



AIRBORNE VIRUS & INFECTION CONTROL

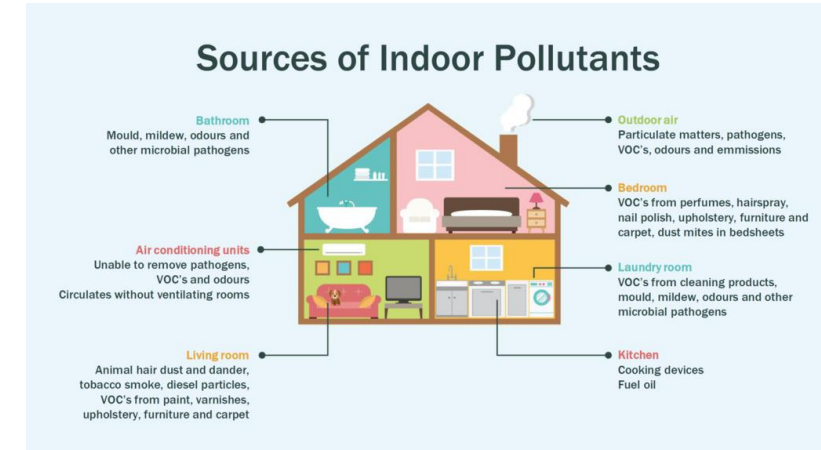


Introducing the Professional Multistage DFS
Air Purification System



APARTMENT, HOME AND OFFICE AIRBORNE CONTAMINATION FACTS

- Attempts to slow the spread of the latest corona virus pandemic is affecting the way in which we live our lives. Family units are being told to stay at home as much as possible which increases the time our whole family unit remains indoors. Unfortunately “flattening the curve” will prolong the duration which may continue for many months.
- This is to the detriment of indoor air quality and our health.
- Numerous studies have previously identified that the indoor air quality is as much as 9-10 times worse than the air you breathe outside. This can be the result of a lack of ventilation, pollens and dust imported from outdoors and difficult to remove once inside, mould growth and spores, dust mites, cooking and modern home furnishings and materials, many of which emit VOC's.
- Air conditioners assist in filtering out particles in the 3-10 micron range which does little to address the issues listed above.
- Air purifiers help but be careful what you buy. A common standard even for expensive air purifiers is HEPA13 which eliminates 99.97% of particles down to 0.3 micron.
- The corona virus however is only 0.1 micron making most air purifiers ineffective against air borne viruses and the common flu.
- Healthway is an American Company that manufactures air purifiers using a design originally intended for the US Army to combat germ warfare. Using a process they call DFS (Disinfection Filtration System) they can CAPTURE AND ERADICATE 99.99% of all pathogens down to 0.007 microns, 40 times more effective than HEPA13.
- Healthway's DFS filtration has been proven to be 99.99% effective against all modern flu's including H7N3 (recently bird flu UK 2006), H1N1 (swine flu Mexico 2009), and H7N9 (bird flu China 2013).
- At the end of January, 140 DFS technology air purifiers by Healthway were installed in Wuhan hospitals as a first line of defence against the Wuhan Corona Virus.



Wuhan Hospitals with DFS technology air purification January 2020

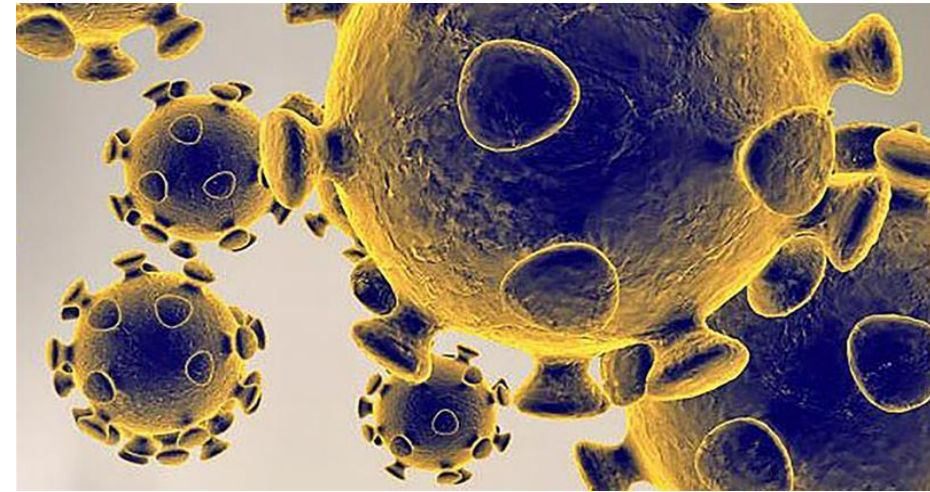
COVID-19 TRANSMISSION

- The COVID-19 virus was identified 3 months ago following its detection in Wuhan China late December 2019. Since this time it has infected 416,686 confirmed cases and 18,568 confirmed deaths in 197 countries (as at 26 March 2020) [1] – despite the world's best efforts to contain it.
- The virus has proven to be extremely contagious and much research is being undertaken to understand how the virus is transmitted and to develop vaccines and /or cures for the disease, a process which is likely to take many months.
- Research is also being conducted to understand how the disease is transmitted. The COVID-19 virus spreads primarily through droplets of saliva or discharge from the nose when an infected person coughs or sneezes making the virus airborne.
- Whilst the larger droplets fall and contaminate surfaces they land on, the smallest droplets can remain suspended in the air for some time. [2]
- Infection occurs either through subsequently inhaling these droplets or touching contaminated surfaces.
- Hence the Health and Government authority warnings regarding social distancing and washing hands regularly .

[1] <https://www.who.int/emergencies/diseases/novel-coronavirus-2019>

[2] Dr Amir Khan

Dr Amir Khan is an NHS doctor and a senior university lecturer in the United Kingdom



COVID-19 PANDEMIC

How is the virus transmitted?



If the droplets land on surfaces, the virus may survive for as long as 24 hours on cardboard and up to 3 days on stainless steel and plastic, according to a recent study.



INTRODUCING
the HealthWay DELUXE
the world's most
efficient air cleaner



- Technology initially invented using a US military grant to combat germ warfare
- Professional 9 stage air purification system
- FDA (USA) approved as a medical device (class 2)
- Proven to capture 99.99% of all particles down to 0.007 micron
- 40 times more effective than traditional HEPA filters (HEPA 13: 99.97% @0.3 micron)
- Eliminates most VOC's
- Removes 94-100% of harmful moulds, viruses and bacteria.
- Suitable for use in hospitals, medical clean rooms, government and office buildings and military applications