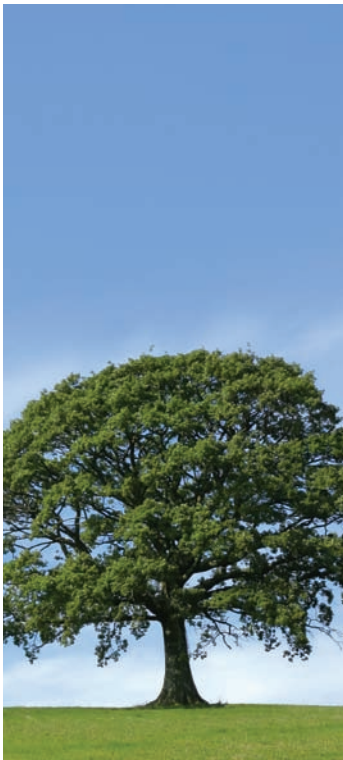


CENTRAL BOILER *E-CLASSIC®*

*A totally renewable
heat source*



CentralBoiler.com



Why choose a Central Boiler?

The E-Classic boiler makes heating with wood as simple and efficient as it gets.

Installation into new or existing heating system can be achieved with minimum alterations and without the need for an accumulator/ buffer tank, using a single phase electric supply.

It couldn't be easier to heat a building or multiple buildings more economically with wood. The boiler can be sited onto a concrete base located up to or over 100 metres from the designated heating system or systems in the case of multiple applications, and can connect into the system via thermally insulated underground pipe, pump, and a plate heat exchanger.

Example installations include: domestic dwellings, annexes and holiday cottages, commercial buildings/ offices, farms, outbuildings, dairies, kilns, swimming pools.

Renewable Heat Incentive

The E-Classic boilers are RHI-eligible and have the potential to provide a prompt return on your investment.

**Please see:
www.Ofgem.gov.uk/RHI
for further details.**



How it works

The E-Classic range utilises a three-stage combustion process that drastically reduces emissions because it burns wood so completely. The Crossfire air system adds preheated air around the base of the fire, and as the wood begins to gasify, the gases are added to the extremely hot oxygen from the patented Charge Tube. Final combustion takes place as these gases move downward to the Reaction Chamber where, again, extremely high temperatures are applied to achieve complete combustion.

This entire process gives these boilers their high efficiency and very low emissions. In addition, the boilers Xtract heat exchanger gets the most heat from the wood. It is designed to optimise the transfer of the hot gases to the water, resulting in exceptionally high thermal efficiency with low emissions per kW of heat output. See Features & Benefits for further details.

The heat generated is controlled by a thermostat for comfortable, even heat and this eliminates uneven temperatures experienced from traditional wood heat. In addition, the significant size of the firebox reduces the time spent on wood preparation/ processing.

Features & Benefits

1. Patented Charge Tube

Crossfire air system adds preheated air in all the right places around the base of the fire. As the wood begins to gasify, the gases are added to the extremely hot oxygen from around the patented **Charge Tube**. This starts the secondary combustion process.

2. Large Reaction Chamber

Final combustion takes place as these gases move downward to the **Reaction Chamber**. There, extremely high temperatures aid in complete combustion. This entire process gives this boiler its high efficiency and low emissions. The large, hinged door provides for easy ash removal.

3. Firebox

The significant size of the **Firebox** reduces the time spent on wood preparation/processing.

4. Urethane Spray Foam Insulation

This insulation, that covers the **water jacket** gives you the best energy savings, even when the conditions outside are at their worst. This insulation provides a 100% airtight, waterproof seal around the water jacket which makes your woodpile last longer.

5. High Capacity Water Jacket

This provides a balance between firebox volume and water capacity for optimum performance and safety. Continues to supply heat after the wood load is depleted. Adds to ease of installation as no additional accumulator/ buffer tank is needed.

6. Insulated Chimney

Two 1220mm stainless steel insulated flue sections are standard. Additional sections are available for extending the flue when needed.

7. All-Weather Steel Siding

Casing is overlapped for tighter weather seal. Panels and corners are powder-coated for high durability.

8. Vent Cap

Design of vent cap eliminates evaporation.

9. Triple Insulated Firebox Door

Door is at just the right height and features a large opening for easy loading, making your job much easier. The ergonomically designed, lockable door has triple insulation to keep the heat in and the cold out for maximum efficiency.

10. Bypass Door

Door is spring loaded and utilises a gasket seal for optimum performance. It allows you to redirect the exhaust before opening the firebox door. The Bypass Door Alarm reminds you to close the Bypass Door after you have closed the firebox door for efficient operation of your boiler. The Bypass Door handle is conveniently located and easy to use.

11. LED Lights (Photo Electronic Controlled)

The 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 boiler, and can be set to conveniently and automatically turn on at night.

12. Xtract Heat Exchanger

The Heat Exchanger allows you to get the most heat out of your wood. It is designed to optimise the transfer of heat from the extremely hot gases to the water. The vertical design of the Heat Exchanger minimises the amount of maintenance.

13. Firestar Controller

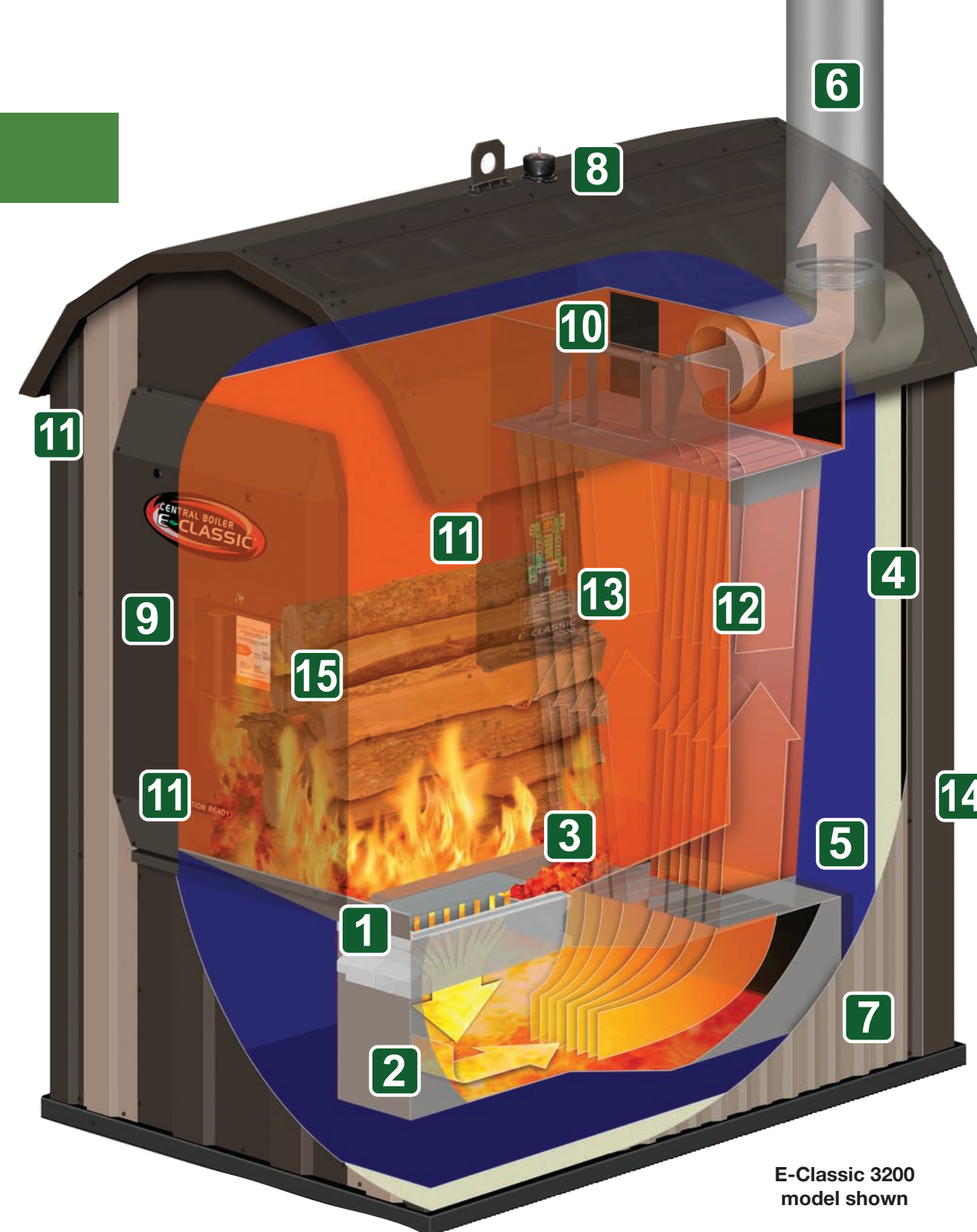
The Controller is your command centre, which can store and share operational data to help optimise the operation of the boiler. With just the touch of a button, you can monitor your boiler or change its settings. The controller's technology also optimises the gasification process by automatically adjusting the primary and secondary air. This allows for a cleaner and more efficient burn.

14. Access Panel

This panel gives you full access to the power disconnect, solenoid, primary air, and pumps, all from one location. Access to the Reaction Chamber door for the E-Classic 1450 and 3200 models is via the rear access panel. The 2400 Reaction Chamber door is located to the side of the boiler. This makes installation and maintenance convenient and easy.

15. Cam Loc

The Cam Loc door closure mechanism secures the Firebox Door at all four corners and provides a tight seal each time the door is closed.



E-Classic 3200
model shown

CENTRAL BOILER E-CLASSIC®

Outdoor Wood Gasification Boiler



Triple Insulated Firebox Door

Central Boiler engineers all of its outdoor furnace doors with special attention to fit, function and ease of use. The E-Classic firebox door is triple insulated to hold the heat in the furnace for maximum efficiency. The stylish and ergonomically designed lockable firebox door is built to last, constructed from high quality materials and powder coated for high durability. The heavy-duty door handle is durable and easy to use and the Cam Loc door closure ensures a tight seal each time the door is closed.



FireStar™ Electronic Controller

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.



Insulated Chimney

E-Classic chimneys exit the rear of the furnace, reducing heat loss by over 50% and eliminating the roof leakage and corrosion associated with top exiting chimneys. A large exhaust passage with removable cleanout, is designed for easy inspection and reduces maintenance. The stainless steel chimney is insulated to eliminate condensation, improve efficiency and is tested to 1800F. Two 1220mm chimney sections are standard. Additional sections are available for extending the chimney when needed.



Rear Access Panel

Central Boiler designed the E-Classic for convenient installations. The rear access panel can be easily opened and provides convenient access to the power disconnect, draft fan and pumps. The E-Classic is designed for using up to three pumps. The access panel can be locked for safety and security.



Insulation

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. It will not break down and is rated for temperatures that far exceed that of the water jacket. This is the same type of insulation used on high efficiency water heaters. Fiberglass batts, like those used by many other manufacturers are inefficient, allow air to blow through and leave gaps at the joints. Fiberglass batts placed or wrapped too loosely around the water jacket can allow heat to escape and condensation to form.



Research & Development

Constant testing, continued improvement and the desire to create the best, drive and dedicated group of highly-skilled engineers and technicians. As a result, Central Boiler has a reputation for producing a high-quality and efficient product. From a complete testing laboratory to a Research and Development team that works closely with third-party testing organisations, Central Boiler's research, development, testing and refining is a part of the everyday process.



Reaction Chamber™

Super-heated air is injected by the Charge Tube and mixed with the hot gases from the primary firebox before entering the Reaction Chamber where the secondary combustion process is completed. The result of the secondary combustion is extremely hot gases that enter the heat exchanger.



Large Firebox

The E-Classic features a large door opening for easy loading. Because the firebox can hold a substantial amount of wood, long burn times can be achieved.



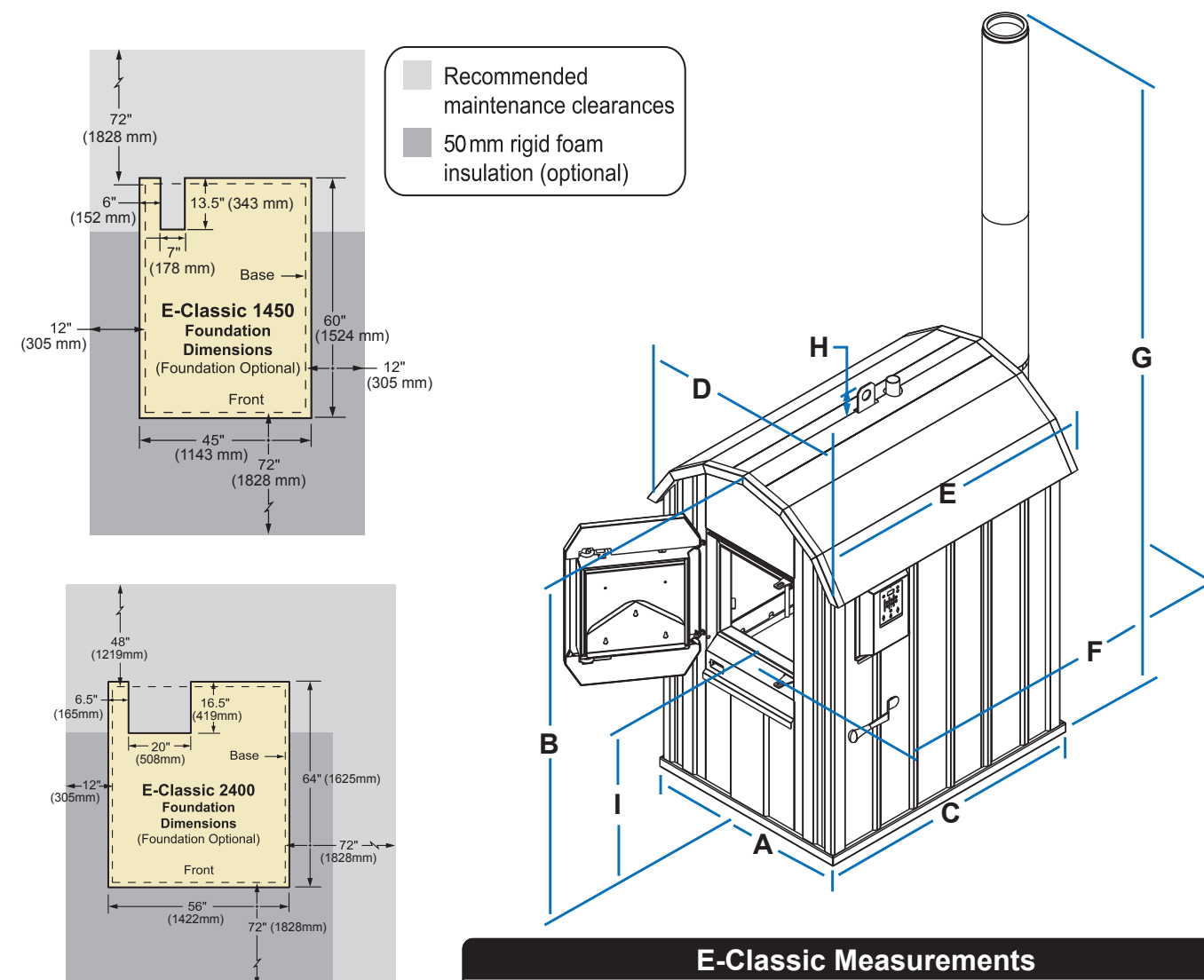
Materials

Construction with top-grade carbon steel ensures that all Central Boiler furnaces are built with premium-grade materials. State-of-the-art CNC machines cut and form the materials with unmatched precision. At Central Boiler, higher standards and superb manufacturing techniques result in a proven end product.



CENTRAL BOILER E-CLASSIC®

Boiler and Foundation Base Dimensions



E-Classic Measurements

	A	B	C	D	E	F	G	H	I
E-Classic 1450	1118	1956	1422	1220	1473	1829	3810	100	914
E-Classic 2400	1346	2286	1550	1499	1575	1956	4089	100	889
E-Classic 3200	1270	2210	1728	1372	1778	2185	4241	125	940

- Measurement (F) is from firebox door to chimney inspection cover.
- Measurement (G) includes two 1220mm chimney sections.

Outdoor furnace must be installed on a non-combustible 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. Foundation dimensions are 40mm beyond the outside perimeter of the base.

DO NOT USE ANY COMBUSTIBLE MATERIALS FOR THE FOUNDATION

Specifications

	E-Classic 1450	E-Classic 2400	E-Classic 3200
Door (mm)	W 457 x H 457	W 571 x H 723	W 571 x H 723
Firebox (mm)	L812 x H889 x W610	L914 x H1104 x W660	L1016 x H1219 x W762
Weight (kg)	956	1327	1470
Water Capacity (ltrs)	746	1287	1552
Maximum Output	44 kW	75 kW	88 kW
Efficiency	91.77%*	85.23%*	88.88% (higher heating value)** 97.0% (lower heating value)**

*Based on EN 303-5 **Based on EPA Test Data



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