

TEST REPORT: 7191287910-CHM22-02-YL

Date: 21 SEP 2022

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Client's Ref:

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SUBJECT

Filtration Media - Filtration Performance Test

CLIENT

RESPILON Membranes s.r.o.
Nové sady 988/2, Staré Brno, 602 00 Brno
ID: 10994611
Czech Republic

Attn: Ing. Aleš Koníček

SAMPLE RECEIVED DATE

5 SEP 2022

DESCRIPTION OF PRODUCT

The photo of filtration media product with name "Anti-Smog Window Membrane RWM 6" 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

Dust concentration (particles per cubic meter) before filtration by Anti-Smog Window Membrane RWM 6						
Run No.	> 0.3 micron	> 0.5 micron	> 1.0 micron	> 2.5 micron	> 5 micron	> 10 micron
1	61,720,855	9,008,771	2,840,359	946,786	200,587	43,084
2	61,526,271	9,114,715	2,888,740	976,097	194,231	42,024
3	60,857,058	9,296,939	3,052,600	996,580	197,762	34,962
4	60,741,579	9,416,656	3,217,519	1,073,919	210,122	42,378
5	59,698,384	9,341,082	3,185,030	1,071,094	206,238	41,671
Average	60,908,829	9,235,633	3,036,849	1,012,895	201,788	40,824
Dust concentration (particles per cubic meter) after filtration by Anti-Smog Window Membrane RWM 6						
Run No.	> 0.3 micron	> 0.5 micron	> 1.0 micron	> 2.5 micron	> 5 micron	> 10 micron
1	24,941,901	2,060,470	238,727	21,542	636	0
2	24,723,798	1,999,799	225,308	18,505	706	0
3	24,591,015	1,959,823	218,810	18,434	424	71
4	24,329,404	1,914,126	204,048	17,516	565	0
5	24,263,224	1,877,116	194,725	12,996	424	71
Average	24,569,868	1,962,266	216,324	17,799	551	28
Removal Efficiency	59.66%	78.74%	92.83%	98.23%	99.73%	99.93%

DR. YANG LEI
EXECUTIVE CONSULTANT
ELEMENTAL ANALYSIS
CHEMICAL CENTRE

DR. TANG SONGBAI
PRODUCT MANAGER
ELEMENTAL ANALYSIS
CHEMICAL CENTRE

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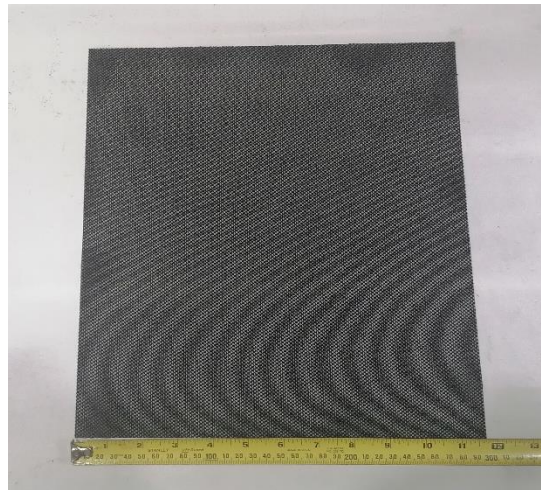


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Annex A:

Product Name Anti-Smog Window Membrane RWM 6

Photo



Annex B: Schematic of test chamber

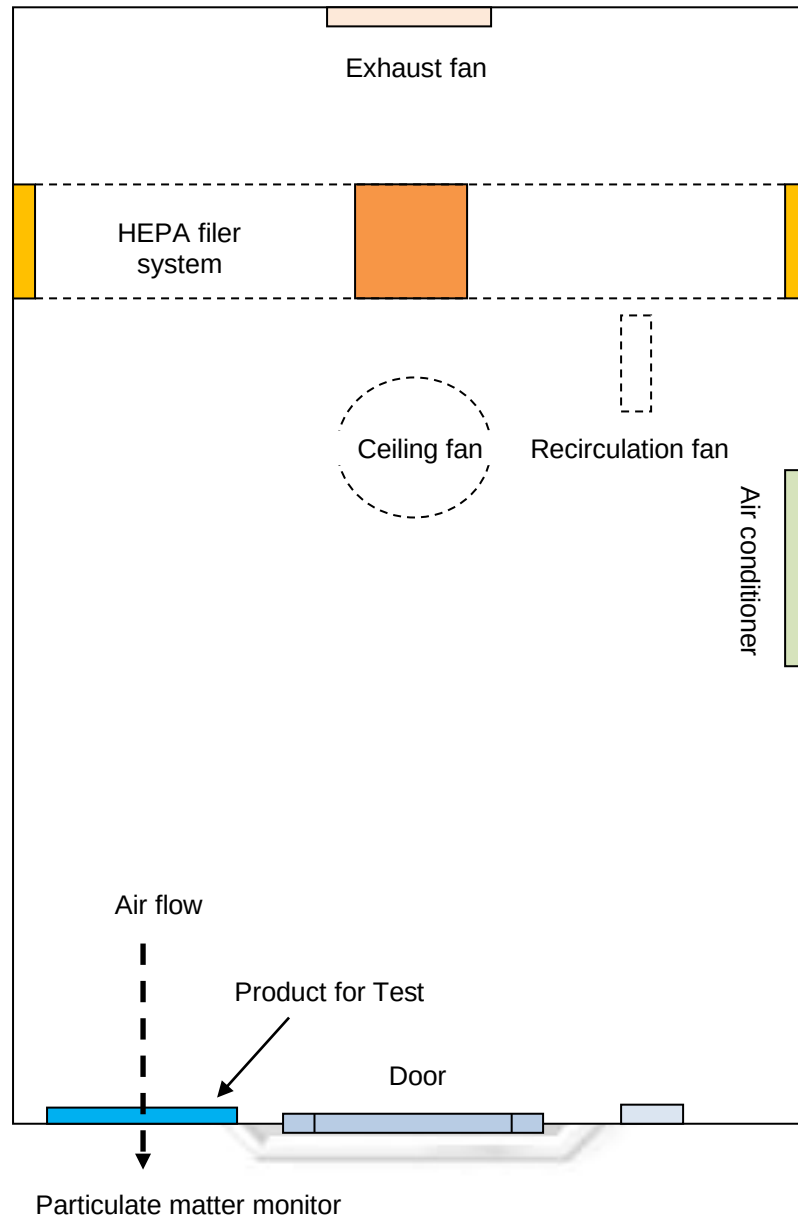


Figure 1 Schematic layout of the test chamber



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Effective 26 January 2021

