



**IR** Ignition Ready

# CENTRAL BOILER **E-CLASSIC**<sup>®</sup>

*Outdoor Wood Gasification Furnaces*

*"A totally renewable heat source"*

Up to **\$300\***  
Federal Tax Credit  
See back page for details

[CentralBoiler.com](http://CentralBoiler.com)

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### Welcome to Central Boiler

Central Boiler was established in 1984 and is North America's largest manufacturer of outdoor wood furnaces. We make it our goal to provide our customers with the finest outdoor wood furnaces available anywhere. For you as a consumer, wood heat offers many advantages. Wood is renewable, inexpensive, carbon neutral and often free. Conventional sources of heat such as propane, natural gas, fuel oil and electricity deplete our irreplaceable fossil fuels. They are also subject to constant price fluctuations. The E-Classic outdoor wood gasification furnace provides a heat source free of foreign nation influence and "the grip of big oil." It takes the age-old idea of heating with wood and modernizes it. By keeping the fire outside the home, the E-Classic eliminates the dangers and mess associated with traditional indoor wood stoves. The E-Classic uses a three-stage combustion process to burn wood so completely that combustion efficiencies approach 100%. With the self-cleaning heat exchanger, the E-Classic produces extremely low emissions per Btu of heat delivered and is one of the cleanest ways to heat with wood. Our E-Classic offers you an alternative that will save you money. This brochure will provide answers to questions you may have about our clean, efficient approach to wood heat. Please browse through this brochure to learn how you can benefit from an E-Classic outdoor wood gasification furnace for your home or business.

### The E-Classic Can Work for You

The E-Classic outdoor wood gasification furnace is located outside, typically 30 to 50 feet (but as far as 500 feet) away from your home or business, and works with any existing heating system. A water jacket surrounds the furnace firebox and heat exchanger. Heated water is circulated to the home or building through insulated underground pipes. Water-to-air or water-to-water heat exchangers or direct circulation conveys the heat into the structure's forced-air furnace, boiler or radiant floor heating system. This allows for normal thermostatic control for safe, even, clean and comfortable heat. The ability to heat multiple buildings and water can eliminate your heating bills. Outside burning removes the threat of devastating chimney fires, dangerous carbon monoxide or oxygen depletion which affects your indoor air quality. It also eliminates the smoke, ashes, odors and soot buildup on walls and ceilings inside your home that indoor burning creates.



# System Illustration



E-Classic  
Model 1400

Heating with a Central Boiler outdoor wood furnace may cut your carbon footprint in half.  
Compared to fossil fuels

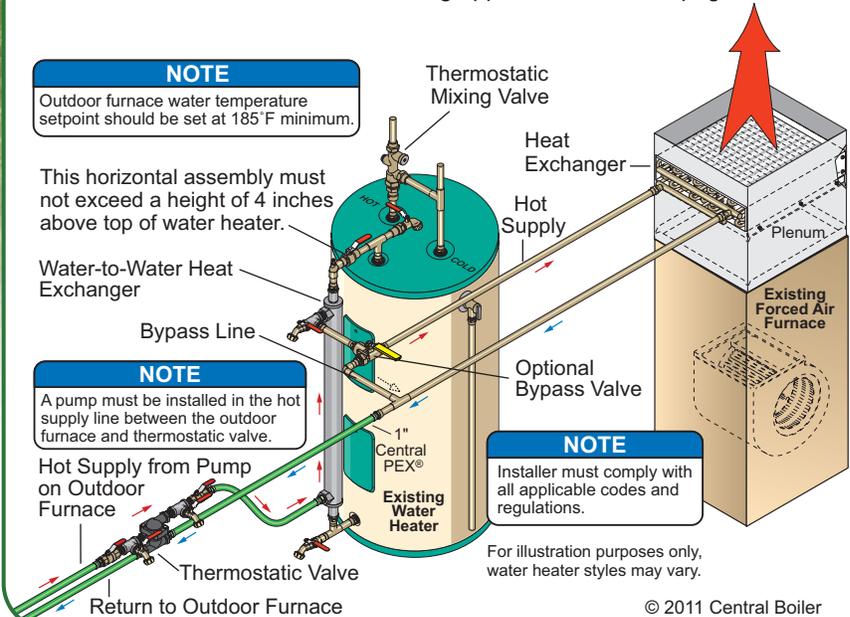
### Testimonial-

"I recently bought an E-Classic from a local dealer. When the heater arrived I was skeptical that it could heat my entire house. My home is 8000+ square feet. Well, I'm happy to say I was wrong. This thing is amazing. In the dead of winter I was burning about \$1600 a month in heating oil and propane to heat my house and hot water. I now have more hot water than I know what to do with and my cost savings are out of this world. I know this sounds too good to be true, but it is."

Thad L., Alaska

### Forced Air System with Heat Exchanger

For a closer look at other heating applications, refer to page 11.



# Cutaway View

CENTRAL BOILER  
**E-CLASSIC**

- 1 Charge Tube** - Super-heated air is injected and mixed with the hot gases from the primary firebox and starts the secondary combustion process. No catalytic device needed.
- 2 Large Reaction Chamber™** - Final combustion occurs in the Reaction Chamber where extremely high temperatures aid in complete combustion. The Reaction Chamber features a large, hinged door for easy ash removal.
- 3 Power Ignition** - The furnace can be fitted with an optional propane burner which allows for push-button automatic gas-fired wood ignition. This provides easy starting and automatic relighting of the fire if needed. Natural Gas conversion kit available.
- 4 EPA Hangtag** - The E-Classic 1400, E-Classic 2400 and E-Classic 3200 are all U.S. EPA Phase 2 Hydronic Heater Program qualified.
- 5 Urethane Foam Insulation** - Insulation is sprayed on and forms a 100% airtight, waterproof seal around the water jacket. Insulation allows the water to hold its temperature longer, which means less wood consumption. This is the same type of insulation that is used on high efficiency water heaters.
- 6 High Capacity Water Jacket** - Provides a balance between firebox volume and water capacity for optimum performance and safety. Continues to supply heat after the wood load is depleted.
- 7 Insulated Chimney** - Two 4-foot, insulated chimney sections are supplied. Additional sections are available for extending the chimney when needed.
- 8 All-Weather Steel Siding** - All siding is overlapped for tighter weather seal. All panels and corners are powder coated for high durability.
- 9 Bypass Door** - Redirects exhaust when refueling.
- 10 LED Lights (Photo Electronic Controlled)** - The new long-lasting, energy-efficient LED night lights save money and enhance safety. They illuminate the inside of the firebox and the front and sides of the outdoor furnace and can be conveniently set to automatically turn on at night.
- 11 Xtract™ Heat Transfer System** - Transfers the heat from the exhaust to the water during the final combustion phase and before the exhaust exits the chimney.

Specifications and design may change without notice. Talk to your local dealer about proper furnace sizing.

E-Classic 2400  
Model

**IR** Ignition Ready

## Four color combinations to complement your landscape



Realtree AP™ Camo  
and Bronze



Green and Bronze

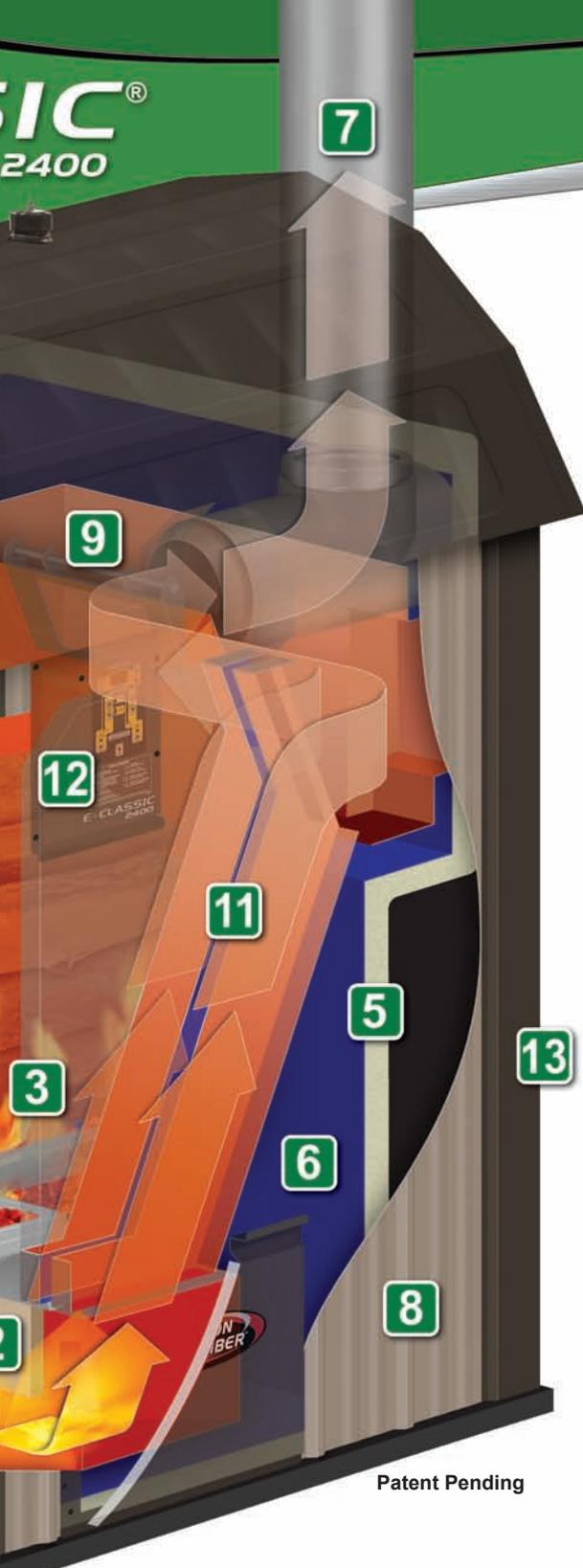


Charcoal and Bronze

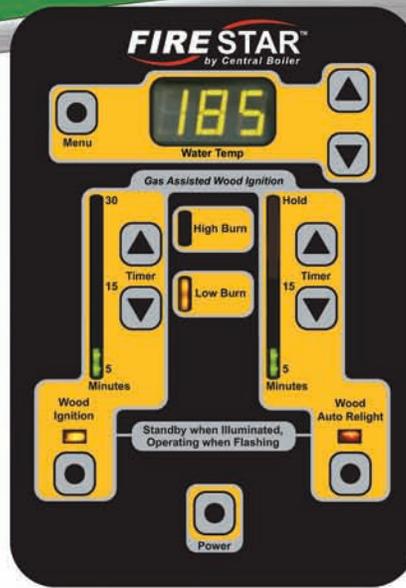


Taupe and Bronze

Color selections are close representations but are limited due to print variations.



7



**12 FireStar™ Electronic Controller**  
(standard on all Ignition Ready models)

Provides user with easy operation of the furnace with just the touch of a button. The controller automatically adjusts the primary and secondary air which optimizes the gasification process allowing the furnace to be more efficient and cleaner burning. When the Power Ignition Kit has been installed on the furnace, the Wood Ignition and Wood Auto Relight functions provide easy lighting and automatic relighting of the fire if needed.



**13 Rear Access Panel**

Central Boiler designed the E-Classic for convenient installations. The E-Classic 2400 (shown) is plumbed for up to three pumps. With the E-Classic 1400 and the E-Classic 3200 up to two pumps can be installed. The rear access panel can be easily removed and provides convenient access to the power disconnect, draft fan and pumps. The access panel can be locked for safety and security.

13



**14 Triple Insulated Lockable Firebox Door**

Central Boiler engineers all of its outdoor furnace doors with special attention to fit, function and ease of use. They are constructed from high quality materials and are built to last. The E-Classic features a lockable firebox door that is stylish, ergonomically designed and features a large opening for easy loading.



The heavy-duty door handle is durable and easy to use. The door is triple insulated to hold the heat in the furnace for maximum efficiency. All parts are powder coated for high durability. The E-Classic's Cam Loc® door closure ensures a tight seal each time the door is closed.

Patent Pending

Tested & Listed By **O-T-L** Portland Oregon USA  
C US  
OMNI-Test Laboratories, Inc.  
Safety tested and listed



### Specifications

E-Classic 1400 Ignition Ready Model  
 Door . . . . . 18.5" x 18.5"  
 Firebox . . . . . 24"W x 32.5"H x 32"L  
 Weight . . . . . 2,085 lbs.  
 Water Capacity . . . . . 195 Gallons  
 8-Hour  
 Output Rating . . . . . 107,459 Btu/hr\*  
 Maximum Output . . . . . 209,316 Btu/hr\*



### Specifications

E-Classic 2400 Ignition Ready Model  
 Door . . . . . 22.5" x 28.5"  
 Firebox . . . . . 26"W x 43.5"H x 36"L  
 Weight . . . . . 2,925 lbs.  
 Water Capacity . . . . . 340 Gallons  
 8-Hour  
 Output Rating . . . . . 186,453 Btu/hr\*  
 Maximum Output . . . . . 260,486 Btu/hr\*

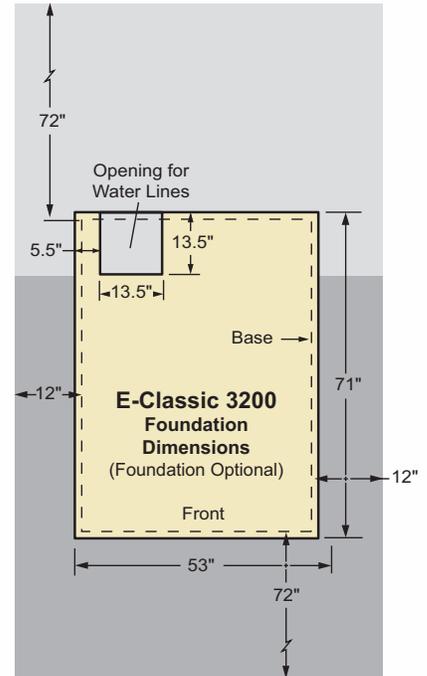
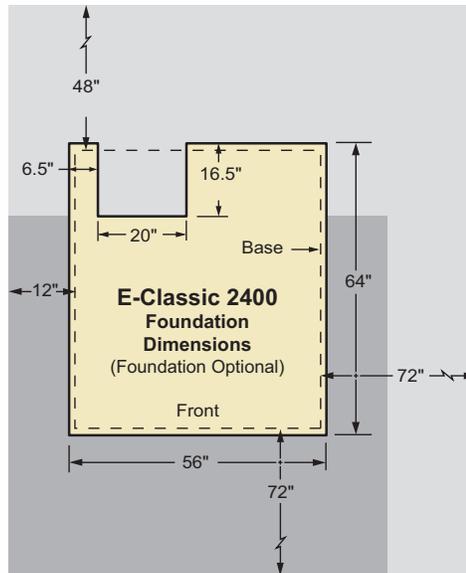
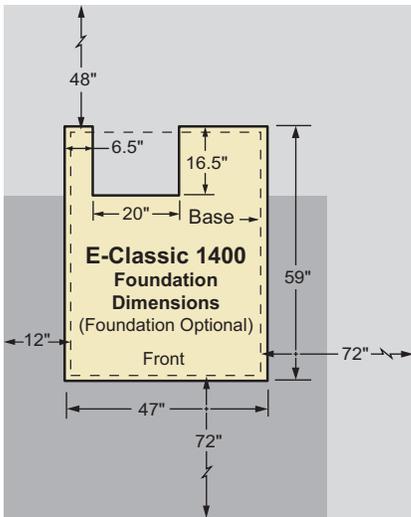


### Specifications

E-Classic 3200 Ignition Ready Model  
 Door . . . . . 22.5" x 28.5"  
 Firebox . . . . . 30"W x 48"H x 40"L  
 Weight . . . . . 3,050 lbs.  
 Water Capacity . . . . . 410 Gallons  
 8-Hour  
 Output Rating . . . . . 261,506 Btu/hr\*  
 Maximum Output . . . . . 305,777 Btu/hr\*

### Foundation Dimensions

Outdoor furnace must be installed on a noncombustible surface or foundation that incorporates an enclosure that will prevent supply and return lines from possible exposure to sunlight, fire, or physical damage that may be caused by an occurrence outside the outdoor furnace enclosure. Foundation may consist of concrete, crushed rock, or patio blocks.



- Recommended maintenance clearances
- 2" rigid foam insulation (optional)

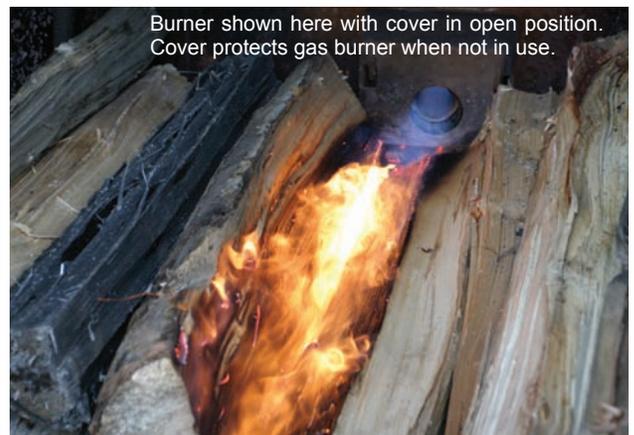
Foundations dimensions are 1-1/2 in. beyond the outside perimeter of the base. Must be installed in accordance with all applicable codes and regulations.

## Optional Gas-fired Wood Ignition Kit

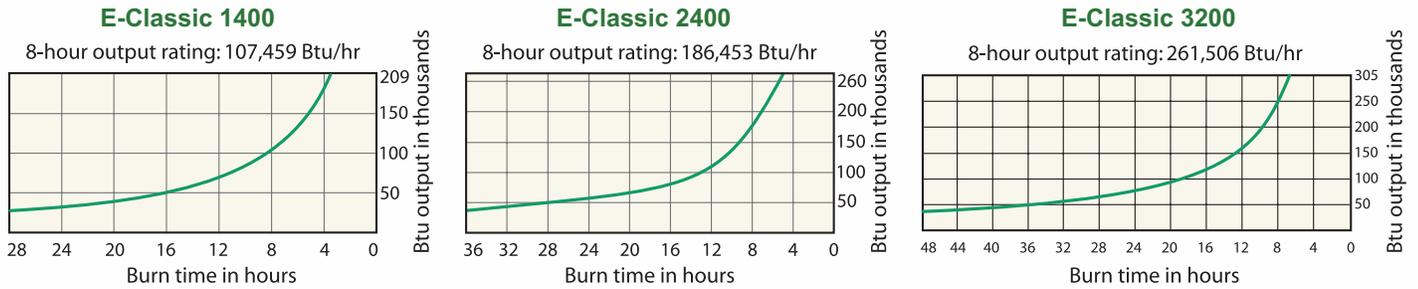
**Provides easy starting and automatic relighting if needed.**

Central Boiler, known for their innovations in wood heating technology, has developed an optional Power Ignition System for use with Ignition Ready E-Classic outdoor wood gasification furnace models. Ignition Ready models can be fitted with the propane burner. This system allows for push-button automatic gas-fired wood ignition and provides easy lighting and automatic relighting of the fire if needed. This convenient system allows you to adapt the furnace to your needs. The E-Classic 1400, E-Classic 2400 and the E-Classic 3200 are all Ignition Ready models.

Optional Power Ignition Kit for Ignition Ready furnaces is easy to install without modifications and installs in just minutes. Propane burner is standard. Natural gas conversion kit available.

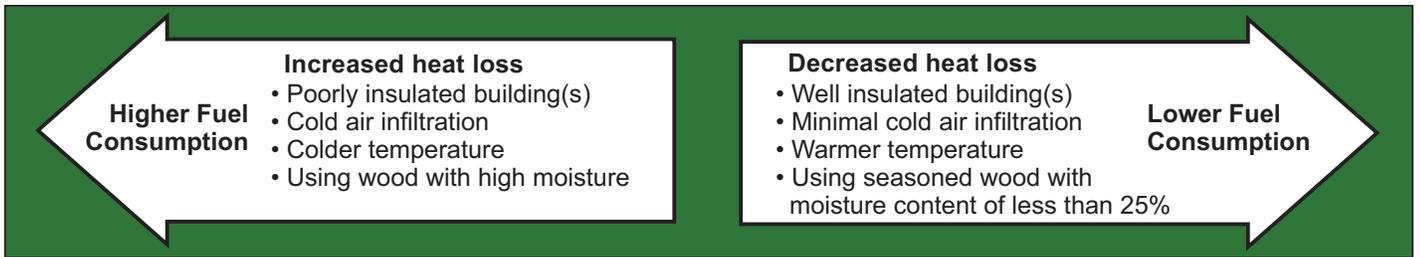


## How Btu Output Affects Burn Time



Based on EPA output ratings. Actual Btu output and burn time will be affected by the type of wood burned, its moisture content and other factors.

## Factors that affect your fuel burn rate



## Furnace Sizing Worksheet - Using Previous Heating History Including Water Heater

Fuel Type	Fuel Oil	Propane	Natural Gas	Electricity	Wood†
Units	gallons	gallons	cubic feet, therms	kilowatts	cords
Units per Month					
Multiplier	x 1.18	x 0.78	x 0.0087/cu.ft x 0.87/therm	x 0.037	x 150
Sizing Value					

### New, Well-Insulated Homes & Buildings††

New well-insulated buildings with R28 walls, R40 ceilings, insulated basement walls. Normal sizing allows for one picture window and one patio door. Calculation does not allow for extremely large glass or air exchange heat losses. Homes that are not well insulated are not applicable in this calculation. Use previous heating history to determine sizing.

We recommend you complete a heat loss estimate (e.g., Hydronics Institute - form 1504WH - whole-house heat loss).

Total sq. ft.	
Multiplier	x 0.06
Total Sizing Value	

### Total Sizing Value

### Furnace Suggested Sizing Range

E-Classic 1400	0-475
E-Classic 2400	250-710
E-Classic 3200	500-1800

Compare your **Total Sizing Value** to the **Suggested Sizing Range** for the listed models.

† Full cords of medium to high-quality wood.

†† Improperly insulated radiant slab heating can dramatically affect sizing requirements and heat load.

Be sure to consult your dealer when sizing. Previous heating efficiencies and heat loss need to be considered when sizing a furnace. This is only a guideline.



# Room Fan Convectors and Panel Radiators

A perfect solution to warm up those cold spots in your home. Whether it is your entry, kitchen or patio door area these radiators and fan forced hydronic heaters will provide comfort that's efficient, quick and easy to control. They are quiet, elegant, stylish, and designed to blend in, making the best possible use of space.



## Steel Panel Radiators

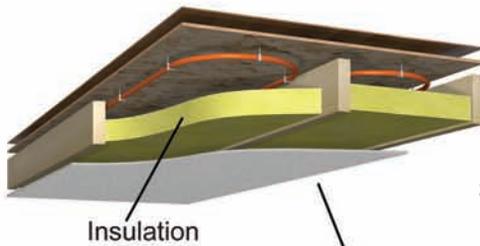
Will keep most any room comfortable.



## Fan Convectors

All-around comfort that's quick and easy to control.

## Multi Zone In-Floor Installation



Central Boiler outdoor wood furnaces can be used in a variety of heating applications.



Closed-cell Polystyrene Thermal Insulation

# Parts and Accessories



## A complete line of parts and accessories

For the maximum performance and life of your furnace, always insist on using Central Boiler authorized system parts and accessories.

There is no need to chase from here to there for your parts, accessories and maintenance tools. Central Boiler has them all. Central Boiler has thousands of square feet of space dedicated to inventory which our dealer network may access. Overnight, second day, three day, and ground delivery are available to our dealers six days a week.

To locate your nearest Central Boiler dealer, either visit our website at [CentralBoiler.com](http://CentralBoiler.com) and use the dealer locator or call 1-800-248-4681.

## Sample Parts List For Forced Air Heating System

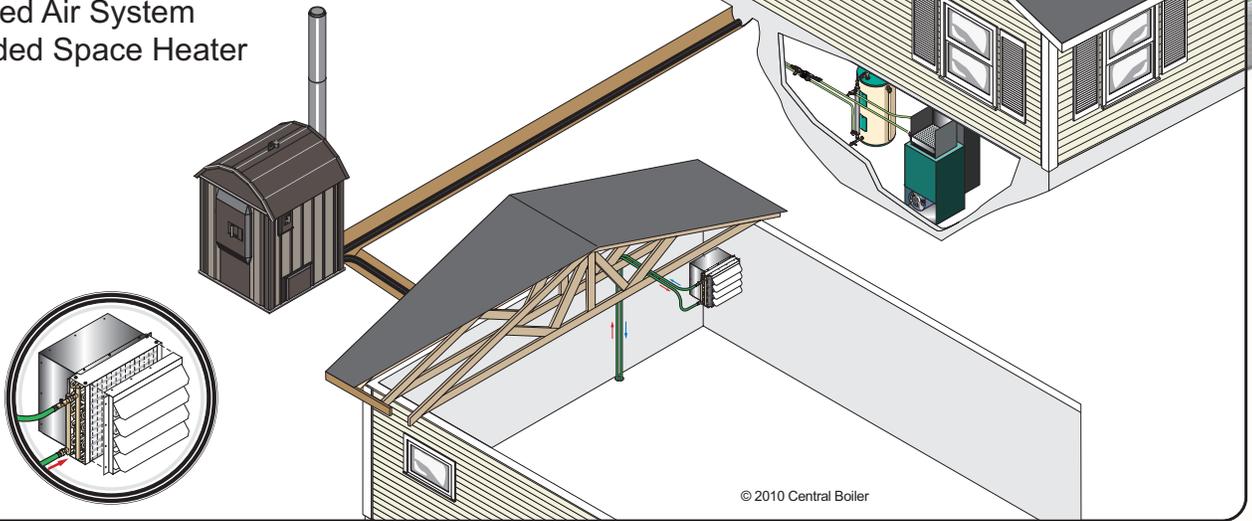
Qty	p/n	Description
1	107	125,000 Btu Heat Exchanger Coil
1	2053	Domestic Water Heater Fittings Kit
1	591	Domestic Water Heat Exchanger
1	171	Circulation Pump
1	224	Isolation Flange Kit, 3/4"
1	588	24 V Programmable Thermostat
1	326	Thermostatic Mixing Valve
1	118	3/4" Close Nipple
1	198	3/4" Ball Valve
6	1330	3/4" MPT x 1" Pex Adapter
8	5978	1" Stainless Steel Clamp
*		ThermoPEX® Insulated Pipe
1	396	Spark Arrestor (Optional)
1	296	Check Valve
2	1650	1650XL Inhibitor Plus
1	297	Ashtrol
1	6593	Ground Rod Kit

Illustration for forced air heating system is located on page 3.

\* Installation distance to the outdoor furnace will determine the quantities. Consult dealer on insulation options available.

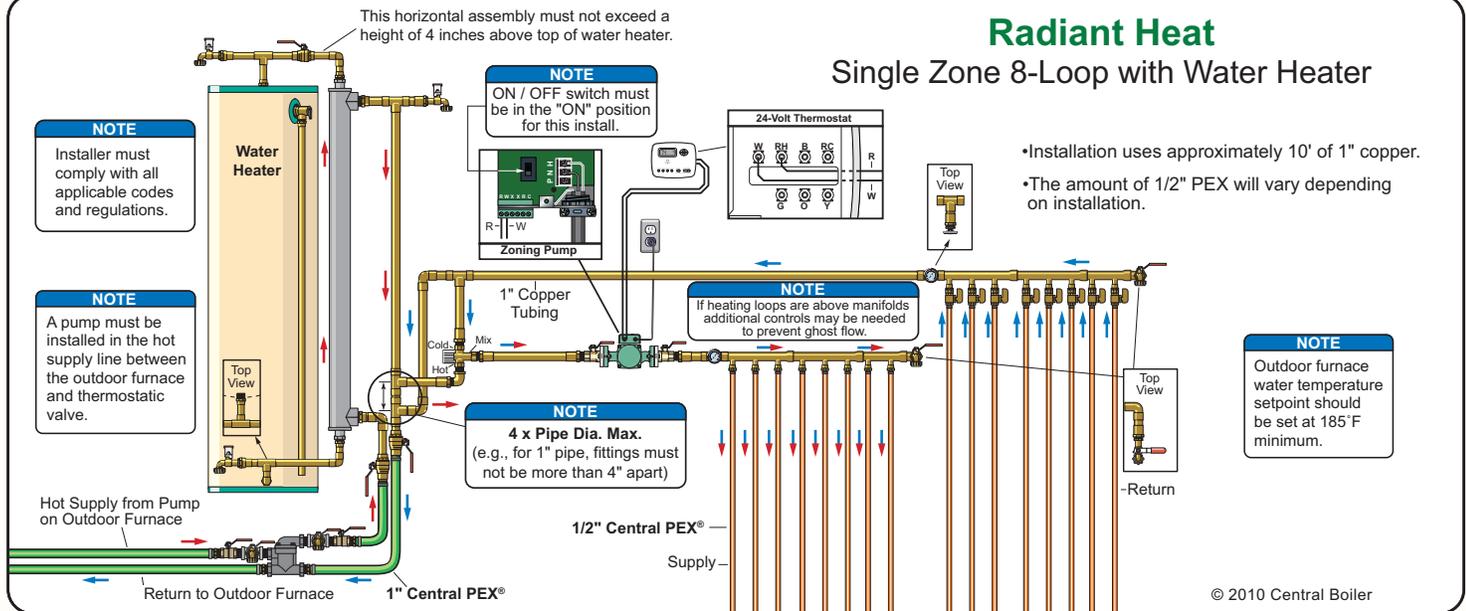
## Heat Multiple Buildings

Forced Air System  
Suspended Space Heater



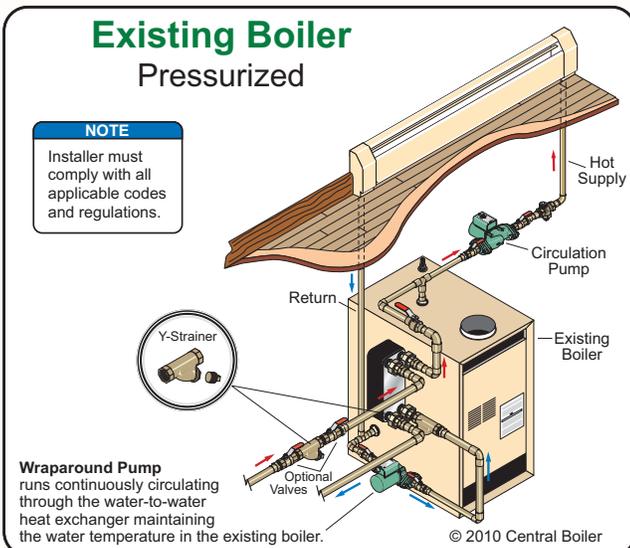
## Radiant Heat

Single Zone 8-Loop with Water Heater



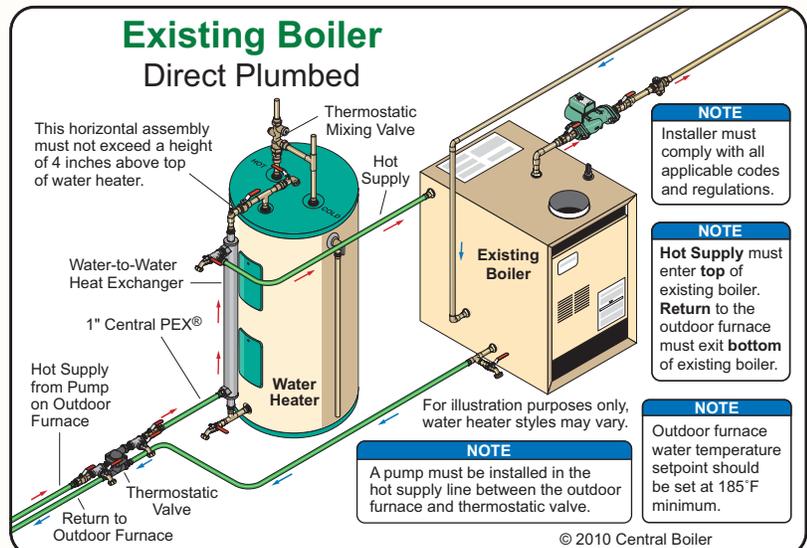
## Existing Boiler

Pressurized



## Existing Boiler

Direct Plumbed





## Why You Should Choose The E-Classic by Central Boiler

It's the alternative that eliminates the negative effects of burning wood indoors and increases the advantages of wood heat. It's a choice that can improve your family's living environment and standard of living while eliminating the fire hazards and time-consuming chore of tending a traditional wood stove. The Central Boiler E-Classic outdoor wood gasification furnace can provide 100% of the heat and hot water for a typical home. Your Central Boiler dealer can assist you in determining the actual heat and hot water needs for your home and the criteria for proper installation of the system. Actual Btu output and burn time will be affected by the type of wood burned, its moisture content and other factors. By virtually eliminating your heating costs, the E-Classic can in some cases pay for itself in the first two years of use. Over a ten year period, a homeowner or business may save \$20,000 to \$100,000 or more in heating costs. The E-Classic saves you time and means less work because it burns larger pieces of wood. The E-Classic uses 25% to 70% less wood compared to traditional wood furnaces or other brands of outdoor wood furnaces. This means less cutting and splitting which significantly reduces the time you spend preparing the wood. The large firebox is designed for easy loading of wood.

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For the maximum performance and life of your furnace, always insist on using Central Boiler authorized system parts and accessories.

See Owner's Manual for proper chimney height and installation. Minimum chimney height is determined by proximity to other buildings. Consider location and direction smoke may travel with prevailing winds before installing your furnace.

Content of this brochure is information in possession of Central Boiler at the time of the design of this publication and may not represent what was previously manufactured. Product specifications and appearance subject to change.

\*2011 federal tax credit. Central Boiler, Inc. is not a tax advisor. Taxpayers claiming a tax credit should consult a tax professional with any questions. Central Boiler is not responsible or liable for the taxpayer's ability to receive tax credits. Federal Tax Credit program ends December, 31, 2011

Ask your dealer about Outdoor Furnace Best Burn Practices.

## Qualified Individuals Working Together for a Common Purpose: A High Quality Finished Product

Central Boiler is located in Greenbush, Minnesota and was established in 1984 and is North America's largest manufacturer of quality outdoor wood furnaces. Based upon a desire to create safer and more efficient heating products, the company's innovations and patents have established Central Boiler as a leader in product quality. The uncompromising attitude to manufacture the best and always strive to make it better is at the core of the company's growth.

## Authorized Central Boiler Dealers located across the U.S. and Canada

When you're looking for a wood heating system for any need, your Central Boiler dealer is there to serve you. Your Central Boiler dealer can answer your questions, provide you with literature about the E-Classic outdoor wood gasification furnace and help you choose the model right for your heating needs. To locate a Central Boiler dealer in your area, visit the dealer locator at [CentralBoiler.com](http://CentralBoiler.com).

## Free 25 Year Limited Warranty

A free 25 year limited warranty is available on the E-Classic if registered at the time of purchase. Central Boiler leads the industry with its commitment to stand behind its outdoor wood furnaces.

See Warranty Registration form for details.

*Using wood as a heating fuel is endorsed by the U.S. Forestry Service.*

## Your Authorized Central Boiler Dealer