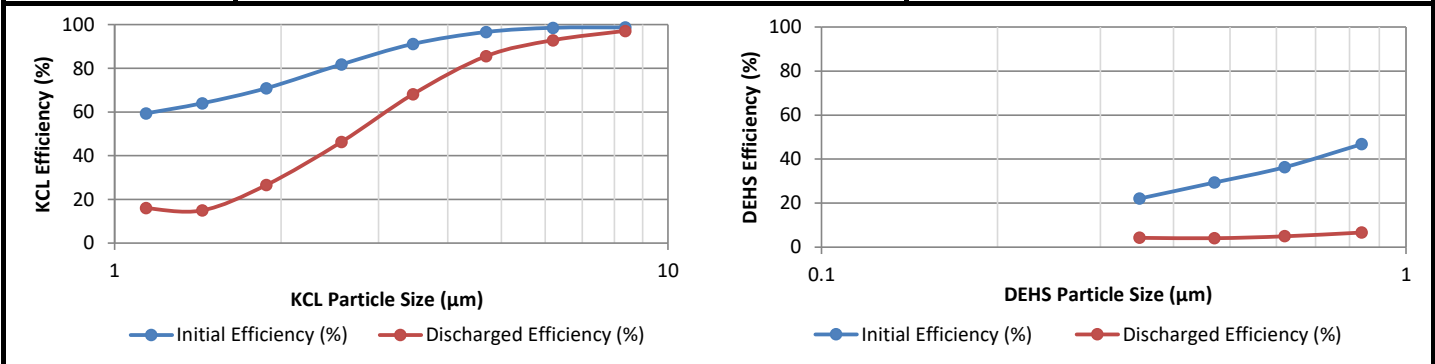


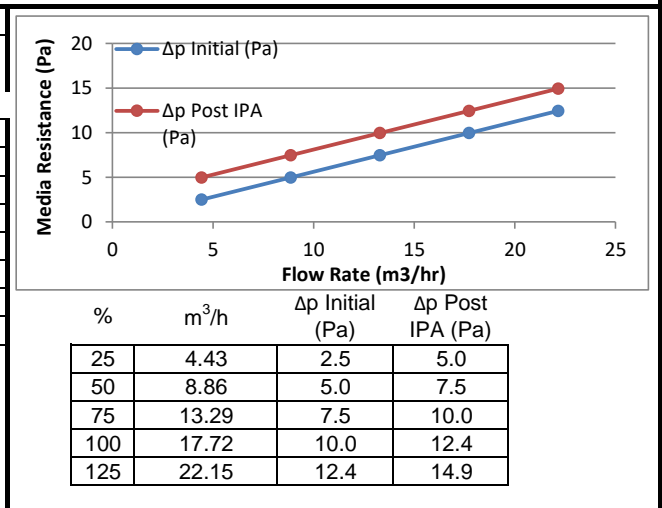
ISO 16890-2 /-4:2016 Air Filter Test Result Summary

Counter Information	Manufacturer <u>TSI, Inc.</u>	Test Conditions	Test Flow Rate <u>10.5 CFM / 17.84 m3/h</u>
	Model No. <u>3330</u>		Test Aerosol <u>Aerosolized KCl & 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>

Device Tested	Manufacturer <u>JP Air Tech</u>
	Model <u>JX130B</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	59	16	98649	10351
1.3-1.6	1.44	64	15	53302	5963
1.6-2.0	1.88	71	27	115441	14707
2.0-3.0	2.57	82	46	63396	9473
3.0-4.0	3.46	91	68	29013	5030
4.0-5.5	4.69	97	86	12583	2918
5.5-7.0	6.20	99	93	2370	858
7.0-10.0	8.37	99	97	1247	725



DEHS					
Range (µm)	Geo. Mean	Initial Efficiency (%)	Discharged Efficiency (%)	Upstream Number of Particles per Test	
				Pre	Post
0.3-0.4	0.35	22	4	207446	176041
0.4-0.55	0.47	29	4	194575	165868
0.55-0.7	0.62	36	5	123842	112020
0.7-1.0	0.84	47	7	173864	165827

Reporting Data			
	ePM ₁	ePM _{2.5}	ePM ₁₀
Minimum	5%	12%	56%
Average	18%	28%	66%
Reported	N/A*	N/A*	65%

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	Δln d _i	E _i	E _{D,i}	E _{A,i}	Minimum	5%	12%	--
0.30	0.40	0.35	0.29	22.1%	4.2%	13.2%	Average	18%	28%	66%
0.40	0.55	0.47	0.32	29.4%	4.1%	16.7%	Reported	N/A*	N/A*	65%
0.55	0.70	0.62	0.24	36.3%	4.9%	20.6%	* Any Reporting value of N/A shows the minimum efficiency is below 50% for that ePM value			
0.70	1.00	0.84	0.36	46.8%	6.7%	26.7%				
KCL										
1.00	1.30	1.14	0.26	59.4%	16.0%	37.7%				
1.30	1.60	1.44	0.21	64.0%	15.0%	39.5%				
1.60	2.20	1.88	0.32	70.9%	26.6%	48.7%				
2.20	3.00	2.57	0.31	81.8%	46.3%	64.0%				
3.00	4.00	3.46	0.29	91.1%	68.1%	79.6%				
4.00	5.50	4.69	0.32	96.6%	85.5%	91.1%				
5.50	7.00	6.20	0.24	98.5%	92.9%	95.7%				
7.00	10.00	8.37	0.36	98.7%	97.1%	97.9%				
ePM ₁ Calculations										
d _i	d _{i+1}	d _m	Δln d _i	E _{A,i}	q _{3σ}	q _{3σ} *Δln d _i	E _{D,i} *q _{3σ} *Δln d _i	E _{A,i} *q _{3σ} *Δln d _i	E _{min} (PM ₁)	E(PM ₁)
0.30	0.40	0.35	0.29	13.2%	22.627%	0.065095	0.002761	0.008564	5%	18%
0.40	0.55	0.47	0.32	16.7%	19.891%	0.063343	0.002583	0.010587		
0.55	0.70	0.62	0.24	20.6%	15.837%	0.038193	0.001882	0.007878		
0.70	1.00	0.84	0.36	26.7%	11.522%	0.041097	0.002735	0.010982		
Sums:					0.207728	0.009961	0.038012			
ePM _{2.5} Calculations										
d _i	d _{i+1}	d _m	Δln d _i	E _{A,i}	q _{3σ}	q _{3σ} *Δln d _i	E _{D,i} *q _{3σ} *Δln d _i	E _{A,i} *q _{3σ} *Δln d _i	E _{min} (PM _{2.5})	E(PM _{2.5})
0.30	0.40	0.35	0.29	13.2%	22.627%	0.065095	0.002761	0.008564	12%	28%
0.40	0.55	0.47	0.32	16.7%	19.891%	0.063343	0.002583	0.010587		
0.55	0.70	0.62	0.24	20.6%	15.837%	0.038193	0.001882	0.007878		
0.70	1.00	0.84	0.36	26.7%	11.522%	0.041097	0.002735	0.010982		
1.00	1.30	1.14	0.26	37.7%	8.503%	0.022309	0.003572	0.008411		
1.30	1.60	1.44	0.21	39.5%	7.618%	0.015817	0.002365	0.006244		
1.60	2.20	1.88	0.32	48.7%	8.022%	0.025546	0.006790	0.012449		
2.20	3.00	2.57	0.31	64.0%	9.984%	0.030966	0.014340	0.019833		
Sums:					0.302366	0.037028	0.084949			
ePM ₁₀ Calculations										
d _i	d _{i+1}	d _m	Δln d _i	E _{A,i}	q _{3σ}	q _{3σ} *Δln d _i	E _{D,i} *q _{3σ} *Δln d _i	E _{A,i} *q _{3σ} *Δln d _i	E _{min} (PM ₁₀)	E(PM ₁₀)
0.30	0.40	0.35	0.29	13.2%	9.412%	0.027077	0.001149	0.003562	56%	66%
0.40	0.55	0.47	0.32	16.7%	8.395%	0.026733	0.001090	0.004468		
0.55	0.70	0.62	0.24	20.6%	7.432%	0.017924	0.000883	0.003697		
0.70	1.00	0.84	0.36	26.7%	7.014%	0.025016	0.001665	0.006685		
1.00	1.30	1.14	0.26	37.7%	7.628%	0.020013	0.003205	0.007545		
1.30	1.60	1.44	0.21	39.5%	8.833%	0.018340	0.002742	0.007240		
1.60	2.20	1.88	0.32	48.7%	10.804%	0.034406	0.009145	0.016768		
2.20	3.00	2.57	0.31	64.0%	13.726%	0.042573	0.019715	0.027267		
3.00	4.00	3.46	0.29	79.6%	16.708%	0.048067	0.032740	0.038272		
4.00	5.50	4.69	0.32	91.1%	19.542%	0.062233	0.053240	0.056678		
5.50	7.00	6.20	0.24	95.7%	21.671%	0.052261	0.048535	0.050018		
7.00	10.00	8.37	0.36	97.9%	23.143%	0.082545	0.080183	0.080829		
Sums:					0.457189	0.254292	0.303029			

