



Generational Home Builders®©

1302 WAUGH DR STE 768 HOUSTON TX 77019

P: 713-487-7287 F: 866-587-2032

HIGH EFFICIENCY HVAC WITH FRESH AIR

A filtered fresh air intake system adds fresh air to a home heating and cooling system. This improves indoor air quality by diluting polluted or stale indoor air and also pressurizes the home to help keep pollutants out.

Most residential systems use the HVAC air handler fan to pull in clean outside air from a duct through the wall or attached to a foundation vent. The air is filtered just before it enters the air handler and mixed with the return air and then dispersed evenly throughout the building through the supply duct system.

Fresh air enters the duct before the air handler fan, which reduces the volume of return air being pulled from inside the home. Since the supply air exceeds the return air, a positive pressure is maintained in the home when the HVAC system is in operation. Positive pressure reduces infiltration of outside air from undesirable locations and helps keep irritants and other pollutants from entering the home.

Filtered fresh air intake system benefits include:

- Cleaner, fresher smelling home with less dust
- Helps prevent chemicals, pesticides, pollen, mold spores and other pollutants from entering home
- Reduces drafts from windows and doors as well as back-drafting
- Adds air to the home to replace air exhausted by clothes dryer, bathroom exhaust fans and range hood vent.

A filtered fresh air intake system is sometimes referred to as passive ventilation as it doesn't require electricity; it's quiet and inexpensive to operate. Passive ventilation is also low-maintenance because it doesn't have moving parts and the only maintenance needed is periodical cleaning of the filters.

Most newer homes are well insulated and almost airtight. While that is great for lowering heating and cooling costs, it can lead to poor indoor air quality and an unhealthy home environment.

Generational Home Builders includes a filtered fresh air intake system to all our new homes greatly improving the air quality and minimizing indoor pollutants making our homes environment healthier and more comfortable.

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THIS HOME FEATURES SPRAY FOAM WALL INSULATION

Benefits of Closed-Cell Spray Foam Insulation

1. Powerful Insulator

Spray foam insulation works far better than other popular types of insulation. Because of its expansive nature, spray foam tightly seals all nooks and crannies that otherwise would have been left exposed. Spray foam's resistance value, or its ability to provide an airtight seal, ranked at R-6, the highest rank on the market today.

2. Incredible Energy Savings

Because spray foam is such a powerful insulator, families and businesses have actually been able to save a significant amount on their energy expenses. Spray foam insulation has shown to provide energy savings at an average of 50% or more, unlike other types of insulation that average a savings rate of about 30%.

3. Air-tight Seal

Spray foam insulation is uniquely capable of thoroughly sealing holes and cracks in your attic or crawl space. Air leaks are often one of the biggest reasons for high-energy bills. Spray foam insulation creates a powerful airtight seal that has shown to be **24 times less permeable to air infiltration** than other types of insulation.

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4. Moisture Barrier

Holes and cracks in your walls and crawl space can allow entrance to more than just air. Water and moisture can gain access to these areas through exposed cracks and holes if not sealed.

Spray foam insulation is impermeable to water. This means that not only will spray foam thoroughly seal and protect your attic and crawl space from airborne moisture and leaks, but if flooding should occur in the area, spray foam insulation will not absorb the water like other materials will.

5. Deters Mold

Spray foam is not only water resistant, but it is composed of an inert polymer that provides no source of food for mold or bacteria. Homes that are insulated using closed-cell insulation are better protected against mold and mildew.

6. Long Life Span

The inert polymer that spray foam insulation is comprised of allows it to have an indefinite lifespan. This allows homes and businesses to enjoy the benefits of spray foam insulation for years on end before needing to re-insulate. Businesses and families that invest in spray foam insulation can actually save money over the course of 20 years or more because of spray

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foam's unique ability to perform at optimal levels for extended periods of time.

7. Eco-Friendly

One of the most common inquiries made about spray foam insulation is if it is eco-friendly. Our answer is yes! There are several reasons for this.

- Spray foam helps reduce energy consumption and create a 'green' household.
- Protects against moisture and mold growth
- Designed to last indefinitely, producing fewer consumed materials