



The simplest way to improve your indoor air quality by killing the mold, bacteria and viruses that grow in your air-conditioning system.



# What is Gelair?

A patented system, using a specially formulated gel matrix that is placed in an air handling unit (AHU), where it releases specific concentrations of top quality Australian tea tree oil vapour throughout the air-conditioning system. Tea tree oil (a 100% natural essential oil) is a broad spectrum anti-microbial and anti-fungal agent.



## Gelair improves indoor air quality

- Inhibits the growth of mold
- Kills bacteria (including *Legionella Pneumophila* which is responsible for Legionnaires' disease)
- Kills viruses (studies have shown tea tree oil to be effective in inhibiting the replication cycle of H1N1)

# Why do I need Gelair?

Moisture build up in air-conditioning AHUs is inevitable. With Asia's humid environment and condensation issues, we quickly see why our cooling systems provide the perfect environment for mold and bacteria to grow. If these mold or bacteria grow on the exterior parts of the system, they can be cleaned away. But what about all the bacteria we can't see?



Mold & bacteria on a filter



Mold & bacteria in a duct



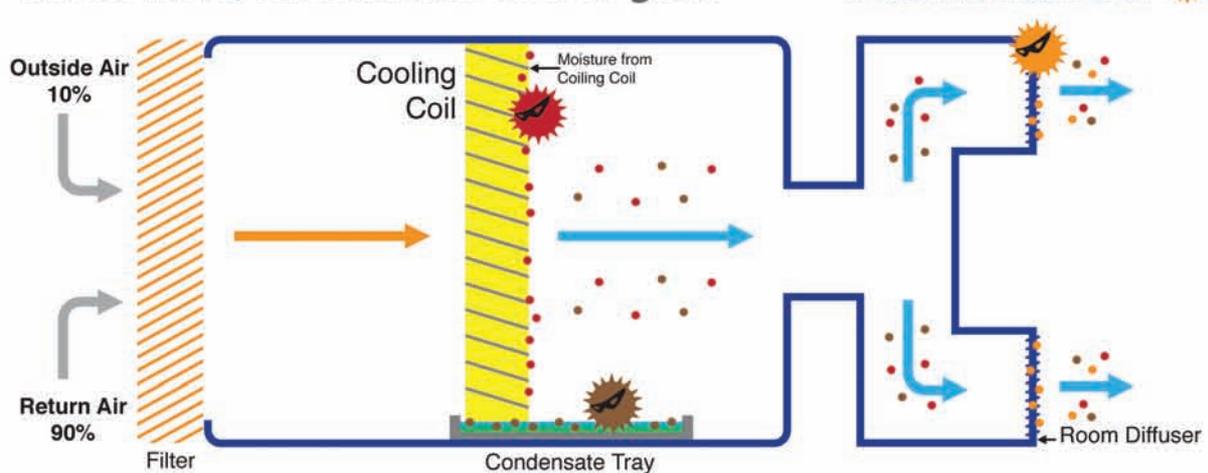
Mold & bacteria in a duct

## If air-conditioning systems are left untreated, we end up with:

1. The spread of invisible bacteria and viruses
2. The growth of mold throughout the system
3. A strong odour due to mold and bacteria that is often masked with fragrances or perfumes
4. Increased instances of sick building syndrome

By adding a Gelair block to your AHU, you have a natural, effective way of making sure your ducts remain healthy and more importantly, the air entering the occupant zones is treated for mold, bacteria and viruses.

### Where mold, bacteria and viruses grow



## What is sick building syndrome?

Definition from Wikipedia:

*"Sick building syndrome (SBS) is a combination of ailments associated with an individual's place of work or residence. A 1984 World Health Organization report into the syndrome suggested up to 30% of new and remodeled buildings worldwide may be linked to symptoms of SBS. Most of the sick building syndrome is related to poor indoor air quality. Sick building causes are frequently pinned down to flaws in the heating, ventilation and air-conditioning (HVAC) systems.*

*Symptoms: Sensory irritation of the eyes, nose, throat; Neurotoxic or general health problems; Skin irritation & Nonspecific hypersensitivity reactions; and odor and taste sensations."*

The symptoms referenced in the Wikipedia definition above are symptoms associated with mold and bacteria exposure.

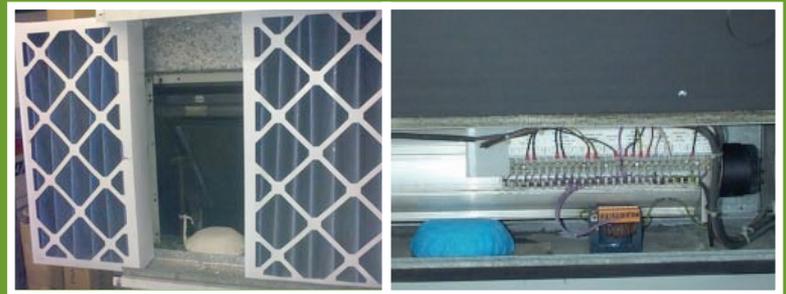
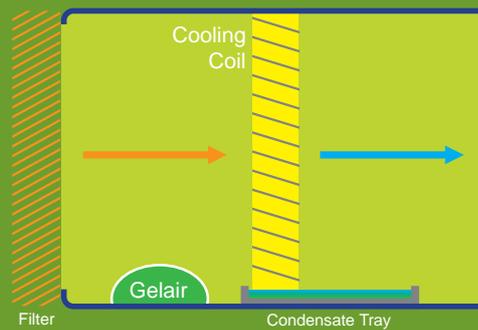
A study in Singapore showed that  
**1 in 5** people suffer from sick building syndrome.\*

\* Occup Environ Med. 1998 March; 55(3): 188-193. P.L. Ooi, K.T. Goh, M.H. Phoon, S.C. Foo and H.M. Yap

# How is Gelair installed?

It couldn't be easier. Open up the packaging and place the Gelair block in the AHU between the filter and the cooling coil. Gelair is supplied in a vacuum bag so some of the solution will be left in the packaging. This can simply be poured into the AHU and will help give an initial burst of tea tree oil vapour into the system.

## Easy-To-Install Method



Gelair installed in the AHU of an air-conditioning system

Gelair installed in the air-conditioning unit of a yacht

# What does Gelair smell like?

The natural smell of Gelair is from the tea tree oil. When Gelair is first inserted into your system, you may notice a faint tea tree odour which most people describe as "clean" and "fresh". This initial scent is the best way to be sure the Gelair block is releasing optimal concentrations of tea tree oil throughout the system and reassures you that the room is treated for mold, bacteria and viruses.

# Who uses Gelair?

Gelair has been available in Australia, the US and Europe for 10 years. Now it has finally come to Asia and can be applied in any air-conditioning system.

## Gelair Efficacy Data

A sample of Gelair solution was tested by TÜV SÜD PSB for its bactericidal and fungicidal activity in accordance to the BS:EN 1040:200 standard.

Bacteria	% Kill
MRSA (Methicillin resistant <i>Staphylococcus aureus</i> )	99.9993%
<i>Legionella pneumophila</i>	99.9995%

*"To Whom It May Concern,*

*In preparation for our Green Mark accreditation, we had conducted an indoor air quality audit in May 2010 and found a few isolated areas with bacteria levels above the stipulated guidelines.*

*After reviewing the various options available, we decided to use the Gelair product range as it offered the best holistic solution.*

*In June 2010 we installed Gelair blocks in our AHU's and used Gelair Solution to clean cooling coils and surfaces.*

*After only three days we conducted a follow up indoor air quality audit which concluded that the bacteria and mold counts in all the areas had been brought under control and well below the Green Mark guidelines.*

*After using Gelair we can confidently recommend the product to others who strive for the highest indoor air quality for their buildings. Gelair is extremely simple to use, effectively treats the entire HVAC system and is listed as a green product by the Singapore Green Building Council.*

*We are extremely satisfied with Gelair and would definitely recommend this product to anyone who wishes to improve their indoor air quality."*

**Ernest Cham**

*Building Manager, Keppel FMO Pte Ltd*

### Examples:

- Hotels
- Office Buildings
- Exhibition Centers
- Car Showrooms
- Homes



- Yachts
- Social Clubs
- Factories
- Stadiums



- Hospitals
- Day Care Centers
- Nurseries
- Spas
- Schools



# How long does the Gelair block last and what size do I need?

Gelair comes in 4 sizes (0.5l, 1l, 2l and 4l) and the size required depends on the amount of air passing through the AHU. As a general rule of thumb, each Gelair block should be replaced monthly and the size requirements are summarised in the table below.

System Capacity (AHU air flow)	Gelair AB Size
Up to 1,000 CFM	AB 0.5
1,000 - 2,000 CFM	AB 1.0
2,000 - 3,000 CFM	AB 2.0
3,000 - 5,000 CFM	AB 4.0

# How does Gelair compare to other treatment options?

Gelair is the best treatment option that manages the entire air-conditioning system. Not only does it treat the air passing through the system, it also treats the AHU, the ducts and the diffusers.

Treatment Option	Air	AHU & Condensate Tray	Ducts	Diffusers & Occupant Zone
Gelair	✓	✓	✓	✓
UV technology	✓	✓	✗	✗
Silver ion filters	✓	✗	✗	✗

Gelair is also the simplest to install.

- No training required to install the Gelair block
- No installation equipment required
- No energy required to run the system

# Are all tea tree oil products the same?

**No.** The processing and refining of tea tree oil is an exact science and due to the complexities, not all tea tree oil is the same. Gelair was developed in Australia, with oil sourced from local tea tree farmers. To ensure efficacy, every batch of tea tree oil used in Gelair products is chemically analysed to confirm it meets the highest standards.

## Gelair Solution

The anti-bacterial benefits of Gelair are also available in solution form. Gelair Solution provides the perfect tool to clean cooling coils, condensate trays, and other areas exposed to mold and bacterial growth.



## Benefits of Gelair

1. Kills mold
2. Kills bacteria (including *Legionella*)
3. Kills viruses (including HSV & inhibits the H1N1 replication cycle)
4. Improves indoor air quality  
(e.g. for Green Mark assessment or to reduce sick building syndrome)
5. Simple to install and no maintenance
6. Kills odour causing bacteria instead of just masking the smell
7. 100% natural
8. No bacterial resistance issues
9. Treats the entire air-conditioning system and the occupant zone
10. Regular maintenance cycle with no operational costs

Authorized Dealer

# GETC

For any product enquires:  
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