

**G**SERIES  
GREENER. CLEANER HEATING SOLUTIONS

# The Clean Leader



BURN  
UP TO  
**50% LESS**  
WOOD



**HeatMaster**™

# comfort and peace of mind



**HeatMaster<sup>SS</sup>** has been providing safe, reliable and efficient heating solutions since 2001. With our manufacturing and distribution centre located in Manitoba, Canada – known for having one of the coldest climates in North America – we truly understand the needs of customers who are looking for cost-effective, high-energy wood furnaces at competitive prices.

# The greener, cleaner choice for home heating

Today, studies show that when burned properly, wood fires remain one of the most efficient and environmentally-sound ways to generate heat because it uses a renewable, abundant energy resource with zero net carbon contribution.

In addition to reducing carbon emissions, which are believed to contribute to the greenhouse effect, burning wood instead of pricy fossil fuels enables homeowners to dramatically lower their energy costs. With a wood furnace, you can live comfortably in your heated home, knowing that your carbon footprint is getting smaller while your spending budget is suddenly growing larger.

When you buy from HeatMaster<sup>SS</sup>, you get comfort, efficiency and the most furnace for your dollar. As an environmental powerhouse, our wood gasification based G Series furnace delivers exceptional heating performance while meeting EPA Phase 2 Qualifications. With a clean, efficient design, the G Series blends leading-edge wood furnace technology with the solid construction, proven craftsmanship and performance standards that go into all HeatMaster<sup>SS</sup> products.

One of the best features of our furnaces is that they burn all-natural materials instead of non-renewable fossil fuels, meaning fewer harmful emissions are released into the environment.

After consulting with one of our dealers, you'll be able to choose the right furnace to meet your needs. HeatMaster<sup>SS</sup> then offers prompt delivery, expert installation and will continue to provide the same standard of after-sales service throughout the life of each furnace. We thoroughly inspect and test every furnace before it leaves our plant and rest assured, we proudly stand behind the quality and efficiency of the products we make with our HeatMaster<sup>SS</sup> Warranty.

With all of the long-term benefits it provides, we believe a wood furnace from HeatMaster<sup>SS</sup> pays for itself within a few short years - giving you cozy warmth and year-round savings.

## The benefits of using a wood furnace

- 1. It's better for your wallet:** Reduces utility costs and virtually eliminates your heating bill.
- 2. It's better for your safety:** Heatmaster<sup>SS</sup> wood furnaces are equipped with all of the safety features you need to keep your family safe and warm.
- 3. It's better for meeting all your heating needs:** Can be used with most existing heating systems and has the ability to heat multiple buildings.
- 4. It's better for the environment:** Burns all-natural fuels which are a renewable energy source, are in abundant supply and are often inexpensive or free. It leaves no net carbon contribution when burned properly!

## Why is 409 stainless steel the best choice for wood furnaces?

When it comes to the selection of which steel to use in the manufacture of our furnaces we feel there is only one choice. 409 stainless steel provides the longest life coupled with the greatest cost effectiveness. Here are a few of its fine qualities:

### Heat Tolerance

Stainless steel can withstand continuous temperatures of 1400° F to 1600° F, twice as much heat as mild steel used in wood furnaces.

### Corrosion Resistance

Stainless Steel has chromium oxide film layered on to keep oxygen from penetrating and corroding the material (rusting). It resists creosote corrosion where mild steel will quickly rot from it.

### Heat Transfer

409 Stainless Steel has the best heat transfer capability of any stainless steel used in wood furnaces.

### Strength

409 stainless steel was designed and developed for high temperature situations like your furnace firebox.

### Thermal Expansion/Warping

409 Stainless Steel outperforms all other stainless steels used in wood furnaces having a very low expansion rate.

	Mild Steel	304 SS	409 SS
Corrosion Resistance	No	Yes	<b>Yes</b>
Heat Transfer	Good	Not Good	<b>Good</b>
Thermal Expansion	Low	High	<b>Low</b>
Continuous Temperature Tolerance	Low	High	<b>High</b>
Cost	Good	High	<b>Good</b>



# G SERIES

GREENER, CLEANER HEATING SOLUTIONS

Our **HeatMaster<sup>SS</sup> G Series** is the most efficient wood furnace we offer. It's an entirely new way to burn wood that reduces wood consumption by up to **50%** compared to a standard wood furnace.



	G100	G200	G400
Firebox (W" x L" x H")	18 x 18 x 33	27 x 28 x 37	29 x 40 x 42
Water Capacity (US Gallons)	100	195	250
Approximate BTU's	120,000	210,000	350,000
Dimensions (W" x L" x H")	36 x 55 x 76	48 x 67 x 82	49 x 78 x 88

## The cleanest, most efficient, easy to use design on the market today

Crafted with premium workmanship and innovative design, our G Series furnaces work with any existing heating system and follow the HeatMaster<sup>SS</sup> standard.

Features include:

- Smoke Free Loading**  
 Stay clean and smoke free when loading your furnace.
- Clean, Maintenance-free Design**  
 No brushing tubes, scraping creosote or shovelling ash. Load and clean your furnace in 5 minutes!
- Approved for Indoor or Outdoor installation**
- Heatmaster<sup>SS</sup> Warranty**  
 We stand behind every furnace we sell with a Lifetime Limited Workmanship and Corrosion Warranty.
- Easy Access Hinged Rear Door**  
 The insulated rear door is built with a unique hinge design which allows for easy access to the rear of the furnace and quick and easy removal of the door if required without the use of tools or hardware.
- EPA Certified**
- Safe Easy-To-Use Dual Firebox Door Latch**  
 For your added protection and safety.
- Heavy Duty Multi-layer Insulation**
- Powder Coat Finish**

## About Gasification

Heatmaster<sup>SS</sup> is proud of its reputation of producing innovative wood heating methods and our G Series wood furnaces are continuing that trend. They operate more efficiently with fewer emissions than other wood furnaces. They can use up to 50% less wood to create the same heat.

### How does it do that?

Wood gas is generated in a high temperature reaction (>700° F) between the wood and a limited amount of oxygen. The heat and lack of oxygen "bakes" the wood, causing the gases in the wood to release in the form of carbon monoxide, hydrogen and carbon dioxide.

The wood gas mixture that is created in the firebox then gets forced through the base of the fire along with any ash that would come with it and burned at temperatures around 2000° F in the gasification chamber. This

creates a very hot, very clean burn which helps you get the most out of your fuel. After the gas is burned, the heat is transferred to the water jacket using the heat exchange tubes. Normal exit temperatures of the exhaust are 250-300 F.

The most notable indicator of effective gasification is the lack of smoke exiting the chimney.

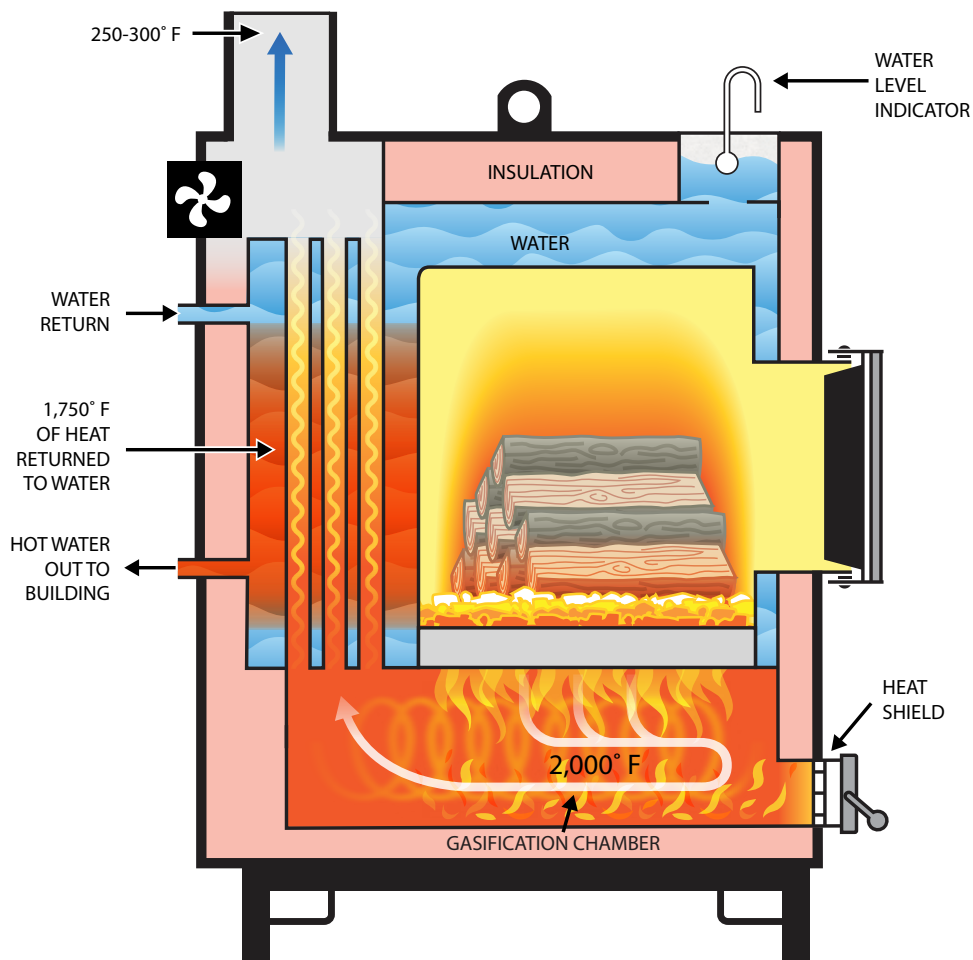
The gasification process creates longer burn times and can reduce wood consumption as much as 50% compared to a standard wood furnace.

### What does it mean for you?

- Less wood cutting
- Less ash removal
- Fewer emissions
- Fewer trips to the furnace
- **Bottom line - more heat for less**

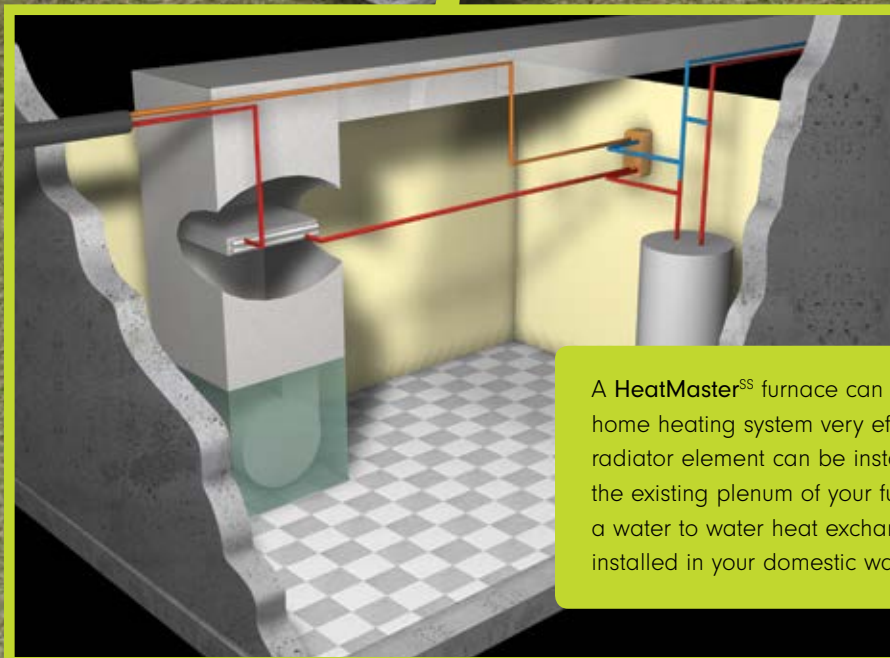
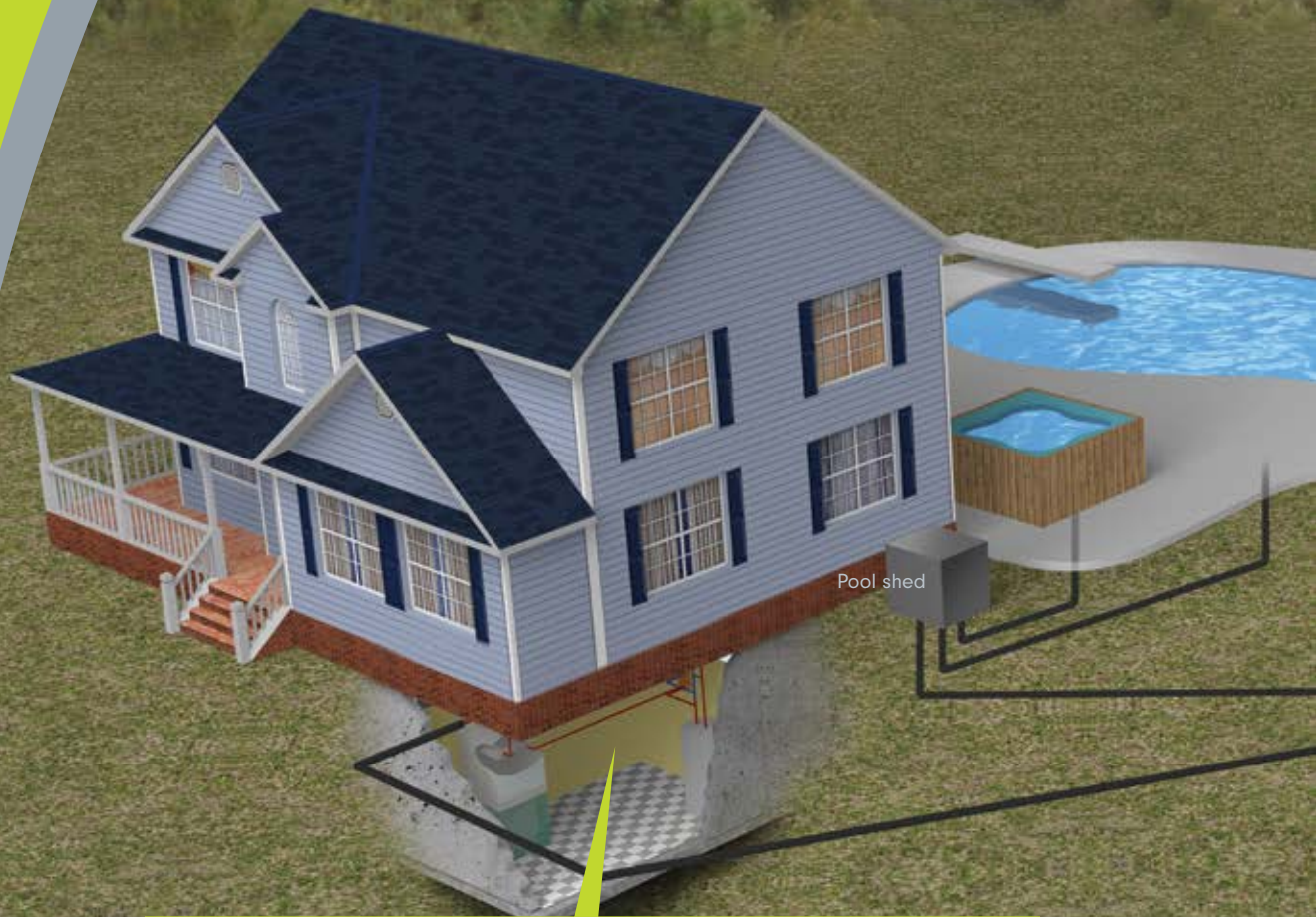


### How it works





# how does it work?



A HeatMaster<sup>SS</sup> furnace can tie into your home heating system very effectively. A radiator element can be installed into the existing plenum of your furnace and a water to water heat exchanger can be installed in your domestic water system.



Eliminate the barriers to safe, comfortable loading! A G Series furnace carries the necessary safety features to be installed indoors or outdoors. This allows you to select the ideal location in your garage, shop or on your yard for your furnace installation to make loading convenient.

### Did You Know?

In addition to supplying heat and hot water to the many traditional sources above, a **HeatMaster<sup>SS</sup>** furnace can also:

- Supply heat for clothes dryers or baseboard heaters
- Act as a snow-melt for driveways
- Provide an unlimited source of hot water
- Heat livestock structures such as dairy and hog barns
- Heat pools, spas and hot tubs



The **HeatMaster<sup>SS</sup>** system is perfect for garages, shops and other outbuildings. It will power an overhead forced air heating unit or in-floor heating using a boiler backup.





HeatMaster<sup>SS</sup> carries a full line of high quality parts for your furnace including pumps, fittings and heat exchangers. For more information on our parts or to arrange product installation please contact your local HeatMaster<sup>SS</sup> dealer.

**HeatMaster<sup>SS</sup>**

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