



# Hot Concepts

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## Hearth Solutions: Gas Stoves (Freestanding)

### What are Freestanding Gas Stoves?

Gas freestanding stoves are hearth solutions that, are designed to be stand-alone, modular appliances that can be installed into a wide range of locations in the home. Gas stoves are an attractive, safe, efficient, and convenient way to add "fire" to a room. Over the last several years, gas-burning technology has made great advances in flame appearance and realism to replicate the burn of a wood burning stove. Gas stoves, are available in many different styles and colors to suite almost any room's decor. Stoves today are extremely safe to operate due to enhanced operating systems and a Best Fire installation. High efficiencies and the ability to zone-heat the rooms you spend the most time will help your reduce your home's overall heating costs. When speaking of convenience, gas stoves are operated with a flip of switch or even automated by remote and thermostats. Most stove's do not require electricity to operate and will be there for you when you lose power. Plus, as opposed to wood and pellet, gas burning is less work, has less hassles, and does not leave a mess in the room.

### Why would I purchase a Freestanding Gas Stove?

- To add a gathering/focal point of a space by adding appealing "fire" to your room.
- To utilize a readily available fuel such as natural gas or liquid propane.
- To add an attractive supplemental zone-heater to heat the rooms you spend the most time in.
- To replace and in-convenient, hard-to-use, dirty, or in-efficient wood stove, pellet stove, or older gas stove.
- To add a back-up heat source in the case of a power outage.
- To incorporate into an addition, sun-room, or three-season room as a heat source.
- You may not have enough room for a gas fireplace.

### Typical Projects for Gas stoves:

There are several different locations for a Gas Stove to be installed into your home. The primary consideration when determining the location is the stove's corresponding vent configuration. Review the examples below of the different types of gas stove installations to help to determine your options. For more details on installation basics and gas stove vent requirement

#### Gas Stove - Pictures of Installations:



**Above:** In corner with matching Ivory vent pipe paint. Horizontally vented through sidewall. Standard cap on outside.



**Above:** Horizontally vented with snorkel cap on the outside (not pictured). New hearth pad.



**Above:** Before picture of older wood stove. This stove has been removed and replaced with the gas stove shown to the right.



**Above:** After picture of gas stove with vertical vent connecting to the pre-existing Class A chimney that was installed for the wood stove.

## Installation Basics-Gas Stoves:

Gas Stoves installations consists of five basic components: design of system, setting the stove, installing/connecting a gas supply, installing/connecting the vent system and termination, and calibrating the stove accordingly. Design and installation of a gas stove is highly recommended to be performed by NFI certified gas specialists like Hot Concepts.

- The design stage of the project is the most important as it maps how the remaining steps will be accomplished to achieve the desired result, taking into account all the limitations, restrictions, requirements, and clearances that must be adhered to. The stove size, model, color, position in room, and venting are all finalized during design.
- When setting the stove proper clearances to combustibles set forth by the manufacturer must be maintained, including adding hearth protection under the stove if required.
- Connecting a gas supply to the stove usually requires the installation of additional gas line within the house according to a previously designed specification. A properly designed gas supply line is critical to the safe use and optimum performance of the new gas stove as well as the other gas appliances in the home.
- Installing the vent system to the stove must be performed according to manufacturer's specifications to ensure proper performance and clearance to combustibles. Based on the model stove, there may be several different venting configurations that may be applicable.
- Calibrating the stove to manufacturer's specifications based on the related venting, gas pressures, and environmental conditions will ensure proper performance.

## Venting Requirements - Gas Stoves:

All of Best Fire gas stoves are Direct Vent. Simply put, Gas Stove Direct Vent technology draws the air needed for combustion from the outside of the home to the stove, and exhausts the by-products of gas combustion back outside. This creates one balanced "air-flow-equation" which preserves the quality of your indoor air. More importantly, the air needed for combustion is pulled from the outside, rather than using the air from the room (which you already paid to heat!!). There are several different methods a Direct Vent Gas Stove system can be implemented depending on your home environment. The most common is to use a single co-axial vent pipe system terminated either horizontally or vertically.

The pictures below are intended to illustrate several different direct vent systems to give you ideas on where to place your gas stove. Call or Visit Hot Concepts for assistance from one of our Hearth Specialists.

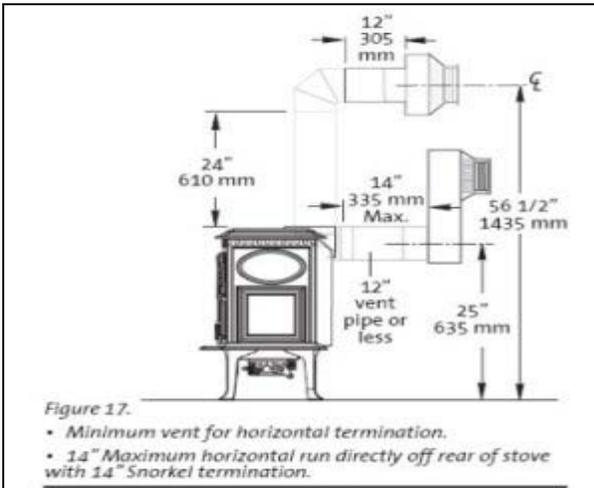
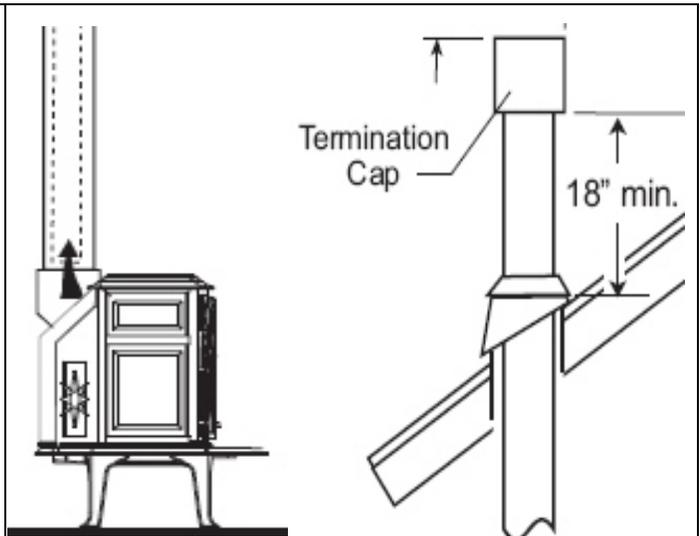


Figure 17.  
 • Minimum vent for horizontal termination.  
 • 14" Maximum horizontal run directly off rear of stove with 14" Snorkel termination.

**Above:** Direct Vent system using a co-axial piping system. Picture shows two minimum horizontal termination vent scenarios. (1) The most common is rising from the stove a minimum distance then turning horizontal. (2) The second is running a maximum distance from the rear and using a snorkel cap on the outside to get the rise.

**Dimensions shown are for illustration purposes only.**



**Above:** Direct Vent system using a co-axial piping system. Picture attempts to show a typical vertical vent system. Picture on the left shows the venting starting to run vertical from the stove. Picture on right shows the vent penetrating a typical pitched roof line.

**Dimensions shown are for illustration purposes only.**

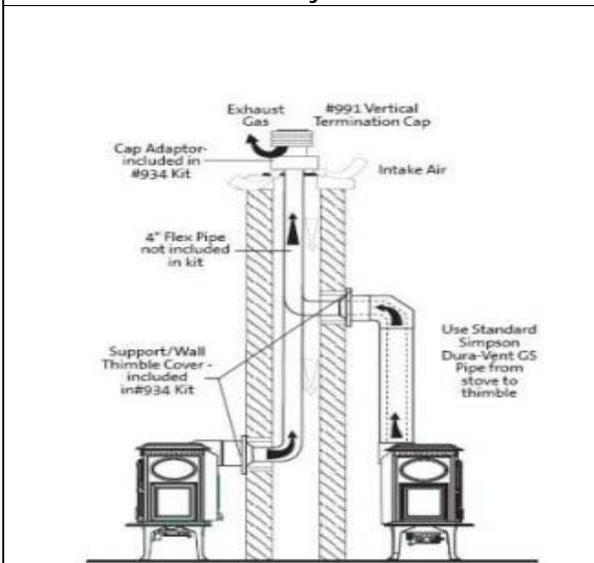


Figure 16. Vent System through a masonry chimney using the Simpson Dura-Vent Chimney Conversion Kit #934. May also be used in listed prefabricated chimneys. Drawing is for illustrative purposes only - DO NOT VENT TWO APPLIANCES INTO A SINGLE CHIMNEY.

**Above:** Direct Vent system for gas stove, using a pre-existing masonry chimney. The intake air is drawn from the air in the flue, an exhaust liner extends to the top of the flue. Adapter is needed.

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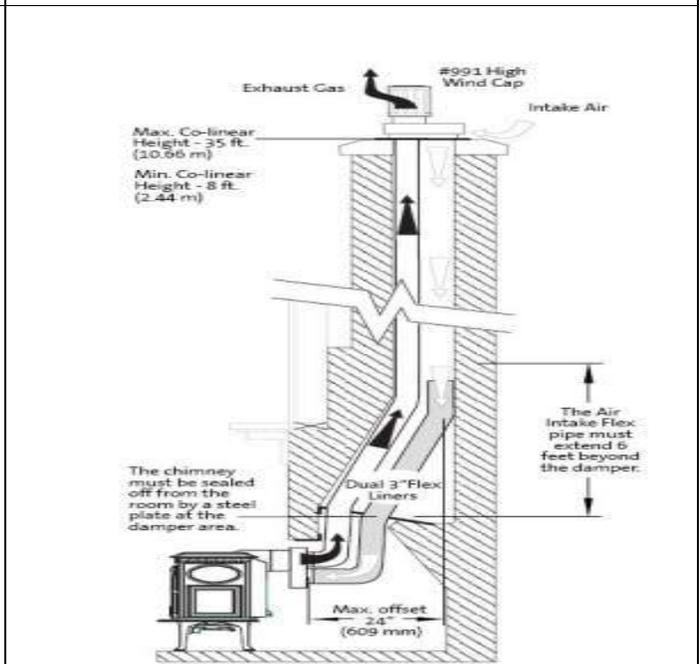


Figure 14. Co-linear Adaptor installed through a masonry chimney. Simpson Dura-Vent components shown.

**Above:** Direct vent system for gas stove set in front of pre-existing masonry fireplace. Uses a co-linear liners, one for intake air one for exhaust, similar to gas inserts. If flue is used for gas stove, nothing else may be vented into flue.

**Dimensions shown are for illustration purposes only.**

Each model stove will have specific clearances, restrictions, and requirements that must be adhered to during installation. For more information about Gas stoves, venting, and installation details, contact Hot Concepts design consultants (718) 979-8300.