

DOMESTIC SERIES



E-COMPACT

WOOD PELLET BOILER



8 Reasons to Choose Us

- 1. We only design and manufacture wood pellet boilers** – everything we know about how to make the best possible boiler has been integrated into the development of the E-COMPACT range. We are specialists in this sector. WES is a one stop shop for wood pellet boilers, fuel stores, flues etc. If its wood pellets it must be WES.
- 2. Not 'just another boiler'** – choose an E-COMPACT boiler and you will be buying a design, product and support service developed with many years 'hands on' experience in the biomass boiler industry. Not theory, but 'real world' experience in boiler design, installation and after sales support and service. WES Boilers are designed specifically for the UK market.
- 3. Built up to a standard, not down to a price** – we believe it is possible to be a successful company not by building our products down to a price, but by carrying out ongoing research and development to make them simple and functional for all. Easy to install, easy to maintain and easy to use means less expense for you in the long run, and far less hassle!
- 4. No hidden costs** – all you would expect to get with the boiler is included,
- 5. Quality Assured** – we don't rely on third party component testing (like some manufacturers) every component is function tested at the factory; we even dry fire the burner
- 6. Technical Support** – When you call our Technical Support Help Desk you will speak directly with a 'human being', one who has been involved in the design, manufacture and testing of the unit. Installers recognise our support team as one of the most helpful in the market.
- 7. You really do matter** – whether you purchase just one of our boilers or install 100 for your customers, you'll be treated with the same absolute respect. Your business is the lifeblood of our company, and we're committed to repaying you by making you 100% delighted you chose E-COMPACT Boilers from WES – right from day one, for the lifetime of your boiler, and beyond.
- 8. It's easy!** – WES' E-COMPACT boilers are readily available, contact our Distributors, usually next-day delivery. Choose your E-COMPACT today, and you could be up and running in next to no time.

Wood Energy
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E-Compact 'S'

The E-COMPACT is simple and convenient. For homeowners with a relatively small annual fuel consumption our E-COMPACT boiler with manual loading option is the ideal solution. Simply fill the boiler with wood pellets from easy to handle bags. One can then enjoy the benefits of biomass heating without incurring a large capital cost.



E-Compact 15kW
Manual Fill Option

*Holds 100kgs of fuel in Integral Hopper
'enough to last the average home 4-7 days'*



E-Compact 28kW
Automatic Feed Option
(c/w Cyclomatic)

E-COMPACT 'S' Model Technical Specifications

Model	Height (mm)	Width (mm)	Depth (mm) (excluding flue)	Weight (kgs)	Tappings	Fuel Capacity (ltrs)	Water Content (ltrs)
E-Compact 15 'S' Indoor	1068	600	977	160	¾"	180	18
E-Compact 28 'S' Indoor	1068	600	1057	170	¾"	180	24
E-Compact 40 'S' Indoor	1425	1189	1277	375	1 ¼"	170	76

E-Compact 40kW 'S'



Operational

- 7 steps of Modulation
- Automatic Burner Cleaning (15kW & 28kW models)
- Automatic Cleaning of Heat Exchanger
- Vacuum Regulator to control draught
- Frost Stat Protection
- Low Level Pellet Sensor & Warning Signal (optional)
- Lambda Sensor

Technical Physical

- 15kW and 28kW fit through standard door width
- Factory Fitted Pump & Pressure Switch
- Easy to Transport
- Generous Ash Pan size
- Cyclomatic vacuum pellet delivery system (optional)



Model	Height (mm)	Width (mm)	Depth (mm) (excluding flue)	Weight (kgs)	Tappings	Fuel Capacity (ltrs)	Water Content (ltrs)
E-Compact 40 'S' Indoor	1425	1189	1277	375	1¼"	170	76

E-Compact Slim (15kW & 18kW)



- Stylish design for internal use
- Fully servicable from front
- Lambda control
- Vacuum Regulator to control draught



E-COMPACT 'S' Model Technical Specifications

Model	Height (mm)	Width (mm)	Depth (mm) (excluding flue)	Weight (kgs)	Tappings	Fuel Capacity (ltrs)	Water Content (ltrs)
E-Compact 15 Slim Internal	1135	1074	495	150	1"	80	18
E-Compact 18 Slim Internal	1135	1074	495	150	1"	80	18

E-Compact 'S' (15 & 28kW)

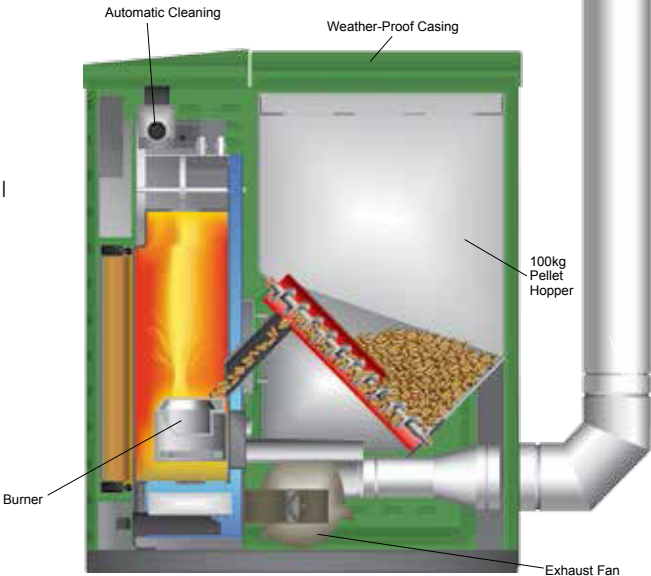


The E-COMPACT Outdoor model is also available in 15kW and 28kW models.

The weatherproof casing means the boiler can be situated outdoor and has a 100kg fuel capacity which lasts most small properties 4-7 days.

The E-COMPACT Outdoor Model has the same technical features as the Indoor model with Frost Stat protection included as standard.

The boilers compact size means it takes up very little space in ones back garden or adjacent to ones property.



The Outdoor model is a firm favourite with Local Authorities, Housing Associations or those homeowners who do not have a building to locate their boiler.

E-COMPACT Technical Specifications

'S' Model	Height (mm)	Width (mm)	Depth (mm) (excluding flue)	Weight (kgs)	Tappings	Fuel Capacity (ltrs)	Water Content (ltrs)
E-COMPACT 15 'S' Outdoor	1099	600	920	160	¾"	180	18
E-COMPACT 28 'S' Outdoor	1099	600	1000	170	¾"	180	24

E-Compact Slim (15kW & 18kW)



The E-COMPACT Slim outdoor model is in response to many smaller UK properties not having the space requirements to site a biomass boiler inside or outside their property

Unique Selling Points (USPs) of the Slim model are:

- Smaller footprint (only 495mm deep)
- Can be sited directly against external wall of a property
- Fully serviceable from the front
- Larger ashbox than on Standard models
- Flue vertical off the top of the boiler (no 90° bends)

WES – The Outdoor Biomass Boiler Specialists



Patent pending



← 495mm width →

E-COMPACT Technical Specifications

Slim Model	Height (mm)	Width (mm)	Depth (mm) (excluding flue)	Weight (kgs)	Tappings	Fuel Capacity (ltrs)	Water Content (ltrs)
E-COMPACT 15 Slim	1135	1074	495	150	1"	80	18
E-COMPACT 18 Slim	1135	1074	495	150	1"	80	18

Pellet Storage Solutions



Bulk Fuel Delivery



WES Silo Indoor with direct Auger System



WES Silo Indoor with Cyclomatic Suction System



WES Silo Outdoor with Direct Auger System



Universal
Spigot Lid
(patent pending)

WES Buffer Tanks

The E-Tank range is the ideal companion for Biomass Boilers or for any heat source that requires buffer storage to satisfy heat on demand.

By installing an E-Tank it gives better boiler efficiency by reducing nuisance short cycling and allows a greater flow to the heating system than across the heat pump or boiler

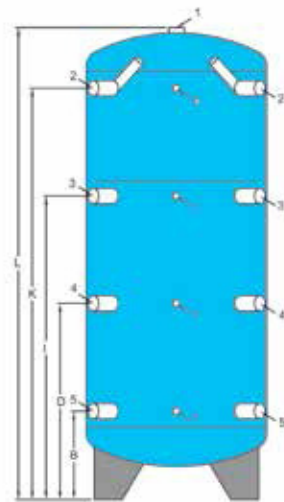
For this reason the E-Tank is typically used to manage heat spikes and to increase the water volume in the heating system.

WES products are subject to regular third party Product Surveillance Audits which is part of our commitment to supplying our customers with consistently high quality products.

Buffer Tank Technical Specifications

Description	Height (mm)	Width (mm)
300L Buffer tank PS	1635	700
500L Buffer tank PS	1775	850
800L Buffer tank PS	1800	990
1000L Buffer tank PS	2190	990
1250L Buffer tank PS	2095	1100
1500L Buffer tank PS	2165	1200
2000L Buffer tank PS	2480	1300
2500L Buffer tank PS	2220	1450
3000L Buffer tank PS	2720	1450
4000L Buffer tank PS	2645	1700
5000L Buffer tank PS	2870	1800

With 100mm insulation



No Coil Buffer Tank



Biomass Boilers that are built to last

Automatic Burner Cleaning

E-COMPACT domestic boilers have automatic burner cleaning via compressed air. There are no moving parts in the system which ensures longer life span unlike some automated mechanical cleaning systems. While WES recommends only ENPlusA1 grade of pellet to be used in its boilers, our unique cleaning system deals very well with varying fuel quality types.



Automatic Heat Exchanger Cleaning

All E-COMPACT boilers have WES patent pending heat exchanger cleaning system which optimises boiler efficiency and provides routine cleaning of the heat exchanger tubes. The cleaning cycle time can be increased if necessary.



Industry Leading Components

WES imports components to its factory from 22 countries worldwide. We travel this far to ensure we use the best quality components in our boilers. We will not compromise on this fact. All these components are backed by a standard 2 year warranty from some of the world's leading suppliers.



Lambda Probe

In 2014 all E-COMPACT boilers can be fitted with Lambda probe as an optional extra. The probe is used by the control system to optimise the boiler efficiency and compensates for varying fuel quality.



Fully compliant with RHI Emissions Requirements

Frequently Asked Questions

Pellet Fuel characteristics

Wood pellets are compressed saw dust bound by the wood's own natural glue called lignin. Wood pellets have a very high energy content (typically 4.85kWh per kg), produce very little ash (0.5%) and are a clean renewable source of energy

Are Wood Pellets readily available?

Yes, the UK & Ireland has several wood pellet manufacturing plants, currently with an annual capacity of 400,000 tonnes per annum. Wood pellets are traded like any other commodity and are produced all over the world. Plumbing Merchants and DIY stores now stock bags of pellets and the pellet plants also do bulk deliveries, if one has a fuel store (minimum 3 tonne delivery)

Does WES recommend a type of pellet to use?

The best quality wood pellet is one conforming to ENPlus A1 grade. E-COMPACT boilers should only use ENPlus A1 pellets and failure to use this grade may cause operational problems and would invalidate the product warranty

How much space do I need for Pellet Storage?

1 tonne of pellets takes up approximately 1.8m³.

The storage one requires will depend on one's annual consumption. For a small property it may be worth buying 1 tonne of pellets delivered in 10-15kgs bags on a pallet and store them in one's garage or fuel shed. Alternatively if one has a large property and will use a lot of pellet fuel (>3 tonne) one should use a bulk store and pellets will be blown into the store by the fuel delivery company.

Can an E-COMPACT Boiler be used on a Sealed System?

Yes the E-COMPACT can be installed on a sealed or open vented system

Can the E-COMPACT be located Outdoors?

Yes the E-COMPACT Outdoor model can be situated outdoors as it has a weather proof casing and is ideal for properties that do not have space internally for a biomass boiler.

How often should I service my E-COMPACT?

At least once a year the E-COMPACT should get a full service (or after 1,200 hours). However before the heating season one should give the boiler a thorough cleaning.

What are the financial benefits to using a biomass boiler?

Presently pellets whether bought in bags or bulk can be up to 50% cheaper than oil, electric or solid fuel (coal) heating.

Furthermore with the arrival of RHPP (Renewable Heat Premium payment) in the UK a Voucher is available to offset capital cost of the appliance.

Since Spring 2014 the UK's RHI (Renewable Heat Incentive) will pay homeowners a tariff per KW of heat generated from biomass so the savings will be quite significant. There has never been a better time to install a biomass boiler.

For further information view
www.woodenergysolutions.co.uk





Booths Hall, Chelford Road,
Knutsford, England WA16 8gS
Tel / Fax: 00 44 161 2617497
www.woodenergysolutions.co.uk

Donaskeigh, Tipperary Town, Ireland
Tel: 00 353 62 74007 • Fax: 00 353 62 71364
info@woodenergysolutions.com
www.woodenergysolutions.com

MANUFACTURERS OF RENEWABLE HEATING PRODUCTS