

TECHNOLOGY

Wellisair uses **innovative and disruptive patented technology** which effectively generates and expands **hydroxyl radicals (OH[•])** that by oxidation:

- Eliminates up to **99.9%** of pathogenic microorganisms both in the air and on surfaces (viruses and bacteria)
- Improves air quality by reducing volatile organic compounds (VOCs) and suspended PM particles
- Eliminates odours

The **hydroxyl radical (OH[•])** is the most important natural oxidant in the troposphere. It is vital in the **removal of greenhouse gases** such as carbon dioxide or methane.

Wellisair uses clean and safe technology which **constantly produces hydroxyl radicals (OH[•])**. Besides being efficient to disinfect air and surfaces, is a **harmless method for humans** (unlike ozone).

Hydroxyl Radicals (OH[•]) through the effect called "respiratory explosion", create a series of **chain reactions** which quickly eliminate pathogenic microorganisms from an area up to **50-60 m²**.

Suitable for multiple applications



Optimal

Normal

Deficient

Air Quality Indicator

Air Condition Real-Time Monitoring



Compact

220 x 370 x 150 mm



Intuitive

Easy to use with visual control panel



Silent

Low noise level



Economical

3,6 W/hour Consumption



Easy Maintenance

Cartridge Replacement every 3 months

Patented



Tested technology at international laboratories and prestigious universities. Security certificates.

CE



EMC

intertek

Total Quality Assured.

O₃



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Wellisair

Air & Surfaces Active Disinfection



Removes Viruses and Bacteria



Improves Air Quality by Eliminating VOCs and Particles



Eliminates Odours

24/7

Uninterrupted Operation

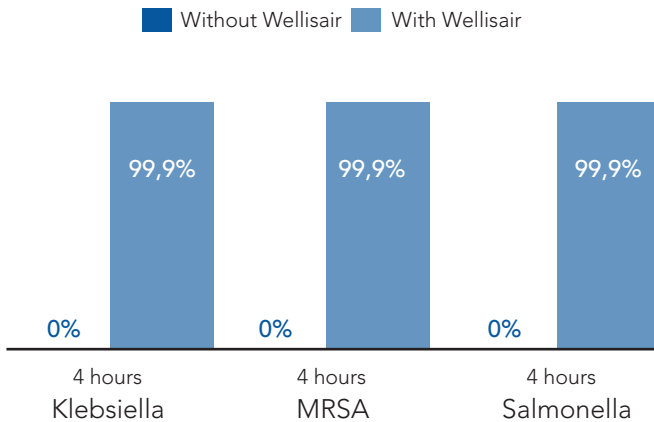
BACTERIA

Wellisair's hydroxyl radicals (OH[•]) cause oxidative reactions which cross the membranes of the bacteria **modifying their morphological structure until they reach their genetic information**. This fact produces an irreversible damage **killing the bacteria and making them disappear**.

To determine the effectiveness, tests were carried out with Gram "+" and "-" bacteria, both on surfaces and in the air.

Results indicate a **successful demonstration of reduction in the following bacteria:**

- Bacillus subtilis
- Staphylococcus aureus
- Resistent Staphylococcus aureus MRSA
- Pseudomonas aeruginosa
- Salmonella
- Klebsiella
- Escherichia coli

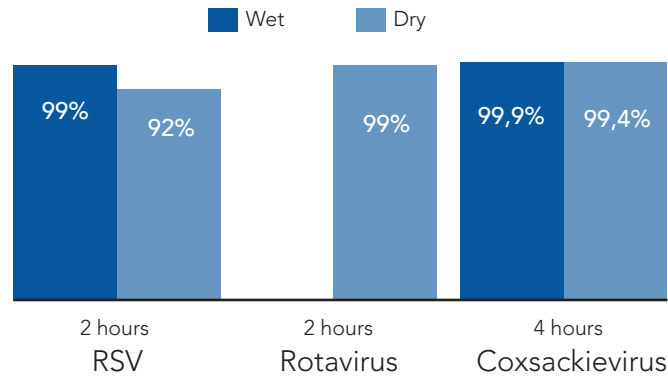


Decreasing on the concentration of different viruses plate forming units per milliliter (PFU/ml). Tested in international laboratories.

VIRUSES

Wellisair technology has been **effectively tested on several viruses** with different characteristics in both wet and dry environments.

All tests indicate an efficacy between 92-99% of elimination on surfaces (efficiency in the air is higher), depending on the results obtained with **Respiratory Syncytial Virus (RSV), Rotavirus or Coxsackievirus (hand-foot-mouth)**.



Removal of different viruses in the presence of the Wellisair in both wet and dry environments. Tested in laboratories of a prestigious international university.

COVID-19

Respiratory Syncytial Virus (RSV) has a morphological structure similar to the coronavirus, such as the lipid membrane and glycoprotein projections.

The oxidation reactions (lipid oxidation and protein oxidation) that occur in RSV are the same as they should be in COVID-19, so the **removal efficacy against the coronavirus should be very similar, about 92-99%**.

AIR QUALITY

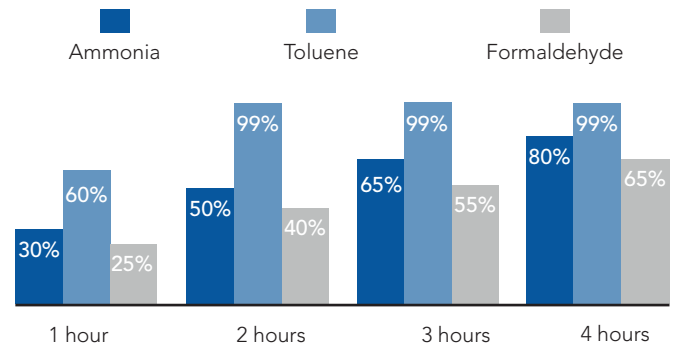
Wellisair's oxidative technology allows the **structure of any volatile organic compound (VOC) to be changed to inert and harmless gases or water-soluble compounds**. It also traps any atmospheric particles (PM) in micro-droplets of moisture and makes them precipitate to the ground.

A multiple of tests carried out prove a reduction of more than 93% of VOCs and particles guaranteeing an **improvement in air quality**.

ODOURS

A pleasant environment should smell good or be odourless. Through the oxidising process produced by hydroxyl radicals (OH[•]), a large part of these odours is **eliminated within a few hours of exposure** to Wellisair.

Our advanced air purification technology offers a total and permanent solution to odour control. Our test results show the oxidising process destroys all the common factors which cause odours.



Deodorization test of volatile organic compounds. Tested in international laboratories.