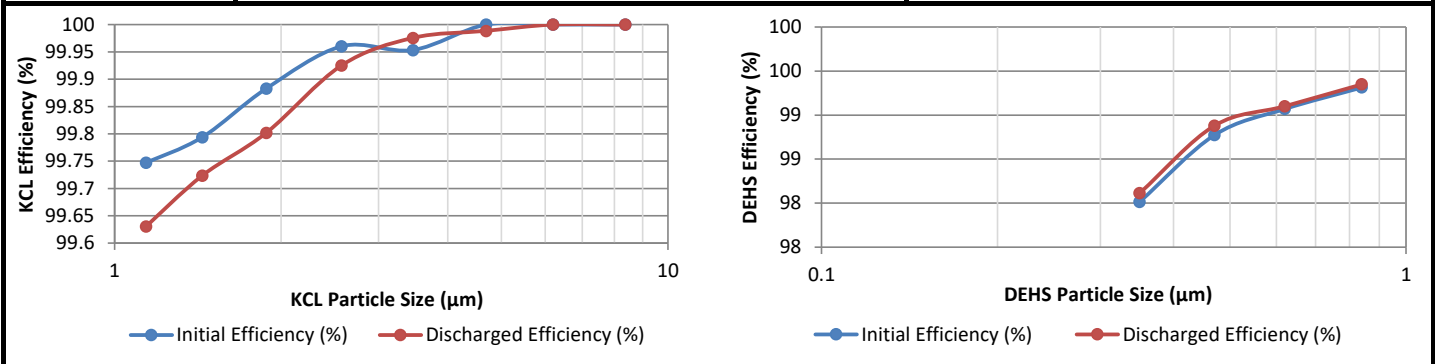


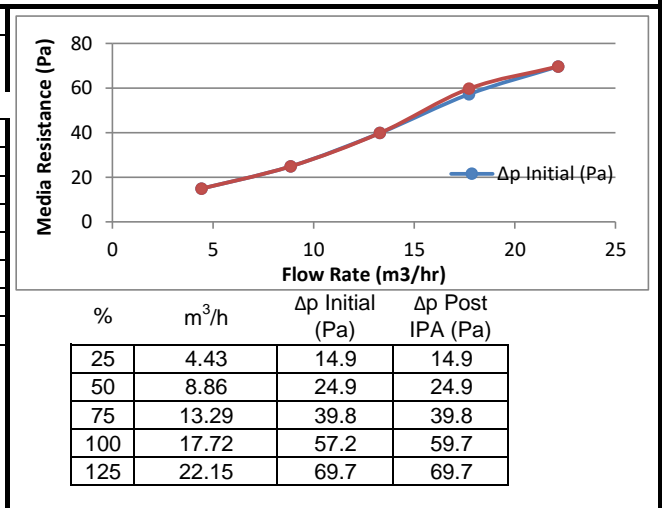
ISO 16890-2 /-4:2016 Air Filter Test Result Summary

Counter Information	Manufacturer <u>TSI, Inc.</u>	Test Conditions	Test Flow Rate <u>2.0 CFM / 3.47 m3/h</u>
	Model No. <u>3330</u>		Test Aerosol <u>Aerosolized KCl & 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>

Device Tested	Manufacturer <u>JP Air Tech</u>
	Model <u>JX178-B-Ecoweb</u>
	Dimensions <u>12" x 12"</u>
	Type of Media <u>Flat Sheet Media</u>
	Media Area <u>0.20 ft2 / 0.02 m2 Tested Area</u>
	Construction <u>NA</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	99.7	99.6	21311	179197
1.3-1.6	1.44	99.8	99.7	12426	107210
1.6-2.0	1.88	99.9	99.8	30198	274211
2.0-3.0	2.57	100.0	99.9	19538	187360
3.0-4.0	3.46	100.0	100.0	11413	99393
4.0-5.5	4.69	100.0	100.0	6941	53290
5.5-7.0	6.20	100.0	100.0	1868	12714
7.0-10.0	8.37	100.0	100.0	1251	7235



DEHS					
Range (µm)	Geo. Mean	Initial Efficiency (%)	Discharged Efficiency (%)	Upstream Number of Particles per Test	
				Pre	Post
0.3-0.4	0.35	98	98	577841	426351
0.4-0.55	0.47	99	99	556169	403842
0.55-0.7	0.62	99	99	361233	261163
0.7-1.0	0.84	99	99	586652	392143

Reporting Data			
	ePM ₁	ePM _{2.5}	ePM ₁₀
Minimum	99%	99%	####
Average	99%	99%	####
Reported	95%	95%	####

Requestor Information	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 ₁	ePM _{2,5}	ePM ₁₀
d_i	d_{i+1}	d_m	$\Delta \ln d_i$	E_i	$E_{D,i}$	$E_{A,i}$	Minimum	99%	99%	--
0.30	0.40	0.35	0.29	98.0%	98.1%	98.1%	Average	99%	99%	100%
0.40	0.55	0.47	0.32	98.8%	98.9%	98.8%	Reported	95%	95%	100%
0.55	0.70	0.62	0.24	99.1%	99.1%	99.1%				
0.70	1.00	0.84	0.36	99.3%	99.3%	99.3%				
KCL										
1.00	1.30	1.14	0.26	99.7%	99.6%	99.7%				
1.30	1.60	1.44	0.21	99.8%	99.7%	99.8%				
1.60	2.20	1.88	0.32	99.9%	99.8%	99.8%				
2.20	3.00	2.57	0.31	100.0%	99.9%	99.9%				
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 ₁ 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 _{min} (PM ₁)	E(PM ₁)
0.30	0.40	0.35	0.29	98.1%	22.627%	0.065095	0.063866	0.063834	99%	99%
0.40	0.55	0.47	0.32	98.8%	19.891%	0.063343	0.062633	0.062599		
0.55	0.70	0.62	0.24	99.1%	15.837%	0.038193	0.037850	0.037844		
0.70	1.00	0.84	0.36	99.3%	11.522%	0.041097	0.040829	0.040822		
Sums:					0.207728	0.205178	0.205098			
ePM _{2,5} 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 _{min} (PM _{2,5})	E(PM _{2,5})
0.30	0.40	0.35	0.29	98.1%	22.627%	0.065095	0.063866	0.063834	99%	99%
0.40	0.55	0.47	0.32	98.8%	19.891%	0.063343	0.062633	0.062599		
0.55	0.70	0.62	0.24	99.1%	15.837%	0.038193	0.037850	0.037844		
0.70	1.00	0.84	0.36	99.3%	11.522%	0.041097	0.040829	0.040822		
1.00	1.30	1.14	0.26	99.7%	8.503%	0.022309	0.022227	0.022240		
1.30	1.60	1.44	0.21	99.8%	7.618%	0.015817	0.015774	0.015779		
1.60	2.20	1.88	0.32	99.8%	8.022%	0.025546	0.025495	0.025506		
2.20	3.00	2.57	0.31	99.9%	9.984%	0.030966	0.030942	0.030948		
Sums:					0.302366	0.299616	0.299571			
ePM ₁₀ 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 _{min} (PM ₁₀)	E(PM ₁₀)
0.30	0.40	0.35	0.29	98.1%	9.412%	0.027077	0.026565	0.026552	100%	100%
0.40	0.55	0.47	0.32	98.8%	8.395%	0.026733	0.026433	0.026419		
0.55	0.70	0.62	0.24	99.1%	7.432%	0.017924	0.017763	0.017760		
0.70	1.00	0.84	0.36	99.3%	7.014%	0.025016	0.024853	0.024849		
1.00	1.30	1.14	0.26	99.7%	7.628%	0.020013	0.019939	0.019951		
1.30	1.60	1.44	0.21	99.8%	8.833%	0.018340	0.018289	0.018296		
1.60	2.20	1.88	0.32	99.8%	10.804%	0.034406	0.034338	0.034352		
2.20	3.00	2.57	0.31	99.9%	13.726%	0.042573	0.042541	0.042548		
3.00	4.00	3.46	0.29	100.0%	16.708%	0.048067	0.048055	0.048050		
4.00	5.50	4.69	0.32	100.0%	19.542%	0.062233	0.062226	0.062230		
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	0.455810	0.455813			

