



# HVAC SERVICES AND DUCT SEALING





# Are You Getting **THE EFFICIENCY YOU PAID FOR?**

**Replacing your heating and cooling system is a big decision. Your utility bills are one of the largest annual home expenses.** Before you do, it pays to hire an HVAC contractor that takes your entire heating and cooling system into consideration. Not just your furnace and air conditioner, but your ductwork as well.

## **Ductwork: The Missing Link to High Efficiency Heating & Cooling**

Ductwork is rarely evaluated before replacing a heating and cooling system. And ignoring it can lead to big problems.

Because all ducts are manually installed, they are prone to leaks – regardless of whether they are made from sheet metal, flex duct or duct board. In fact, the U.S. Department of Energy estimates up to 40% percent of the air moving through a home's ductwork is lost due to leaks, holes and poorly connected ducts.

Why is this bad? Even a small leak can have a big impact on your home.

**Comfort:** Homes with leaky ducts can't maintain a comfortable temperature throughout the home. This leads to uneven temperatures. In fact an entire floor of your home may be warmer or colder than another.

**Energy Efficiency:** Leaky ducts require your heating and cooling system to work harder to keep your home comfortable. This means higher utility bills and shorter equipment life.

**Air Quality:** Leaky ducts throughout your home can pull in dust, contaminants and allergens – from the attic and crawlspace to your basement and behind your walls. This can lead to a home that's dustier than normal and allergy issues for your family.

## **Investing in a High-Efficiency System**

Energy STAR estimates heating and cooling can account for more than 50 percent of a home's total energy use. It's just

one reason why many consumers shop for high-efficiency systems. Whether it's a new furnace, heat pump or air conditioner, this new equipment is designed to last longer and run more efficiently than your current equipment.

But remember the longevity and efficiency of heating and cooling equipment also depends on your home's ductwork. By evaluating your ductwork before investing in new equipment, you may even be able to downsize to a smaller, more cost-effective heating and cooling system.

Sealing your ducts is the best way to achieve maximum efficiency from your equipment and create a more comfortable, energy efficient home.

Before investing in a new heating and cooling system, be sure you hire an HVAC contractor that takes the time to evaluate your ductwork before determining the equipment that will best fit your needs.

## How do we know that **DUCTS LEAK?**

**25-40%**

of conditioned air  
(hot/cold) leaks out  
of the ductwork!

In houses with forced-air heating and cooling systems, ducts are used to distribute conditioned air throughout the house. But in typical houses, about 25-40% of the air that moves through the duct system is lost due to leaks, holes, and poorly connected ducts. The result is higher utility bills and difficulty keeping the house comfortable, no matter how the thermostat is set.





**95%** of homes in the U.S. have leaky ductwork\*



(Source: US Department of Energy)

## Nobody Likes to Waste Money

SEER and AFUE are efficiency ratings - like MPG for a car.

The higher the SEER or AFUE, the more efficiently it is designed to operate. Much like if there were holes in your gas tank, if you have holes in your ductwork, your system will not perform as expected. Wasting your hard earned money. Sealing your ducts can help seal in the savings.

| Factory-Designed Efficiency |          | Delivered Efficiency with Unsealed Ducts |             |             |             |
|-----------------------------|----------|--|-------------|-------------|-------------|
|                             |          | 2% or Less (SEALED)                      | 10% Leakage | 20% Leakage | 30% Leakage |
| A/C and Heat Pumps          | 24 SEER  | 23.3                                     | 20.3        | 16.6        | 12.9        |
|                             | 22 SEER  | 21.3                                     | 18.6        | 15.2        | 11.9        |
|                             | 20 SEER  | 19.4                                     | 16.9        | 13.9        | 10.8        |
|                             | 18 SEER  | 17.5                                     | 15.2        | 12.5        | 9.7         |
|                             | 16 SEER  | 15.5                                     | 13.5        | 11.1        | 8.6         |
|                             | 14 SEER  | 13.6                                     | 11.9        | 9.7         | 7.6         |
| Furnaces                    | 95% AFUE | 93                                       | 85          | 76          | 67          |
|                             | 90% AFUE | 88                                       | 81          | 72          | 63          |
|                             | 80% AFUE | 78                                       | 72          | 64          | 56          |

Source: Comfort Institute. Based on Department of Energy Research and FL Energy Office Research Report: FSEC-CR-397-91 Degradation above is typical. Impact is up to 50% greater on AC performance if return air leakage is from a hot attic or attached garage. Impact is typically 50% to 100% greater on winter heating performance of a heat pump with electric resistance auxiliary heat.

## What are the BENEFITS OF DUCT SEALING?

Sealing your duct system is important. Duct sealing:

- Improves your home's overall indoor air quality
- Provides consistent temperatures throughout your home
- Makes your system more efficient, saving you money on your energy bills.



### Comfort

Eliminate hot/cold spots; create more even temperatures



### Air Quality

Reduce dust and allergens; cleaner, healthier air



### Energy Savings

Improve efficiency and airflow with up to 30% savings



### Performance

Improve operating efficiency and prolong life of equipment

## ABOUT US

Dum mo et fauc factussilis converf erips, quemus, moeniandio mis vit, quervid sulari publint emurorei publi, dum viverfintra, sidet acto videt C. Ublin atus, cum publica etodiena, dium atiozem tus enat in Itam mena, fui cae coniri se comnirmis Ad nox sus cla dum cinc intrudam ut Catorit abem vidientrorum iume qui inarei perum temus; Castratum mandicae trudes alarenatum inefec onsterdi, movidiur a no. Grae nostidius iam es rei sen Etres cii proratr unumus moveris? que hac mod potide condi publinte eto non se cla publিনatum dertebem incla maiorus etin.



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