

Politecnico di Torino - Dipartimento Energia

Efficiency Assessment

Test No.:	5020	Petitioner:	Politecnico-Dipartimento Energia
Date:	18/06/2024	Medium:	n ° 6 -
Measurement no.:	1	Manufacturer:	Technostat
Area [m²]:	0.02	Medium type:	
Filter class:		Lot:	FA6900NW
Aerosol:	KCI	Air flow rate through filter:	0.002[m³/s] (7.2[m³/h])
Sampling cycles:	6	Filter air flow resistance [Pa]:	171
Sampling cycle time [s]:	45	Air flow rate entering OPC [cm³/min]:	1000
Dilution factor:	1	Correlation ratio:	992-06/18/2024 4:55:28 PM-Mate
Neutralizer:	Topas EAN 581	OPC:	OPS 3330 ip121
Conditioned / Discharged	No	Test environment:	23 °C /43% /98400Pa
Remarks:	OPC 3330 KCI 20% 121 SLPM, piastra d=160mm, sovrappressione = 50 Pa +5.4kV -5kV		

Size class [μm]	Particle concentration [#/dm³]		Efficiency [%]	Deviation [+/-]	Uncertainty [+/-]	Meaningful cycles
	Upstream	Downstream				
0.30 - 0.40 μm	478 416	193 853	59.45	0.37	0.39	6
0.40 - 0.55 μm	165 843	47 243	71.79	0.45	0.47	6
0.55 - 0.70 μm	46 174	9 605	79.41	0.44	0.46	6
0.70 - 1.00 μm	42 282	6 352	85.14	0.32	0.33	6
1.00 - 1.30 μm	3 298	230	93.04	0.30	0.32	6
1.30 - 1.60 μm	1 421	64	95.51	0.87	0.91	6
1.60 - 2.20 μm	514	16	96.97	1.03	1.08	6
2.20 - 3.00 μm	47	0	100.00	0.00	0.00	6
3.00 - 4.00 μm	10	0	100.00	0.00	0.00	6
4.00 - 5.50 μm	2	0	100.00	0.00	0.00	6
5.50 - 7.00 μm	0	0	100.00	0.00	0.00	2
7.00 - 10.00 μm	0	0	N/D	N/D	N/D	0
> 10.00 μm	0	0	100.00	0.00	0.00	2

