



COMMERCIAL SERIES



**E-COMPACT**  
**WOOD PELLET BOILER**

The logo graphic consists of three stylized leaves. The top leaf is orange, the middle one is light green, and the bottom one is a darker green. They are arranged in a fan-like shape to the left of the text.



## E-COMPACT Commercial Series

Delivering heating solutions for the next generation

The new E-COMPACT commercial series from WES is setting new standards regarding efficiency, safety and convenience from pellet heating

The design team at WES have delivered an exciting range of boilers with outputs from 55kW up to 250kw

## E-COMPACT Technical Spec Sheet

	ECO055	ECO085	ECO100	ECO125	ECO200	ECO250
<b>Outputs</b>						
Rated Output max kw	55	85	100	125	200	250
Rated Output Min kw	16.5	24	30	38	60	75
Operating Efficiency (Rated output)	90%	93.1%	92.0%	91.4%	91.0%	91.0%
<b>Connections</b>						
Electrical Connections (total)	230v	230v	230v	230v	230v	230v
Electrical rated Capacity	1 amp	1 amp	1 amp	1 amp	1 amp	1 amp
Rated power output	350 watts	350 watts	350 watts	350 watts	350 watts	350 watts
Water Connections	1.5"	2"	2"	2"	2"	2"
Chimney Diametre	6"	8"	8"	8"	8"	8"
<b>Operating</b>						
Max Operating Pressure	3 bar	3 bar	3bar	3 bar	3 bar	3 bar
Flue gas Temperature (rated Output)	155	155	167	180	180	180
<b>Dimensions/Volume</b>						
Boiler Footprint (W mm x D mm)	1552 x 1178	1690 x 1323	1690 x 1323	1690 x 1323	1900 x 1500	1900 x 1500
Boiler Height (H mm)	1540	1940	1940	1940	1940	1940
Boiler Weight Kgs (Dry)	750	900	930	950	1000	1000
Water Volume (litres)	160	220	230	240	280	290
Ash Container Volume (litres)	56	56	56	56	60	60
Burner Model	G55	G85	G100	G125	G200	G250

### Benefits at a glance:

- Automatic cleaning of the heat exchanger for continual high efficiency
- Automatic ash removal from the combustion chamber ensuring high operational reliability
- Auger, comprising cell wheel and industry leading motor ensuring precise and economical fuel input and 100% burn back protection
- Automatic ignition using industry leading ceramic element
- LCD digital display available in 5 languages and includes buffer management
- Cyclomatic pellet suction system included as standard
- Wireless modem enabling remote diagnostics included as standard



## E-COMPACT's Cyclomatic pellet transportation system.

The Cyclomatic can transport pellets to the boiler from up to 25 metres away. The Cyclomatic uniquely removes the dust from the pellet fuel before delivery pellets to the burner. This ensures trouble free operation.

The Cyclomatic can be wall mounted or floor mounted beside the E-COMPACT boiler.

### More benefits at a glance:

- Removable and rotating burner head for ease of servicing
- Cyclomatic pellet transportation system with unique dust removal system
- Cyclomatic can fill integral hopper in boiler even while burner is running.
- Slumber mode option in Cyclomatic- will top up the hopper for the night.
- E-COMPACT can also be used with auger filling system (if one does not want a cyclomatic)



Wall mounted Cyclomatic pellet suction system

## E-COMPACT's Pellet Fuel storage

Pellet Fuel storage and transportation options are just as important as deciding on which boiler to choose. A variety of Pellet Storage solutions are on the market and most as compatible with the E-COMPACT boilers. Very often customers manufacture their own pellet store in their basement or garage and WES can supply floor track systems for these home built stores.

### Important Points to remember

- The pellet delivery truck can gain access. Generally bulk deliveries can be blown from up to 25 metres
- Adequate fuel capacity to match boiler size e.g A 100kW boiler will use approximately 25kgs per hour when running continuously at full power
- 1 tonne of pellets takes up 1.8m<sup>3</sup> space
- Delivery companies generally have a minimum quantity delivery policy



E-COMPACT 100 with 6 tonne Sack Silo



# E-COMPACT's EcoCabin

For large thermal energy users particularly those in off gas areas, the EcoCabin solution is an ideal opportunity to reduce heating costs and avail of the Renewable Heat Incentive (RHI).

The EcoCabin is a pre-packed solution with the biomass boiler, buffer tanks and controls pre-plumbed, pre-wired off site. It is delivered to the owners site in a 'ready to go' mode.

EcoCabin is attracting great interest from poultry, equestrian and mushroom farms, leisure centres, hotels, municipal buildings such as schools and civic offices, warehouses, factories and retail parks. The EcoCabin structure is backed up by a 20 year warranty. WES takes care of delivery to site, unloading and commissioning. WES can develop bespoke EcoCabin solutions for its customers.

Uniquely our 'Urban Solution' is ideal for Hotels, Leisure centres etc where space is a premium. Our Urban solution takes up only 2 Car Parking spaces and incorporates E-COMPACT boiler, Buffer Tank and 17 tonne of Fuel storage.

### Components:

- E-COMPACT Commercial Boiler 55-250kw
- Buffer Tank 1500-3000
- Heat Metre
- Fuel Transportation System - Auger or Vacfill/
- System isolation via Plate Heat Exchanger as standard
- RHI Compliant Heat Metre
- Pre-wired & Pre-plumbed
- Wireless modem as standard for remote control

Flexi Auger from bulk store



Buffer Storage



Mushroom farm



Biomass heating for the agri sector



EcoCabins under construction



Interior of EcoCabin



EcoCabin – note: low fuel level flashing beacon



**EcoCabin**  
www.woodenergysolutions.com

# Frequently Asked Questions

## What is the RHI scheme about?

The Renewable Heat Incentive (RHI) is a financial incentive scheme designed to increase the uptake of renewable heat technologies and reduce the UK's carbon emissions. It provides a subsidy per kWh of eligible renewable heat generated from accredited installations such as biomass/wood pellet boilers

## How can I apply?

You can apply for the RHI by going to <https://rhi.ofgem.gov.uk/Public/>. You will need to create an account on the RHI system before you can make an application for accreditation to the RHI. If you do not have access to the internet please contact us on 0845 200 2122 and we will provide you with a paper application.



## How do I claim RHI for my business?

In order to claim the RHI, you will need to submit an application for accreditation and become a participant in the scheme. You must be the owner, or authorised signatory, for the installation in order to apply for the scheme.

You will need to demonstrate to us that the installation meets the RHI eligibility criteria and that:

- The installation is of an eligible renewable heat technology type and size
- The installation was completed and first commissioned on or after 1st Sept 2010 and
- That the heat is used for 'eligible purposes' heating space, water or for carrying out a process where the heat is used in a building

## How long will the scheme last for?

Once you have received accreditation under the RHI you are entitled to support for 20 years, providing you continue to comply with the conditions of your participation.

## Do I need a Microgeneration Certification Scheme accredited technology and installer?

You will require MCS certification (or equivalent) if your installation is 45kWh or less.

## How long will it take for Ofgem to accredit my installation after I have submitted my application for the RHI?

We will aim to accredit your installation within 6 weeks of a completed application being submitted to us. If we have queries on information provided to us, RHI accreditation may be delayed whilst we await satisfactory information from the applicant.

## What can I expect to get paid?

Your payment will depend on the type of technology you install, the size of your installation (for small and medium biomass installations) and the amount of heat you generate.

## How will I get paid?

Ofgem will pay your quarterly payment directly into your bank account. We will pay you by BACS transfer. We will only pay monies into a bank account which accepts pound sterling deposits in the United Kingdom.





## Pellet Fuel in Abundance



WES is the most experienced and largest dedicated biomass boiler manufacturer in the UK or Ireland. It is renowned for providing reliable, practical biomass heating solutions for its clients. WES has strong relationships with all the major pellet fuel manufacturers in the UK and Ireland.

For commercial clients pellet heating offers enormous savings versus traditional heating fuels such as Oil and LPG. The pellet fuel supply network is very well established and bulk deliveries ranging from 3 to 20 tonnes can be obtained by clients.

Clients should look out for the ENPlusA1 quality mark when purchasing pellets. This is the best quality pellet on the market.



Easy access for burner and cyclone servicing

E-Copact 55kw





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MANUFACTURERS OF RENEWABLE HEATING PRODUCTS