A large number of homes have underground duct work, and many homeowners are not aware of the technology that is available to restore it. Most homes with underground duct work have one or more of the following problems: rust, mold, dirt, water or insects.

Mold and rust not only negatively impact air quality within a home, but continued rusting deteriorates the air ducts. This eventually leads to the collapse of the entire duct system. Replacing a home’s HVAC equipment can cost the owner thousands of dollars. A multi-level house will have to be remodeled inside to accommodate the new duct work – and this costs the homeowner big bucks.

**Traditional Repair**

Traditionally, air duct repair for underground ducts has involved converting the HVAC ducts to an overhead system, which abandons the ducts in the ground or involves breaking up the concrete slab to replace the ducts. These repairs are very costly and time consuming. Often, homeowners are required to leave their homes while the renovations are being completed, which adds to the expense of the process. Converting to an overhead HVAC system also tends to reduce comfort levels and energy efficiency within the home. Often when homeowners convert to overhead HVAC systems, they run the risk of purchasing fancy new equipment that might be less efficient and less comfortable than their original system. New overhead systems may also dramatically reduce the amount of living or storage space in the house and/or attic.

**Reason to Keep Ducts in Ground**

Floor ducts capitalize on the natural physics of hot air rising from the floor to the ceiling, where the return ducts are located. When using the heat, a house that has been converted to overhead ducts ends up with the warm air at the ceiling and cold air at floor level.

In a home with underground ducts, the conditioned air does not blow directly on the inhabitants of the home, since the cool air is drawn upward by the return air in the ceiling. When air is drawn upward, it often produces a comfortable and efficient environment more effectively than when cold air is blown down on the homeowner.

When air ducts are located in the ground, there is less temperature differential between the ground and conditioned air. When ducts are in the attic, there is a huge difference that may result in the system functioning inefficiently. When the new overhead system is not as efficient as the replaced underground duct work, the homeowner has essentially paid a lot of money to waste a lot of money. Keeping the ducts in the ground is more comfortable, and saves money – so your customers will love you.

**New System of Restoring Ducts**

There is a patented (U.S. patent #7,112,350 B1 and #8,529,992 B2) duct restoration system, which is non-destructive and can be done without the homeowner having to stay somewhere else during the process. The average home can be restored in three to six hours by a two-man crew.

The process begins with a video inspection of the entire duct system, which is done using a full color camera. After reviewing the video, a strategy is developed to outline the condition of the system and a proposal bid indicating the restoration cost is provided to the homeowner.

The next step is to clean the ducts. The aggressiveness you use when cleaning depends on the condition of the ducts. In other words, if the system is about to collapse, approach cleaning carefully. The fourth step is to use the patented aspect of the process. This involves the use of special equipment with full color video to stream through the entire system a liquid liner that will harden into a rubberized duct. This is not just a coating. Coatings are great for overhead duct work but not underground systems. This system is self-supportive, so when the metal continues to deteriorate, the home will be left with a rubber duct system. A second application of the product offers the ability to verify that all the holes and breaches have been filled and restored. Prior to leaving the house, the HVAC system is returned to normal working order.

**Commercial**

Every city that has multi-level buildings has a need for air duct sealing and restoration. Office buildings are a prime candidate for this solution. In commercial buildings where ducts are run through un-conditioned air space, conditioned air escapes, costing the building owner a lot of money. When dust gathers in the insulation inside the ducts this can lead to mold growth and sick building syndrome. When a building becomes “sick” this can lead to loss of man hours for the employers, due to employees becoming ill from the air they breathe at work. The other concern is asbestos, any building that has asbestos contamination will also have it in the duct work. Duct Armor air duct restoration can solve all three problems. Duct Armor will seal any existing and future air leaks, it will also eliminate and prevent future mold growth. Asbestos will be encapsulated, which eliminates the need to replace the duct work.

There are many more applications such as air handling units in large buildings and factories, Public housing, universities, hospitals, ships, government buildings, etc... We are also aggressively seeking government contracts.

**Duct Armor**

1233 N CEDAR ST, UNIT 26
Owasso, OK 74055
info@ductarmor.com
www.ductarmor.com
1-800-637-1773