

HEATMOR™

RESIDENTIAL — AND — COMMERCIAL OUTDOOR FURNACES



THE LONGEST LASTING
AND MOST DURABLE
STAINLESS STEEL
OUTDOOR FURNACE
in the industry.



Lasting Quality & Timeless Design

HEATMOR™ Outdoor Furnaces have been manufactured for over 30 years. Throughout those 30+ years HEATMOR™ has managed to stay in front of the competition with our passion to build the longest lasting unit on the market.

HEATMOR™ stainless steel outdoor furnaces are easy to load, maintain, operate, and are available in a wide selection of colors. Each furnace is designed and proven to outlast mild steel brands up to three times.

Burning with wood and coal is not a new concept. In fact, this old concept is gaining new popularity in many areas with plentiful wood supplies due to its cost effectiveness and low impact on the environment.

Choosing an outdoor furnace is a decision you should only have to make once. At HEATMOR™, we are dedicated to providing you, the customer, a high quality product that will provide your family with many years of consistent, economical, and reliable heat.

Experience the lifestyle, see why Stainless Steel Outdoor Furnaces are the only way to go.



"Tranquil Alliance" by Marv Espe, ©1994

Painted for Gerry Reed, Founder of HEATMOR™

Connection Options



Home



Pole Barn/Shop/Garage



Dairy/Poultry Barns



Domestic Hot Water



Radiant Floor Heat



Commercial/Manufacturing



Pool/Spa



Greenhouses



Snowmelt

Benefits

You will experience considerable savings with your HEATMOR™ furnace. It is designed to work as easily with existing heating systems as well as new construction. The more heating needs you have, the greater the savings. A HEATMOR™ system adds warmth to your life inside and out.



- **LOWER or ELIMINATE** heating bills.
- **NO MESS** inside your home.
- **NO RISK OF FIRE** inside your home.
- **NO WORRY** of carbon monoxide poisoning due to gas fumes.
- **NO INCONVENIENCE** of hauling wood into your home.
- **Making your home more ENERGY INDEPENDENT.**

Stainless Steel

HEATMOR™ has been producing grade 409 stainless steel outdoor furnaces for over 20 years. All furnace components that come in contact with fire or Heat Transfer Fluid (HTF) are manufactured using grade 409 stainless steel. Residential models are manufactured with 10 gauge and commercial models with 7 gauge (600 CSS & 800 CSS).

Prior to 1993, HEATMOR™ manufactured outdoor furnaces using carbon steel. HEATMOR™ chose to begin using grade 409 stainless steel due to its improved oxidation and corrosion resistance versus carbon steel. It was found that outdoor furnaces manufactured using grade 409 stainless steel would last approximately three times longer than furnaces manufactured using carbon steel.



Forced Air Combustion

HEATMOR™ outdoor furnaces have an over/under Forced Air Draft system that blows air above and below the fire. Forced draft furnaces have better heat recovery ability when compared to naturally aspirated furnaces. Forcing air onto the fire in the right places will generate a hot fire faster than a natural draft system. Forced draft will also burn larger wood more efficiently.

Sand Bottom System with Firebrick

HEATMOR™ outdoor furnaces are considered an open-bottom furnace. The bottom of the furnace is the most corrosive part of wood burning furnaces due to the collection of acidic ashes. In order to combat the corrosion issues in the bottom of the furnace, sand and firebrick is used. The sand is packed down in the bottom of the furnace with the Ash Pan and Grate System nestled into the sand allowing for easy ash removal. Firebrick is then used to surround the outer edges of the firebox. The two-inch thick firebrick allows the fire to reach higher combustion temperatures in order to facilitate a more complete burn.



Additionally, the mass of firebrick and sand allows for a heatsink, releasing heat during the shutdown period of the burn cycle (when your furnace's HTF temperature is satisfied).



Removable Ash Auger

The Ash Auger is a tool used to remove ash from the rear of the HEATMOR™ outdoor furnace. This makes for more convenient and easy ash removal. There is no need to let the fire burn out to remove the ashes nor any need to shovel the ashes out of the front door. The Ash Auger is a removable tool, inserted only at the time of ash removal. Once completed, the ash auger is stored outside the furnace.

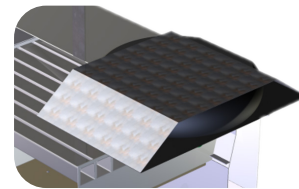


Rapid Recovery HTF Temperature

The HEATMOR™ outdoor furnace's fluid capacity and forced draft fan along with the sand and firebrick bottom make for quick HTF temperature recovery during normal operation. With a quick HTF temperature recovery, there is no need for large fluid capacity.

Non-Pressurized Expansion Bladder

The flexible bladder allows the waterjacket to be semi-closed, which will reduce evaporation and pressure build-up in the system during normal operation. When you add water to the system, you also add contaminants, increasing the chance of scaling and corrosion. The bladder is meant to increase the life of your furnace.



HTF Cooled Firedoor

Having HTF thermo-siphon through the HEATMOR™ fire door virtually eliminates door warpage, important in keeping an airtight system. Using a water-cooled door improves the efficiency of the furnace because it increases the heat transfer area used to pull heat from the fire.

Double Door Construction

The Double Door feature allows preheated air to be drawn into the over/under Forced Air Draft system, increasing the efficiency of the burn. The lockable outer front and back doors, on the HEATMOR™ outdoor furnace, provide an important safety feature keeping children and unwanted guests out of the furnace.



Insulation

HEATMOR™ outdoor furnaces are insulated with fiberglass bat insulation, the same as used in insulating homes. The sides are insulated in R-19 and the top with R-38. The insulation is non-flammable, easily accessible, long lasting and assists in the creation of a well-built efficient furnace.

HEATMOR™ Maintenance

- **ASHES**, it is recommended to clean ashes out of the outdoor furnace every two to four weeks using the Ash Auger System.
- **FLUES**, it is recommended to clean the flues after the first burn of the heating season and once more at the end of each heating season (twice a year).
- **HTF**, at the start of each heating season assure HTF is topped off and again at the end of each heating season. Send a HTF sample to Heatmor once a year.

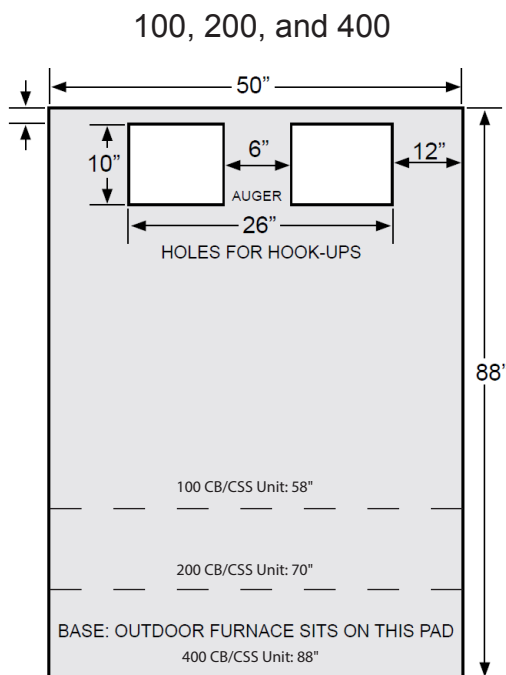
Coal Burner (United States)

CSS Wood Burner (Export Only)

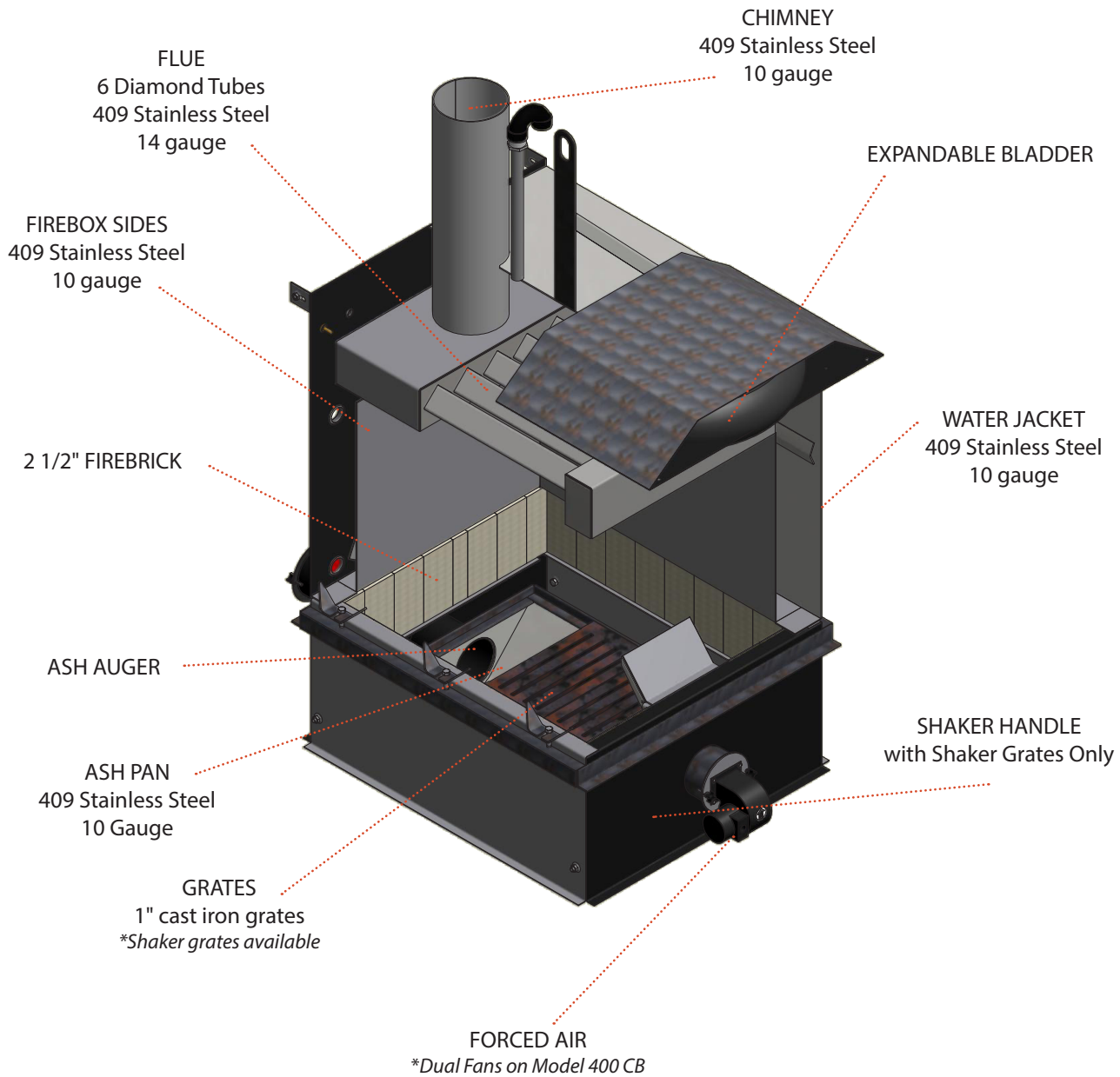
The HEATMOR™ Coal Burner has the same proven functions and features as the standard CSS wood burning furnace, except this uses coal only where as the CSS burns wood.

	100	200	400
LIMITED LIFETIME WARRANTY	YES	YES	YES
WEIGHT (LBS)	1,375	1,599	1,968
OVERALL HEIGHT*	82.5"	82.5"	82.5"
OVERALL WIDTH*	50"	50"	50"
OVERALL LENGTH*	65"	77"	95"
FORCED DRAFT (CFM)	75	150	2 X 150
CHIMNEY DIAMETER	8" or 10" INSULATED	8" or 10" INSULATED	8" or 10" INSULATED
FIREBOX DIMENSIONS	24" LENGTH 28" WIDTH	36" LENGTH 28" WIDTH	54" LENGTH 28" WIDTH
HEATING AREA (SQ. FEET)**	3,000	5,000	10,000
FLUID CAPACITY (US GALLONS)	100	140	180
FIREBOX DOOR OPENING (W x H)	20" x 18"	20" X 18"	20" X 18"
MANUFACTURED USING 10 GAUGE 409 STAINLESS STEEL			

Pad Specifications



Features



Which Coal and Seasoned Wood to Burn?

There are three main types of coal approved for use in a HEATMOR™ outdoor furnace, Pennsylvania anthracite, Eastern Canadian bituminous, and Western Canadian sub-bituminous.

Coal can vary in size by grade. Use "stove" coal or a smaller size. Smaller sizes may restrict airflow and larger sizes may not burn efficiently, if at all.

HEATMOR™ outdoor furnaces are designed to burn well-seasoned cordwood ONLY. Well seasoned wood is wood that has been properly prepared for combustion. Proper seasoning is generally accepted to be wood that has been harvested, split if necessary, and stored for a reasonable amount of time. The ideal moisture content is between 20 and 30 percent.

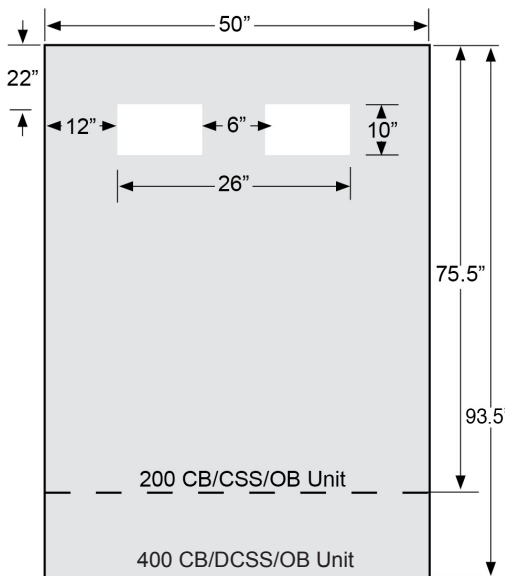
Dual Fuel Burner

The HEATMOR™ Dual Fuel Burner is designed to burn wood/waste oil or coal/waste oil.

CB/CSS/OB	200	400
LIMITED LIFETIME WARRANTY	YES	YES
WEIGHT (LBS)	1,820	2,150
OVERALL HEIGHT*	82.5"	82.5"
OVERALL WIDTH*	50"	50"
OVERALL LENGTH*	80.5"	98.5"
FORCED DRAFT (CFM)	150	2 x 150
CHIMNEY DIAMETER	8" OR 10" INSULATED	8" or 10" INSULATED
SLAB DIMENSIONS	75.5" LENGTH 50" WIDTH	93.5" LENGTH 50" WIDTH
HEATING AREA (SQ. FEET)**	5,000	10,000
FLUID CAPACITY (US GALLONS)	140	180
FIREBOX DOOR OPENING (W X H)	20" x 18"	20" X 18"
MANUFACTURED WITH 10 GAUGE 409 STAINLESS STEEL		

Pad Specifications

200 and 400 CB/CSS/OB



Dual Fuel Hook Ups

- Fitted with Kagi Model 250 KP - 250,000 BTU/hr used-oil burner.
- Capable of burning wood, coal or used oil.
- Requires compressed air (12-15psi).
- Available in 200 CB/CSS and 400 CB/DCSS only.



Color

Customize your outdoor furnace with one of our 20 color options. Colors are similar but may vary, see dealer for exact colors.



Testimonials

- Great, love it! I have owned my Heatmor for 12 years. Would recommend it to anyone. —*B. Hopwood, Mooresville, IN*
- My Heatmor is the best investment I've ever made. The old farmhouse HAS NEVER BEEN as warm as it has been this winter! My wife has been all smiles! I look forward to staying warm for many years to come.

—*David Huff*

- It has been over 15 years and the stainless steel boiler I purchased from you still operates problem free with no issues at all. Friends have been through their first boiler during this period and have had to replace theirs while my Heatmor continues to plug along problem free. Today I emptied the system and refilled it with new antifreeze just because I thought it deserved it after all of these years!

—*Chuck Mock, Little Falls, MN*

Photo credit — *J. Briscoe, Canadian Owner*



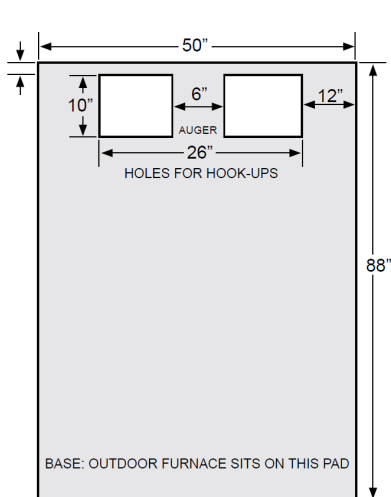
Commercial

HEATMOR™ Commercial Units are a great way to heat your commercial building using cord wood, waste wood, larger logs, or pallets.

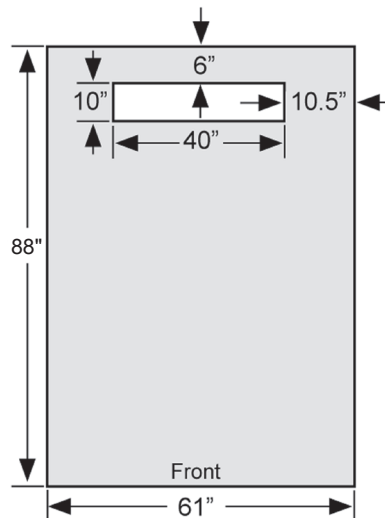
	450 CX	600 CSS	800 CSS
LIMITED LIFETIME WARRANTY	YES	YES	YES
WEIGHT (LBS)	2,200	2,800	5,000
HEIGHT*	82.5"	97"	114"
WIDTH*	46.5"	62"	85"
LENGTH*	95"	95"	95"
FORCED DRAFT (CFM)	2 x 150	2 X 150	1 - 150 PRIMARY 1 - 350 PRIMARY
CHIMNEY DIAMETER	8" OR 10" INSULATED	10"	16"
FIREBOX DIMENSIONS	54" LENGTH 28" WIDTH 36" HEIGHT	60" LENGTH 38" WIDTH 48" HEIGHT	54" LENGTH 69" WIDTH 60" HEIGHT
HEATING AREA (SQ.FEET)**	13,000	18,000	25,000
FLUID CAPACITY (US GALLONS)	210	285	487
FIREBOX DOOR OPENING (W x H)	20" X 18"	30" X 36"	56" X 50"
MANUFACTURED WITH 409 STAINLESS STEEL	10 Gauge	7 Gauge	7 Gauge

Pad Specifications

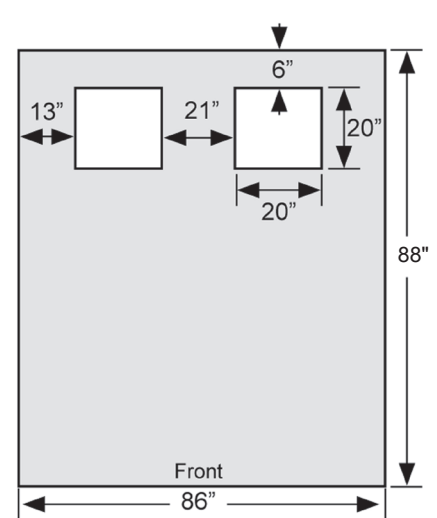
450 CX



600 CSS



800 CSS



* TOTAL OUTSIDE DIMENSIONS **APPROXIMATE FIGURES WILL VARY DUE TO HOME AND CLIMATE CONDITIONS



450 CX



600 CSS



800 CSS

Chimney

Non-Insulated | HEATMOR™ Manufactured

- Residential: 8" diameter x 32.5" tall ID mild steel
- Commercial: 600 CSS: 10"dia x 48"H ID mild steel
800 CSS: 16"dia x 48"H stainless steel



Insulated | Selkirk - Super Pro Series

- Residential: 8" diameter Stainless Steel available in 36" or 48" high



Domestic Hot Water Options

The Domestic Hot Water is used to heat all domestic water needs.

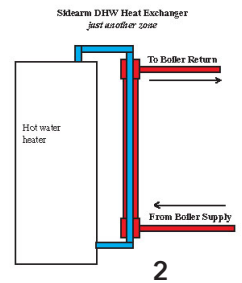
- 1) Internal Domestic Coil
- 2) Side Arm Heat Exchanger
- 3) Water to Water Plate Heat Exchanger



1



3

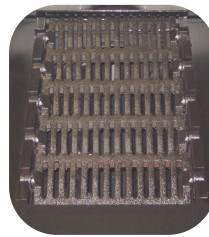


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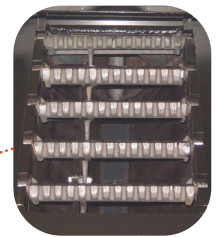
Shaker Grates

For burning certified types of coal only.

Available on all Coal Burners and CSS Wood Burners (Export Only).



Shaker Grates Closed



Shaker Grates Open



Heat Transfer Fluid (HTF)

Heat Transfer Fluid or HTF is the combination of approved water and our Propylene Glycol component. By switching to HTF instead of just any water we have proven that our stoves last longer and function better. Which helps us attain our goal of manufacturing stoves that last a lifetime.

Limited Lifetime Warranty

Providing solid assurance in the exceptional quality, durability, and strength of our products. HEATMOR™ believes that when you buy an outdoor furnace you are making an investment, not a purchase.

The HEATMOR™ Limited Lifetime Warranty covers defects in materials, workmanship, and corrosion - **the most comprehensive warranty in the industry**. The key to researching warranties is reading the fine print. Read the complete HEATMOR™ warranty at www.HEATMOR.com.

What to Burn?

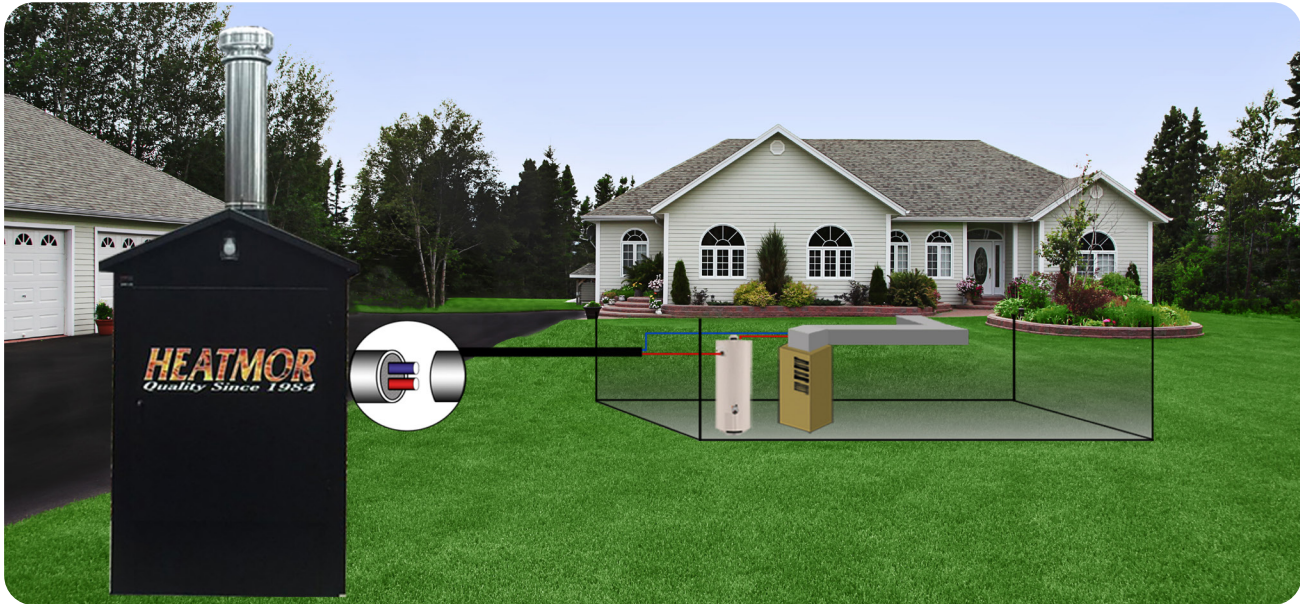
HEATMOR™ Commercial Units are all wood burning and can hold a substantial amount of wood per burn.

- 800 CSS, is also called our Pallet Burner - the door opening and firebox is so large that it can burn whole pallets. A fork lift or tractor can be used to load the pallets directly into the firebox.
- 600 CSS, has a large loading door and fire box. This unit is made for heating barns and shops.
- 450 CX, the most efficient burning commercial unit utilizing the new high efficiency flue design.



How It Works

A HEATMOR™ Outdoor Furnace is installed outside your home, shop, garage, business, and plumbed into your home connecting to the heat exchanger on your existing heat source. The plumbing can be spliced to service a residence, pole barn, business, shop, garage, as well as your domestic hot water.



Fuel Cost Comparison

The amount of heat created or used is measured in BTU's, an average home uses 100,000,000 BTU's per year. Including 25% usage for heating domestic hot water. Based on this total consumption, the following amounts of fuel would be required to produce 100,000,000 BTU's per year.

Using the Fuel Cost Comparison below and your previous heating bills you can determine your future wood consumption, heating costs, and total cost savings.

Heating Method	Cost per Unit	100% Efficiency	90% Efficiency	80% Efficiency	70% Efficiency	60% Efficiency	50% Efficiency	40% Efficiency
Electricity	\$0.12	\$3,517.00	\$3,907.78					
Propane	2.93	3,208.04	3,564.49	\$4,010.05				
Fuel Oil	4.02	2,898.55	3,220.61	3,623.19				
Natural Gas	1.00	1,000.00	1,111.11	1,250.00				
Wood	100.00	500.00	555.56	625.00	\$714.29	\$833.33	\$1,000.00	\$1,250.00
Coal	200.00	800.00	888.89	1,000.00	1,142.86	1,333.33	\$1,600.00	2,000.00

The above prices are in U.S. Funds. These are official energy statistics courtesy of U.S. Government as of June 2015. Adjust the price per unit to reflect current local costs. The above costs are not standard across the U.S. Actual cost savings may vary depending on efficiency of system. Savings shown are not a guarantee of annual cost savings you can expect. Savings could be more or less due to the variability of cost or units of energy used over time.

UL/CSA Compliance

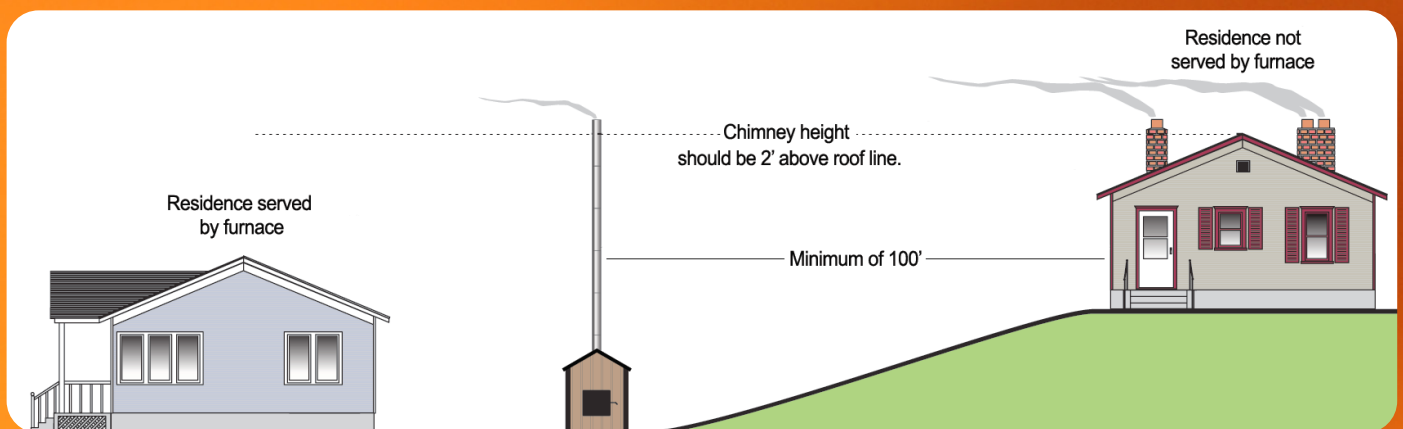
Units are Safety Listed by Omni Test Laboratories
Report # 0275WB011S
Listed to UL2523-2009 and CSA B366.1-11



Best Burn Practices

1. Read and follow all operating instructions supplied by the manufacturer.
2. **FUEL USED:** Only those listed fuels are recommended by the manufacturer of your unit. Never use the following: trash, plastics, gasoline, rubber, naptha, household garbage, material treated with petroleum products (particle board, railroad ties and pressure treated wood), leaves, paper products, and cardboard.
3. **LOADING FUEL:** For a more efficient burn, pay careful attention to loading times and amounts. Follow the manufacturer's written instructions for recommended loading times and amounts.
4. **STARTERS:** Do not use lighter fluids, gasoline, or chemicals.
5. **LOCATION:** It is recommended that the unit be located with due consideration to the prevailing wind direction.
 - Furnace should be located no less than 100' from any residence not served by the furnace.
 - If located within 100' to 300' of any residence not served by the furnace, it is recommended that the stack be at least 2' higher than the peak of that residence
6. Always remember to comply with all applicable state and local codes.

Chimney Height Diagram



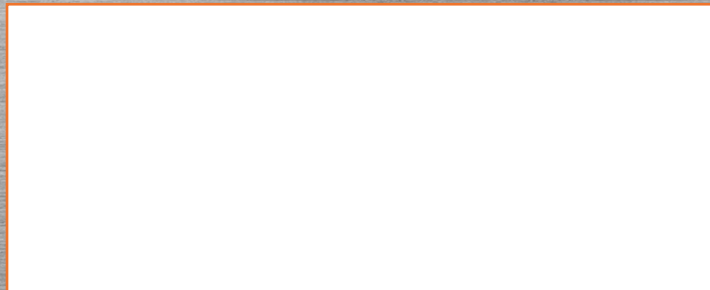
HEATMOR™

STAINLESS STEEL
OUTDOOR FURNACES

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www.HEATMOR.com

YOUR LOCAL DEALER:



Jan 2021

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