

# GermXit® Gel - The Natural Purifier™

Why is this a Breakthrough for the Indoor Air Quality Industry?

***“I am persuaded that no common air from without is so unwholesome as air within a closed room that has been often breathed and not changed.” - Benjamin Franklin - American Statesman 1706-1790***

Ben Franklin knew it over 200 years ago - stale indoor air is not good to breathe. Since Ben's time the quest to improve indoor air quality has bred an abundance of filters, treatments, machines, chemicals, processes and procedures. Many work - and many of them work quite well - HEPA and ULPA filters are state of the art for entrapment filters. Various electronically enhanced filters, UV, purifier machines and more do what they say and produce positive results in many applications. Yet all have drawbacks and none give full system, full time, cost effective, trouble free results.

A full system comprehensive contaminant reduction system was needed. Ideally this system would be easy to install and maintain, it would work all the time and not be subject to power outages or mechanical breakdown. It would cover every point of an indoor air circulation system - including the AHU equipment, ductwork, grills and vents and it would carry out into the air of the rooms and all areas the system serves. It would also be 100% natural, renewable and completely safe for humans, pets, equipment and the environment. And most importantly it would control biological contaminants - a leading cause of Sick Building Syndrome - a.k.a. SBS.

Over 20 years ago, IAQ Technologies saw this need and began the search for a solution. Carl Straub, founding partner of IAQ understood early on that existing HVAC cleaning practices and modern filtration methods were inadequate to keep indoor air clean and healthy all the time. Standard duct cleaning services clean the physical dirt without effectively removing biological contaminants. Ever more efficient filtration only lead to less efficient air movement and single points of filtration only catch contaminants at the filter.

## **Bio-contaminant and Carbon Reduction - GermXit® The Natural Purifier™**

From the very beginning Carl's pursuit for a solution has focused on “proof”. Does it work and can it be proven to work? With roots in Australia where the power of melaleuca oil or tea tree oil has long been known and accepted, it was natural for IAQ to look to it as a possible air quality solution. Everyone knew that tea tree oil killed germs when applied directly but the question and challenge was - could tea tree oil be put efficiently into the air and would it work in the air?

Early tests showed that it did work and that melaleuca oil could be dispersed through the air. One of the first large scale commercial uses was in the [Melbourne Exhibition and Convention Centre](#). IAQ continued experimenting and refining the original formulas and over the next 15 years did what no one else did - tested this in the lab as well as in the real world.



IAQ Technologies Thailand initiated the practice of testing for bacteria and mold counts before and after installing GermXit. Additionally IAQ Technologies commissioned independent laboratory tests to quantify and to certify the effectiveness of GermXit. Results are stunning.

### **GermXit® Works - and it is Proven**

What has come out of this is what IAQ Technologies of Australia has termed a certified bio-contaminant and carbon reduction system - **CBCR System**. GermXit® is the core of the system. Active ingredients are all natural. It is renewable. It is safe to use around humans and pets. It requires no electricity. It is simple to deploy in any air circulation system from room fans to giant commercial HVAC systems and it will not harm equipment.

Through years of testing by IAQ and hundreds of independent tests melaleuca oil has proven over and over that it is effective in controlling a wide range of microbial contaminants. GermXit recently applied for government certification as a medical device. Rigorous testing conducted under real world conditions is required on the road to that certification. The [tests performed by a major university](#) show **reductions in bacteria of up to 95%** on room surfaces and up to 90% in the air. **Molds were reduced by up to 75%** in the same tests. Earlier independent testing had already shown GermXit **reduced carbon dioxide counts by more than 50%**.

### **What is Next for the IAQ Industry?**

The indoor air quality industry exists to solve the problem Benjamin Franklin recognized over 200 years ago - how to make the air we breathe indoors healthier? Until now the focus has been on solutions deployed at single points in a system - GermXit now shifts that focus to encompass the entire volume of the area. Building owners and managers need to look at the old technologies and question, "Is this the right approach? Is it the only approach? Or is there more that I can do for my own health as well as for the people who work and live in the buildings I care for?"

For more information about GermXit and IAQ Technologies please email to [contact.us@germxit.com](mailto:contact.us@germxit.com)



## Where and how to use GermXit®

GermXit can be added anywhere there is a moving airflow. In commercial air handling units, room air conditioners, portable room cooling units and even on standard electric room fans. It can also be used in any room or area with a natural air circulation from the outdoors through windows or doors.

If natural airflow is not available as in a bathroom or other closed in area, GermXit makes various room sized special fan dispensers to help move the air. These dispensers can also be used where it is impractical or impossible to otherwise access the ventilation system.

GermXit is an excellent odor fighter. It attacks the causes of odors - it does not simply cover them up. Most odors are caused by bacterial decay, by controlling the bacteria and fungi you eliminate the odor.

Use GermXit in any room, office - large or small, board room, condo, home, factory areas, clean rooms, hospitals, operating rooms, computer rooms, schools, classrooms, cars, truck cabs, busses, boats - anywhere indoor air can get stale or stuffy.

## How GermXit® is used now

1. Use anywhere there are stale odors - GermXit attacks the cause of the odors, it is not simply a perfume.
2. Anywhere you can see mold or mildew - or where it is suspected. As GermXit evaporates natural air circulation will carry the active ingredient throughout the entire area and eliminate the mold spores that cause the growth you see as well as growth you cannot see - for example, behind and under furniture or equipment.
3. Use it in laundry areas for a fresh and clean feel.
4. GermXit will eliminate pet odors - use near where pets sleep, eat and play.
5. Excellent in all marine environments to eliminate mold odors and keep mildew at bay. Especially good when a vessel is closed for storage.
6. Eliminates cooking smells in home kitchens as well as giant size commercial kitchens.
7. Use in hospital wards and rooms to control all kinds of odors.
8. Used by hospitals to eliminate mold and bacteria in operating theaters. Tests show bacteria levels drop to near zero.
9. Works in conjunction with HEPA and ULPA filters to maximize bacteria and mold spore entrapment in clean rooms.

10. Reduce carbon dioxide by 50% or more in board rooms, bedrooms, offices and any areas where people gather.
11. Reduce odors in morgues.
12. Controls odors in all vehicles, private automobiles and commercial busses, taxis and vans. GermXit works especially well to minimize the tobacco smoking odor and stale air.
13. Reduce the odor and carbon in smoking rooms in public areas, airports, train and bus terminals public buildings.
14. Works to reduce carbon in the air caused by high smoke and pollution. Especially areas of Southeast Asia where this is an annual problem.
15. An excellent treatment for smoke and fire remediation. GermXit is used successfully to remove toxic odors in homes and buildings after fires.
16. Also used in AHU's, FCU's and ductwork after fires.
17. Helps to minimize the transfer of disease in sickrooms through demonstrated reduction of bacteria in the air of up to 90% and 95% on surfaces.
18. Used on cruise ships to control Legionella and influenza and to cut high mold counts.
19. Extensively used throughout Southeast Asia in private and public schools, kindergartens and day care.
20. GermXit is used around the world on on drilling platforms and marine vessels of all types and sizes. Rig managers and ships captains report 80% or more reductions in sick call reports for respiratory issues.
21. GermXit can be used to mitigate odors caused by food decay, dead animals and other organic waste.
22. Has been used in field hospitals during natural disaster assistance to reduce bacteria and odors.
23. GermXit has been used offshore to control Mercer's disease (MRSA) and against spread of influenza on board drilling rigs.
24. Can increase shelf life of foods in cold storage by reducing bacteria caused spoilage.
25. Used in Factories to control mold that can affect production and reduce waste.
26. Could be used in airlines for fumigation purposes after travel

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