

## Why do we use an OZONE machine in every room? Your Health as well as our staff is our # 1 priority!

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No medical event in recent history has made a bigger impact on global health and the economy, than [Coronavirus, and the COVID-19 disease](#).

At the time of writing, most major economies are entering into some form of lockdown, causing significant disruption to businesses and drastically changing the way we live our lives for the next few months.

Governments, Industry and Citizens are united in trying to slow the spread of COVID-19, to give health services time to prepare for the explosion in the demand for care. Sanitizing our homes, workplaces and public spaces is a key tactic in the fight against Coronavirus, to stop the spread of COVID-19. One method of sterilization is by using ozone. Ozone sterilization is commonly [used in hospitals to sanitize equipment](#) and significantly reduce or [eliminate the spread of bacteria](#).

Hence the question being asked is – “Can ozone sterilization kill the Coronavirus which causes the COVID-19 disease?”



This blog post looks at the evidence and highlights the benefits of sterilizing environments with ozone, as well as it's associated risks.

### OZONE STERILIZATION PROVEN TO KILL SARS-COV VIRUS

There are currently no examples in the public domain, of ozone sterilization being used to kill the current strain of Coronavirus, SARS-CoV-2 (technical name of the Coronavirus which causes the COVID-19 disease). However, there are reasons to believe it would be effective:

- During the SARS epidemic of 2003, [ozone sterilization was successfully used](#) to purify environments infected with the deadly Coronavirus, SARS-CoV-1, the virus which causes the SARS disease.
- As [SARS-Cov-1](#) is also a member of the Coronavirus family, it is highly likely that ozone sterilization would be effective at killing SARS-CoV-2, the Coronavirus which causes the COVID-19 disease.

### HOW DOES OZONE STERILIZATION KILL CORONAVIRUSES?

Coronaviruses are classified as “enveloped viruses”, which are typically more susceptible to “Physico-chemical challenges”. In other words, they don't like being exposed to ozone.

Ozone destroys this type of virus by breaking through the outer shell into the core, resulting in damage to the viral RNA. Ozone can also damage the outer shell of the virus in a process called oxidation.

Put simply, exposing Coronaviruses to sufficient ozone dose (ppm x time) can result in them being 99% damaged or destroyed.

## **TESTS CONCLUDE OZONE CAN KILL CORONAVIRUS**

Aeroqual partner with a number of manufacturers who produce ozone sterilization equipment. [JIMCO](#), one of these partners and the makers of the [FLO-D MINI – Mark 2](#), have had this [product tested, which confirmed its effectiveness at killing the coronavirus](#). Dr. Brill + Dr. Steinmann from the Institute for Hygiene and Microbiology conducted this test on 5/19/2010. Here is what they found – “The conclusion can be drawn that after passing examinations with MVA [in Europe, MVA represents the official model virus for all enveloped viruses] an activity against all enveloped viruses including members of the virus family coronaviridae (like MERS-CoV, SARS-CoV-1 and SARS-CoV-2) is achieved”.