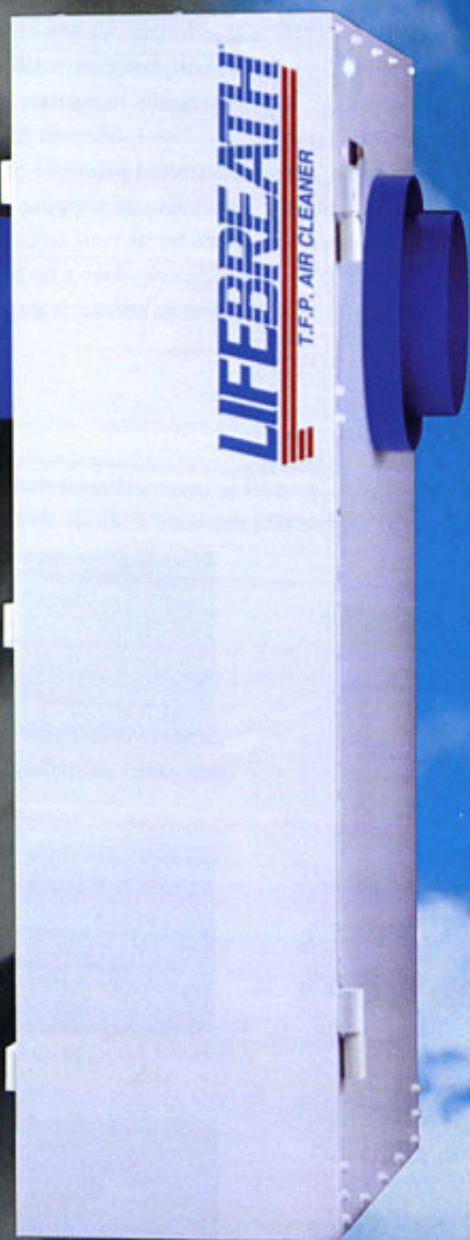


*Breathe better,
live better*

Introducing:
**The Lifebreath
Air Cleaner**



LIFEBREATH
T.F.P. AIR CLEANER

An Incessant Attack on Your Health

Millions of airborne particles could be making the air in your home dangerous



Alive, these microscopic creatures are harmless. But their dead bodies and their droppings are highly allergenic, a prime cause of asthma attacks. It takes a high performance air cleaner to rid your house of this major health problem.



Asthma can be triggered by contact with allergens, usually in the home. Clean air is the answer!

How does the air inside your home become polluted?

Air inside a home is generally more polluted than in the streets outside – according to the Environmental Protection Agency as much as 10 to 70 times more polluted. Your home may not be a healthy place to be.

The reason is that indoor air is loaded with tiny particles generated by the activities of humans, pets and insects. During the course of a day an adult breathes in the equivalent of two heaping tablespoons of these airborne particles. The more time you spend at home the more your health is likely to be affected by breathing this polluted air – bad news for the very young and the very old.

Some of these particles cause allergies, some are carcinogenic, and all put an extra burden on the body's immune system. The very small particles are a special problem; they are able to bypass the body's defences and lodge in the mucous membranes and linings of the respiratory system. It's no wonder that poor indoor air quality leads directly to higher levels of chronic respiratory disorders.

Until now, no residential whole-house air cleaner has been capable of capturing the full range of health threatening particles. The larger particles are not difficult to capture, but the far more numerous smaller particles have been an insoluble problem. Consider this – one cubic foot of indoor air may contain a million or more particles, ranging in size from visible dust specks to particles so small that they can only be seen by an electron microscope. A good quality furnace filter might be able to remove 1% of these particles. The 99% that remain, however small they may be, are all potentially dangerous.

The Lifebreath Air Cleaner, using the newly discovered principle of Turbulent Flow Precipitation, is capable of trapping the full range of airborne particles in your home. In fact the revolutionary Lifebreath does a far better job of removing airborne contaminants than any other residential air cleaner.

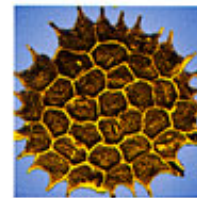
Know the Enemy

Scientists use a special unit of measure for objects as small as these airborne particles – the micron. A micron is one millionth of a metre. The period at the end of this sentence is about 400 microns across.

Larger particles Larger than 5 microns –

Dust of many kinds, hair from pets and humans, skin flakes, fog and mist caused by water vapour condensing on small particles, pollen, fungus spores, and some bacteria.

Lifebreath Air Cleaner removes all of them – 100%.



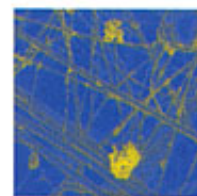
Pollen spores – 10-100 microns

Plant pollen is a common cause of seasonal allergies. Fill your house with clean air and it will be less of a problem.

Mid-size particles 5 microns down to 1 micron

More bacteria, more skin flakes, and various kinds of dust. Dander from pets. Smoke from cooking, fireplaces and burning tobacco.

Lifebreath Air Cleaner removes close to 98% of these mid-size particles



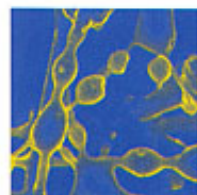
Household dust – .001-10 microns

Removal of airborne household dust will make a distinct difference in the amount of visible dust in a home.

Very small particles Less than 1 micron, down to .5 microns–

Very fine forms of dust, plus carbon particles from burning, particularly tobacco smoke.

Here's where the Lifebreath Air Cleaner excels: it removes 90% of these elusive sub-microscopic particles.



Tar particles – .018-.1 microns

Particles even smaller than 0.5 microns will be removed from the air if, as often happens, they are attached to a larger particle. In this category are many constituents of smoke, and viruses.

A Breakthrough in Home Pollution Control

A revolutionary new particle-capture technology ensures clean, healthy air throughout your home



Lifebreath cleans all the air in an average house at least 9 times every day.

Five reasons why the Lifebreath Air Cleaner with TFP will give you greater long-term protection than any other type of whole-house residential air cleaner.

- 1: Lifebreath removes health-threatening particles from the air far more effectively than other residential air cleaners.
- 2: It operates continuously at maximum efficiency, without need for constant adjustment or clean-out.
- 3: It cleans the air throughout your home, benefitting everyone in the family, all the time.
- 4: It allows air to circulate freely without putting any extra load on your air distribution system.
- 5: Unlike electronic air cleaners Lifebreath does not generate any poisonous ozone which can attack your lungs.

Until recently, clean indoor air was a luxury. Now, with the incidence of allergies and respiratory diseases increasing everywhere, it's a necessity.

The pressing need to get pollution out of our homes is showing up the deficiencies of existing home air cleaners. None are capable of capturing the full range of health-threatening particles. Many leave as much as 80 percent of the smaller particles untouched – free to circulate through our homes, aggravating existing allergies and triggering new ones.

Worse, some types of air cleaners fill our homes with ozone, adding a new form of pollution to what is already there.

Lifebreath uses an entirely new principle to trap the full range of particles, down to sub-microscopic sizes. The principle of Turbulent Flow Precipitation was recently discovered by anti-pollution researcher Dr. Francis Dullien. It removes airborne particles continuously, needs attention no more than once every year, and generates absolutely no ozone.

This booklet is your introduction to the first air cleaner capable of giving you and your family what they deserve – clean, healthy, air in every room of your home.



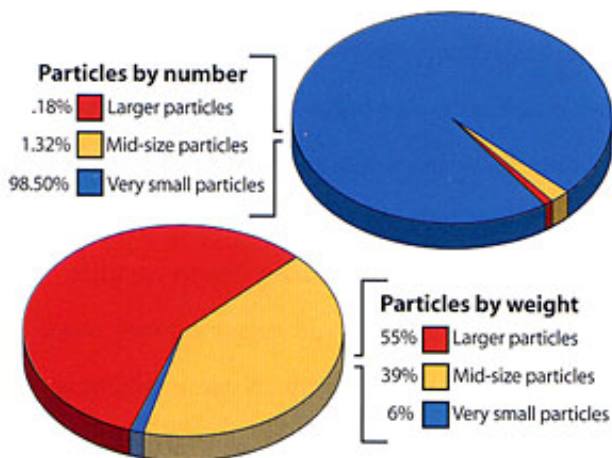
Installation is simple and straightforward, even in cramped quarters.

"Just two years ago my husband Cam suddenly developed allergies. He's been diagnosed as being very sensitive to ragweed and has been given allergy shots, which helped. But much more helpful, he says, was installing a Lifebreath Air Cleaner. Now he knows that there's one place he can go to get some respite – and that's home!"

*Heather Stevens,
Ontario.*

It's the Number of Particles that Matter, Not the Weight

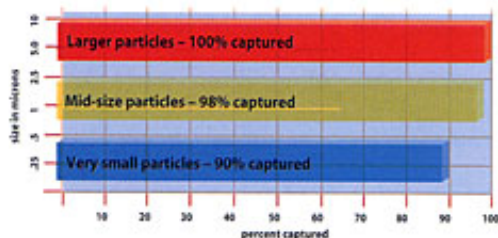
Household Air



When you come to choose an air cleaner for your home you may be puzzled by the high performance figures claimed by some very simple devices. Take a closer look, and you could find that the manufacturer is measuring not the number of particles removed from the air but the weight. For example, a simple furnace filter may well remove all the particles larger than 5 microns in size. This could be expressed as 80% removal rate – by weight. But, as these charts show, particles larger than 5 microns account for only 0.18% of the total number of particles in the air. That 80% figure sounds impressive, but look at the numbers and you'll see that it still leaves 99.82% of the particles still circulating!

Always look closely at performance figures to make sure they relate to numbers, not to weight. At Lifebreath we go further, telling you how effectively our unit can remove the different sizes of particles.

Lifebreath Air Cleaner particle capture rate



Lifebreath captures even the small particles

In addition to capturing the larger dust and pollen particles, Lifebreath excels in removing the very small particles that are a major threat to health. Nearly 99% of the particles in indoor air are less than one micron in size. Lifebreath is the only whole house residential air cleaner capable of removing as much as 90% of these dangerous particles every time the air passes through the Lifebreath unit.

Can you prove that the Lifebreath Air Cleaner does what you say it will do?

We can, in a number of ways.

The performance figures which we quote were confirmed by an independent laboratory, Air Filter Testing Laboratories Inc.

More recently a production model of the Air Cleaner was tested alongside four competitive domestic air cleaners in order to compare their efficiency over a period of time. The graph below records particle-removing performance of all four cleaners over a period of 14 months.

At Home Shows and similar events the

Lifebreath Demonstration Team performs a live experiment in which a laser particle counter measures the number of particles going in to the air cleaner while another measures the number coming out. The difference is amazing!

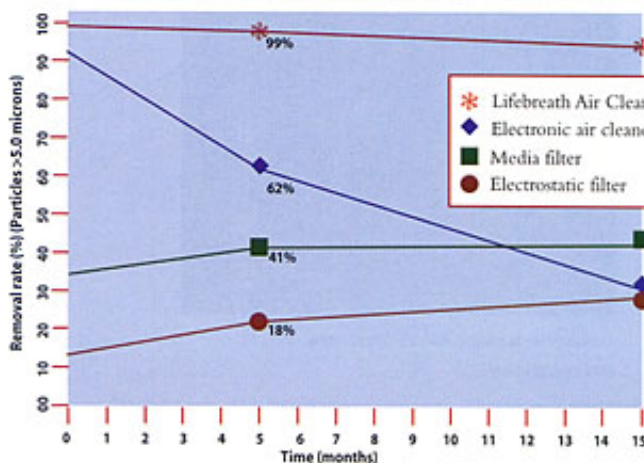
Users across North America tell us that the Lifebreath Air Cleaner has made a dramatic difference in their lives. A few brief testimonials appear in this brochure: more are available on request. Contact us at the address on the back cover and we'll send you a copy of the test data on which our performance claims are based.



laser particle counter

The laser particle counter is by far the most reliable instrument for testing air cleaner performance. The model shown is portable, and is capable of counting as many as six sizes of particle, simultaneously. Comparing the number of airborne particles at the inlet and outlet of an air cleaner is a direct indication of how well it is doing its job.

Comparison of different tested air cleaners



* The top line records performance of the Lifebreath Air Cleaner. There is a small fall-off in efficiency towards the end of the test period.

◆ The second line belongs to a popular brand of electronic air cleaner. Here the fall-off in performance is very dramatic.

■ The third line shows typical performance for a media filter – in this case a deep-pleated type. Particle-stopping performance is comparatively low, improving slightly with time.

● The fourth line is a self-charging electrostatic filter, offering even lower performance.

Note: Efficiency x Initial Air Flow = Removal Rate
Drop off in efficiency of media and electrostatic filters is due to decrease in air flow as they load up with particles.



From the people who know

Nutech Energy Systems Inc, developers of the Lifebreath Air Cleaner, are leaders in the increasingly-important field of Indoor Air Quality Management. For fifteen years their Lifebreath systems have been used to clean and freshen air in homes and businesses. Over 75,000 Lifebreath Heat Recovery Ventilators are in use across North America, and a network of specialist installers offers economical solutions to problems caused by stale and polluted indoor air.

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