



BUILDING A SOLID INVESTMENT



BALANCED HEALTHY HOME FRESH AIR SYSTEM

Granite Ridge Builders includes a balanced healthy home fresh air intake system in all of our new homes – making your home environment healthier and more comfortable for you and your family.

Why is a Balanced Healthy Home Fresh Air System Needed?

Normal perspiration and breathing of family of four adds about a half pint of water to the air every hour. Each shower adds another half pint to the air (even with the exhaust fan running). Daily living for a family of four can add more than 18 gallons of water to the air in your home per week. Condensation on your windows, walls and floor can lead to mold, allergies and other serious health issues.

The average person breathes 3,400 gallons of air each day, and the air inside of your home is filled with harmful pollutants, including volatile organic compounds. Items like printers, household cleaners, humidifiers, and furniture can all give off these harmful compounds. Cooking can cause the release of carbon monoxide and formaldehyde inside your home.

What is a Balanced Healthy Home Fresh Air System?

The air in a tightly sealed home can be up to 10 times more polluted than outdoor air. While a tight building envelope is important for energy conservation, ventilation is very important for filtering out the polluted air and infusing the home with fresh, unpolluted air. Unfortunately, systems that rely on exhaust-only or supply-only ventilation can throw off the pressure in a home and have limited ability to filter the air. A balanced healthy home fresh air system is much better at filtering pollutants out of the air and maintaining healthy air quality and appropriate moisture levels in the home.

How Does a Balanced Healthy Home Fresh Air System Work?

A balanced healthy home fresh air system is added to the home with a 6" diameter insulated duct from outdoors to the return air of the furnace. A mechanical balancing damper in the duct will be controlled by the control module to keep the air healthy in the home. At the same time the module will communicate to the bath fan to exhaust out the stale air in the home.

This system will introduce fresh outdoor air into the home at the same rate that stale indoor air is exhausted from the home. An effective ventilation system will limit the presence of moisture and harmful pollutants inside the home, and it neither pressurizes or depressurizes the home. This allows the mechanical ventilation to control the flow of air within the home, rather than relying on natural ventilation to move air-and pollutants.

