

TEST REPORT: 7191237181-CHM20-YMG

Date: 13 MAY 2020

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Client's Ref:

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SUBJECT

Filtration Media - Filtration Performance Test

CLIENT

RESPILON Group s.r.o
Cejl 12, 602 00 Brno
Czech Republic

Attn: Ing. Aleš Koníček

TEST DATE

6 May 2020

DESCRIPTION OF PRODUCT

The photo of filtration media product tested is showed in Annex A.

METHOD OF TEST

Smoke is introduced to a test chamber (Annex B). The concentrations of particulate matter in air are monitored before and after filtration media's filtration for every 1 minute under air flow rate 1.2 L/min. Each Run is lasting for 5 minutes.



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RESULTS

Run No.	Dust concentration (particles per cubic meter) before filtration					
	> 0.3 micron	> 0.5 micron	> 1.0 micron	> 2.5 micron	> 5.0 micron	> 10.0 micron
1	41,470,013	3,688,970	347,496	24,367	3,178	1,766
2	38,992,689	3,352,421	305,825	32,136	4,591	1,766
3	43,973,469	4,089,791	401,175	33,902	5,297	2,825
4	42,862,470	3,974,313	384,930	35,315	6,003	2,472
5	41,121,810	3,699,564	348,556	34,608	4,944	2,825
Average	41,684,090	3,761,012	357,596	32,066	4,803	2,331
Run No.	Dust concentration (particles per cubic meter) after filtration					
	> 0.3 micron	> 0.5 micron	> 1.0 micron	> 2.5 micron	> 5.0 micron	> 10.0 micron
1	15,048,639	726,423	38,846	2,472	0	0
2	15,292,310	745,846	49,087	3,885	353	0
3	15,362,939	767,388	40,965	2,825	706	0
4	15,654,638	793,167	45,203	3,178	353	0
5	15,587,187	770,213	50,147	4,591	0	0
Average	15,389,143	760,607	44,850	3,390	283	0
Removal Efficiency	63.08%	79.78%	87.46%	89.43%	94.12%	100.00%

MS YEW MUN GEOK
TECHNICAL EXECUTIVE
CHEMICAL CENTER

DR. YANG LEI
EXECUTIVE CONSULTANT
CHEMICAL CENTRE

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Annex A:

Product Name Filtration media

Photo



Annex B: Schematic of test chamber

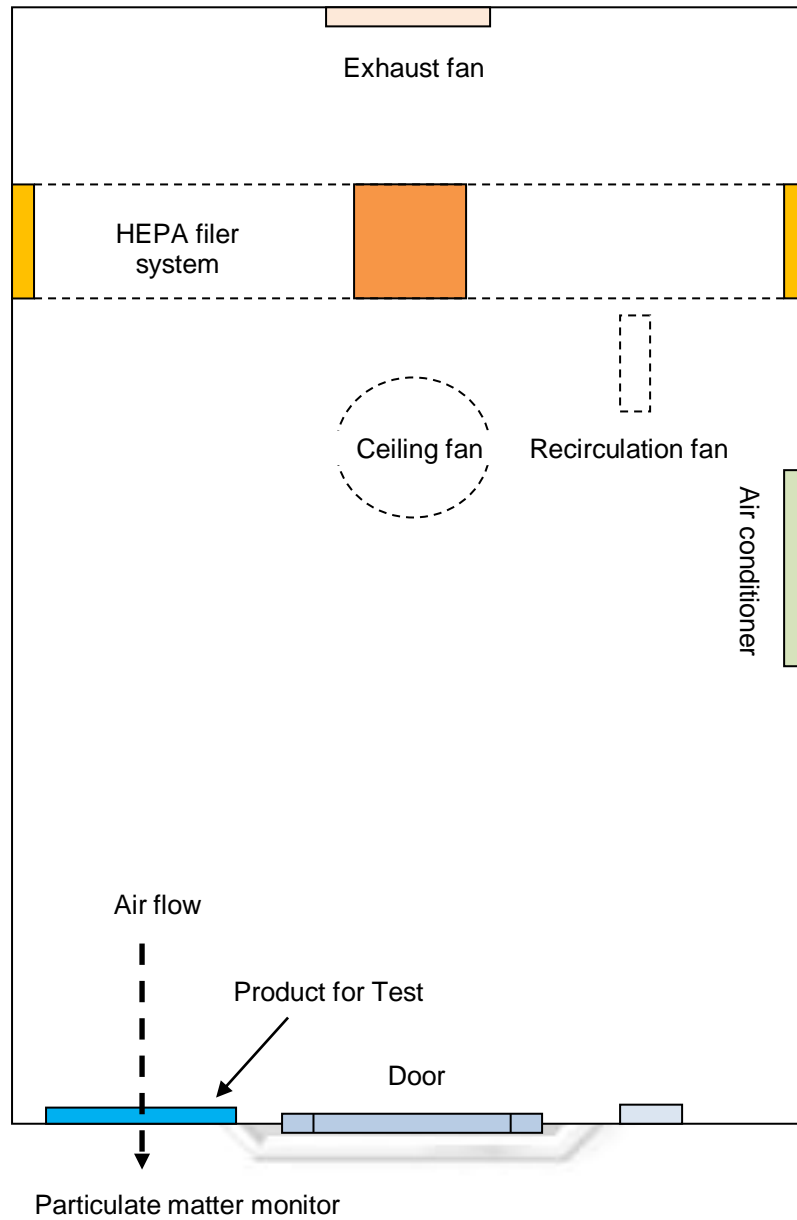


Figure 1 Schematic layout of the test chamber

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July 2011

