

## Technical Bulletin – Retrofitting HEPA Filters to Fan Coil Units

In response to the Covid-19 pandemic, we are regularly being asked about how HEPA filters can be retrofitted to existing fan coil units.

Unfortunately to retrofit a HEPA filter into any existing ventilation system is not as simple as many people hope!

Systems not originally designed to support a HEPA filter do not usually have a suitable fan installed for the extra resistance, or a suitable filter holding mechanism for the Highest Efficiency filters

### Fan Coil Systems

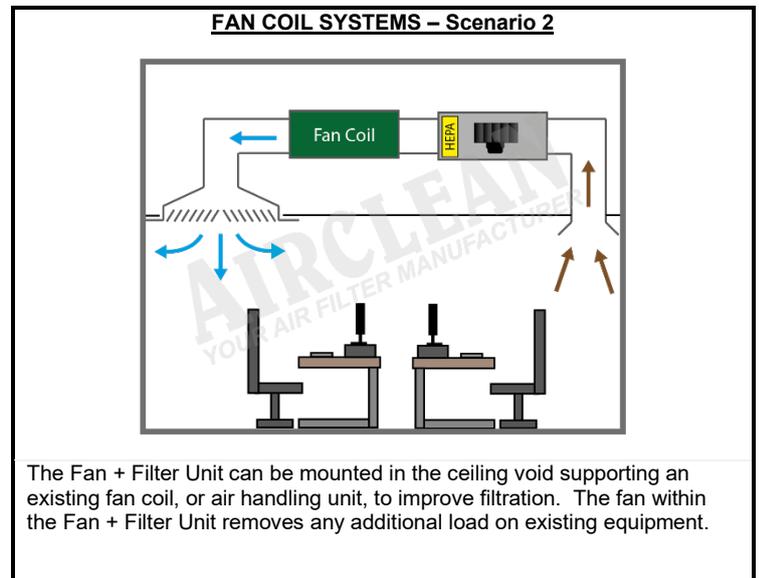
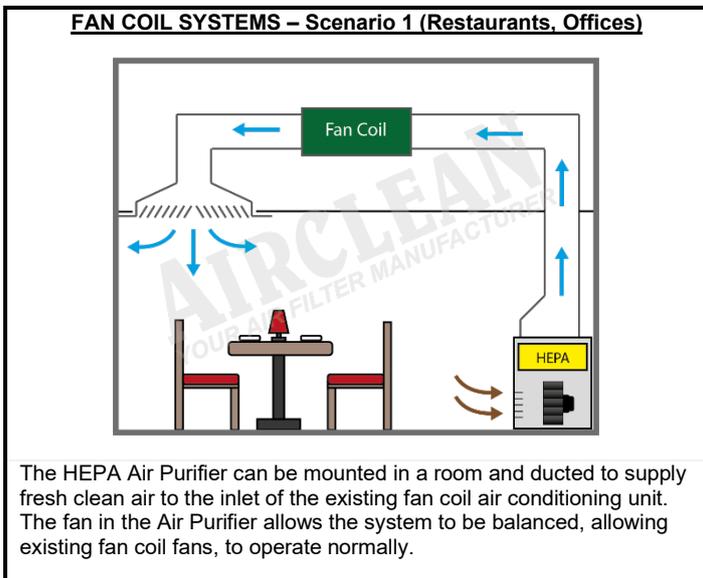
The fan in a standard Fan Coil System will not be designed to take the high additional resistance to airflow that a HEPA filter demands. The installation of a HEPA could result in a significantly reduced air flow, or worse still a burn out fan, or frosted coil.

Standard Fan Coil Systems often have a low grade pre filter installed to protect the coil. This filter is usually a very thin filter, making it almost impossible to upgrade due to space limitations, and lack of suitable filter alternatives.

### Is there anything that you can do?

One option for the addition of a HEPA filter to a fan coil system could be to use a boost fan to overcome the additional resistance, and to house the HEPA filter externally.

This can be done with the Airclean HEPA air Purifier, or one of our Fan Filtration system.



As installation of a boost fan needs to be carefully considered to ensure the boost fan is balanced with the existing mechanical ventilation. Contact our team to discuss your requirements.

If you would like to find out more visit our website at [www.airclean.co.uk](http://www.airclean.co.uk) or contact the Airclean Team at [sales@airclean.co.uk](mailto:sales@airclean.co.uk) or call 01622 832777