New Life for Chimneys

HomeSaver® GasFlex™ Chimney Relining for Gas and Oil Furnaces
Many chimneys venting gas or oil furnaces may appear to be in fine condition on the outside. But inside it could be a completely different situation. Yesterday's chimneys were not designed for venting today's more energy efficient furnaces. Let's take a close look at what really counts...the inside.

A look at the inside of this same chimney shows how acid-laden residue from the furnace has attacked this flue. The original clay liner has eroded away; pieces of it are even missing. (Old chimneys might not even have a liner.) Mortar and bricks are loose and falling, and moisture has leached through to the home's interior walls.

With continued use, more erosion will take place, possibly leading to leaks in the flue, complete flue blockage, or possibly even carbon monoxide poisoning of the home's occupants.

It's happened thousands of times — illness, even death, from carbon monoxide or sulfur dioxide poisoning.

With deterioration of the flue, the deadly gases can find their way into your home through even the smallest cracks.

In severe cases, the chimney erosion will lead to partial or complete internal collapse, blocking the flue and sending these poisonous gases into the home.

But fortunately, the problems of a deteriorating gas or oil furnace flue can be corrected without completely rebuilding your chimney.
Revitalize your chimney with a HomeSaver® GasFlex™ Chimney Relining System.

HomeSaver will revitalize your chimney. This liner is composed of AL 29-4C stainless steel, a special alloy developed specifically to resist corrosive furnace flue acids. This liner acts as a barrier between the flue gases and the defects in your chimney walls.

Not only will it add to the safety of your home and family, it will also increase the resale value of your home. And, your furnace will run more efficiently.

HomeSaver's patented "interlock" construction is unsurpassed in flexibility and protection. This dependable, high-quality product comes with a lifetime warranty that covers perforation damage from corrosion, as well as workmanship and materials.

HomeSaver can reline virtually any configuration you may have — from single, straight flues, to multiple flues and flues with bends and size changes. Talk to your HomeSaver installer today for all of the details.
"What causes water in a gas furnace flue?"

The modern, high-efficiency gas furnace is a fabulous engineering marvel.

In the old days, low-efficiency gas furnaces sent almost as much heat up the chimney as they put into your home. This pushed your utility bills sky-high and wasted precious natural resources.

Today's high-efficiency gas furnaces extract more heat during the burning process and send much less of it up the flue. But for all the benefits these furnaces offer, there's one important side effect that must be dealt with — excessive moisture in the flue.

You see, water is a by-product of burning. In fact, when you burn 1 cubic foot of gas, you create 2 cubic feet of water vapor. Those old, inefficient furnaces sent so much heat up the flue that the water created in the combustion process stayed in the form of hot steam all the way up and out the chimney.

New high-efficiency furnaces don't put as much heat into the flue; they put it into the home where you want it. The problem is, the water vapor that's created during burning now doesn't have the draft power to push it up and out your furnace flue. So what happens? It condenses on the walls of your chimney. And, unfortunately, no chimney is designed to be constantly bathed with water, especially the acid-laden water that is found in your furnace flue.

The result is the deterioration we've outlined in the middle of this brochure. Installing a new, high-quality AL 29-4C stainless steel HomeSaver Chimney Liner will vent these water vapors efficiently and with maximum safety.

Some common symptoms of excessive moisture in a gas furnace chimney

**Inside**
- Peeling wallpaper
- Blistering paint
- Flaking plaster
- Ceiling stains
- Damp patches
- Mold

**Outside**
- White stains on brick
- Eroded mortar joints

"What problems result from sulfur compounds in an oil furnace?"

While we commonly think of a masonry chimney as a permanent structure, practically impervious to damage, that's not the case. Without a proper liner and annual maintenance, the toll can be a heavy one.

When the oil you heat with is burned, a sulfur soot is formed on the inner wall of your chimney.

This sulfur-laden soot combines with moisture in the flue, a natural byproduct of today's highly efficient furnaces. This forms an acid mixture which attacks your chimney, eroding your flue tiles and mortar joints. This leaves dangerous voids and allows the sulfuric acid mixture to attack the brickwork, your last line of defense against deadly sulfur dioxide and carbon monoxide poisoning. Additional danger exists as the chimney debris, or silt, falls to the bottom of your chimney. This can eventually plug the chimney, allowing dangerous gases to enter your home.

Installing a new, high-quality AL 29-4C stainless steel HomeSaver Chimney Liner will vent these dangerous sulfur soot efficiently and with maximum safety.

Some common symptoms of problems in an oil furnace chimney

**Inside**
- Silt in chimney
- Soot floating in the house
- Soot coming from barometric damper
- Odor
- Flaking plaster
- Damp patches

**Outside**
- White stains on brick
- Eroding mortar joints
- Deteriorating bricks

For more information, contact:

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