

## TEST REPORT: 7191174289-CHM17-YL

Date: 14 NOV 2017

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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: Miroslav Mašek

### TEST DATE

13 Nov 2017

### 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 mintues.



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**RESULTS**

Dust concentration (particles per cubic meter) before filtration					
Run No.	> 0.5 micron	> 1.0 micron	> 2.5 micron	> 5.0 micron	> 10.0 micron
1	3,141,451	296,008	66,886	4,308	424
2	3,114,824	278,986	61,730	3,320	424
3	3,115,036	268,745	56,645	3,531	777
4	3,105,077	269,098	57,422	2,966	636
5	3,233,270	272,912	57,492	3,531	1,130
Average	3,141,932	277,150	60,035	3,531	678
Dust concentration (particles per cubic meter) after filtration					
Run No.	> 0.5 micron	> 1.0 micron	> 2.5 micron	> 5.0 micron	> 10.0 micron
1	1,352,552	24,155	1,907	0	0
2	1,333,482	23,802	1,766	0	0
3	1,311,869	23,661	1,695	0	0
4	1,243,641	20,906	1,342	0	0
5	1,175,131	20,553	1,624	0	0
Average	1,283,335	22,616	1,667	0	0
Removal Efficiency	59.15%	91.84%	97.22%	100.00%	100.00%

**DR. YANG LEI**  
EXECUTIVE CONSULTANT  
CHEMICAL CENTRE

**DR. CHEN HUAYI**  
ASSISTANT VICE PRESIDENT  
CHEMICAL CENTRE

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14 NOV 2017

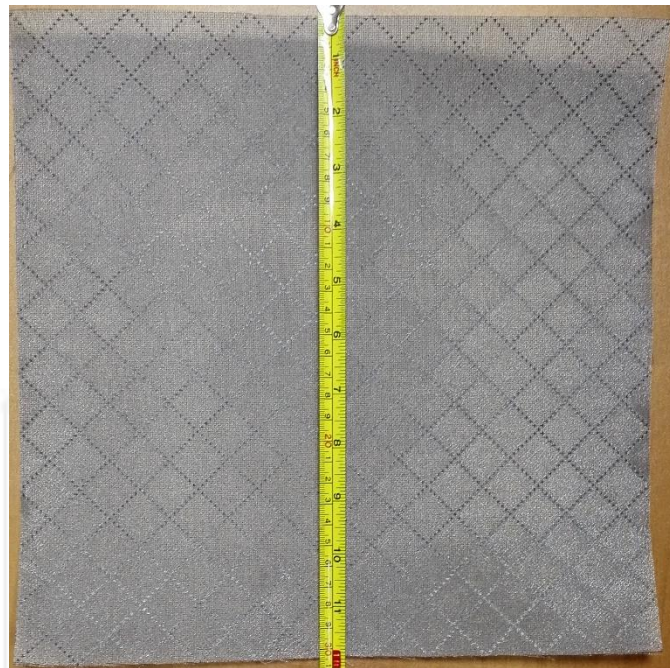


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Annex A:

Product Name    Filtration media

Photo



Annex B: Schematic of test chamber

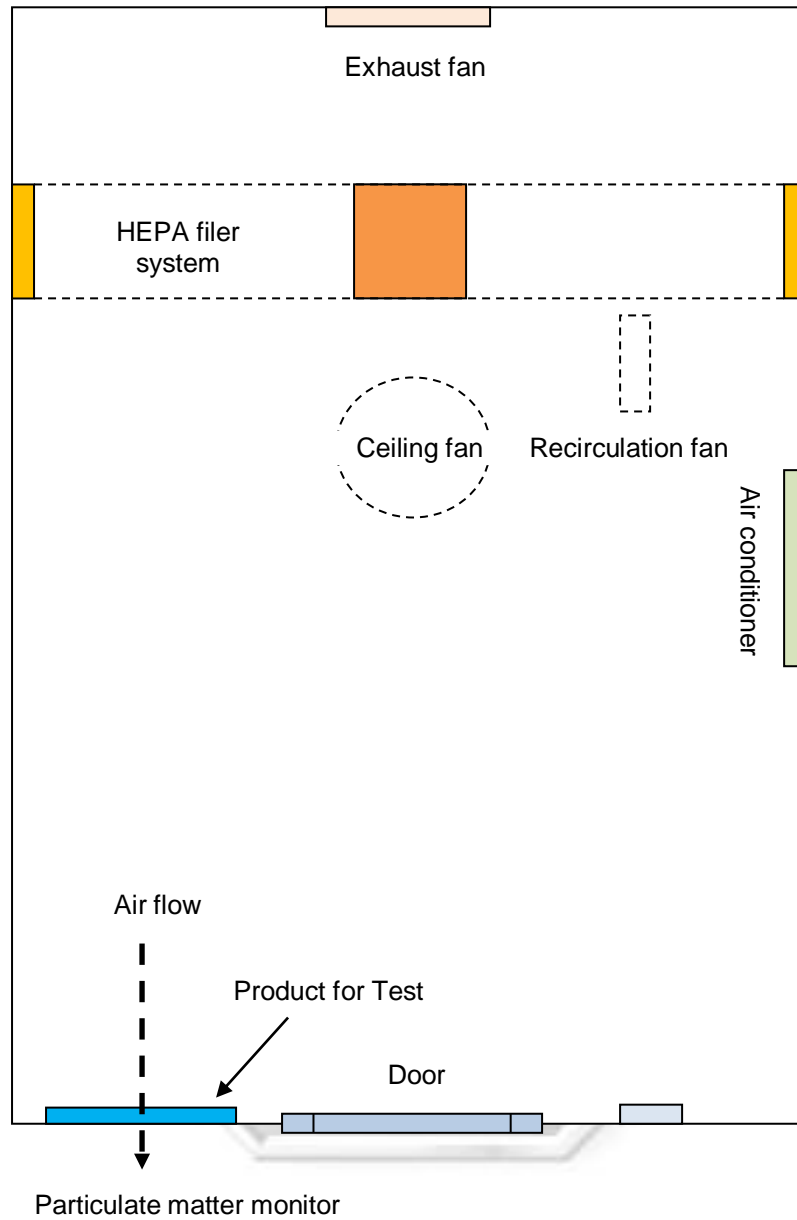


Figure 1 Schematic layout of the test chamber



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July 2011

