Healthy indoors

Duct Leakage: Aeroseal Provides an IAQ Breakthrough

The Center for Disease Control (CDC) estimates that out of 100 indoor air quality problems, 70% are due to inadequate sealing of the duct system, a system that is not designed to be air tight in the first place. There are numerous factors that cause air leaks in the duct system, which now have adverse effects on indoor air quality.

Leaks in supply ductwork can cause an excessive amount of negative pressure within the home or building envelope. This increased pressure causes air flow from the outside to the inside, bringing in dust, pollen, and other pollutants, which now become airborne and are more easily distributed throughout the home.

Duct leakage in the return system can lead to overheating condensation, thereby increasing the effectiveness of the return system. This in turn promotes the growth of mold and mildew, and decreases the efficiency of the system, which now becomes more airborne and are more easily distributed throughout the home.

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Aeroseal is a product that can be used to seal ducts and provide an effective solution to the duct leakage problem. It is a very fine, non-toxic, transparent material that is delivered through a specially designed system that allows for an even distribution of the material throughout the duct system. This method of sealing ducts is more effective than traditional methods, which often use duct tape or other materials that are not as durable.

Traditional duct sealing involves manually applying sealant and sealing the leaks from the inside of the duct using sealant. This is a very time-consuming process, and often results in a leak that is not fully sealed. Aeroseal, on the other hand, uses a more effective method of sealing ducts, which involves injecting a fine mist of sealant into the duct system. This method is much faster and more effective than traditional methods.

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This ongoing monitoring and reporting removes the guesswork from the duct sealing process. New measurement and reporting methods that result from such sealing tests can be used to improve the design and installation process. The results of these tests can be used to improve the design and installation process, which can lead to a more efficient and effective duct system that is better able to meet the needs of the building and its occupants.