

DOMESTIC SERIES



E-COMPACT

WOOD PELLET BOILER



Green Awards 2012

19th April 2012, Burlington Hotel, Dublin, Ireland

“WES will reduce fuel poverty and provide a viable alternative to oil for the space heating sector”

Gerard O'Neill Amarach Consulting (Judging Panel)

National Winner of Green
Entrepreneur of Year Award 2012



It gives me great pleasure to introduce WES (Wood Energy Solutions) an award winning company specialising in the manufacture of biomass boilers.

Experience accumulated down through the years in combustion technology is today applied at our Research & Development facility in Ireland. The end result is an exciting range of E-COMPACT biomass boilers that is leading the way.

Every day at our MCS and ISO9001 compliant factory, boilers are manufactured to the same consistent quality. While we have modern manufacturing technology available to us our business is all about people. From employing the best, to ensuring our customers are satisfied, this is still a people business.

Our philosophy is that we want to bring biomass heating mainstream. Biomass heating can be for everybody and at WES we have designed the E-COMPACT boiler range for the UK and Irish market with this in mind.

Thank you for your interest in E-COMPACT biomass boilers.

Declan Crosse

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Managing Director



E-COMPACT (Manual Fill Option)

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.

Operational

- 7 steps of Modulation (no need for Buffer Tank)
- Patented Baffle System – greater efficiency (90.1%)
- Automatic Cleaning of Heat Exchanger
- AVC Control (Air Velocity Control)
- Hour Metre (showing boiler running time)
- Frost Stat Protection
- Low Level Pellet Sensor & Warning Signal (optional)

Technical Physical

- Fits through standard door width (Boiler 600mm wide)
- Factory Fitted Pump & Pressure Switch
- Easy to Transport
- Generous Ash Pan size
- E-COMPACT PLUS has added features of built-in Heat Metre and Modem

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

E-COMPACT Technical Specifications

Model	Height (mm)	Width (mm)	Depth (mm) (excluding flue)	Weight (kgs)	Tappings	Water Content (ltrs)
E-COMPACT 15 Indoor	1068	600	977	160	¾"	18
E-COMPACT 28 Indoor	1068	600	1057	170	¾"	24



E-COMPACT Cyclomatic (Auto Bulk Fill Option)

For users preferring to have a fully automated pellet filling system the E-COMPACT Cyclomatic system is the answer.

The Cyclomatic system can deliver pellets via suction system from bulk storage silo to the boiler.

The silo can be up to 30 metres away.

The cyclomatic can be wall mounted or floor mounted.

Unique features of E-COMPACT Cyclomatic system are:

- Can transport pellets from up to 30 metres
- Dust Filtration system removing dust particles from fuel before it is delivered to boiler
- Can operate even while burner is running
- Can transport fuel around corners and vertically
- 'Sleep mode' function, cyclomatic tops up boiler with fuel for night before going into sleep mode.

The Cyclomatic gives the user a 'hands free' experience just like an oil fired system.



E-COMPACT Technical Specifications

Model	Height (mm)	Width (mm)	Depth (mm) (excluding flue)	Weight (kgs)	Tappings	Water Content (ltrs)
E-COMPACT 15 Indoor	1338	600	977	160	3/4"	18
E-COMPACT 28 Indoor	1338	600	1057	170	3/4"	24
Wall/floor mounted Cyclomatic System*	1092	400	440	50		

*Allow 550mm from ground for the Dust Collection Bag



Pellet Storage Solutions

Wherever you want to store your pellets, our varied and flexible storage solutions are suitable to all conditions – whether you want to store your pellets in your property, underground or outside, we have the right solution for you.

Pellets can be delivered to one E-COMPACT boiler via Cyclomatic suction system or via direct auger system

E-COMPACT boilers have been matched and tested with our pellet storage partners to provide a 'hands free' fuel delivery solution



Geotank with Cyclomatic Suction System



Geobox with direct Auger System



Geobox with Cyclomatic Suction System

Technical Specifications

PRODUCT No.	Volume (m ³)	Quantity Stored (tons)	Height (cm)	Dimensions (cm)
Geobox 12	1.7-2.6	1.1-1.7	180-250	120 x 120
Geobox 17	3.1-5.2	2.1-3.2	180-250	170 x 170
Geobox 21	4.5-7.5	2.8-4.7	180-250	210 x 210
Geobox 25	6.4-11.0	4.2-6.7	180-250	250 x 250
Geobox 29	9.6-14.1	6.0-9.0	190-250	290 x 290
Geobox 17/29	5.7-8.3	3.6-5.4	190-250	170 x 290
Geobox 21/29	6.6-10.2	3.8-6.1	190-250	210 x 290



Outdoor Pellet Storage

E-COMPACT 15 & 28kW (Outdoor Model)

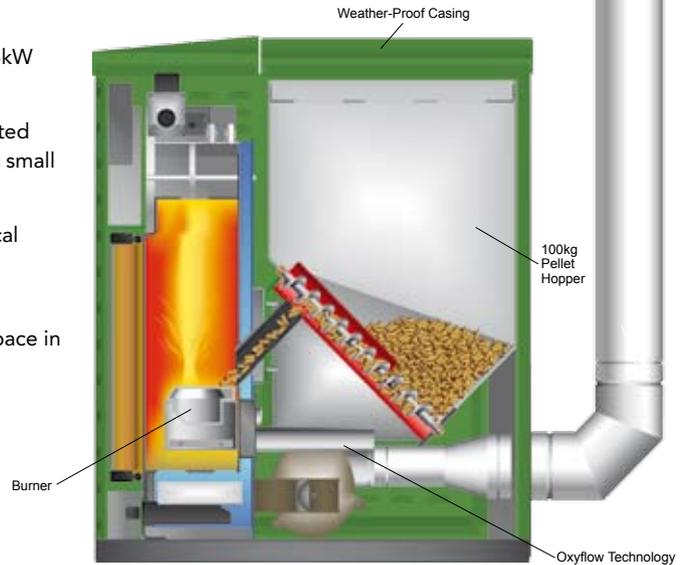


The E-COMPACT Outdoor model is also available in 15kW and 28kW models.

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

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

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 are 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.

In 2013 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
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