

Fireplaces - The Magic and Mystery

Fireplaces are no longer used as the primary source for heating homes, but the magic of a fire stills makes a fireplace a valued part of any home. There are few things nicer than a cheery fire, especially on a cold winter night. By the same token, there are few things more distressing than a fireplace which doesn't draw - belching smoke into the home, chasing people out, setting off smoke detectors, and dirtying everything in sight. Why do some draw perfectly, and others so poorly?

Good Design

There are many factors which affect fireplace performance. Some of the more important are listed here:

Ratio of Fireplace Opening to Chimney Flue Size: The area of the flue should be roughly 1/ 12 the size of the opening area.

Chimney Height:

The taller the better, but at least 3' above the roof and 2' higher than anything within 10' of it.



Damper Size and Location: Full width of firebox and at least 6" above the top of the opening. The damper is usually closer to the front of the fireplace than the back.

Smoke Chamber: The chamber above the damper should be as smooth as possible, and should slope no more than 45° as it funnels the smoke from the damper opening into the chimney.

Most fireplaces break at least some of the rules of good design and yet many work well despite this. Fireplace design is more of an art than a science. Because there are so many factors which affect the draw, it is impossible to know how "perfect" the unit has to be to work. What about solving the problem of a fireplace that doesn't draw well?

Improving the Draw

Reduce the Opening Size: This can be achieved by laying an additional row of firebrick on the floor of the firebox.

Move the Fire Back: Often the fire is simply too close to the front of the firebox.

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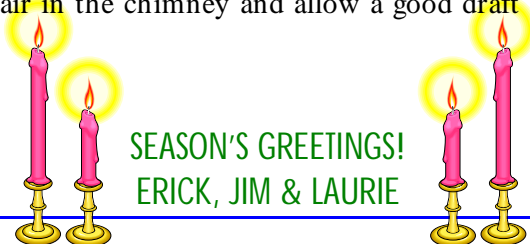
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Fireplaces - cont.

Extend the Chimney: This is expensive but often successful. Less expensive alternatives include a rain cap or a metal draft hood which rotates with the wind so that smoke is always released downwind.

Add Air: A fireplace which is starved for air won't work properly. Sometimes opening a window in the room with the fireplace will supply enough air. Fireplace draw is more difficult to achieve if the house is under negative pressure. Don't have exhaust fans on while trying to start a fire. Most furnaces also work like exhaust fans. It is easier to start a fire when the furnace is in an off cycle. Glass doors help to protect the fireplace from negative pressure effects in the house, especially if combustion air can be brought in from outside.

Warm the Flue: This is a trick most people know about. Pushing a burning piece of rolled-up newspaper up past the damper will help overcome the column of cold air in the chimney and allow a good draft to be established quickly.



ASK THE INSPECTOR

My toilet doesn't flush well. It seems like the flapper valve closes too soon and the water has little force going into the bowl. I tried changing the flapper valve but that didn't help. Any suggestions?

Erick's Response:

You can check the operation of the flapper valve by flushing with the top of the tank off. If the valve closes too quickly, it could be because the linkage (usually a chain) is too long between the valve and the flush lever. Try adjusting the linkage so the valve opens fully when the flush lever is pressed, but also closes fully when the water has left the tank.

Your flushing problem could also be an accumulation of minerals (calcium compounds) in the small holes under the bowl's rim that conduct the tank's water into the bowl. Using full-strength white vinegar and a toilet brush, scrub vigorously under the rim for several minutes to remove some of the minerals. Also use a stiff piece of copper wire about six inches long and ream out each of the holes to remove minerals. Be careful about causing damage to the finish.