



Continual flow test report

Guidance from:
ISO 29463-5:2011

Five Create.
Company number: 12034140

Product ID: BRIIVPRO-01 5V 1A



Continual flow test reports

Test conditions

Filter configuration:

75g Moss

20mm Coconut natural latex fibre

Matrix and carbon layer Pleated Box 40mm deep 100mm x 100mm

Measured airflow:

(68CFM / 1.9CMM)

Measured particulate:

Smoke paraffin wax derived

Summary

Direct flow testing method measures the reduction of particulate in one pass, under a simulated environment with a constant supply of test particulate entering the device over a set period of time.

Environment 1: Replicates normal room environment

Sensors placed in the inflow and exhaust of the filters with recordings taken 1 minute intervals, run for 11 mins and repeated 5 times on each environment. Mean results are calculated from all the data points and presented in the graphs shown

Referenced standards:

ISO 9000 Quality management systems — Fundamentals

ISO 14644-3 Cleanrooms and associated controlled environments

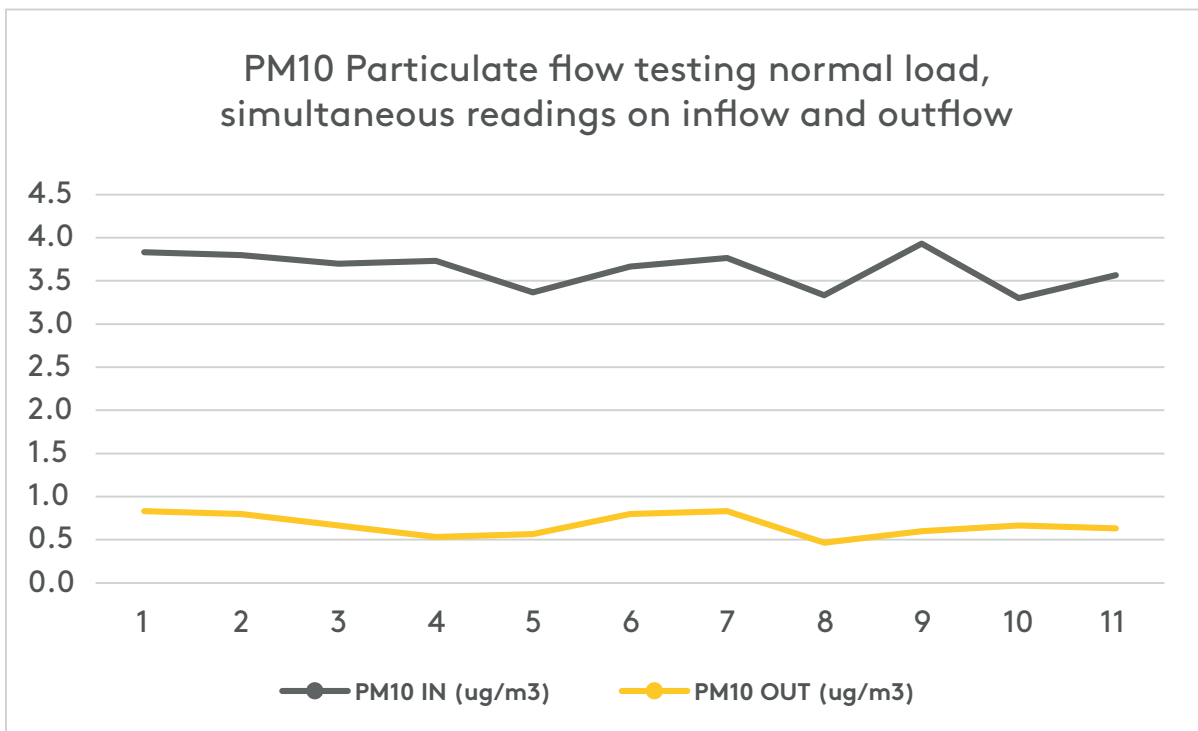
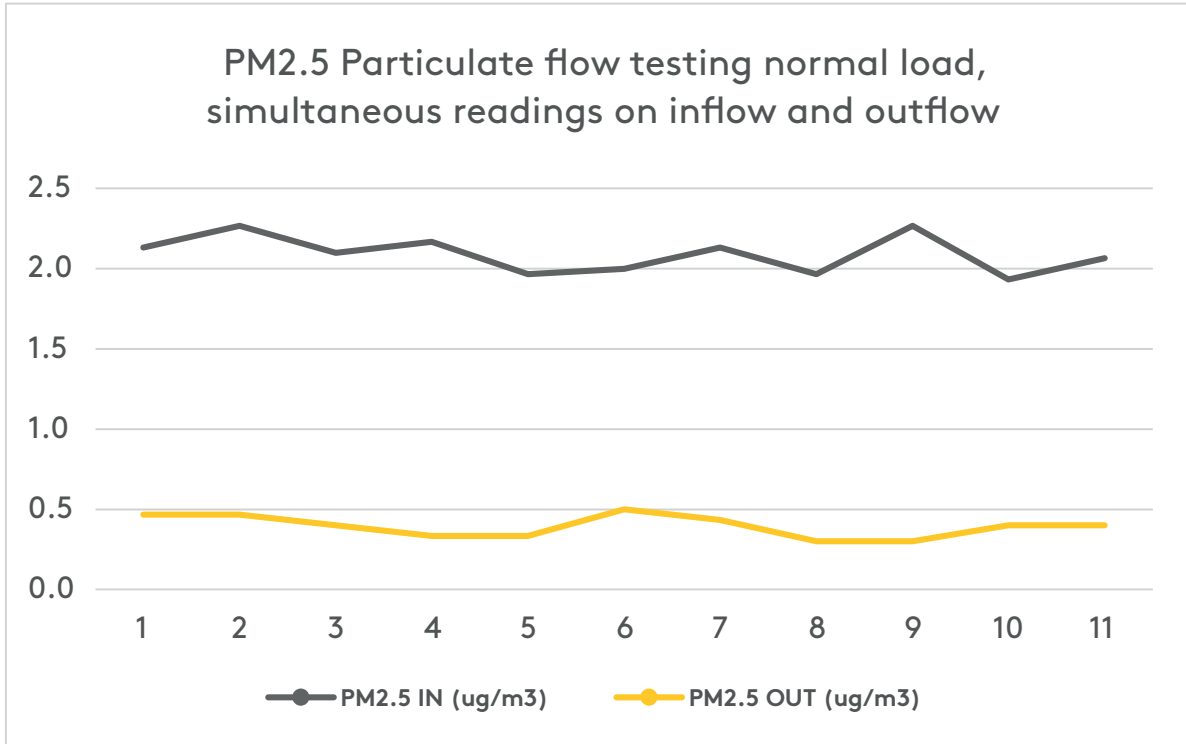
EN 1822-4 -High efficiency particulate air filters (EPA, HEPA and ULPA)

IEST RP CC 021, Testing HEPA and ULPA Media, Inst. of Env. Science and Technology, Arlington Hts, IL, USA

US Military Standard 282, Filter Units, Protective Clothing

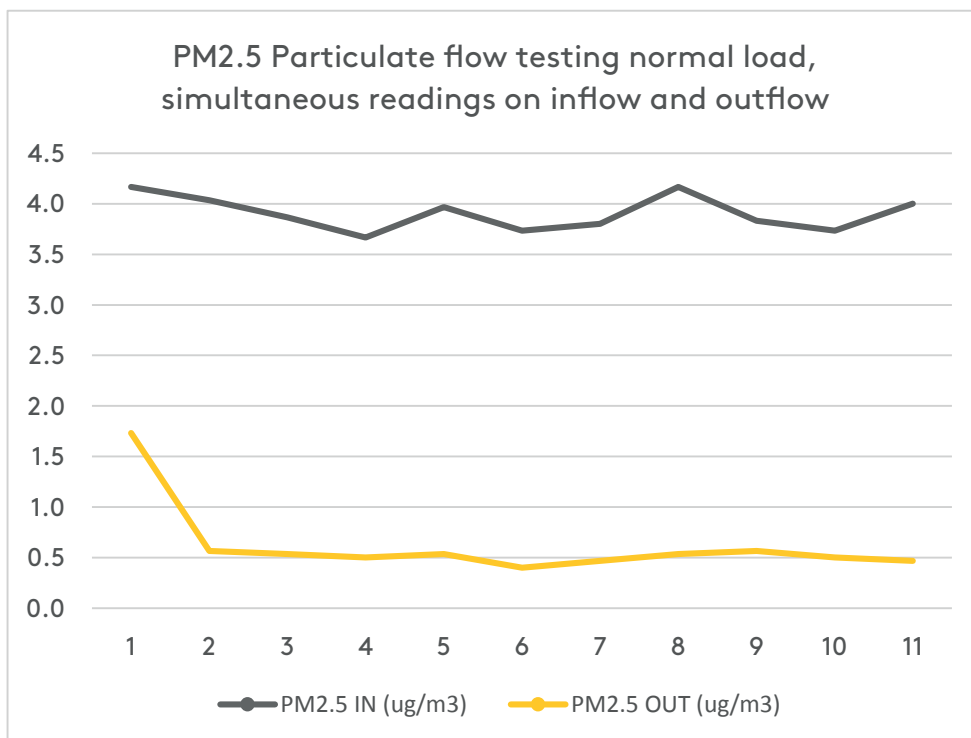
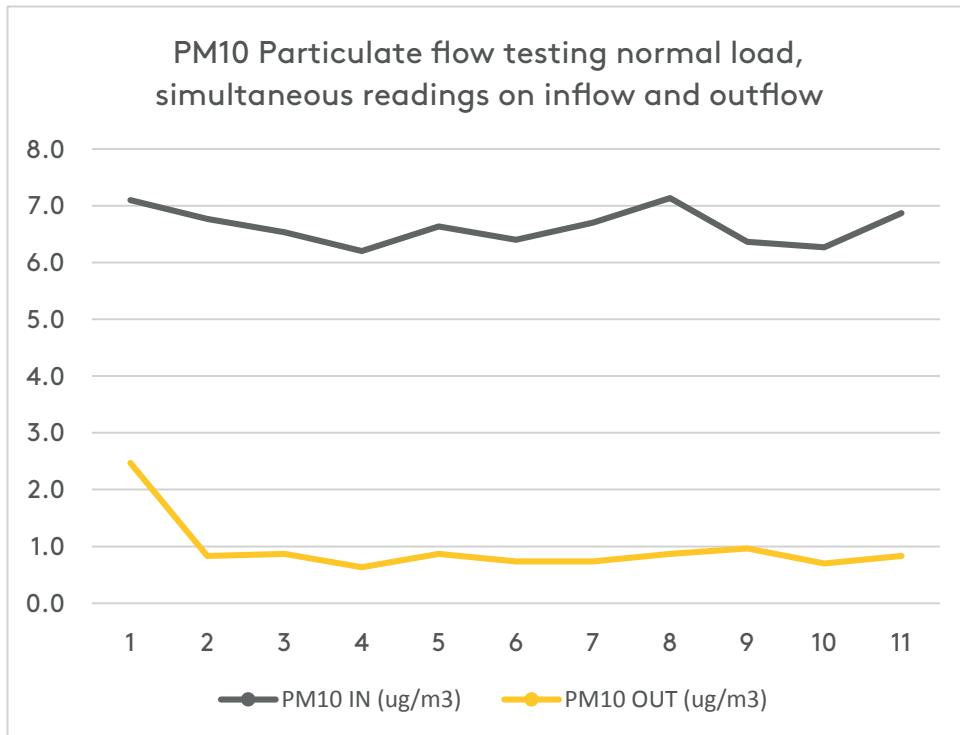
Test Data

Sphagnum Moss, CoConut (standard layer), Matrix filter Cartridge.
(Ambient office environment, no added pollutants)



Test Data

CoConut (standard layer), Carbon Chips 5mm max size 250grams, Matrix filter (Briiv Black Edition) (Ambient office environment, no added pollutants)



Data points

Data pulled from 10 000+ data points across 10 hours of continual testing across 5 separate instances, conducted for each test environment averaged below.

Sphagnum Moss

Reduction in one pass averages from all tests				
60 second Intervals	PM2.5 IN (ug/m ³)	PM2.5 OUT (ug/m ³)	PM10 IN (ug/m ³)	PM10 OUT (ug/m ³)
1	2.1	0.5	3.8	0.8
2	2.3	0.5	3.8	0.8
3	2.1	0.4	3.7	0.7
4	2.2	0.3	3.7	0.5
5	2.0	0.3	3.4	0.6
6	2.0	0.5	3.7	0.8
7	2.1	0.4	3.8	0.8
8	2.0	0.3	3.3	0.5
9	2.3	0.3	3.9	0.6
10	1.9	0.4	3.3	0.7
11	2.1	0.4	3.6	0.6
		Average Improvement		Average Improvement
		81%		82%

Carbon Chips

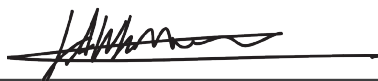
Reduction in one pass averages from all tests				
60 second Intervals	PM2.5 IN (ug/m ³)	PM2.5 OUT (ug/m ³)	PM10 IN (ug/m ³)	PM10 OUT (ug/m ³)
1	4.2	1.7	7.1	2.5
2	4.0	0.6	6.8	0.8
3	3.9	0.5	6.5	0.9
4	3.7	0.5	6.2	0.6
5	4.0	0.5	6.6	0.9
6	3.7	0.4	6.4	0.7
7	3.8	0.5	6.7	0.7
8	4.2	0.5	7.1	0.9
9	3.8	0.6	6.4	1.0
10	3.7	0.5	6.3	0.7
11	4.0	0.5	6.9	0.8
		Average Improvement		Average Improvement
		84%		86%

Observations

There were no visual or mechanical change to the filter materials of housings for the duration of the tests.

Approval:

Study carried out and approved according to internal testing guidelines and referencing ISO 29463-5

A handwritten signature in black ink, appearing to read "Sean Sykes", written over a horizontal line.

Date: 15/08/2023

Study Director

Sean Sykes