



FILTREX

ROYAL STOKE HOSPITAL

AIR TESTING REPORT

FAO: MR AJITH GEORGE FRCS

DATE: 21st MAY 2020

ENGINEER: ANTHONY FOX

QUOTATION

DATE TEST CARRIED OUT: 21st JANUARY 2020

SITE: ROYAL STOKE HOSPITAL – ST4 6QG

CONTACT: MR AJITH GEORGE FRCS

ENGINEER: ANTHONY FOX

RE: AIR PARTICLE MONITORING IN ENDOSCOPY PROCEEDURE ROOMS

Filtrex carried out a series of tests in endoscopy rooms to monitor airborne contaminants and the effect of high capacity filtration units to effectively clean the air.

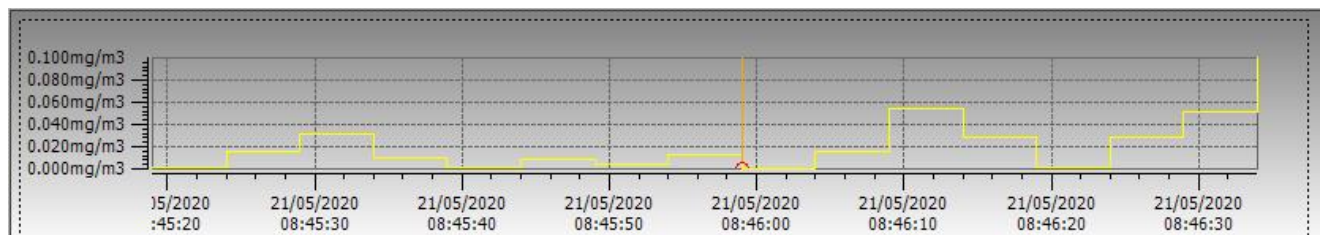
Test 1-a:

Location: Procedure room 6 (43m³)

Time: 08:45:20 – 08:46:30

Condition: Room as was found, no air cleaning and window slightly open. Engineer slowly moving round the room to gather data from all areas.

Results: Consistent particle detection although low levels as would be expected in a clean clinical environment.



The air cleaner was then run for 5 minutes at 1500m³/hr – this provides 35 air changes per hour. This equates to 3 air changes during the 5 minutes of run time.

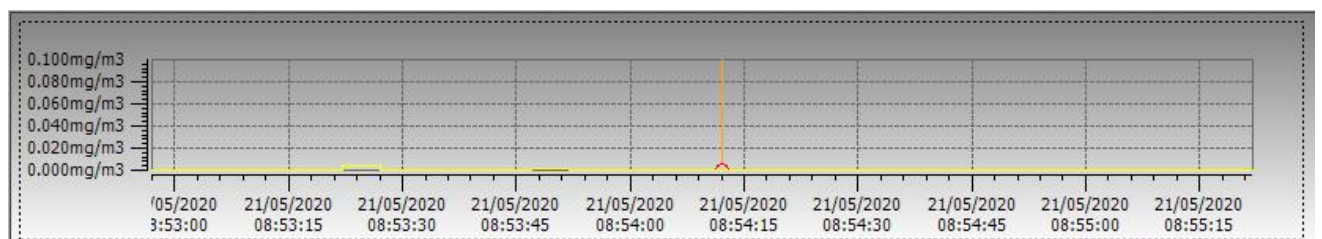
Test 1-b:

Location: Procedure room 6

Time: 08:53:00 – 08:55:15

Condition: Room following air cleaner having run for 5 minutes and then switched off. Engineer slowly moving round the room to gather data from all areas.

Results: Zero particle detection apart from 2 very small readings when passing the window.



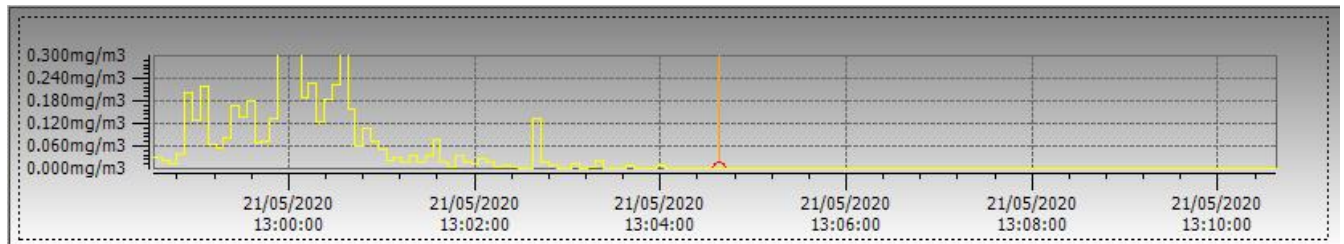
Test 2:

Location: Procedure room 6

Time: 12:58:00 – 13:10:00

Condition: Room as found. Air cleaner had not been running and people had been in and out of the room to stimulate air movement and to simulate procedures taking place. At 13:01 the air cleaner was started at 1500 m³/hr for the duration of the test.

Results: Consistent particle measuring to start with, including some spikes above 0.3mg/m³. The readings can be seen to drop once the air cleaner is started and within 3 minutes there were no particles recorded. There were no further particles detected for the duration of the test.



Test 3:

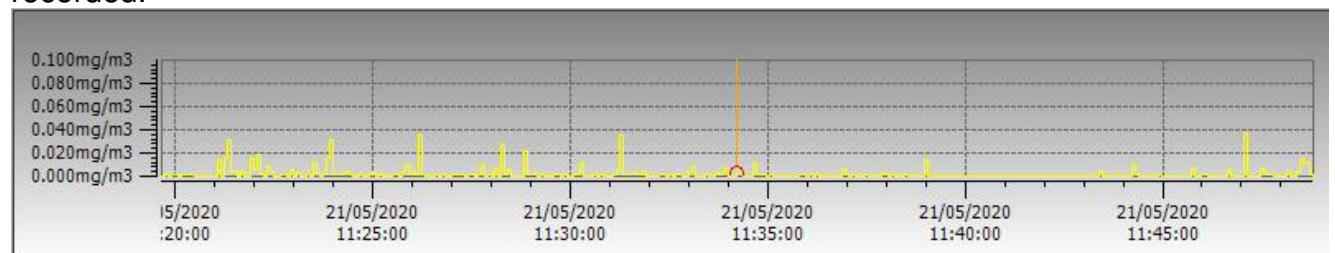
Location: Procedure room 4

Time: 12:58:00 – 13:10:00

Condition: Cleaned room – air cleaner had been running prior. Action in the room as follows:

- 11:20 - logger starts
- 11:28 - consultant and patient enter room
- 11:33 - attempting to use scope and going out to get another one
- 11:34 - start scope procedure with no mask
- 11:38 - procedure complete
- 11:38 – 11:42 - leave air cleaner running to clean room
- 11:43 – scope procedure with mask
- 11:45 - finish scoping with mask
- 11:47 - wipe down room
- 11:49 - turn off machine

Results: Consistent particle measuring although very low due to clean room. The readings can be seen to drop once the air cleaner is started and no particles were recorded.





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