



Hot Concepts

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Hearth Solutions: Wood Inserts

What are Wood Inserts?

Wood inserts are designed to be installed into an existing open wood burning fireplace to transform it into energy efficient zone fireplace. Hot Concepts wood inserts are all EPA-certified, are non-catalytic, and utilize clean-burning technology. An EPA-certified wood burning insert reduces smoke emissions by approximately 90 percent as compared older models. Clean-burning technology allows for the insert to obtain a more "complete-combustion" burn cycle. A more complete combustion cycle equates into greater operating efficiency, longer burn times, lower maintenance costs, and lower overall fuel costs. Today's inserts have simplified air controls that give a great deal of control over the burn rate of the fire inside.

[Click here to read more about EPA-Wood Burning](#)

Why would I purchase a Wood Insert?

- To convert an un-efficient fireplace into an efficient heat source for your home.
- To lower your heating bills by utilize the plentiful natural resource of wood.
- To lower your heating bills by zone-heating the rooms you spend the most time in.
- To eliminate heat loss due to the from the home heat escaping up your fireplace flue.
- To experience the steady even heat you get when you burn wood, it's un-paralleled.
- To retire or replace an older non-EPA-certified and un-attractive wood insert.
- To add a back-up heat source to your home in the case of a power outage.

Typical Projects for Wood Inserts:

There are a few different Gas Insert installations, that Hot Concepts installs regularly. Review below to find out which one will work best for your project. The following are only a sample of the Gas Insert projects that Hot Concepts can help you with.

Wood Insert - New:

Situation: You have a wood fireplace that you rarely use. You like burning wood, and can get good wood on an annual basis, but your fireplace just does not produce enough heat. You've lost power in the past and your without heat for an extended period of time. Your heating bills are getting out of control is a wood insert a solution? **Or maybe** you have an older wood insert that is hard to control, is beginning to warp and break and has a catalytic converter that needs replacement. Is dumping more money and frustration into the older wood insert worth it???

Solution: Hot Concepts, in one day of on-site time will completely change the warmth in your room and more importantly the way you feel about your fireplace. By adding an efficient wood burning insert, Hot Concepts allow you to use your fireplace as an significant supplemental heat source. Hot Concepts will install the insert, venting, decorative surround, accessories, and instruct you on the operation of your new insert. Sometimes customers take the opportunity to completely change the look of the fireplace by installing new facing materials such as granite, marble, stone, mantels and other design features. Oh, almost forgot, during the installation Hot Concepts will be completely re-insulating around the damper area, no more cold drafts!!!

Before-Wood Fireplace

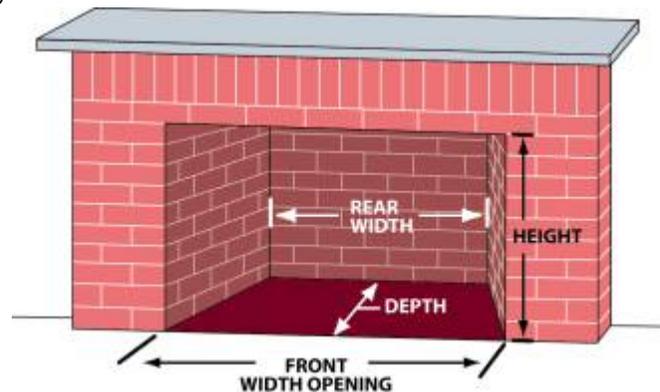


After-Wood Insert



Installation Basics-Wood Inserts:

Wood Inserts need to be installed into an existing masonry or factory-built fireplace with a structurally sound chimney. The insert's body will be "inserted" into the existing fireplace's firebox, exhaust liner will be attached and will be extended into the existing flue, and terminated with a new cap on-top of your chimney. Wood inserts come in various sizes to accommodate different sized fireplaces. See the measuring guide below to identify the key dimensions of your fireplace in order to select the correct wood insert. Inserts will be visible from the front only, with the back of the insert being concealed within the your existing fireplace. Once "inserted" the remaining gap around the insert will be closed off and concealed with the use of model specific surround panels and decorative doors. If power is required for optional fan kits, power can be run to a near-by outlet.



Measure the following dimensions as shown above:

Opening Height:

Opening Width:

Rear Width:

Depth (from opening to rear wall-top and bottom):

Depth of Hearth Extension (from opening out to end of stone hearth):

Distance to above combustibles (from opening up to first piece of combustible materials-sheetrock, wood, paper, etc.):

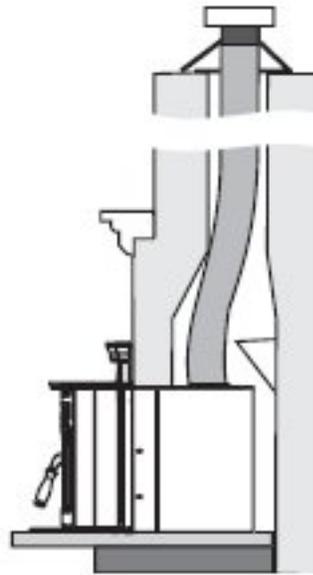
Venting Requirements - Wood Inserts:

Wood Inserts are natural draft appliances that consume air from the room/fireplace for combustion and exhaust the by-products (smoke) to the exterior. The preferred method for venting a wood insert is to use a stainless steel liner, attach it to the flue collar on the insert and to extend it to the top of the existing flue. This is called, "re-lining" the flue. The existing flue cavity will be used as the passageway for the new liner. Existing chimney caps and shrouds may be used, or a new rain cap can be installed. Re-lining the flue will ensure proper performance and safety when burning live fire in the wood insert.

The other method for venting a wood insert is to "direct-connect" the insert into the existing flue. This means that a short section of stainless liner or stainless pipe is connected to the insert and extends through the damper and just beyond the smoke shelf of the fireplace, allowing the exhaust gases to reach the flue. This method can only be taken if the size of the flue collar on the insert and the size of the existing flue are within specific ranges. If out of range the insert will not perform well, and your flue may be susceptible to a rapid build up of creosote. When in doubt, RE-LINE!

Special Note, NYS customers: Your fireplace's existing flue (the flue tiles in your chimney) need NOT be in working order. For example if your wood fireplace failed inspection and is not able to be used because of **minor** cracks or flaws in the flue tiles, a wood insert is a great solution to get your fireplace working again. Your flue acts as a non-combustible passageway in which the liner will travel to the termination. **However if significant, major deterioration of the flue and chimney have occurred then a wood insert cannot be used.**

Wood insert liners can only be installed into a dedicated flue. This means that the flue cannot serve multiple appliances such as water heater, furnaces, other wood stoves, dryer vents, or anything else.



Full Flue Liner
(No Cleanout Required)