

IMPORTANCE OF INDOOR AIR QUALITY

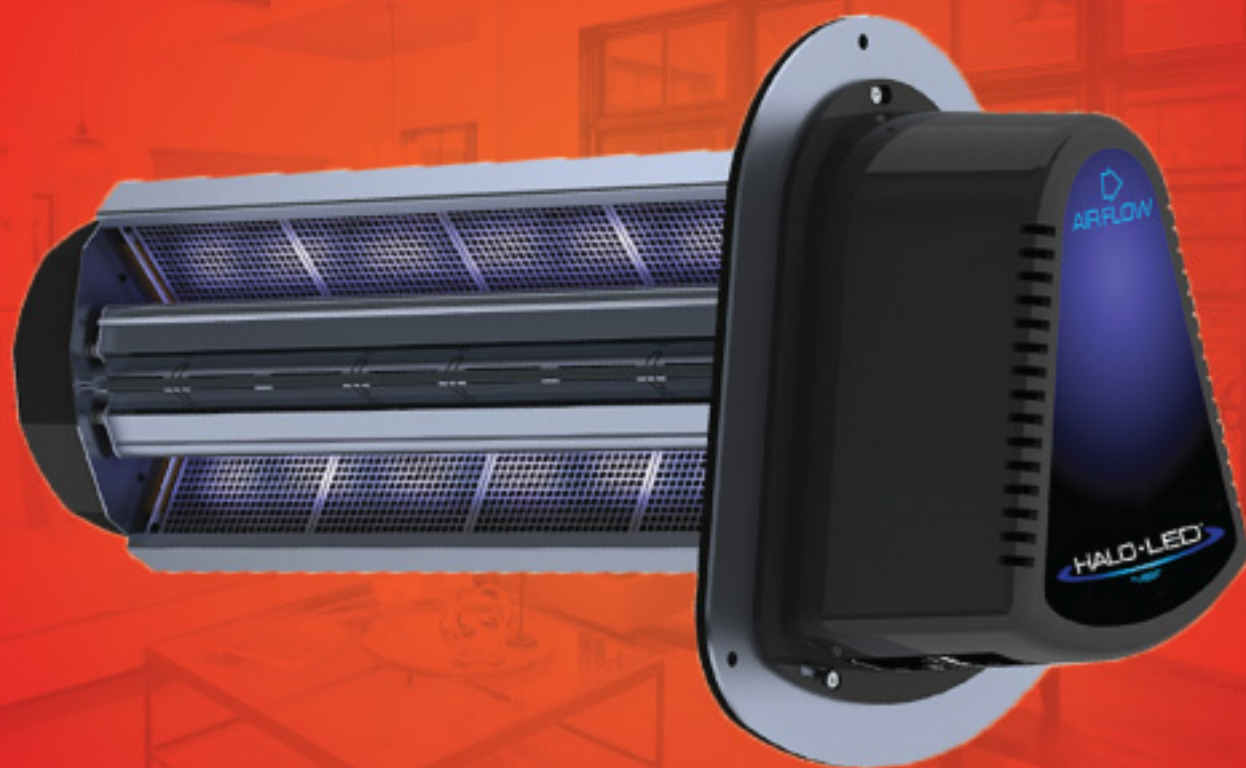


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INTRODUCTION

People are growing increasingly concerned about the chemicals and pollution being released into the atmosphere. Even groups and organizations have been established for the sole objective of reducing pollution. Some individuals may not recognize that interior air quality is just as important as outdoor air quality, despite the fact that this is vital.

This is one reason why many homeowners, for example, do not go to tremendous measures to ensure that this issue is resolved. Therefore, individuals end up developing illnesses without realizing that the unhealthy environment in their homes was the cause.

This issue may not appear significant. However, it can be extremely hazardous. The chemicals and substances we inhale affect not only our lungs but also several other sections of our bodies. Along with the heart, the lungs are one of the body's most vital organs.

The lungs are used for breathing. Therefore, it is in the best interest of all parties to ensure that this bodily component performs properly. The best method to accomplish this is to ensure that indoor air quality is adequate. Some individuals believe that bringing specific plants into their homes will solve this problem.

Although some plants produce more oxygen and other critical elements we need to breathe, this is not the best or only strategy to maintain adequate indoor air quality. Obtaining assistance from a specialist is the best option.

This is due to the fact that these professionals are trained to know the precise levels and components required to provide the highest quality air possible. Additionally, they are able to make modifications to fit the needs of customers. This is significant since various individuals have varying breathing requirements.

For instance, an old firm may require special types of components to ensure that they have adequate [indoor air quality](#). Because they may have more lung problems than the normal person, they require a higher level of care and individualization. Therefore, it is preferable that a specialist address the situation.

Despite the fact that outside air quality should be prioritized and maintained to the greatest extent feasible, indoor air quality should not be neglected.

Indoor Air Quality services are also available to immediately assist you in determining, treating and removing air pollutants in your home. Guysac.com provides in-depth air quality and bulk testing for businesses and residents concerned about indoor toxins and their negative health impact. Call (281) 306-9875 to begin purifying your air quality today. <https://guysac.com/>

CHAPTER 1: THE IMPORTANCE OF INDOOR AIR QUALITY

Indoor air quality in the home is far more critical to our health than previously thought, according to environmental study. According to the Congressional Quarterly, indoor air can be up to 1,000 times more contaminated than outdoor air. Up to 90% of our time is spent inside, which is extremely harmful to our health.

We're all concerned about this. Awareness of the potential dangers is the first step in the process. Preventative measures are simple and cost-effective, which is good news.

The Connection Between Fresh Air and Good Health

Typical examples of "air pollution" include smog, automobile emissions, industrial smoke, etc. Research from the last few years suggests this may be true. According to environmental scientists, the true dangers to human health are far closer to home than previously believed. In terms of impact, it's the interior air quality that matters more.

Many of these concerns have come along with technological advancements in our lives, which isn't surprising. Improved construction methods and a focus on energy efficiency have resulted in the development of airtight homes. The pollutants in the indoor air are kept and recirculated in these structures.

In addition, many everyday household items include chemicals that have been linked to a wide range of health problems, including everything from allergies and cancer to chronic respiratory irritation. Poor indoor air quality is often to blame for a wide range

of less serious but nonetheless bothersome health issues, such as headaches, chronic fatigue, drowsiness, difficulties concentrating, and even snoring.

These potentially harmful substances carried in indoor air fall into two groups: particles and gases.

THE PARTICLES IN OUR AIR

The minute, invisible particles in the air are the primary threat to health. They evade the body's filtering mechanisms and penetrate deep into lung tissue, carrying toxic substances absorbed in the body. The harmful particle, which includes dust mites, pet dander, mold spores and pollen, provoke allergic reactions in many people.

Some allergic reactions are severe - asthma is the best known and one of the most serious. Other allergic conditions are subtle chronic conditions. Runny nose, watery eyes, recurring headaches, lethargy, and even snoring can all be allergy symptoms. Many people endure these conditions, not knowing that they are allergy-related and that prevention is readily available.

GASES - INVISIBLE RISKS

Gases are as much a risk to our health as airborne particles.

Among the greatest health concerns are volatile organic compounds or VOCs. These gases, up to 500, are dispersed from cleaning solutions, carpets, building materials and many chemicals commonly used around the home.

Formaldehyde is the chief concern among the VOCs, as it is widely used. Its effects normally appear in itching the eyes, ears and throat but it is implicated more seriously as a carcinogen.

POSITIVE ACTION NOT FEAR

Every house or place of business abounds with potential air quality risk. It is important to deal with these risks in an intelligent way. The first step is to prevent the circulation of contaminants at their source. Your home environment is unique. The indoor air quality will depend on humidity, the age of your home, the type of heating, the choice of furnishing and insulation materials, the presence of pets or smokers and so forth.

Balanced management of your home environment is the constructive way to healthy living. Keep aware of the risk factors and avoid them where you can. Using fewer aerosol products, for example, is a positive contribution to the health of your home. Small sure steps are often more effective than a giant leap. Awareness and common sense are your best guides.

A wide range of home air purifiers on the market can improve your air quality, ranging from simple filters purchased at your local department store to large sophisticated whole-house units attached to your HVAC system.

For most applications, a high-performance portable air cleaner will be the most economical choice for removing everyday smells, allergens and basic chemicals. As with most products, the general rule is that you get what you pay.

CHAPTER 2: COMMON FACTORS THAT IMPACT INDOOR AIR QUALITY

You may have heard the statement that indoor air can be around 5 times more polluted than outdoor air. Since so much emphasis is being paid to preventing and controlling outdoor air pollution, indoor air quality issues are seriously neglected. In this chapter, we'll look at common factors affecting air quality inside your homes and commercial spaces that many may not be aware of.

Humidity Levels

Temperature and [indoor air quality](#) go hand in hand. Humidity levels are found to play an important role in the quality of indoor air. High humidity can lead to the growth of mold, which is harmful to your health.

Moreover, it's worth noting that indoor temperature is harder to control due to external factors like heat gains from sunlight, outdoor air ventilation rate and outdoor conditions beyond your control.

Contaminants

Pollutants from inside a building and from the outside contribute to poor indoor air quality. Contaminants that are commonly found include:

Carbon Dioxide and Carbon Monoxide

Indoor air quality can be negatively impacted by the presence of volatile organic compounds (VOCs). Gases containing organic compounds are emitted from a wide range of products and manufacturing processes. Disinfectants, dehumidifiers, and cleaning agents are among the most common sources of VOCs.

During water consumption, contaminants from polluted groundwater are brought into indoor areas by VOCs.

Matter in Particulate Form

Inside and outside, particulate matter can be found in large and small amounts. Pollen, smoke, dust, and soot are all examples of particulates found in this type of pollution, which can be emitted when people smoke or use fireplaces, among other things. Inhalation of these particles might cause damage to the heart and lungs.

As a result of building or burning fossil fuels, outside particulate matter is produced and can easily infiltrate houses through ventilation.

Combustible gas

Carbon monoxide is imperceptible to the human senses of smell and sight. Low or moderate levels of carbon monoxide in your home can produce a range of symptoms, including headaches, weariness and chest pain. It is exceedingly lethal at high quantities. Car exhaust and badly maintained [furnaces](#) and boilers are further sources of carbon monoxide.

Ventilation is lacking.

Ventilation is unquestionably a critical component of good indoor air quality. It combines the processes of supplying and removing air from indoor environments. These procedures bring in outside air, clean it, and then disperse it throughout the structure. One or more of these processes may have an impact on indoor air quality even if they aren't working properly.

To ensure a healthy indoor atmosphere, you should investigate bipolar ionization air purification options, even if your [HVAC systems](#) are regularly maintained. Improved indoor air quality is achieved by targeting and removing pollutants and airborne viruses.

CHAPTER 3: HOW POOR INDOOR AIR QUALITY CAN AFFECT YOU AND YOUR FAMILY

Asbestos-containing building materials and wet carpets are just some of the sources of indoor air pollution. Pesticides and outdoor air pollution also contribute to the problem.

Aside from malfunctioning chimneys and fireplaces, other sources of indoor air pollution include malfunctioning space heaters, malfunctioning carbon monoxide detectors, and malfunctioning furnaces. Pollutants can make it difficult for someone to concentrate and make them feel uneasy. Memory and concentration-related tasks can also be affected by this.

Getting rid of indoor pollutants can have a significant impact on people's well-being. If you're interested in learning more about the health effects of poor indoor air quality, keep reading.

If the source of the pollution isn't addressed, high levels of indoor air pollution can linger for a long time. Indoor pollution can cause health and comfort issues if it accumulates in your home.

If you've been exposed to polluted indoor air, you may notice symptoms right away. Anxiety can cause a runny nose, a sore throat, and dry eyes. It is possible to suffer from headaches, dizziness, and exhaustion.

It is common for these effects to be treatable and short-lived. In some cases, the only treatment for this problem is to remove yourself from the source of the pollution.

Certain pollutants can cause a variety of other health problems, including asthma, humidifier fever, sinus problems, skin irritations, nausea, breathing difficulties and pneumonia.

After years of being exposed to certain pollutants, other side effects may begin to appear. This can lead to heart problems, pulmonary disorders, and cancer. Because of this, enhancing indoor air quality should be a top priority for everyone.

The effects of pollutants are similar to those from viral illnesses and colds and the effects can get worse if there is not an adequate supply of outdoor air from cooling and [heating systems](#). Whether an individual reacts to pollutants in the air depends on their age, if they have certain medical conditions and their sensitivity to pollutants.

Since many people spend a significant amount of time in their homes, the health risks due to indoor air pollution are a huge public health concern. Opening the windows doesn't always fix the problem. That's when an [indoor quality service company](#) can help. An indoor quality service company can inspect your home and improve the air quality in your home.

They can check your heating and cooling system, air ducts and air conditioners to make sure they are not causing a problem for you. To keep the indoor air from pollutants, your heating and cooling system needs to be serviced regularly.

Your manufacturer's instructions will guide you in maintaining and caring for your system. Air cleaners are also helpful, especially for individuals who suffer from allergies.

The issue of [indoor air quality](#) has never been more important. Dangerous air pollutants can get trapped in our homes- mold, bacteria, dust mites, cigarette smoke, pollens and other allergens and many pollutants cannot be seen with the naked eye. Synthetic building materials, paints and finishes can also release toxic compounds.

An indoor air quality service company can improve the air quality in your home by servicing your heating or cooling system, inspecting your air ducts and recommending products that purify the air.

Contacting an indoor quality air company and taking steps to purify the air in your home can make a huge difference and prevent many health problems, illnesses and symptoms.

Guysac.com provides in-depth air quality and bulk testing for businesses and residents concerned about indoor toxins and their negative health impact. Call (281) 306-9875 to begin purifying your air quality today. <https://guysac.com/>

CHAPTER 4: COMMON INDOOR AIR QUALITY PROBLEMS

Some different environmental factors can result in common [indoor air quality](#) problems. These air pollutants and contaminants can be found in various locations and can cause various health effects that could be very dangerous. Here are four of the most common causes of indoor air quality problems and information on how these issues can be remedied.

1. Environmental Tobacco Smoke

Environmental tobacco smoke is one of the most harmful air pollutants found in indoor air, containing more than 40 compounds that are known to cause cancer in humans or animals according to the Environmental Protection Agency*. Health risks associated with environmental tobacco smoke include lung cancer, pneumonia, bronchitis, frequent ear infections and asthma.

The best ways to reduce contamination from environmental tobacco smoke is to ensure that the area where the smoking is taking place is well ventilated or to eliminate all smoking in any indoor areas.

2. Biological Pollutants

Many different biological pollutants may contaminate your indoor air, including animal dander, dust mites, mold, bacteria, pollen and viruses. Health risks associated with

breathing in these contaminants include allergic reactions, asthma attacks, infectious illnesses, difficulty breathing and digestive problems.

The best way to reduce the number of biological pollutants in indoor air is to invest in a [high-quality air filter](#) with a high MERV rating for the building's heating and cooling system that can trap many of the biological pollutants and remove them from the indoor air.

3. Pollutants from Indoor Combustion Sources

Indoor combustion sources, such as wood stoves, fireplaces and gas space heaters release harmful pollutants like carbon monoxide, nitrogen dioxide and acid aerosols into the indoor air. Exposure to these harmful contaminants can result in disorientation, excessive fatigue, lung disease, certain cancers and an increased risk of respiratory infections.

It is important to use these items in well-ventilated areas to prevent the accumulation of these harmful contaminants. Installing a high-quality air filter containing activated carbon in the building's heating and cooling system will remove many gaseous pollutants from the indoor air.

4. Chemicals and Pesticides

Household chemicals and pesticides are widely used across the nation to make our homes more pleasant to live in but the pollutants released from these items can be very harmful to the health of everyone exposed to them.

Common health issues associated with exposure to chemicals and pesticides include irritation of the eyes, nose or respiratory tract, muscle twitching, visual disorders, memory impairment, damage to the central nervous system and certain cancers.

Exposure to chemicals and pesticides should be kept to a minimum and these items should only be used in the amounts recommended by the labeling while the area being treated is well ventilated.

CHAPTER 5: AIR CONDITIONER AND INDOOR AIR QUALITY

Indoor air pollution can have a negative impact on your health. Varied air contaminants have different effects on different people. Though a big deal to one individual, it may have minimal effect on another.

Itchy skin and eyes, fatigue, nausea, dizziness and a runny or stuffy nose are some of the symptoms of exposure to indoor allergens. A mold allergy should not be underestimated. If mold spores are inhaled over a lengthy period of time, they can cause serious illness or even cause death.

Pollution exposure, even if there are no symptoms, has a negative impact on an individual's health. If there is something that can be done to alleviate these signs and symptoms, why put up with them?

Recycled air is used in most of the places we call home. [Air conditioning](#) units cool the air in our homes, then recirculate it through the house's air conditioning vents. An air conditioning device can assist keep this air clean and fresh. AC filters are extremely good at eliminating many of the contaminants listed above.

Each time the air is cooled and pushed back into your home through the AC filter, it traps those allergens in the AC filter. It is important to regularly change your AC filter to ensure your air conditioner's efficiency and indoor air quality.

Ensure you routinely have your AC cleaned and serviced and your air ducts thoroughly cleaned. This ensures that the filter cleans the air before entering your home.

Proper ventilation is important to any enclosed space. With proper ventilation, indoor air quality is greatly improved and humidity is kept low. High indoor humidity can be the perfect breeding ground for mold.

As mentioned earlier, mold is a serious problem. Keep humidity at bay by utilizing exhaust fans during and after you shower or when cooking on a stovetop. Some AC units even have built-in dehumidifiers to take any excess moisture out of the air.

During the hot summer months ventilate your home by turning off the air conditioner unit and opening windows early in the morning or late at night when it is cool. This will give your home fresh air while maintaining a cool interior. Be sure to turn your air conditioning unit on before it gets too hot outside so the HVAC system is not struggling to keep your home cool.

Some other simple tips to help [improve your indoor air quality](#) are to prohibit smoking, avoid using aerosol sprays and regularly bathing pets to reduce dander. All these tips are referred to as source control. Source control limits the number of pollutants being released into the air by directly affecting the source (i.e., pets, aerosol sprays, smoke, etc.).

These simple tips will not only keep you healthier but will create a home with an efficient and clean air conditioning system. This means less air conditioning repair bills, which saves money and cleaner air in your home.

Remember, regular [AC maintenance](#) is your best bet for catching issues with your HVAC system before minor repairs turn into costly air conditioning repairs.

Guys.ac are available 24/hrs a day to provide you with AC Repair, Heating and AC Replacements in San Antonio and opinions and service on any AC Upgrades. Whether

you need air conditioning service, maintenance or a replacement unit, we have what you need and a selection of components and complete HVAC systems that will leave your home with the coldest air.

CHAPTER 6: ELECTROSTATIC FILTERS AND INDOOR AIR QUALITY

Keeping the air quality in the homes is very important, particularly for family members with cases of allergies or asthma. Unfortunately, not many of us know that the air inside our homes is more polluted than that outside.

Following are highly recommended actions for you to follow to reduce, if not prevent further triggers of asthma attacks, allergies and other respiratory health conditions in your homes.

It is very important to keep your house clean and dust free constantly. Installing window screens and screens on your doors can help control some biological allergens (e.g., pollen, dust mites, mold, mildew and pet dander) from entering your homes. So you can let your windows and doors fully open instead of using a standard window fan.

This type of fan only allows movements of air pollutants into your home. You can increase and keep good ventilation by using an exhaust fan, especially when showering, cooking and using the dishwasher. In this way, you remove or avoid moisture and indoor pollutants from going around your homes.

Moreover, avoid using scented cleaning sprays or perfumes as these only trigger allergy or asthma attacks. Avoid scents or smoke even if you want to spare yourself or your family from unending sneezing or other respiratory symptoms.

Apart from installing screens for windows and doors, you can further improve the air quality inside your homes by using air filters in your air conditioning system or heater.

How electrostatic filters and indoor air quality are related is an obvious way. Electrostatic filters and indoor air quality show a direct relationship in the sense that using electrostatic filters increases the probability of achieving and maintaining a favorable quality of air indoors.

Electro filters and indoor air quality relationship has been a long concern for many of us. It has been why electrostatic air filters have become a requirement among many consumers nowadays.

Increasing cases of asthma attacks, allergies and other respiratory problems led to electrostatic filters and indoor air quality becoming a pressing matter. This resulted in continuous research and development to improve the air quality we breathe.

Moreover, regularly monitored electrostatic filters and [indoor air quality](#) ensures we supply our body with fresh and clean air going through our lungs and bloodstreams.

Electrostatic [air filters](#) use static charges to attract and capture tiny air particles. These filters are found efficient, time- and money-saving and help protect and maintain your respiratory condition and overall well-being.

CHAPTER 7: AIR PURIFIERS AND IMPROVING INDOOR AIR QUALITY

Air purifiers are a powerful weapon in the fight to improve the indoor air quality of your home or business. Some factors contribute to poor [indoor air quality](#). Some are natural and some are man-made.

Allergies can be aggravated by dust and other airborne irritants, such as pollen and mold. Other man-made pollutants, such as ash and soot, are also a factor.

Heating and cooling systems in most modern houses and businesses use ducts and vents to circulate heated or cooled air throughout the facility.

These systems often [feature a filter](#), but they only capture the larger particles and do nothing to combat the dust, pollen, mold, and other pollutants that are present in the indoor spaces. These irritants are mixed into the air you inhale when the air circulates.

Air purifiers are the most effective way to improve the quality of air in the home. Some or all of the principal indoor spaces can be treated using stand-alone air purification machines, or they can be integrated into a [heating and cooling system](#).

There are three basic methods for increasing indoor air quality and treating the air in your home. They're as follows:

HEPA Filtration • Ultraviolet Light Exposure • Ionization

Many systems employ ultraviolet light exposure to eliminate germs and bacteria in the air. For a long enough amount of time, the air is exposed to UV light, which kills most living creatures. A secondary filtration system is almost often utilized in conjunction with ultraviolet light.

Ionic air filtration systems pass the air over an ionization unit, giving the particles an electrical charge. This, in turn, causes the charged particle to stick to a collection plate in the filtration unit.

Charged particles not captured in the collection plates are likelier to stick to the surfaces in a room than float in the air. Regular dusting can then remove them from the environment. One byproduct of the ionization process is ozone. In sufficient quantities, ozone is a lung irritant. So, the ozone output of the unit mustn't overpower the room.

HEPA filters are a layered fabric filtering system capable of capturing very small particles. In a HEPA air filter system the air is forced through the filter using fans and the dust, pollen, mold and other pollutants are captured in the filter. The filters can be expensive and the fans can be noisy but this is one of the most effective methods for improving indoor air quality.

The best solutions often combine two or all three of these air purification technologies. So, get an air purifier for your home or business and breathe easier.

CHAPTER 8: DO FURNACE FILTERS IMPROVE INDOOR AIR QUALITY?

[Furnace](#) filters are mistakenly thought to be expensive when they are not. The truth is, they can be purchased at low costs and sold in bulk packs, saving you more money. You are advised to replace furnace filters at least once a month.

Replacing the filters helps your furnace to function or run efficiently since you avoid the accumulation of dirt and other tiny air particles which lead your furnace to get clogged. Clogging consequently interrupts the free flow of air making the furnace work difficult. Also, the filter becomes so dense it loses its ability to capture troublesome air particles.

Further benefits from replacing furnace filters include saving money, saving time and protecting your health, respiratory and immune systems. Regular replacing of filters ensures efficient function and durability of your furnace; thus, you avoid the hassles of getting a technician to repair it. Repair may take longer and even cost you more than you have thought.

Most importantly, consistent management of the [furnace filters](#) reduces the incidence of asthma, allergies or other respiratory problems.

Having a direct or positive relationship

There is a plain direct or positive relationship that exists between furnace filters and indoor air quality. Positive action toward furnace filters, such as replacing them regularly, eventually results in various health benefits.

Furnace filters and indoor air quality concerns have also become an important issue nowadays. Keeping homes clean and dust-free has become important, especially when you or your family members suffer from respiratory or immunity problems. You will do everything you can to prevent any cases or symptoms from occurring and reoccurring.

Information dissemination about furnace filters and indoor air quality matters is continuously being carried out. This is with the hope everyone becomes aware and educated concerning furnace filters and [indoor air quality issues](#).

You learn not to take things lightly or take things for granted. You gain a better understanding and learn new attitudes toward improving furnace filters (e.g., replacing them regularly) and indoor air quality (fresh and clean air is achieved).

Furnace filters are effective for the efficient operation of your furnace. These filters help you save time and money that can be involved in repairing the furnace. Your respiratory and immune systems are strengthened by filling your environment with fresh, clean air.

Before making any purchase, you must first know the accurate dimensions of the filter you are currently using. You have to know the length, width and thickness. You can consult online suppliers for specific custom-made sizes for filters with odd dimensions. The newly purchased filter should effortlessly slide into the furnace filter track.

CHAPTER 9: DON'T FORGET THE AIR DUCTS WHEN IMPROVING INDOOR AIR QUALITY

Smog alarms are issued in several cities around the United States when ozone or particle pollution levels approach dangerously high levels of pollution. Asthmatics and other people with respiratory issues might take advantage of these warnings to plan ahead and reduce their time spent exercising in the fresh air.

Unfortunately, there's no corresponding alert system inside the home. There, you're on your own-so. It's smart to remember that old line about an ounce of prevention. You can improve indoor air quality by eliminating smoking inside the home, dusting and vacuuming regularly, drying up areas where mold can form, keeping chimneys clean and performing countless other easy, common-sense procedures.

But one area that's easy to forget is your ductwork.

Think about it: The ducts from your heating and air conditioning unit go to every room in the house. The air you breathe all day long has traveled through those ducts. Yet if you could see what they looked like inside, it wouldn't take long to realize that what's inside the ducts is finding its way into your family's lungs: dust, mold, allergens and more.

The good news is that you don't have to add air duct cleaning to your weekly chores. The Environmental Protection Agency recommends having it done on an as-needed basis (particularly if anyone in the home suffers from allergies or unexplained illnesses) if any of the following conditions are true:

- There is substantial mold growth inside the ducts or heating and cooling system components.
- The ducts are infested with insects, rodents or other vermin.
- The ducts are clogged with excessive amounts of dust and debris.

Once you've decided to have your air ducts cleaned, where do you turn? Some companies have made air duct cleaning their primary service, while some [HVAC professionals](#) offer it as an extension of a typical service call. The choice is yours if the service provider is properly trained and uses the appropriate equipment.

You will, of course, want to know something about the duct cleaning method your service provider uses. There are essentially two major methods in common use today:

The brush-and-vacuum method

This method employs a round, soft-bristled brush that rotates at the end of a high-powered vacuum hose as it is pushed through the duct system. Service providers who use this method should be using HEPA filters to prevent dust and debris from being released into the home. According to research by ABA Consulting, homeowners prefer this method nearly 3 to 1 over the other options.

The negative air method

This method involves cutting a hole in the duct, blocking off various sections, and attaching an extremely powerful vacuum (generally up to 3000 cfm) to suck out dust

and debris. This method is often used in industrial situations where the ducts are too large for brushes.

Today's homeowners understand that the ball is in their court regarding [indoor air quality](#). Air duct cleaning might not be necessary for every home but homeowners who need it will find it a quick and easy way to breathe a little easier.

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CHAPTER 10: MOISTURE CONTROL & MEASUREMENT FOR BETTER INDOOR AIR QUALITY

The control of moisture inside a building or one home is highly important. Moisture inside a structure can cause serious issues that initially may not be detected. Moisture can cause floors to buckle or crack and cause mold & mildew, odors and unhealthy respiratory conditions. Dust Mites love the warmth and high humidity levels and are one of the top allergens.

[IAQ \(indoor air quality\)](#) is highly related to the moisture level in one's workplace or home and high moisture readings are also the leading cause of dwelling deterioration. There are many steps one can take to control moisture and ways to measure moisture. This chapter will briefly describe ways to prevent moisture and measure moisture.

Preventing moisture is simply not always an easy process. A small amount of moisture is healthy as not enough moisture can cause dryness in the skin and cause poor respiratory conditions.

Signs of excessive moisture in a dwelling include sweating pipes, damp spots on ceilings, moisture on basement walls, ice forming on windows, mold & mildew growth on walls and many other things. Moisture is created by:

Breathing, cooking, bathing, sweeping the floor, etc. are all normal household activities. Every day, a typical American family generates an additional 2-4 gallons of water vapor. Your home or building's temperature is set too low • Poor ventilation • Poor drainage around your foundation • Clogged gutters •

Moisture can be prevented using the following methods:

One's home or building's humidity levels can be greatly reduced by installing exhaust fans. When cooking or showering, make sure you utilize an exhaust fan.

Reduce the amount of moisture in the air by cleaning the lint trap on your clothes dryer. Gutters need to be cleaned frequently to prevent water from sitting and producing extra moisture.

Close as many indoor-to-outdoor air leaks as possible. Make sure to caulk around windows, doors, and vents.

You should avoid over-humidifying your room if you use a humidifier in the winter because it will cause condensation to form.

A home's crawl space should be thoroughly ventilated and moisture-checked on a regular basis to avoid this problem. Inspect frequently and properly insulate.

- Fix broken pipes as soon as possible
- HVAC unit annual inspections and maintenance
- Indoor temperature balance in relation to the outside.

It's possible to have problems with moisture in your home if you have a lot of fluctuations in temperature between the inside and outdoors.

Moisture levels in a home can be measured in a variety of ways. A temperature of 66 to 72 degrees and a humidity level of 25 to 50 percent is ideal for most people. Moisture can build up in a home as temperatures drop or humidity rises. Humidity levels above 60% might have a negative impact on one's health over time.

Humidity can be measured with a variety of equipment ranging in price from \$25 to hundreds of dollars. The Hygro-Thermometer Pen, which costs around \$100 and measures temperature and humidity concurrently, is a good example of a quality tool at an affordable price.

In summary, addressing any moisture issue inside a dwelling is important. Proper steps should be taken to control and detect moisture. Proper moisture control will significantly control any possibility of mold forming inside a dwelling, eventually destroying whatever it may grow on.

Likewise by controlling the humidity level you'll also control moisture levels inside a dwelling and live much more comfortably. For further assistance please contact our service team to answer any questions or make any recommendations on chemicals, products or other steps you can take to achieve [better indoor air quality](#) with less moisture.

CHAPTER 11: IMPROVING INDOOR AIR QUALITY DURING WINTER

[Indoor air quality](#) is often much worse than outdoor air. The Environmental Protection Agency (EPA) estimates that indoor air pollutant levels could be two to five times higher than pollution levels outdoors.

Considering that most Americans spend an estimated 90 percent of their time inside, indoor air quality greatly impacts our everyday lives. In addition, indoor air pollutants are one of the foremost triggers of allergies and asthma.

Why Winter Makes Indoor Air Quality Worse

Homes are built to be energy- (and therefore cost-) efficient by holding heat in during the winter and keeping heat out during the summer.

As a result of the chilly weather, homeowners are more concerned about preventing cold drafts from getting into their homes. This, in turn, blocks fresh air from entering the residence and increases the concentrations of allergens and pollutants.

Domiciliary Pollution Sources

There are many distinct sources of pollution in the average home. First, you must know where the pollutants come from in order to ensure that your family breathes clean air. Indoor air pollution can be caused by a variety of factors, including the following:

Wood and coal are both common sources of fuel in addition to kerosene and other petroleum-based products. It is possible to pollute indoor air with the use of these fuels

in any household appliance. Wood-burning stoves, fireplaces, water heaters, dryers, and stoves are examples of these appliances.

These appliances must be properly maintained and calibrated to avoid releasing harmful quantities of pollutants into the home. Combustion sources include [heating systems](#).

Insulation, carpeting, cabinetry, and furniture made of pressed wood are all examples of building materials and furnishings. VOCs, mildew, and dust mites are just a few of the contaminants that may be present in your house.

Products like household cleaners, personal care items, and air fresheners, to name a few, continuously discharge pollutants into the air.

Hobby or home improvement hobbies include painting, sanding, welding, and employing adhesives, among other tasks. In the winter, when your home is locked tight against the bitter cold and the beneficial movement of fresh air, anything that emits smells is probably not something you want to breathe or have in your home.

These include pollen, lead, and radon. The breakdown of uranium in the soil produces radon, which can seep into a dwelling. The indoor environment can become a repository for pesticides, pollen, lead, and other outdoor contaminants, which can be tracked in by people or pets.

Those with allergies or asthma are particularly vulnerable to the effects of pet dander and other particles from animals with fur or feathers. As people remain indoors more, so do pets that venture outside in less-than-ideal weather conditions.

Typical Pollutants Found in the Average American Home

Knowing what pollutants are in your home and how to deal with them is the next step in protecting your family from exposure to household pollution. Indoor air quality is impacted by a variety of allergies and contaminants.

When windows are closed against cold air, steam from the bathroom and kitchen, as well as other types of moisture, can accumulate in the home, increasing the risk of mold and mildew growth. To multiply, mold and mildew release spores into the air, where they can be inhaled.

- Pet dander is one of the most irritating and difficult-to-remove allergens because it is so light and tiny. As temperatures drop and people and their dogs spend more time indoors, the concentrations rise.

People spend more time inside during the winter, which increases the concentration of food for dust mites, which is human skin cells that have been shed. Everywhere there is dust, there are dust mites, including draperies, carpets, upholstery, and bedding.

- Pollen - though less of a problem in the winter, there are winter-blooming plants whose pollen can be tracked indoors. In addition, fluctuations in weather may cause plants to blossom earlier than normal.
- Biological pollutants - in addition to molds, pollen, dust mites and animal dander, other germs, viruses and bacteria are present in the home.
- Environmental tobacco smoke (ETS) or secondhand smoke is a major indoor air pollutant.
- Formaldehyde is one of the main volatile organic compounds (VOCs) and is often found in adhesives or other bonding agents in carpets, upholstery, particle board and plywood paneling.
- Various VOCs -in addition to formaldehyde, many other volatile organic compounds (VOCs) are present in cleaning products, air fresheners, beauty products, laundry products and more. Off-gassing VOCs from household items

(like dry-cleaned drapes or other clothing or particle board furniture or cabinets) is also a source of VOCs.

- Asbestos comes from microscopic mineral fibers that are flexible, durable, and won't burn. They are extremely light and consequently can remain airborne and therefore easily inhaled.

Many home components contain asbestos, including roofing and flooring materials, insulation and heating equipment. These are only problems if the asbestos is disturbed and becomes airborne or disintegrates with age.

- Carbon monoxide and nitrogen dioxide are the worst air pollution from the above combustion sources. Carbon monoxide is odorless and colorless and interferes with oxygen distribution in the body.

Symptoms of carbon monoxide poisoning include poor coordination, headache, confusion, nausea, dizziness and fatigue; the gas can also worsen cardiovascular conditions. High levels can cause death.

- Nitrogen dioxide is colorless and odorless and irritates the mucous membranes, including those in the eyes, nose and throat. Additional effects include shortness of breath, damaged respiratory tissue and chronic bronchitis.
- Lead - lead can be present in the home as paint or dust. Older homes routinely used lead paint and cracked or chipping paint leads to paint chips and paint dust, both dangerous pollutants, especially if young children are in the home.

CHAPTER 12: GUARDING AGAINST THE EFFECTS OF POOR INDOOR AIR QUALITY

Immediate effects of poor [indoor air quality](#) can show up after just a single exposure, including headaches, dizziness, fatigue and itchy eyes, nose and throat. Asthma and chemical sensitivities can also be aggravated by exposure to indoor pollution. Chronic sensitivity may also build up after repeated exposures.

Although it remains uncertain what levels or periods of exposure are necessary to bring on serious health effects from indoor air pollution, long-term effects of indoor air pollution include respiratory disease, heart disease and cancer.

Improving Indoor Air Quality

The EPA recommends three basic [strategies to improve indoor air quality](#): source control, ventilation improvements and air cleaners or purifiers.

Improving indoor air quality through source control involves removing the sources of pollution. For instance, gas emissions, like those from a poorly maintained stove, can be adjusted to lower their emissions; asbestos can be sealed or enclosed.

Often, source control is more cost-conscious to remedy poor air quality than ventilation because increased ventilation can significantly increase energy costs.

However, increased ventilation is an easy and effective way to control poor indoor air by bringing fresh indoor air into circulation. Especially because most heating systems do not bring fresh air into the home, opening windows and doors when weather permits greatly benefits.

You can easily check to see if your home might have ventilation problems. Condensations on walls or windows, stuffy air, moldy areas or dirty heating or cooling equipment are all indicators. Odors (which are most notable upon entering the home from outdoors) are also an indication of poor ventilation.

When performing many home improvements or hobbies, it's especially important to know the need for proper ventilation. Without ventilation, pollutants such as those emitted during painting, welding, sanding or even cooking can add toxic elements into your home environment.

The EPA's final recommendation in their three-pronged approach to improving indoor air quality involves using an air purifier. When investing in an air purifier, it's important to understand all the factors involved.

Most air purifiers, for example, only remove particle matter, leaving gases and other compounds behind. To remove gases and pollutants, activated carbon [filters](#) are required. When purchasing an air purifier, be sure it has enough power to do the job. Pollutant levels, sensitivity, and the size of the room all play a role in this.

Indoor air quality is especially important during the winter months, so here are a few tips to keep it that way:

In order to keep the air in your home free of airborne pollutants like mold, pollens, pet dander, and dust mites you should clean your home on a regular basis.

During the cold winter months, your furnace filter is working overtime to keep your home's air clean, so it should be replaced on a regular basis. Check your filters regularly and replace them if necessary to make sure airflow isn't impeded or, worse, contaminants aren't being reissued into the air you breathe.

Testing for radon in your home is recommended by the Surgeon General because it is known to cause lung cancer in people who are exposed to it. The EPA's website provides additional information on radon testing.

If you live in an area where carbon monoxide is a problem, you may want to consider purchasing a carbon monoxide detector.

Non-toxic cleaning products are the best way to get the job done. The chemical fumes remain in the house and on surfaces cleaned with them, especially in the winter when ventilation is typically less.

Be sure to keep your sheets and pillowcases clean. Once a week, use a de-mite laundry additive or hot water to wash your bedding. Dust mite encasings should be applied to mattresses and pillows.

When working on a project around the house or as a hobby, look for low- or no-VOC products. Wait till spring if you can, so you can open the windows and get some fresh air.

Fabrics washed with dry cleaning methods produce toxins like formaldehyde. Before taking dry-cleaned clothes inside your home or storing them in your closet, think about other dry-cleaning options or let them air out in the garage or patio.

Mold-prone regions of the house should be ventilated and cleaned. Regular airing and mold cleaning in bathrooms, kitchens, and basements, which tend to accumulate excess moisture and may not receive proper ventilation, is a must.

When you have the opportunity, let fresh air in through the windows and doors. Use a window filter if you're concerned about outside toxins entering your home.

Particulate pollutants in the air are effectively removed by air purifiers with HEPA filters. Carbon filters are essential in order to remove gases, smells, and toxins from the air.

There are many plants that are renowned as nature's air purifiers for their ability to remove pollutants from the air. If you're going to be watering your plants frequently, you should be aware that mold can grow around them.

The first step in keeping your home's air clean is figuring out where the sources of indoor pollutants are, what they are, and how to deal with them. This time of year calls for extra attention to maintaining good indoor air quality due to the shorter days and decreased airflow, but it's critical year-round to keep your house as free of indoor contaminants as possible.

CHAPTER 13: THE IMPORTANCE OF AIR PURIFIERS IN IMPROVING INDOOR AIR QUALITY

[Indoor air quality](#) is especially important for those who suffer from respiratory issues like asthma and allergies. As a result, their home isn't the safe refuge they require. For the rest of us, the same holds true, but the detrimental effects take longer to manifest.

Even if you live in a clean house, you'll still be surrounded by toxins. Eighty percent of the pollutants is "simply" dead skin. The following are examples of what the remaining 80% could be:

- For as long as secondhand smoke lingers in our air, it is just as harmful as if we were smoking the cigarette ourselves.
- In many homes, radon, a radioactive dust, is present because of the materials and methods utilized to lay the foundation.
- Lead, formaldehyde, and asbestos are also commonly used in building and remodeling.
- Bathrooms, garages, and [HVAC systems](#) may all become breeding grounds for bacteria that can then spread throughout a property.
- The average 1,500-square-foot home is estimated to contain 40 pounds of dust, and one ounce of dust contains approximately 40,000 dust mites.
- Perfumed air fresheners, which consumers buy to "clean" their air, introduce toxins that accumulate and poison it.
- How can we tell if there is a problem with the quality of the air we are breathing?

As a result, unless someone in the household has allergies or asthma, the indicators of impurity can be difficult to recognize. The most evident indicator is a feeling of "stale" or "stuffy" air.

There are sometimes odors that don't seem to come from anywhere in the house, which can be a symptom. Odors that don't have a clear source are almost often caused by microorganisms in the air.

Is there a way that we can improve the quality of the air we breathe?

The cleanliness of the workplace should always come first. Air pollution cannot be cured by cleaning, but a lack of cleanliness exacerbates the problem. The most critical step is to dust and vacuum on a regular basis.

While lowering pollution particles, the difficulty is that it also stirs them up. It's here that a HEPA air purifier comes into action and prevents a vicious cycle from forming.

Our most advanced air purifying technology is the HEPA air purifier. As small as 0.3 microns, it removes 99.97 percent of particles, making it a popular choice for hospitals and militaries around the world. The best way to keep your home's air pure is to use a HEPA air purifier alongside regular cleaning.

CHAPTER 14: HOW TO PREVENT INDOOR AIR QUALITY PROBLEMS:

Preventing [indoor air quality](#) problems is the best way to protect the health of everyone who uses the space in question - whether the area is a home or an office. All types of buildings can have air that is contaminated by air pollutants and harmful particles that can cause some respiratory illnesses and other health problems. It's important to keep the air as clean and pure as possible in any structure.

Tips to Prevent Problems with Indoor Air Quality

Knowing - and following - a few simple methods to prevent indoor air quality problems can reduce the risks of poor air quality harming the health of the individuals who live and work in a particular building.

1. Keep Air Vents and Grilles Clear

It is important to keep all air vents and grilles clear and free from obstructions. That is because the air vents and grilles are needed to circulate the air throughout the building and the [heating and cooling system](#).

By blocking them, indoor air can stagnate and become polluted owing to inadequate ventilation. Mechanical systems can be stressed by blocked grills, resulting in costly repairs and increased energy costs.

Tobacco use in indoor areas should be avoided.

Tobacco smoke in the environment is one of the most damaging toxins in the air that is faced inside. Smoking tobacco products can lead to a wide range of illnesses and health concerns in both the smoker and anyone else who breathes in the smoke.

The best strategy to eradicate tobacco smoke from the indoor air is to prohibit smoking in indoor spaces and designate a designated place outside away from the building's entrances and windows.

Air Filters of the Highest Quality Should Be Installed Third

Airborne contaminants can be reduced by installing [high-quality air filters](#) in a building's heating and cooling system. High-quality filters may remove a wide range of impurities from the air as it goes through the filter; they include dust, animal dander and mold as well as hazardous particles such as viruses and bacteria.

Check to see if the size of the high-quality air filter you've chosen is appropriate for your heating and cooling system.

Proper Trash Disposal

It's possible that improper waste disposal can have a negative impact on the air quality within a building. Mold and other dangerous substances can be released into the air when food decomposes.

Ingestion or inhalation of chemical substances released from a product can be harmful. To preserve a healthy interior environment, it's critical to properly dispose of any waste and to remove it from common areas as soon as possible.

Understanding Indoor Air Quality

The health and well-being of the building's occupants might be affected by the quality of the interior air. The most vulnerable among us, such as the elderly, babies, and people with compromised immune systems, are especially susceptible to the effects of polluted air. Repeated or long-term exposure to a substance might cause health problems or respiratory ailments in otherwise healthy people.

Good indoor air quality reduces disease and lowers the chance of developing serious health disorders linked to poor air quality.

CHAPTER 15: IMPROVING INDOOR AIR QUALITY WITH DUCT CLEANING SERVICES

The importance of the interior air quality cannot be overstated. The ordinary person spends the majority of his time indoors. This is why duct cleaning is necessary to improve indoor air quality.

The dust in the duct carries pollutants, viruses, and microbes. After ductwork cleaning improves the indoor air quality, you breathe cleaner air and enjoy a healthier lifestyle. This is due to the elimination of grime, mold spores, mildew, dust mites, soot, and animal dander. It aids in eliminating the musty odor in the air.

If your [heating](#) and cooling systems are improperly installed, maintained, or even operated, the numerous ducts may become contaminated with dust, pollen, and other

particles. If there is moisture present, microbiological growth might also result in the discharge of spores into the home.

All those exposed to these pollutants may experience allergic responses or other symptoms. Even though there are several techniques for cleaning ducts, standards have been set to ensure that they are cleaned properly.

Typically, ductwork cleaning services to enhance indoor air quality involve utilizing specialized tools to loosen dirt and other material, which is then cleaned out using a powerful vacuum cleaner.

Additionally, chemical biocides may be utilized. This would aid in eliminating the microbiological pollutants within the ducts. Even chemical treatments in the form of sealants or other encapsulants may be applied to the inside surfaces of these air ducts to restrict mold growth and prevent the discharge of dust particles.

It is essential to understand the advantages and disadvantages of air duct cleaning. It is impossible to generalize whether or not you need air duct cleaning in your home due to the fact that the conditions in each home vary greatly.

If your family members are having uncommon symptoms or illnesses associated with the home environment, you should consult your physician. You must identify various indoor air quality issues and preventative or corrective measures.

It is natural that you should clean your air ducts to improve your indoor air quality, as air ducts tend to become dusty over time. Consequently, they must be cleaned periodically. Moreover, if done correctly, such cleaning will not be hazardous.

Consider having your air ducts cleaned if there is extensive mold growth evident within them. Keep in mind that there may be components of your heating or [cooling system](#) that are inaccessible and cannot be visually inspected.

If the insulation of insulated air ducts becomes moldy, they should be replaced, as duct cleaning would improve the [indoor air quality](#).

Anyone might be adversely affected by poor indoor air quality. The cumulative effects of the several causes of indoor air pollution can significantly raise the likelihood of adverse health outcomes.

The adverse health effects caused by poor air quality and exposure to indoor pollutants may manifest immediately or many years after exposure. The most frequent side effects are headaches, vertigo, fatigue, and irritation of the eyes, nose, and throat.

There are numerous methods for improving indoor air quality. Installing a high-quality filter in the building's heating, ventilation, and air conditioning system is one of the simplest methods (HVAC). These high-quality filters may remove impurities and air pollutants from the air as it circulates through the system, keeping the toxins deep inside the filter for removal at a later time.

Increasing the ventilation in the affected building is another solution. Many modern structures are practically airtight, keeping air contaminants inside. Ventilating the building by opening doors and windows and circulating the air throughout the entire structure would replace stale, polluting air with fresh air from the outdoors, significantly enhancing the air quality within.

CHAPTER 16: TIPS FOR IMPROVING THE INTERIOR AIR QUALITY OF OFFICE ENVIRONMENTS

The [indoor air quality](#) of an office is crucial for the health, comfort, well-being, and productivity of all employees. A healthy working environment can contribute to more productivity and fewer missed work days, therefore improved indoor air quality is particularly vital to management.

Improving Workplace Air Quality

The effects of indoor air pollution on office occupants are influenced by numerous variables. Long-term exposure to high amounts of pollutants raises the risk of life-threatening illnesses, while short-term exposure can cause discomfort and major respiratory issues. There are numerous methods for improving indoor air quality:

1. Ensure Adequate Air Circulation

Ensure that all air vents and grills are clear of debris. This provides for the unrestricted circulation of interior air and ventilation of large office spaces. Placement of furniture, boxes, or other objects near supply vents or return air grilles can have a considerable impact on airflow.

2. Proper Waste Disposal

Eliminate all waste and garbage in a timely and proper manner. The presence of trash in the workplace can lead to unpleasant aromas, the growth of mold and germs, and the attraction of bugs that can contaminate the air with their waste.

3. Comply with Smoking Policy

Ensure that all staff adhere to the smoking policy of the building. Exposure to tobacco smoke can cause respiratory diseases, breathing difficulties, and lung cancer. Tobacco smoke in a building can raise the expense of maintaining the ventilation system and cleaning and replacing furniture contaminated by tobacco smoke.

4. Isolate Ventilation Hazards

Actions and objects that potentially emit harmful pollutants or scents should be limited to well-ventilated sections of the structure. Many office goods, such as solvents, adhesives, and pesticides, emit chemical pollution and odors.

Office equipment, including photocopiers, printers, and fax machines, can also emit dangerous substances.

When exposed to the same toxins at identical concentrations, individuals react differently. Low quantities of pollutants produced by these objects may aggravate asthma and other preexisting diseases in susceptible individuals.

5. Utilize Premium Air Conditioner Filters

When properly installed and maintained, high-quality air filters will remove numerous toxins and pollutants from the indoor air. Filters should be changed often to prevent the reintroduction of dust and other pollutants into the airflow.

Numerous types of [high-quality air filters](#) are available, making it simple for equipment owners to determine which sorts of air filters are optimal for their equipment.

6. Take it Easy at Work

Good indoor air quality management strategies can make a significant difference in an office's interior air quality. With common sense and diligence, the majority of indoor environmental problems can be averted or remedied with relative ease. Adding high-quality air filters to the building's equipment can also address additional air quality issues.

Good indoor air quality is based on the behaviors of everyone in the building; therefore, the best method to maintain a healthy and productive office environment is through cooperation between management and staff.

Guysac.com provides in-depth air quality and bulk testing for businesses and residents concerned about indoor toxins and their negative health impact. Call (281) 306-9875 to begin purifying your air quality today. <https://guysac.com/>

CONCLUSION

The air that circulates in your home must be fresh and clean; else, it can be harmful to your family. Not every homeowner is aware of this. In most homes, the air is full of dust, pollutants, poisons, and allergens, particularly if the rooms are sealed and equipped with central heating and cooling systems.

One-third of American adults suffer from allergies such as asthma, sinusitis, and bronchitis, according to research conducted over the past decade. Maintaining adequate indoor air quality is a problem that sometimes requires professional assistance. Therefore, to avoid serious health issues, you must assess the quality of the air in your home.

This is the only method for determining the amount to which it must be improved. If you are serious about improving the [indoor air quality](#) of your office or home, you must first focus on the heating and cooling system.

Did you know that residential heating and cooling systems can contribute to hazardous indoor environments? The performance of your heating/cooling equipment is largely dependent on how it was installed.

Problems with the heating and cooling system and poor indoor air quality may result from an improperly installed [HVAC system](#). Installation of home air comfort systems requires education, expertise, and experience.

The technicians who install the systems must have extensive knowledge of heating and cooling systems, plumbing, and electrical work. If you do not choose a competent contractor, you will have not only system issues, but also high energy costs and poor indoor air quality.

Additionally, central air conditioning units can be a significant source of air pollution. As the climate changes, more and more individuals install air conditioning systems. Just as the air outside offers a pollution risk, so too must the air inside be properly ventilated. Otherwise, it may be the source of illness and allergies.

In rooms with air conditioning, we inhale microscopic dust particles and allergens. These particles penetrate deeply into our lungs, causing breathing difficulties or asthma.

It is essential, therefore, that the interior air quality is routinely monitored and maintained to reduce allergens and contaminants. You should contact your HVAC contractor and have him evaluate the quality of the air in your home.

- Do you spend the most of your time indoors for fear of being unwell from air pollution?
- Do you believe it is safer to stay home, with the protection of a residential air conditioner, and forego outside enjoyment?

If you answered yes, you should be aware that the level of pollution inside your home may be double or even higher than outside.

The department of public health has identified poor indoor air quality as one of the top five environmental dangers. If your home has a central air conditioning system, your filters may play a significant role in maintaining a pollution-free indoor environment, or vice versa.

Air filters in residential air conditioning units provide one or many stages of filtration that aid in preventing indoor air pollution. All warm air heating and air conditioning systems are equipped with these filters, and with regular maintenance, they can keep the indoor environment free of pollutants.

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