

## Facts about your indoor air

Indoor air is on average **4 times more polluted** than outside, significantly affecting the health of those exposed.

The average Australian spends **90% of time indoors** and comparative risk studies performed by the US EPA and its Science Advisory Board have consistently ranked indoor air pollution among the **top five environmental risks** to public health.

The CSIRO have reported that airborne contaminants Australians inhale in their homes and offices are costing the nation **\$12 billion a year** in sickness and lost productivity.

You breathe in 23,000 times or **12.3m<sup>3</sup> of air daily**, which is filled with bacteria, dust mites, mould spores and germs.



## A unique solution to protecting your indoor air environment



For **FREE** no obligation assessment of your home or workplace, contact us:

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# SYMPTOMS of poor indoor air quality



## Multiple Applications

- Hospitals
- Doctor's waiting rooms
- Schools
- Offices
- Retirement Villages
- Restaurants
- Trains
- Planes
- Food Preparation Areas
- Homes

In fact anywhere people breathe air indoors.

### Mould Exposure

Mould can affect human health in a number of ways. Possible responses however generally fall into one of three groups: allergic reactions; infections; or toxic responses. Responses range from minor to serious and can be temporary, long-term or permanent and may vary over time. It is common to find mould spores in the air inside homes, with most of these spores entering from outdoor sources and circulating through. Exposure to mould is unavoidable except when the most stringent of air sanitisation measures are in place.

### Air Pollutants

A number of commonly used products contribute negatively to the quality of the air you breathe. Did you know the following are hazardous air pollutants:

- Oil, gas, kerosene
- Wood & pressed wood products
- Stoves, furnaces or space heaters
- Tobacco
- Home & garden cleaning & maintenance products
- Personal care products

### Sick Building Syndrome (SBS)

SBS is a term coined by the EPA, World Health Organization and the medical profession referring to the following set of symptoms that relate to poor indoor air quality:

- Headache
- Eye, nose and/or throat irritation
- Dry cough
- Skin itchininess
- Dizziness and nausea
- Fatigue
- Lack of concentration
- Increased incidence of asthma attacks
- Asthma symptoms in non-asthmatics
- Alleged cases of bronchitis or pneumonia which does not respond to antibiotic treatment.

# SOLUTIONS to poor indoor air quality

Hypersan specialises in significantly improving your indoor air quality by introducing **CIMR Infection Control Technology** an innovative, proven and leading-edge technology that eliminates **bacteria, viruses, mould and fungi from your indoor air.**

In particular, hydrogen peroxide gas (H<sub>2</sub>O<sub>2</sub>) has specifically demonstrated that it is very effective at disinfecting the H5N8 virus, Methicillin Resistant Staphylococcus Aureus (MRSA) and Black Mould as well as several other microbes such as E-coli, Listeria Monocytogenes, Candida Albicans, Streptococcus, Pseudomonas, and Bacillus Subtilus.

### What is CIMR®?

CIMR™ stands for continuous infection microbial reduction and is an ozone-free process that continuously disinfects viruses, bacteria, mould and fungi by producing 0.02 ppm (parts per million) of hydrogen peroxide gas from oxygen and water vapour in the air.

### How does it work?

CIMR Technology and H<sub>2</sub>O<sub>2</sub> gas first sanitises any air ducts, air and exposed surfaces within the environment. Then within 48 hours the H<sub>2</sub>O<sub>2</sub> gas in the air diffuses into every crack and crevice that air can penetrate, continuously disinfecting microbes in places that other processes cannot reach. Therefore proactively attacking bacteria, viruses, mould and fungi safely within in your environments.

### Is it safe?

CIMR technology is totally safe. In fact, at 0.02ppm concentration level it's safer than outdoor air! The level at which the H<sub>2</sub>O<sub>2</sub> is released is fifty times safer than the OSHA determined safe level in a workday. Furthermore, the gas concentration is self-regulating. If the concentration exceeds 0.02ppm, the H<sub>2</sub>O<sub>2</sub> starts reacting with itself until concentration drops back 0.02ppm. This is also a safe process as it breaks down into non-toxic oxygen and water vapour.



# PRODUCTS - Hypersan using CIMR technology

Hypersan's CIMR systems come in a variety of sizes to suit any environment. We offer systems that can safeguard entire hospitals or a family home or a doctor's waiting room. Our systems can be installed into air intakes, air ducts, single room heating/cooling units or can be purchased as a stand alone unit. All units come with a 2-year usage guarantee before the cells need to be replaced. Please contact a consultant about the best clean air solution for you.



### Hypersan - 2000

Application - Portable home or office unit  
Electrical - 240 volt - 45 watts  
Mechanical - 60 CMF fan, lint screen, Electrostatic Filter  
Dimensions - 305mm H x 230 W x 305 D  
Weight - 5kg  
Coverage - 184 m<sup>2</sup>



### Hypersan - 414

Application - Large commercial areas:  
In-duct or stand-alone unit  
Electrical - 240 Volt 50 Hz 127 watts  
Mechanical - Up to 4 cells  
Dimensions - 381mm H x 490 L x 185 W  
Weight - 12kg  
Coverage - 278m<sup>2</sup> to 1486m<sup>2</sup>

## Benefits?

- Ozone free and eliminates ozone from the air it's treating
- Disinfects existing microbial contamination
- Protect the environment against further infection
- More effective than ionising and filtering methods

## CIMR In action:

*The US military have been using CIMR technology for several years ensuring every soldier has a clean, healthy work and home environment free from mould and mildew.*

*The Fort Hood, Texas, Directorate of Public Works is actively addressing the problem of mould and mildew growth in the barracks and other facilities...*

*The facility management team were assigned to research, test and implement a strategy using hydrogen peroxide gas to treat mould and bacteria... The first and second test trials were successful in eliminating mould and mildew.*

**"The new process is an efficient, cost-effective solution to battling mould and mildew,"** the Facility Manager said.

*Now at Fort Hood, more than 100 barracks rooms, a dining hall and a section of the Keith Ware Hall have been treated.*

### Other Applications:

- a. Lamar University - after extensive water damages caused by hurricane Ike and
- b. Similarly Spindletop Museum - after hurricane Rita.