

Ductwork Cleaning – An Automated Solution

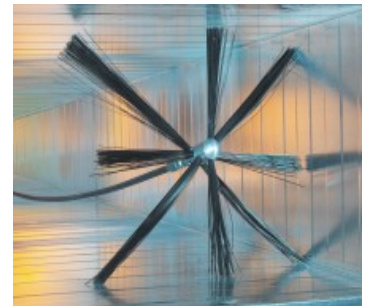
Building managers have a ‘**duty of care**’ to make sure that the building is safe and comfortable by making sure ventilation systems are cleaned efficiently and regularly. Cleaning ductwork can improve indoor air quality, control mould and other allergens, enhance heating, ventilating, and air-conditioning (HVAC) system performance, and reduce energy costs.

The Approved Code Of Practice L24, which complies with regulation 6 of the Workplace Health, Safety and Welfare Regulations 1992, requires that:

“any mechanical ventilation systems, including air conditioning systems, which are used to provide fresh air should be regularly and properly cleaned, tested and maintained to make sure that they are kept clean and free from anything which may contaminate the air and cause health problems.”

As a general rule, if you run your finger along the opening of a duct grille and it collects dust then it probably needs cleaning. Within **TR/19 - HVCA Guide to Good Practice Internal Cleanliness of Ventilation Systems**, there are different methods used for extract (and supply) ductwork cleaning.

Here we have a negative pressure dry cleaning using a ductwork-cleaning machine. This unit is fitted with brush attachment cleaning under negative pressure, generated by a vacuum collection system connected to an extract fan.



The machine can clean both rectangular and circular ductwork from 80mm diameter / square up to 900mm effectively. Re-sealable access panels (only 120mm diameter) can be cut into the existing ductwork up to 30m apart meaning access into the ceiling void / service risers of an existing building is limited. By using CCTV to inspect the ductwork before and after cleaning and to control the cleaning, where necessary, the entire process can be recorded for clients to keep to prove the cleanliness.



Benefits

- Reduces the likelihood of serious problems for people with respiratory health conditions, autoimmune disorders or some environmental allergies.
- Reduces the likelihood of staff developing Sick Building Syndrome (SBS)
- Contaminants in the heating and cooling system cause it to work harder and shorten the life of your system. By reducing the contaminants, you effectively increase the life of your plant.
- When an HVAC system is clean, it doesn't have to work as hard to maintain the temperature you desire. As a result, less energy is used, leading to improved cost-effectiveness.

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