Respicaire®

For the health of your indoor air

Pandemic Update

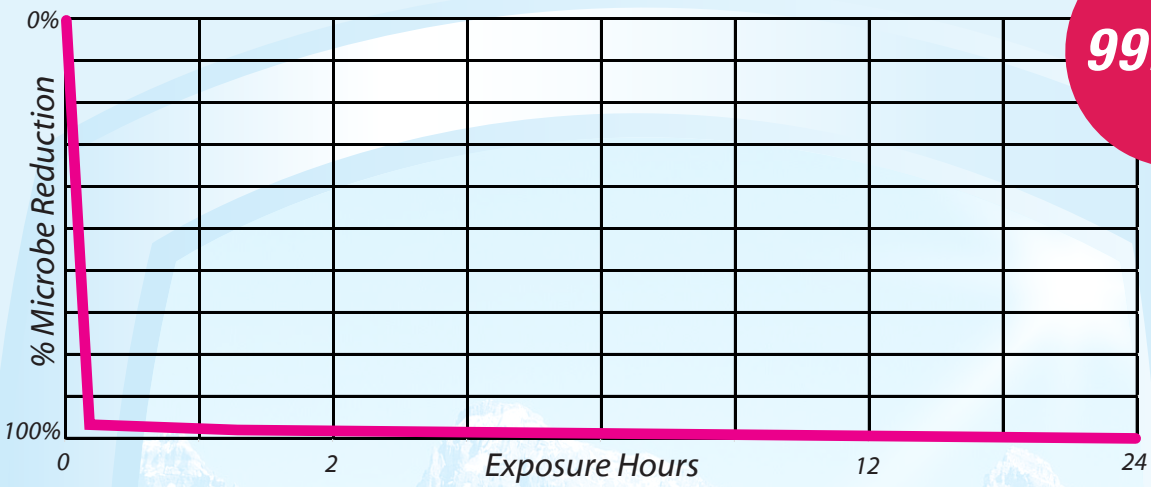
Respicaire is an Environmental Company that develops, manufactures and researches proprietary technologies to cleanse, detoxify and purify indoor air & surfaces for living environments worldwide. Over half a million of our air cleaning devices are at work daily. From Advanced Oxidation PCO technology to High Efficiency (99%) Hybrid Air Cleaners, we continue to offer enhanced investment value for healthier Indoor Air. Our air purification products have been designed & enhanced to optimize technology advancements. This means that we engineer our products to maximize "in system" purification based on known & tested configurations.

HUMAN CORONA VIRUS TEST RESULTS

Respicaire announces additional independent 3rd party Pandemic test data. The recent pandemic has created awareness and genuine concern regarding the pathogenic nature of the airborne Corona virus. Respicaire is pleased to report that our products have demonstrated a 99.99% virucidal efficacy on the Human Corona virus as well as the recent H1N1 influenza virus. Independent testing confirms our confidence in recommending Respicaire IAQ products for enhanced indoor air quality in residential and commercial environments.

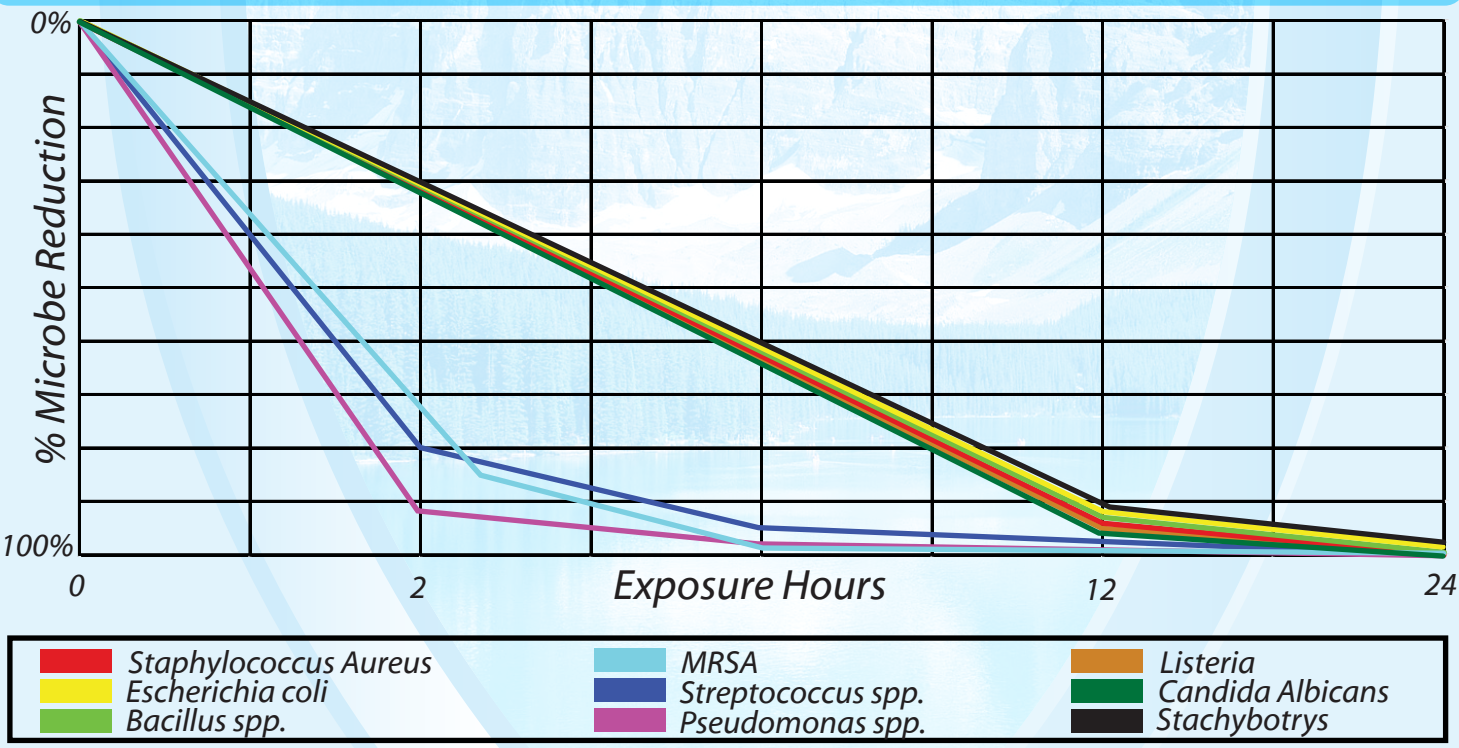
Technology used in Respicaire products has been shown to inactivate the Corona virus strain known as Sars Cov 2 (Covid 19 in humans) in seconds.
This product performance ensures that your purchase value is well supported by our R & D teams at Respicaire via existing and on-going product testing.

Corona Virus Reduction

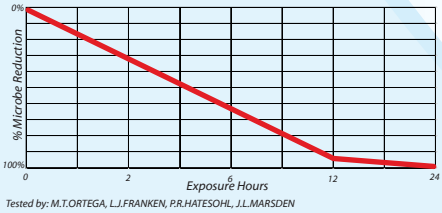


The following are 3rd party tests for Advanced Plasma Oxidation technology (PCO) with UltraViolet germicidal light. (UVC)

Peer Reviewed Testing for Microbe Reduction Using PCO Technology



SOURCE: ASI-KU



Tested by: M.T.ORTEGA, L.J.FRANKEN, P.R.HATESOHL, J.L.MARSDEN

Staphylococcus aureus is a bacterium frequently found in the nose, respiratory tract and on the skin. It is a common cause of respiratory infections. Pathogenic strains often promote infections by producing potent protein toxins. The emergence of antibiotic resistant strains of *S. aureus* is a worldwide problem. It is still one of the five most common causes of acquired infections. Each year, around 500,000 patients in United States' contract a staphylococcal infection like S. aureus. S*taphylococcus aureus* is the most dangerous of all of the many common staphylococcal bacteria. Source – Merck Medical Manuals

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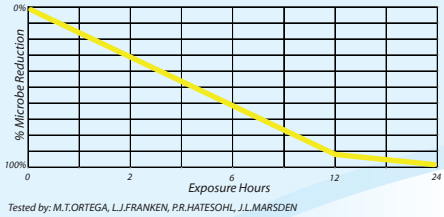

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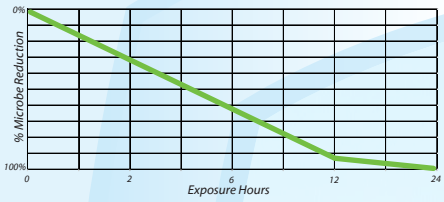
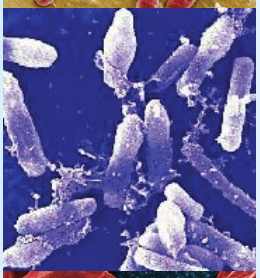
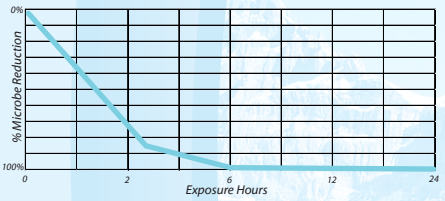
Escherichia coli also known as ***E. coli*** is a bacterium of the genus Escherichia that is commonly found in the lower intestines of humans & animals. *E. coli* is expelled into the environment & can grow exponentially under the right conditions. Some strains can cause severe infection & complications. This bacterium continues to be intensively investigated. Source – PHAC.gov



Tested by: M.T.ORTEGA, L.J.FRANKEN, P.R.HATESOHL, J.L.MARSDEN

Bacillus spp. Bacilli cause an array of infections from ear to meningitis, urinary tract to septicemia. They exacerbate previous infection. The most -well known - disease caused by bacilli is anthrax, (*Bacillus anthracis)* also known as the "Black bane"(Plague) Recent anthrax mailings have brought acute public attention to the issue and sparked extensive research into the devastating disease. Source -Graumann, Cellular & Molecular Biology





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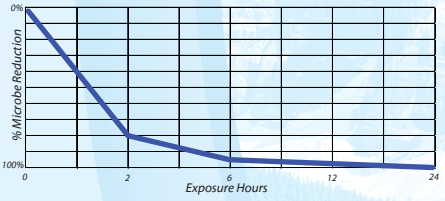
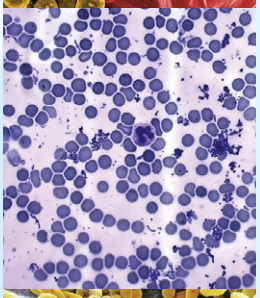
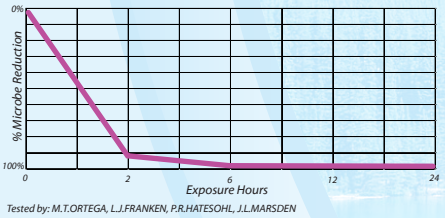
Methicillin-resistant *Staphylococcus aureus* (**MRSA**) is caused by a type of Staph bacteria. The bacterium is responsible for several difficult-to-treat infections in humans. Resistance makes MRSA infection more difficult to treat thus more dangerous. Source – Mayo Clinic



Tested by: M.T.ORTEGA, L.J.FRANKEN, P.R.HATESOHL, J.L.MARSDEN

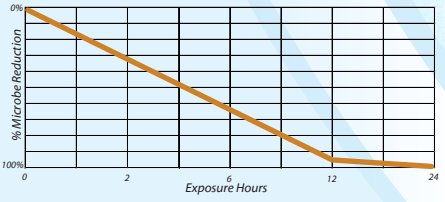
Streptococcus spp. and related bacteria form a large group of organisms which are associated with Infections (IMI). Some of them are the well-known pathogens. Currently, over 50 species are recognized in this bacteria genus. Source (Wyder/Boss/Naskova) - US National Library of Medicine





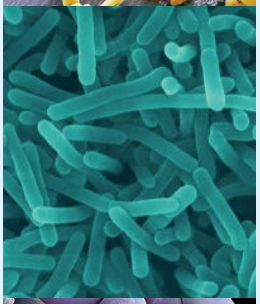
Tested by: M.T.ORTEGA, L.J.FRANKEN, P.R.HATESOHL, J.L.MARSDEN

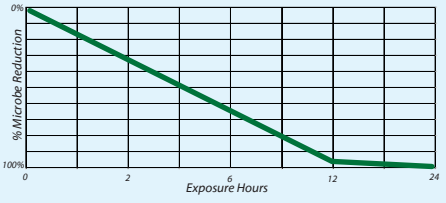
***Pseudomonas* spp** The genus *Pseudomonas* is motile with polar flagella which have an important role in pathogenicity. Toxins combined with harmful substances are determinant factors in the high virulence of *P. aeruginosa.* As opportunistic pathogens, *Pseudomonas* spp. often, invade & *P. aeruginosa* have been found to survive in droplet nuclei remaining in aerosols for long periods of time, thus there is evidence of airborne transmission. *Pseudomonas* can survive for months on dry surfaces and inanimate objects, and humidity can improve persistence. Source Public Health Agency of Canada



Tested by: M.T.ORTEGA, L.J.FRANKEN, P.R.HATESOHL, J.L.MARSDEN

Listeria monocytogenes is a family of bacteria. *Listeria is a* major human pathogen & can cause bacterial disease. Preventing listeria requires effective sanitation of contact surfaces. The bacterium is an intracellular pathogen which has been implicated in several outbreaks of disease. Listeriosis occurs worldwide, but is seen mostly in industrialized countries Source – Public Health Agency Canada





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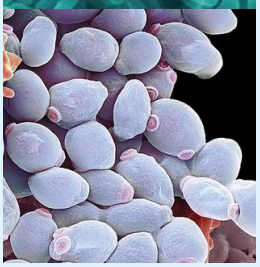
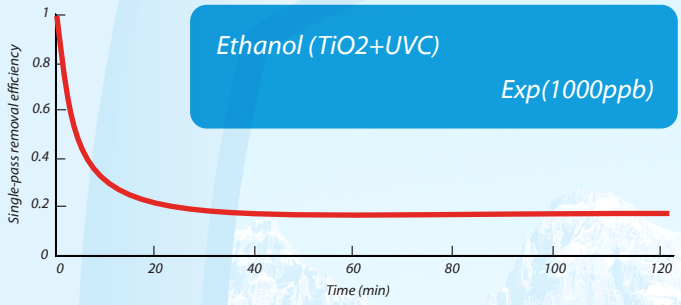
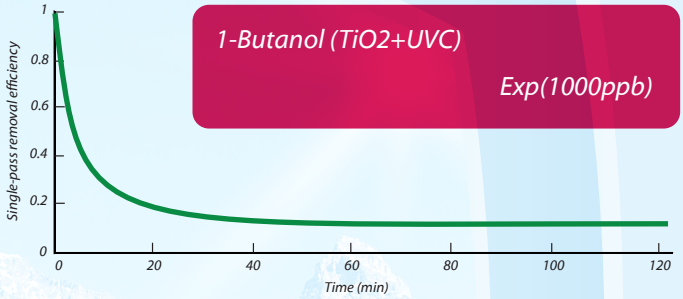
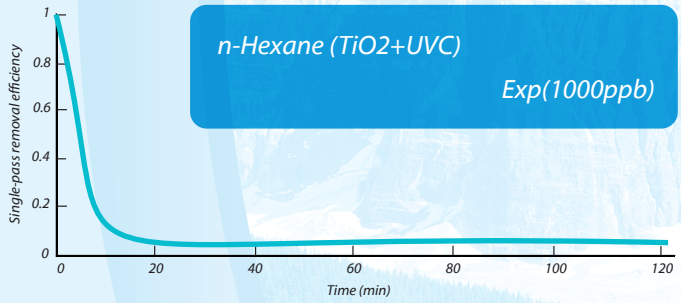
Candida Albicans is a causal agent of opportunistic infections in humans. Systemic fungal infections including those by *C. Albicans* have emerged as important causes of morbidity. *C. Albicans* biofilms can form on surfaces. Source – CDC

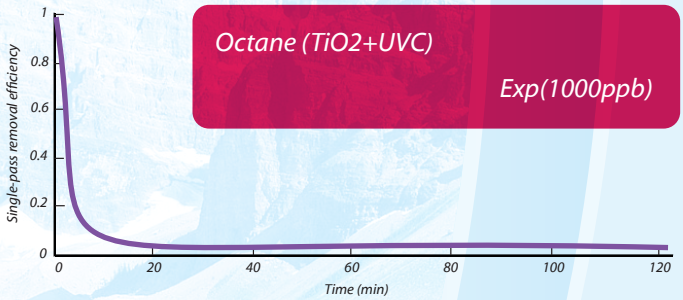


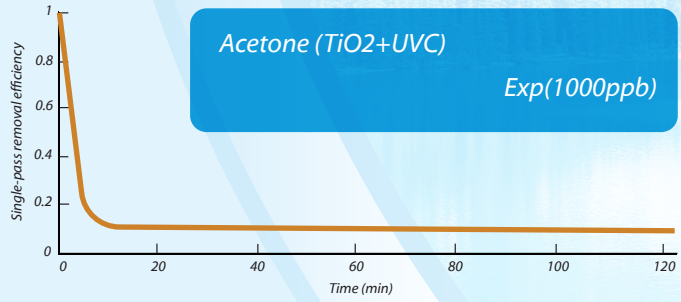
The following are 3rd party tests for airborne gases & VOC's (Volatile Organic Compounds) treated with UVC & TiO2 (UVC + PCO). These tests were performed by Zhong, Haghighat & Lee – Department of Civil & Environmental Engineering Concordia University – Canada.

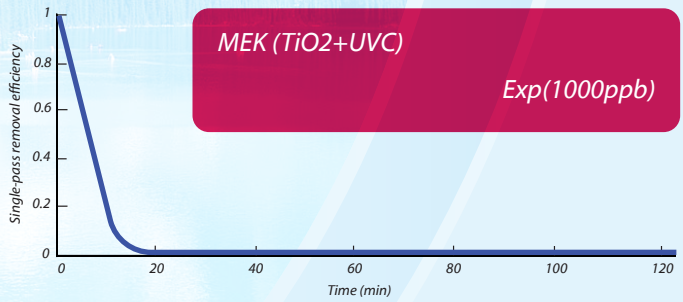


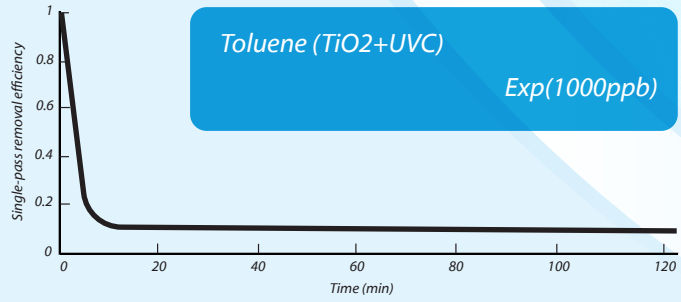


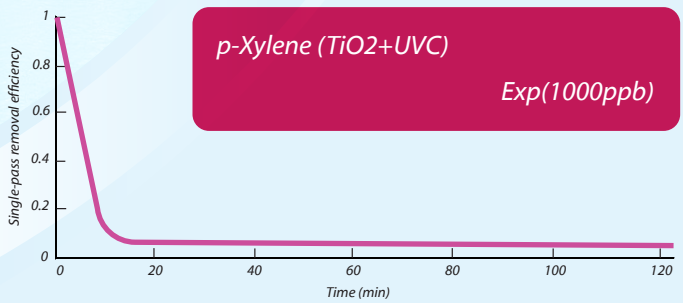


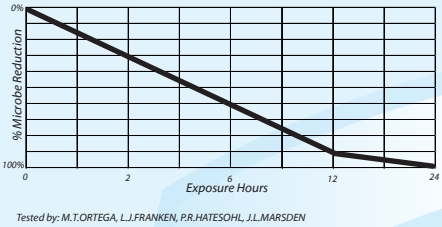












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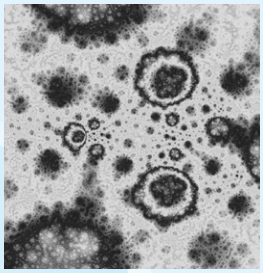
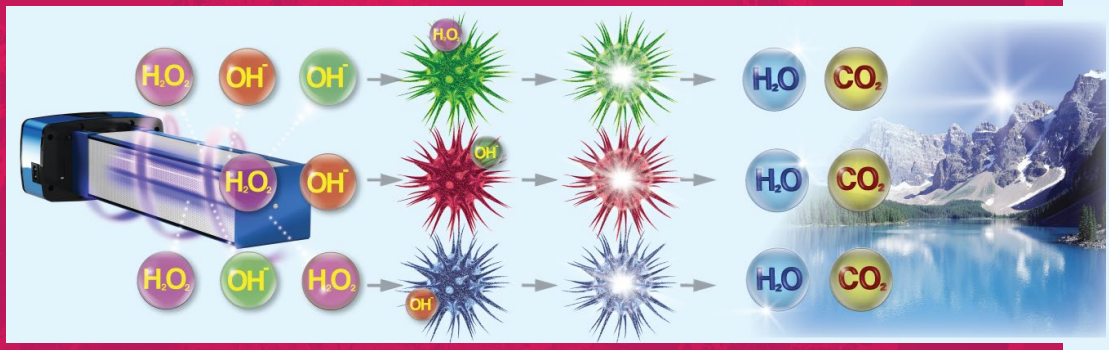
Stachybotrys has a widespread distribution containing about 50 species. **Stachybotrys Chartarum (S Chartarum)** is one of the more infamous organisms of this genus. Also known as "**black mold**" or "toxic black mold" in the U.S. it is frequently associated with poor indoor air quality that arises after fungal growth. Certain molds are toxigenic, meaning they can produce toxins, specifically mycotoxins. Source- Centers for Disease Control & Prevention



Respicaire advanced plasma technology uses Natures Ultra Violet Germicidal light in combination with catalytic materials to optimize the reduction of airborne microbials, odors, gases & VOC's for your indoor air. The ionic catalytic reaction that takes place produces airborne oxidizers that migrate throughout the indoor space to purify air & surfaces.With one of the largest surface areas to maximize the catalytic Titanium Dioxide (TiO2) reactive material Respicaire plasma purifiers offer one of the best investment values in the category. This helps to create a safe & highly effective air purifying solution for your indoor air.



Respicaire®

LET RESPICAIRE HELP YOU LIVE BETTER INDOORS!

FOR THE HEALTH OF YOUR INDOOR AIR

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