62	0.24	98.8%	7.432%	0.017924	0.017763	0.017701		
0.70	1.00	0.84	0.36	99.7%	7.014%	0.025016	0.024962	0.024937		
1.00	1.30	1.14	0.26	100.0%	7.628%	0.020013	0.020006	0.020006		
1.30	1.60	1.44	0.21	100.0%	8.833%	0.018340	0.018337	0.018337		
1.60	2.20	1.88	0.32	100.0%	10.804%	0.034406	0.034405	0.034405		
2.20	3.00	2.57	0.31	100.0%	13.726%	0.042573	0.042573	0.042573		
3.00	4.00	3.46	0.29	100.0%	16.708%	0.048067	0.048067	0.048067		
4.00	5.50	4.69	0.32	100.0%	19.542%	0.062233	0.062233	0.062233		
5.50	7.00	6.20	0.24	100.0%	21.671%	0.052261	0.052261	0.052261		
7.00	10.00	8.37	0.36	100.0%	23.143%	0.082545	0.082545	0.082545		
Sums:					0.457189	0.454614	0.453800			

