So, what can you do about it?

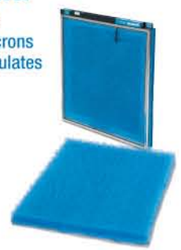
The solution is to address the cause, not the symptoms, with a whole house indoor air cleaning strategy. Your heating and cooling system moves over 1.5 million cubic feet of this polluted air everyday throughout your house. This is the perfect location to attack this indoor air quality challenge with products designed specifically to address the three types of indoor airborne contaminants. This is not a room by room application, but a whole house air cleaning system that cleans, disinfects and deodorizes your air 24 hours a day naturally and without using any dangerous chemicals or sprays.

Backed by over 25 years of experience and proven success in the engineering of both residential and commercial indoor air cleaning systems, Dynamic Air Quality Solutions has the experts that professional HVAC contractors rely on to address your indoor air quality needs. Dynamic Air Quality Solutions' products are designed to support the proper air flow and high intensity air cleaning that controls sub-micron particles, biologicals and gas phase contaminants.

And don't forget to have your indoor cooling coil checked annually and your time-release condensate drain pan treatment changed a minimum of once a year to keep standing water in the drain pan bacteria-free and odor-free. Routine documented maintenance on your HVAC system will protect your system warranty while keeping your system running at peak efficiency. Studies by utility companies and an independent university test show that an improperly maintained and dirty HVAC system can increase your utility payments by as much as 40%.

Advantages of Polarized Media Electronic Air Cleaners:

- Removes mold's food source
- 97% capture rate at .3 microns
- Removes respirable particulates
- Traps odors and VOCs



Helps Control:

Particles

The Dynamic Polarized-Media Electronic Air Cleaner

Dynamic Air Cleaners use electronic polarized-media technology for maximum air cleaning capability. Active electronic, polarized-media air cleaners use a safe, 24 volt current to establish a polarized electric field. Airborne particles pass through the field and adhere to the media. The air cleaner's efficiency increases as it loads, providing exceptionally high efficiency with air resistance much lower than passive filters.

Dynamic Air Cleaners capture the smallest sub-micron particles, in addition to airborne pathogens, and volatile organic compounds (VOCs). Dynamic Air Cleaners capture 97% of particles at .3 microns and continues trapping particles much smaller in size. And electronic polarized-media technology is non-ionizing which means it is safe to operate and easy to maintain.

Dynamic Air Cleaners install into existing filter tracks, without costly ductwork modifications, turning your home's central heating & cooling system into a whole-house air cleaning system. And maintenance is a breeze. Each Dynamic Air Cleaner uses a disposable replacement media pad which can be replaced in just minutes to keep your air cleaner running at peak efficiency.

Advantages of the Dynamic Series2™ UVC lamps include:

- 3.3 times more power than standard UVC lamps
- Inhibits growth of mold and algae
- UVC destroys bacteria and viruses
- Long service life with low maintenance requirements
- Designed for surface kill and airborne germ control

Helps Control:

Biological

The Germicidal UVC Lamp

The Dynamic Series2™ Germicidal UVC Lamp is a high-output germicidal lamp that harnesses the energy of the sun's UVC rays to disrupt the DNA of living viruses, bacteria and other living airborne organisms so they can no longer reproduce.

Germicidal UVC is effective against viruses, bacteria, molds and mold spores, pollen, and other pathogens. The Dynamic Series2™ Germicidal UVC Lamp mounts in the ductwork or plenum to provide maximum whole-house efficiency.

Advantages of the Dynamic Series2™ Oxidizing UVC System Includes:

- UVV oxidizes gases and controls odors
- UVC destroys bacteria and viruses
- Complete oxidation of organics to CO_2 and H_2O
- Long service life with low maintenance requirements
- Uses the same powerful UVC lamp as in the Germicidal unit

Helps Control:

Biological

Gases

The Dynamic Oxidizing UVC System

The Dynamic Series2™ Oxidizing UVC System is a dual wavelength UVC/UVV system that harnesses the energy of the sun's UVC and UVV rays to control germs and gases. It is capable of superior odor control with the patented and adjustable UVV lamp chamber. The powerful UVC lamp kills and sterilizes germs while the photo chemical reaction that takes place with the UVV lamp controls gases and odors in the home.

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Dynamic Air Quality Solutions

Improving the Air You Breathe™

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Total Home Solutions

For Cleaner, Fresher, Healthy Air

Dynamic

Is Your Home Making You Sick?

Our changing environment:

Thousands of years ago when humans began populating the earth we lived outdoors breathing fresh air that was constantly being cleansed by Mother Nature. Thunder storms, lightning, and ultraviolet energy from the sun continually cleansed the outdoor air. Although our outdoor air is more polluted today than it was thousands of years ago, Mother Nature is still at work keeping the outdoor air as clean as possible.

These natural cleaning agents outdoors are not naturally present indoors and we humans add a vast array of pollutants indoors from building materials, adhesives, cleaning chemicals, disinfectant sprays, deodorizers, insecticides, paints, stains and the list goes on.

To conserve energy, we have also tightened up our homes; locking in these pollutants and making the affects even worse.

The Environmental Protection Agency (EPA) states that our indoor air environment can be 2 – 5 times and as much as 100 times worse than the worst outside air.

You see, our body's immune systems are designed to handle outside air that has been cleansed by these natural processes but they can't keep up with the levels of indoor air pollution that we create. There are three types of airborne contaminants; *particles, biological, and gas phase.* And most of them are not even visible to the naked eye. The American Lung Association tells us that breathing particles that measure below three microns in size can be detrimental to our health and 98% of all particles we breathe are less than one micron in size. That's some small stuff that disposable filters cannot remove from the air.

Particles: Size Makes All the Difference*

Most HVAC filters designed to protect the equipment	Eye of a Needle = 500 to 2000 microns	Visible to the naked eye
	Human Hair Diameter = 40 to 300 microns	
	Pollen = 10 to 100 microns	
	Mold Spore = 10 to 30 microns	
Particles that cause adverse health effects	Tobacco Smoke = .3 to 1 micron	98% of all airborne particles and the most injurious to our health
	Viruses & Chemicals = .001 to .01 micron	
	Gas Molecules = .0003 to .01 micron	

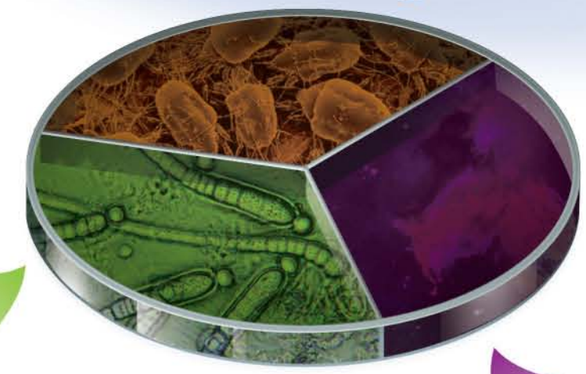
*National Institute of Environmental Health Sciences

We live and breathe with high levels of these three types of contamination which also include a large amount of dust mite feces. Over 2 million dust mites live in the average double bed and millions more in carpets and rugs. Dust mites feed on the millions of skin flakes that we shed daily and release hundreds of millions of fecal pellet allergens into the air we breathe each day.

As a result, asthma and allergies are on the rise along with other ailments caused by polluted indoor air; such as headaches, dizziness, depression, respiratory infections, throat and ear infections, colds and flu. There have been many studies done on indoor air environments due to the concerns over the effects of rising levels of pollutants. The National Center for Health Statistics (2001) reported an alarming increase of people suffering from severe allergies and asthma due to our poor indoor air quality. Harvard School of Public Health reported in a 2003 study that out of 120 homes tested for toxic gases and compounds 100% of them had levels that exceeded safe standards and that this is a nationwide problem.

Types of Airborne Contaminants & Solutions

The smallest submicron particles are inhaled in our lungs and become absorbed in our bodies and bloodstream causing asthma and allergy symptoms



Flu viruses, germs and other airborne pathogens are expelled into the air by a cough or sneeze causing colds and flu

In a "tight" home, airborne chemicals can create toxic compounds that are simply re-circulated in the living space causing headaches, dizziness and other ailments