

12 Reasons to Buy a Classic



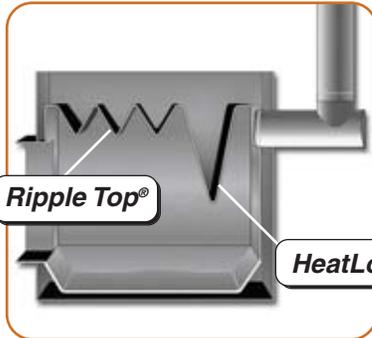
Are you considering purchasing an outdoor wood furnace? Please take a few minutes and read through this information. We will compare feature by feature why Central Boiler® produces the best outdoor wood furnaces on the market and is the industry leader. With this brochure, you will understand 12 reasons why the Central Boiler Classic® Outdoor Wood Furnace is unmatched in efficiency, quality, and reputation.



centralboiler.com

Classic-Revolutionary Design

The Ripple Top® and HeatLock Baffle™ produce maximum heat transfer. This design “raised the bar” and created a new standard for the wood heating industry. The Classic is unmatched in efficiency and ease of use. Our exclusive HeatLock Baffle creates a secondary burn area where gases are trapped in the top of the firebox for optimum combustion. A water jacket surrounding the entire firebox allows heat transfer from all sides including the coal bed. The chimney exits out the rear of the firebox eliminating corrosion competitors experience from top-exiting chimneys.

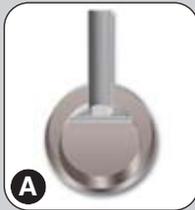


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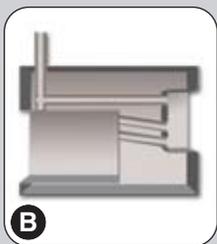
Ripple Top®

HeatLock Baffle™

Other Designs-Inefficient Heat Transfer

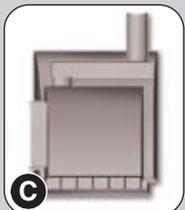


Top exiting chimneys do not permit adequate time for gases to complete the combustion process and maximize heat transfer. Top exiting chimneys also allow moisture to enter around the chimney pipe causing corrosion on the exterior of the water jacket. This design uses outdated heat transfer tubes that make cleaning difficult and may result in corrosion. A cylindrical firebox may collapse against pressure from surrounding water.



Large exterior water jacket surface areas result in excessive heat loss to the outdoors. The firebox is undersized in relationship to the water jacket and makes for very short burn times. Small exhaust flues necessitate a forced draft. These small flues require constant cleaning for the furnace to operate.

There is no secondary burn chamber as the transition in the back of the furnace does not maintain a high enough temperature to support combustion.



This is another competitor's design utilizing a top-exiting chimney that pulls the heat out of the firebox before heat can be transferred to the water. Again, because of inherent problems associated with top exiting chimneys, the water jacket may experience corrosion. The exhaust flue tube, like above design, collects creosote and makes cleaning awkward. The bottom of firebox provides no heat transfer area and is filled with grates, sand or gravel.

Classic-Insulated Cast Iron

Featuring a durable design, the Classic offers an insulated cast iron door that is built to last. The Classic's Cam Loc® door closure allows for easy opening and ensures a tight, well-sealed closure.



Cast Iron Door

Cam Loc®

Natural Draft

Other Designs-A Variety of Shortcomings

There are a multitude of door problems plaguing other outdoor wood furnaces. Some of these include cumbersome door latch operation, warping, poor insulation techniques and inadequate sealing.



Awkward door location makes lighting a fire, loading wood, and cleaning out of ashes with a shovel (when the auger fails) a hassle.



This design has several drawbacks. The outer door attempts to reduce heat loss with extremely low R-value insulation. Rubber hoses connected to the water filled inner door continually bend and can crack or fail causing damage to the furnace.

The door in this example is extremely heavy and is cumbersome to open, close, and latch. This design allows wood and coals to spill out of firebox when opened. Also the door seal is poorly designed.

Classic-Rear Exiting & Insulated

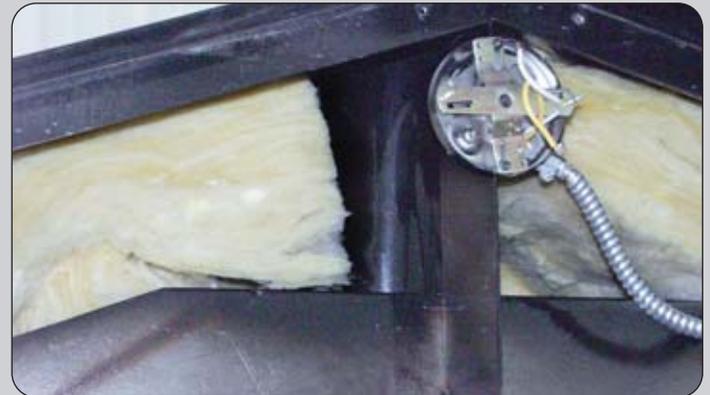
The Classic's chimney exits the rear of the furnace eliminating the roof leakage associated with top exiting chimneys. A large exhaust passage with removable cleanout reduces maintenance and allows natural draft to operate properly. This certified, factory-built chimney is insulated to eliminate condensation and is tested to 1800°F. The standard 8-foot length improves draft and efficiency.

**Other Designs-Top Exiting & Prone to Leaks**

This illustration shows a chimney exiting out the top of a furnace through the tin roof. With this design, the high chimney temperature causes the caulking to loosen or burn off. This results in moisture penetrating the enclosure causing corrosion to the water jacket, chimney base, and a depletion of the fiberglass batt insulation's R-value.

Classic-Sprayed on Urethane Foam

To assure the heat stays in the water jacket, Central Boiler® uses the most advanced insulating material. Spray on urethane is the best type of insulation available. It is waterproof, airtight, will not settle or shift, and has the highest R value available per inch of any insulation. Central Boiler applies a layer of up to six inches around the water jacket. The Classic's sprayed on urethane insulation will not break down and is rated for temperatures that far exceed that of the water jacket operating temperatures.

**Other Designs-Batts and Gaps**

Many other manufacturers offer fiberglass batted insulation. Fiberglass batts are inefficient, allow air to blow through, and leave gaps at the joints. This type of insulation is usually placed or wrapped loosely around the water jacket and allows heat to escape and create condensation. In addition, most of these furnaces work in conjunction with top-exiting chimneys. Once the caulking burns away, the insulation will be soaked with rain and moisture.

Classic-No Moving Parts

No gimmicks --nothing to break or stick. An ergonomically friendly design makes ash removal simple --out the front door with a shovel. The large door and angled ash-pan allow hassle-free clean-out.

**Other Designs-Hassle and Mess**

Other companies continually make the simple procedure of cleaning ashes from the firebox a difficult task. Augers, grates, drawers, and removable ash pans all have three things in common; 1.) moving parts that break down 2.) hassle 3.) mess. In the above pictures, Figure F uses an auger and grate ash removal system. Frequently the outlet is buried in snow or ice that needs to be shoveled or chipped to be accessed. This is only the beginning. The user must continually walk back to the firebox door to push the ashes through the grates. Frequently, the auger will jam with coals or nails. Figure G features a drawer over 6 feet long that weighs about 45 pounds empty and can weigh up to 100 pounds when full. These "features" create more work and less convenience.

Classic-Higher Standards

Central Boiler® outdoor wood furnaces are constructed from high quality materials. Top grade carbon steel (CL series) and mill certified "Titanium Enhanced" Stainless Steel (SCL series) ensures that all Classic furnaces are constructed from premium grade materials. State-of-the-art CNC machines cut and form the material with unmatched precision. At Central Boiler, higher standards and superb manufacturing techniques result in a proven end product.

**Other Brands-*Caution!***

Picture of 304 stainless from actual outdoor wood furnace
Some outdoor wood furnace manufacturers use improper manufacturing techniques. For example, welding dissimilar metals together. This manufacturing practice creates electro-chemical reactions in an outdoor wood furnace environment resulting in premature corrosion failures. Another manufacturer uses unsuitable metals --such as 304L stainless, referred to by some as "dairy grade." 304 is suitable in a number of applications but not outdoor wood furnaces. Metallurgy consultants advised Central Boiler that 304 grades of stainless are not a suitable choice for outdoor wood furnace applications. In the early 1990s, Central Boiler's Research and Development testing confirmed 304 grade failures within 4 years (as predicted). For more information on stainless steel comparisons visit www.centralboiler.com/stainless.html.

Classic-Unmatched

Central Boiler® has been building Classic outdoor wood furnaces since 1984 and has grown to be the largest manufacturer of outdoor wood furnaces in North America. We are a stable company that believes in the Classic. Through our warranty we pass that confidence on to you, the consumer. The Classic has a 25 Year Limited Warranty available, which includes a 10 year limited corrosion warranty, which is the best in the industry. Central Boiler's dedication to quality products and customer satisfaction is what makes this outstanding warranty possible.



When looking for an outdoor wood furnace, we encourage you to look closely at the different warranties that manufacturers offer. We are confident that you will find the Classic's warranty is the best. Central Boiler's warranty is just another illustration of our commitment to quality and why the others are fighting for a distant second place.

Other Brands-Exclusions & Illusions

The "solid protection" offered in the warranties of other manufacturers do not reflect the same confidence in their product as the Central Boiler warranty does. Here are some examples of where they fall short: One particular manufacturer requires the user to send water samples into a certified lab twice a year or the warranty is void. Some manufacturers completely exclude corrosion from their warranty. One manufacturer that offers an auger and grate ash removal system only warrants it for one year. Many cover manufacturing defects for as little as three years and most other warranties do not cover labor costs.

Classic-High Efficiency Backup

Model CL 6048
With Dual Fuel Burner Installed



You are now able to order a dual fuel ready furnace that allows an LP, NG or fuel oil burner to be installed. This option includes four modes of operation; Wood Only, Clean Start, Dual Fuel Backup and Fuel Oil/LP/NG. Laboratory tests have shown efficiencies over 85%. The Clean Start

mode allows the Dual Fuel burner to operate for a short period of time to immediately create secondary combustion within the Ripple Top® and HeatLock Baffle™ firebox design. In the Dual Fuel Backup mode, the burner will automatically fire itself when the wood supply in the firebox is depleted, keeping your home warm even if you are not there to load wood into the furnace. This flexible Dual Fuel system allows you to adapt the furnace to your individual heating needs.

Fuel oil must be of proper viscosity to operate correctly.

Quality and Durability are Built into Every Classic Model

Research and Development form a very important part of Central Boiler, Inc. In 1984, the design of the original Central Boiler outdoor wood furnace was developed. Since then quality and innovation have been an ongoing goal of the Central Boiler Research and Development team. Constant testing, continued improvement, and the desire to create the best, drive a dedicated group of highly skilled engineers and technicians. As a result, Central Boiler has a reputation for producing a high quality and efficient product and has grown to be the largest manufacturer of outdoor wood furnaces in North America. Over the years, they have developed many industry firsts including the exclusive Ripple Top® design,



HeatLock Baffle™, and a long awaited reliable dual fuel system. The talented R&D team develops and tests products before the changes reach the assembly line. You as a consumer can be assured that the testing is done in R&D –not on the final product. The Central Boiler R&D Department has the most complete testing laboratory in the outdoor wood furnace industry, which is equipped with state-of-the-art equipment and the latest in technology. This facility has the ability to collect and analyze a wide range of data, including emissions and efficiency. Central Boiler's R&D is responsible for ensuring that all products can be used safely. The R&D team works closely with third-party organizations, such as Underwriters Laboratories (UL) and OMNI-Test Laboratories Inc., to have products tested and listed for safety. At Central Boiler, research, development, testing and refining is a part of the everyday process –not a one-time event.

Combustion Laboratory shown with efficiency and emissions data collection equipment



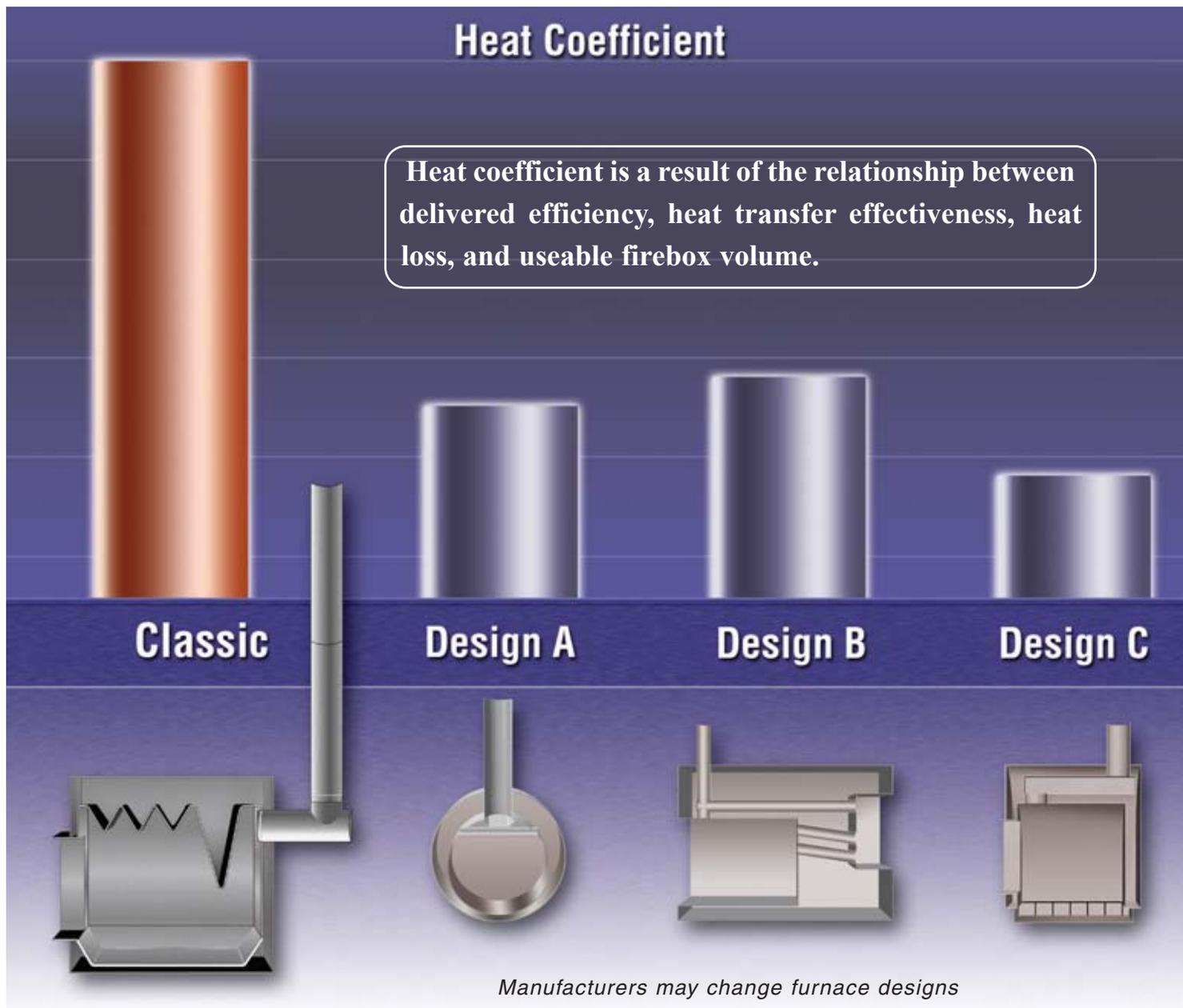
Don't Be Mislead by Inaccurate Comparisons

Central Boiler is the company that sets the benchmarks for the outdoor wood furnace industry. As a result, many other manufacturers continually compare their furnaces to the Classic. However flattering, this can be confusing and misleading for customers. When evaluating different furnaces, beware of inaccurate size comparisons. Some manufacturers stress water capacity. An excessive capacity of water doesn't necessarily improve furnace performance. In fact, when combined with a small firebox volume, it leads to a

decreased burn time and increased heat loss. Others have a water volume that is too low for safe operation. The Classic provides a proven balance between firebox volume and water capacity for optimum performance and safety. Another comparison inaccuracy is pricing. When competing for price, others will often quote a furnace with a smaller heating capacity. If you receive a quote from a competitor that is significantly lower than a quote on a Central Boiler furnace, most likely you are comparing furnaces of a different size.

Heat Coefficient

Heat coefficient is a result of the relationship between delivered efficiency, heat transfer effectiveness, heat loss, and useable firebox volume.



Manufacturers may change furnace designs

Even though some furnaces may appear similar in size, they don't compare equally to the Classic for delivered performance.

Fully Stocked and Ready to Ship



When it comes to installing your outdoor wood furnace, we carry a complete line of parts and accessories. Central Boiler has dedicated thousands of square feet to radiant heat components, pumps, water-to-air and water-to-water heat exchangers, air handling cabinets, radiant baseboards, flange kits, Central PEX®

tubing, manifolds, thermostats, zone valves, ball valves, and much more. Our dealer network can access all of these components with FedEx, Spee-Dee, UPS and other carriers for timely delivery in order to serve you better.



CLASSIC

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Consider location and direction smoke may travel with prevailing winds before installing your furnace.

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American Craftsmanship and Pride

Central Boiler has been building outdoor wood furnaces in Northwestern Minnesota since 1984. With unsurpassed quality and commitment, Central Boiler, Inc. has become synonymous with wood heating and has subsequently grown to be the largest manufacturer of outdoor wood furnaces in North America. At Central Boiler we believe quality products are a direct result of qualified individuals working together for a common accomplishment: A high quality finished product with an economic benefit for the consumer.



Thank you for taking the time to look over this information. If you have further questions about our products, please talk to your local Central Boiler dealer or log onto centralboiler.com, and reference the dealer locator. At Central Boiler we are committed to you the customer, the environment and your family's warmth, comfort and safety.

Your Authorized Central Boiler Dealer