

Indoor Air Quality

(IAQ) deals with the content of interior air that could affect health and comfort of building occupants. The IAQ may be compromised by microbial contaminants (mold, bacteria), chemicals (such as carbon monoxide, radon) allergens, or any mass or energy stressor that can induce health effects. Indoor air pollutants are associated with many health risks including asthma. Recent findings have demonstrated that indoor air is often more polluted than outdoor air (albeit with different pollutants) although this has not changed the common understanding of air pollution. In fact, indoor air is often a greater health hazard than the corresponding outdoor setting. Using ventilation to dilute contaminants, filtration, and source control are the primary methods for improving indoor air quality in most buildings.

To conserve energy, homes are built increasingly airtight. This traps pollutants that can be harmful to you and your family and can make your home less comfortable. Mitchell Mechanical, Inc uses air quality products that meet or exceed American Lung Association Health House guidelines and can help improve the air quality in your home.

Most homes are outfitted with basic HVAC filtration - a standard one-inch furnace filter that meets minimum filtration standards and requires frequent replacement. More often than not, these filters do not get replaced when they need to be. Think of a furnace filter as a net that captures particles that flow through it in the air stream. The more efficient the filter-the more particles it can capture.

The Media and Electronic Air Cleaners Mitchell Mechanical, Inc works with provide whole-house filtration solutions that trap up to 60 times more airborne particles than a standard one-inch filter. Replaceable four-inch Media Air Filters can last up to 12 months, and Electronic Air Cleaners require little maintenance with only periodic washing. We will show you how to do this when you purchase a Mitchell Mechanical IAQ system.

Over time, the purchase of an Air Cleaner will pay for itself compared to the monthly purchase of a one-inch filter. Plus, you're sure to notice a difference in the quality of air in your home, since whole-house filters can capture up to 98% of airborne pollutants and particles from the air passing through the duct system. Clean air is important to us and we want to help you and your family enjoy the benefits of an IAQ system.

Humidity

When your home's humidity level is too low, you can experience things like dry skin and chapped lips, or hardwood floors separating at the seams. Even the piano can go out of tune. In the wintertime, relative humidity inside the average home hovers around 15%, while even the Sahara Desert has an average humidity of 25%. Simply turning up your thermostat in the winter can really dry out your home and make things uncomfortable.

That's why it's important to maintain your home's most comfortable humidity level automatically with a Whole-House Humidifier. Proper humidity provides a more comfortable living environment. Plus, since humidified air feels warmer, you can turn down your thermostat for energy savings.

Controlling humidity also means moisturizing dry air to prevent damage to hardwood floors and woodwork while preventing excess moisture in your home. Humidifiers can help you maintain the proper level of humidity in your home even in the driest of seasons.

High-Quality Air Cleaners for Your Home.

Ninety-nine percent of particles in the air are invisible to the naked eye. Standard one-inch air filters trap less than 1% of those invisible particles, allowing them to re-circulate in your home. For the ultimate in clean air, try a HEPA Air Cleaner. It captures 99.97% of pollutants from the air that passes through it, including cat dander, certain bacteria, pollens and more.

HEPA stands for High-Efficiency Particle Arresting, which is the standard that achieves 99.9% air filtration. We choose to use a HEPA Air Cleaner that provides powerful, 3-stage filtration to deliver the cleanest air possible throughout your home.

Electronic Air Cleaners

Electronic Air Cleaners are advanced and easy-to-use, whole-house solution that traps and filters up to 98% of pollutants from the air passing through your heating and cooling system. These advanced air cleaners capture microscopic impurities like dust, smoke and smog particles in addition to larger particles like mold spores and cat dander.

It works by placing an electric charge on airborne particles, and then collecting the charged pollutants like a magnet. Plus, you can say goodbye to monthly filter replacements by simply washing the air cleaner cells in your dishwasher or sink. It's that easy.

Media Air Cleaners

A standard 1-inch furnace filter offers only limited capture of airborne particles and pollutants compared to the deep-pleated media filter found in a Media Air Cleaner. Deep pleated filters take several square feet of filtration material and fold it over and over to provide several times the surface area of filtration material versus a standard 1-inch filter. The result is highly effective cleaning efficiency against even the smallest particles.

Furnace mounted air cleaners filter the air in your entire home, since they are positioned in the heating and cooling system and can capture particles directly from the airstream.

A high-performance Return Grille Air Filter combines superior air filtration with easy access from the living space. This filter is specially designed to fit in virtually any standard return air grille.