

in the  
**CLEARZONE**  
harnessing the power of nature

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# **Your Business, In The ClearZone**



# WHAT WE DO

In The ClearZone manufactures patented technology & uses proprietary methods to help businesses reduce viruses & bacteria in commercial settings. Our products are:

- ✓ **Automated**
- ✓ **Chemical-Free**
- ✓ **100% Natural**
- ✓ **Total Sanitization** - *air + benefits for hard & soft surfaces*
- ✓ **Broad-Spectrum Inactivation**
- ✓ **Proprietary Technology** - *HydroClear Technology*

STATEMENT OF CONFIDENTIALITY: This slide contains information that is proprietary as patents are in review with our legal team. It has been shared with you in confidence and cannot be shared until the patents have been filed. This information will not be a part of any external communications.

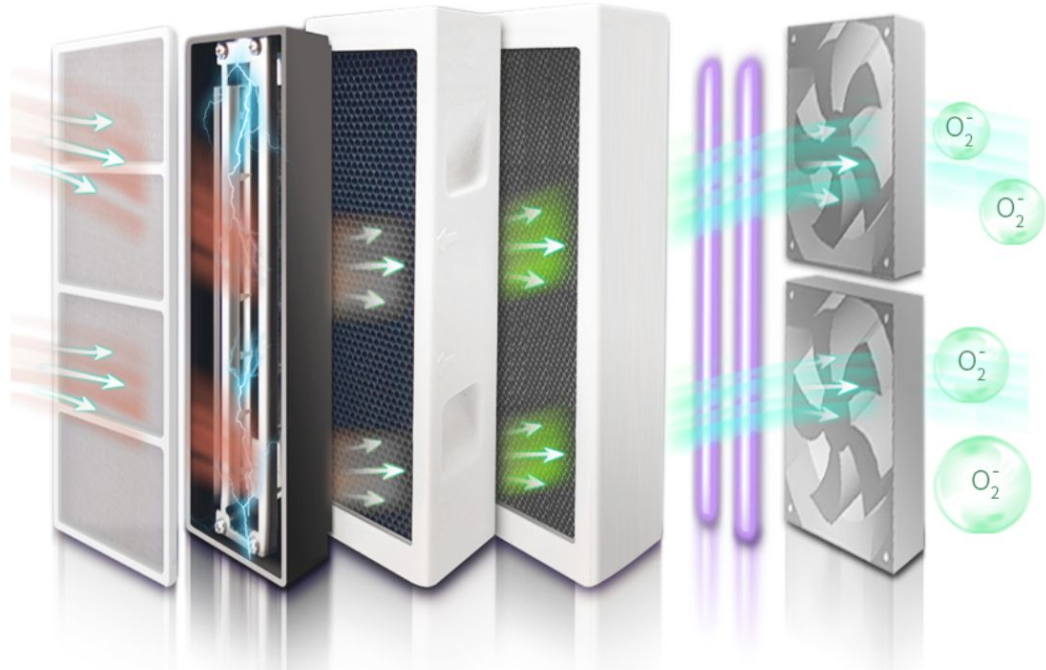


# HYDROCLEAR TECHNOLOGY

ClearZone developed our HydroClear Technology for use in occupied spaces.

This technology, uses a series of filters, UV light and natural **hydroxyls** to actively destroy pathogens where they are.

**NASA uses hydroxyls** and says they 'act like a detergent in the air, breaking down other gases'.

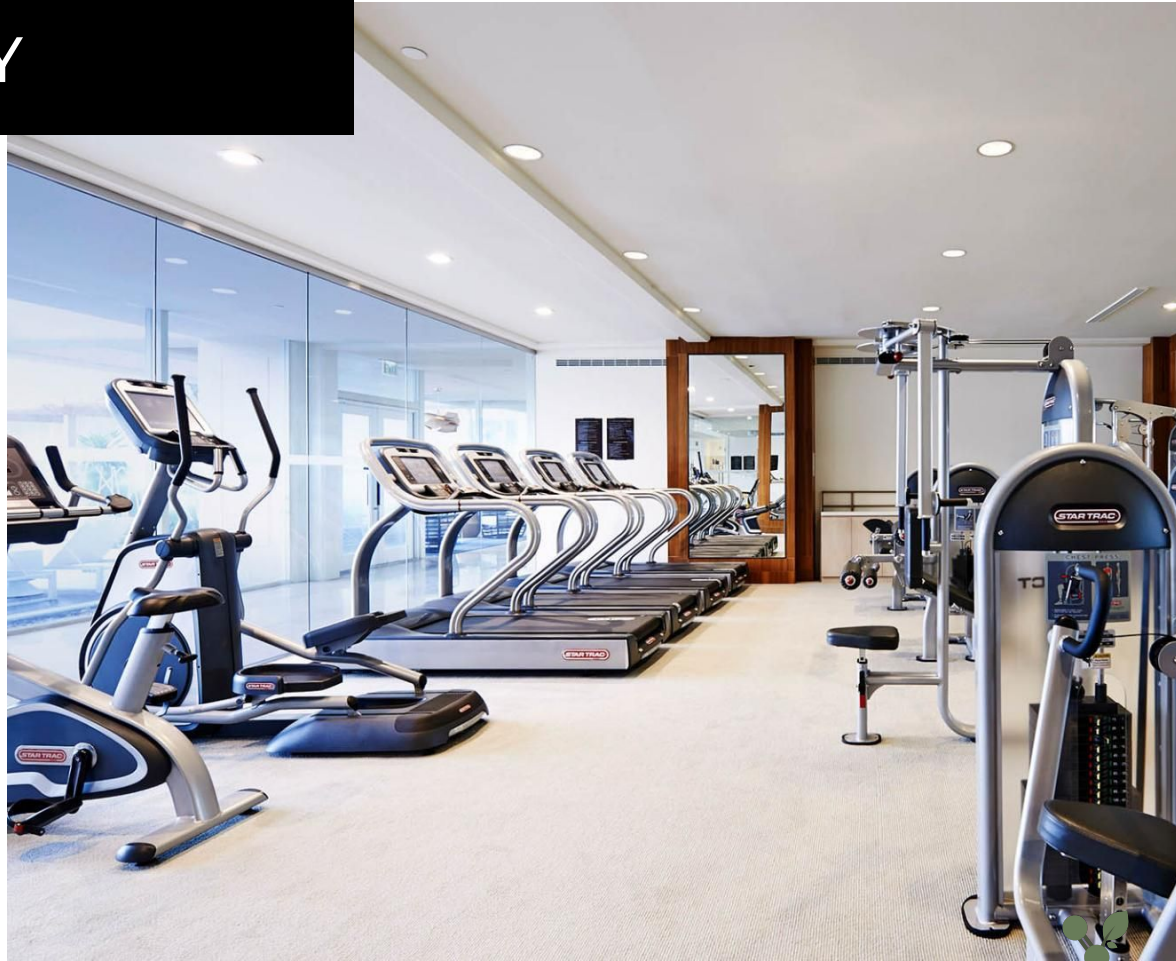




# OUR TECHNOLOGY

**HydroClear Technology** creates oxidizing warriors that go out and actively fill every corner of a room, seeking out pathogens and inactivating them, making this solution great for small, confined spaces with increased occupancy.

Both ROSs and UV light break apart the DNA and RNA strands of pathogens, inactivating them over time.



# Comparing Solutions

“Ventilation is likely to have less of an impact [...] because the greatest risk of exposure is when you’re close to someone” - **Aerosol Research Centre**



**Hepa Filters and Ventilation-based solutions** require pathogens to enter and travel through their system to be effective. **Many existing systems can not support heavy HEPA filters.**

They do not address viruses and bacteria close to the source

**ClearZone’s HydroClear particles** fill the space, seeking out and attacking pathogens where they are.

ClearZone’s solution **does not require or put stress on existing ventilation systems** or require maintenance and expensive installation.







Hunter vs. Gatherer





Seja Bem-vindo  
Metrô

PRÓXIMA ESTAÇÃO, FLORAMAR

02/01/2019  
16:54 +33°C

Seja Bem-vindo

PRÓXIMA ESTAÇÃO, FLORAMAR

PRÓXIMA ESTAÇÃO, FLORAMAR

Assentos Preferenciais  
000000  
São Paulo, 01/01/2019

Não Fume  
No trem

Hunter vs. Gatherer



# MARKET COMPARISON

ClearZone's HydroClear Technology is often compared to air purifiers, ionizers and competes with UV.

A key differentiator to this technology is HydroClear's ability to actively reduce pathogens in an area, while other methods use passive purification or potentially harmful components.

	ClearZone's HydroClear	Filters (HEPA)	Photocatalytic Oxidation	Ionization	Germicidal UV In-Duct	Hydrogen Peroxide
Safe for Occupied Spaces	Yes	YES	YES	YES	YES	LIMITED
Reduces Pathogens in Air - INSIDE the Devices	YES	YES	YES	YES	YES	NO
Reduces Pathogens in Air - OUTSIDE the Devices	YES	NO	LIMITED	LIMITED	NO	LIMITED
Kills Pathogens on Surfaces	YES	NO	LIMITED	LIMITED	NO	LIMITED
Safe for Materials	YES	YES	YES	YES	YES	NO
VOC & Odor Removal in Air INSIDE the Device	YES	NO	YES	YES	NO	NO
VOC & Odor Removal in Air OUTSIDE the Device	YES	NO	LIMITED	LIMITED	NO	NO
Sensor Driven Controls	YES	NO	NO	NO	NO	NO
Scaleable	YES	YES	NO	LIMITED	NO	NO
Remove Particulates	Yes	YES	NO	YES	NO	NO



# TECHNICAL RESEACH

**Hydroxyls are a safe and well-studied method for sanitization.**

- ✓ CSA 22.2 Standards
- ✓ Are recognized and regulated by the EPA <sup>16</sup>
- ✓ Have received FDA approval as medical devices
- ✓ Are recognized and regulated by the OSHA <sup>17</sup>



Environmental Topics

Laws & Regulation

Substance Registry Services (SRS)

## Hydroxyl radical

### Substance Details

<b>Internal Tracking Number:</b>	17135328
<b>Substance Type:</b>	Chemical Substance
<b>Systematic Name:</b>	Hydroxyl
<b>CAS Number:</b>	3352-57-6
<b>EPA Registry Name:</b>	Hydroxyl radical
<b>Molecular Weight:</b>	17.01
<b>Molecular Formula:</b>	HO

[Additional Metadata](#)



# KEY BENEFITS

- ✓ **Decrease pathogens where they are**
- ✓ **Kill bacteria in real time**
- ✓ **Providing clean air as a front line defence**
- ✓ **Decreases allergens**
- ✓ **Allow for safe gathering**
- ✓ **Create outdoor atmospheres indoors**





# THE BREEZE



- ~2 millions ions/ cm<sup>3</sup> (the same amount existing in nature)
- Germicidal UV light
- Portable - ~2 lbs
- One-touch automation
- Replaceable & washable filters
- Rated for up to 160 sq ft.

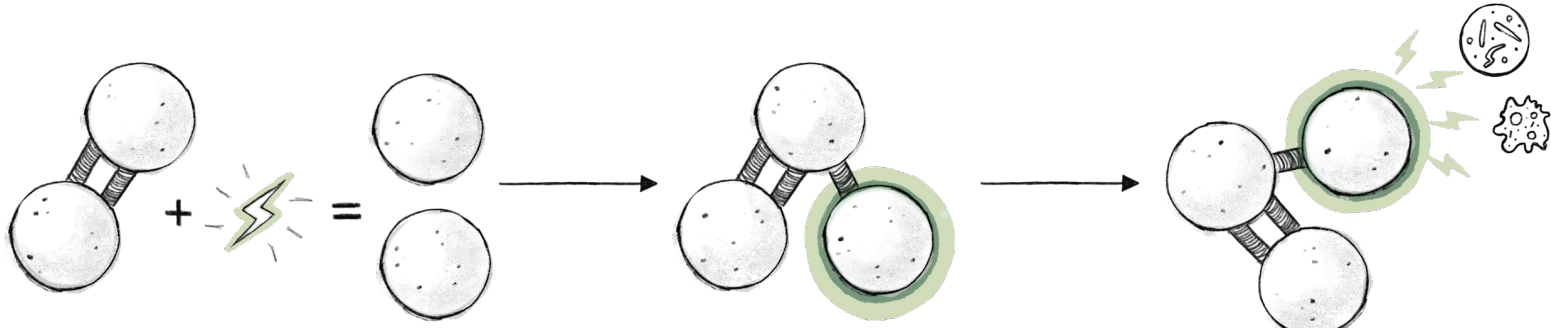


# THE ATMOSPHERE

- Carbon Filters
- Merv 13 HEPA Filters - 0.3 - 1.0 Microns
- Germicidal UVC light proven to inactivate SARS-CoV-2
- Available upto 1,000 sqft.
- Automated
- Light-weight - 11lbs
- HydroClear Technology



# HOW DOES HYDROCLEAR WORK?



- Oxygen & ambient water (O +HO) particles are actively drawn into ClearZone's machine
- Pathogens are destroyed as they pass through the Plasma Field
- UVC light breaks the chemical bonds creating free ions
- These ions are pulled through metal oxide-coated filters that convert them into SuperOxides, Hydroxyls and Peroxyls (Reactive Oxygen Species)
- ROSs oxidize pathogens, actively neutralizing them
- Outside of the machine, these ROSs oxidize pathogens, allergens, bacteria etc. before they naturally break apart back into oxygen & ambient water

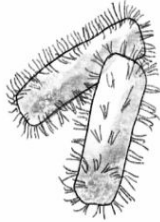




# EFFICACY

ROSs have a **long history** of deactivating unwanted germs, viruses and bacteria. These include SARS strains (**SARS-CoV-2** the COVID-19 virus), MRSA, pollen, HSV and have even been used in cases of biological warfare at neutralizing threats like Anthrax.

Studies have found that deactivation of viruses and bacteria using is achieved with consistent exposure.



E-Coli



SARS



Various Staph  
Infections



H3N2



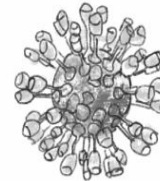
MRSA



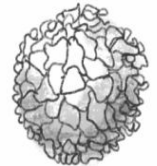
Yellow Fever



MSV



HSV



Polio



**Long-term,  
sustainable,  
solutions with  
long-term benefits. 🌱**



**QUESTIONS?**

