Client:
No.1 Euston Square

Location:
London

Date:
April 2014

Sector:
FM

NO.1 EUSTON SQUARE, LONDON – AIR QUALITY CASE STUDY

AIR POLLUTION FROM TRAFFIC IS CLASSED AS PM2.5 COMBUSTION PARTICULATE AND THE ACCOMPANYING GAS NITROGEN DIOXIDE NO2 POSE ONE OF THE MAIN HEALTH THREATS TO PEOPLE LIVING AND WORKING IN LONDON.

These two pollutants go together and high PM2.5 concentrations in areas with traffic inevitably means high levels of NO2 and the Euston Road near the station is one of the most traffic laden and therefore polluted roads in London. Camfil UK measured the airborne particle levels in key locations such as in the office, the corridor outside and close to the main exit of the building.

During the experiment, the outdoor particle concentration level as can be seen by the red curve in Graph 1 was mainly in the range 80 - 90 million particles per m3 of air which is about over a twenty times higher concentration than the 3 - 5 million particles that would be expected in the air in a cleaner rural village location outside London.

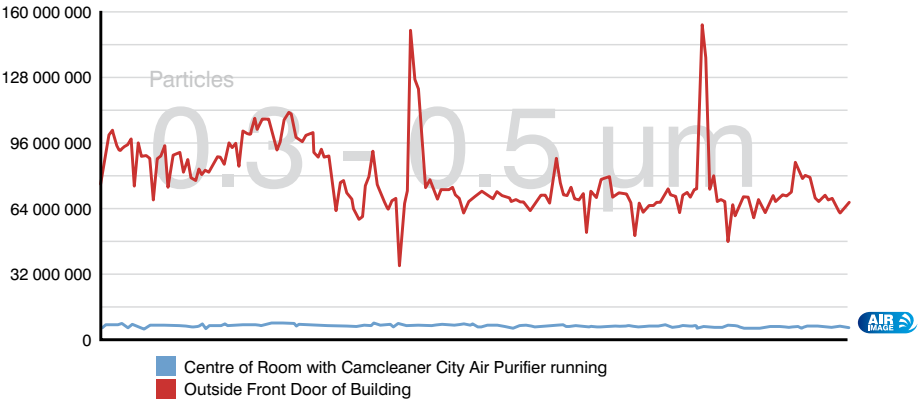
The beneficial effects of a well-sealed building envelope and effective air filtration in the air conditioning system can be seen from the results of the red curve in graph 2 above. Further reductions were made shown by the blue curve (measured from the centre of the room) down from value of

CAMCLEANER CITY AIR PURIFIER

TAKING A PARTICLE READING

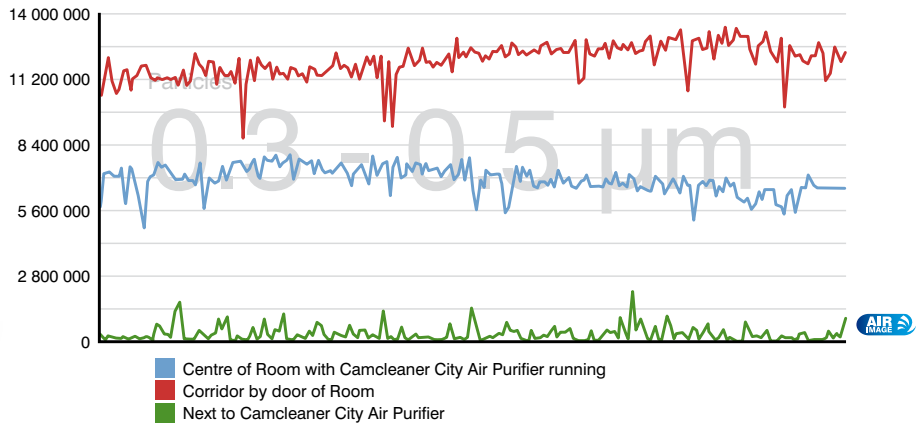
CAMFIL **CASE STUDY**

CITYCHECK IAQ KIT



THE RESULTS IN GRAPH 1 SHOW THE PARTICULATE AIR POLLUTION LEVEL WAS MEASURED AT IN THE RANGE 0.3 TO 0.5 MICRONS DIA. WHICH IS A PARTICLE SIZE RANGE THAT CAN EASILY MAKE DEEP LUNG PENETRATION AND CAUSE HEALTH PROBLEMS.

CAMCLEANER CITY STYLING



THE GREEN CURVE IN GRAPH 2 SHOWS THAT CLOSE TO THE CAMCLEANER CITY AIR PURIFIER PARTICLES ARE ALMOST TOTALLY REMOVED FROM THE AIR.

about 12.5 million particles per m3 reducing by almost half (44%) down to about 7 million particles per m3 in the office with people present during test. This was achieved by use of a standalone air purifier known as the CamCleaner City.

The CamCleaner City Air Purifier is inconspicuous and effective. It runs quietly in the background and recirculates the clean purified air with almost silent running performance that consumes little energy.

The green curve in Graph2 shows that close to the CamCleaner City particles are almost totally removed from the air.

This unit also contains high efficiency molecular gas filtration that can remove NO2 and a range of indoor sourced air gas pollutants. This is a solution that delivers clean purified air at point of need and can be used in a residential or home office application as well as commercial settings.

Find out more and see case studies on:

www.keepthecityout.co.uk
www.camfil.co.uk
www.lowenergyairfilter.co.uk

The test instrument used was a TSI Aerotrak 9306V2 particle counter.