

GRANT BIOMASS RANGE

Vecta & Spira condensing
biomass boilers, flues and
accessories



Grant Profile

At Grant we have been designing and manufacturing reliable and easy to install heating products for over four decades. From award winning oil-fired condensing boilers to the latest renewable technologies, our heating systems have a reputation for quality that is second to none.

We combine precision engineering, innovation, performance and value for money to produce sustainable heating solutions that are trusted by both installers and householders.



Quality Design

There is never a compromise on quality. We design all of our products so that you can be sure that the durability and efficiency are sector leading. We continually develop new technologies and use only the best materials to ensure our products meet performance and environmental standards.

Our belief in simple solutions ensures that, while our technology is sophisticated, our products are low maintenance and easy to install. For a high quality, reliable and sustainable heating system, trust in Grant.

Heating Responsibly

Grant manufacture heating systems that respond to the challenges of rising fuel costs whilst protecting our environment. Environmental responsibility is central to all we do and we continue to develop and innovate to produce even more efficient products that make best use of our natural resources.

We are passionate about developing sustainable, high-performance and affordable alternatives for heating homes into the future.

Our Guarantee

The Grant label is a guarantee of reliability, quality and value. We put our customers first and our independence ensures that we can monitor our standards and processes to deliver the very best quality and service.

That's why, when you order your system from a Grant stockist, you can be sure of a tailored service and excellent after sales support.

Wood Pellet Boiler Technology

Wood Pellet Boiler Design

Wood pellet boilers are an environmentally friendly, safe and convenient way of heating the home using wood pellets as fuel.

Our wood pellet boilers are fully automatic and perform more like an oil or gas boiler, using advanced controls which regulate the amount of fuel being delivered to the burner to match the heat demand on the boiler. The fuel is fed to the burner via an auger connected to either an adjacent or integral pellet hopper. On certain models this can be automatically supplied from a bulk pellet store which can vary in size.

Wood pellet boilers produce ash and can normally require frequent cleaning and maintenance by the user. Our pellet boilers operate a self-cleaning function, reducing the need for regular cleaning when using EN Plus A1 grade pellets with low ash content.

What are wood pellets?

Wood pellets are an environmentally-friendly fuel, produced from either recycled sawdust or virgin timber from managed resources. The raw material is compressed into small, dense cylindrical pellets with very low moisture content which deliver high efficiency combustion when burnt.

Grant Wood Pellet boilers can only be used with 6mm approved EN Plus A1 premium pellets. Using pellets which do not meet the EN Plus A1 specification from an unapproved supplier will invalidate your boiler guarantee. For more information please refer to standard BS EN ISO 17225-2:2014.

If you are in any doubt, please contact Grant before purchasing your pellets.

Biomass Suppliers List

The Biomass Suppliers List (BSL) is a list of suppliers of wood fuel who have been accredited as demonstrating that their fuel meets the sustainability criteria required under the RHI. Recipients of the Domestic RHI will be obliged to source their fuel from suppliers on the BSL. To find an approved supplier in your area go to www.biomass-suppliers-list.service.gov.uk/find-a-fuel

How are pellets delivered?

Wood pellets can be bought in bags of various sizes (typically 10kg or 15kg) or alternatively they can be delivered in bulk by tanker (around one to six tonnes at a time). Buying pellets in bulk is the most cost effective option.

Grant Vecta Internal Wood Pellet Boiler Range

The Vecta is a revolutionary new condensing wood pellet boiler designed and manufactured by Grant. Developed as either, a direct replacement for a floor standing fossil fuelled boiler or as a renewable alternative in any home, it makes biomass heating a viable alternative for off-gas properties.

Its quiet operation and sleek white casing makes the Vecta ideal for installation within a kitchen or utility environment, and its patented condensing technology guarantees an exceptionally high efficiency level.

Available in a modulating output of 4-16kW, the Vecta can be the perfect option for rural homeowners looking to reduce heating bills and, as they are MCS approved, it is also possible take advantage of the current financial incentives under the Domestic Renewable Heat Incentive (RHI).

More information on the Renewable Heat Incentive can be found on the Energy Saving Trust website www.energysavingtrust.org.uk



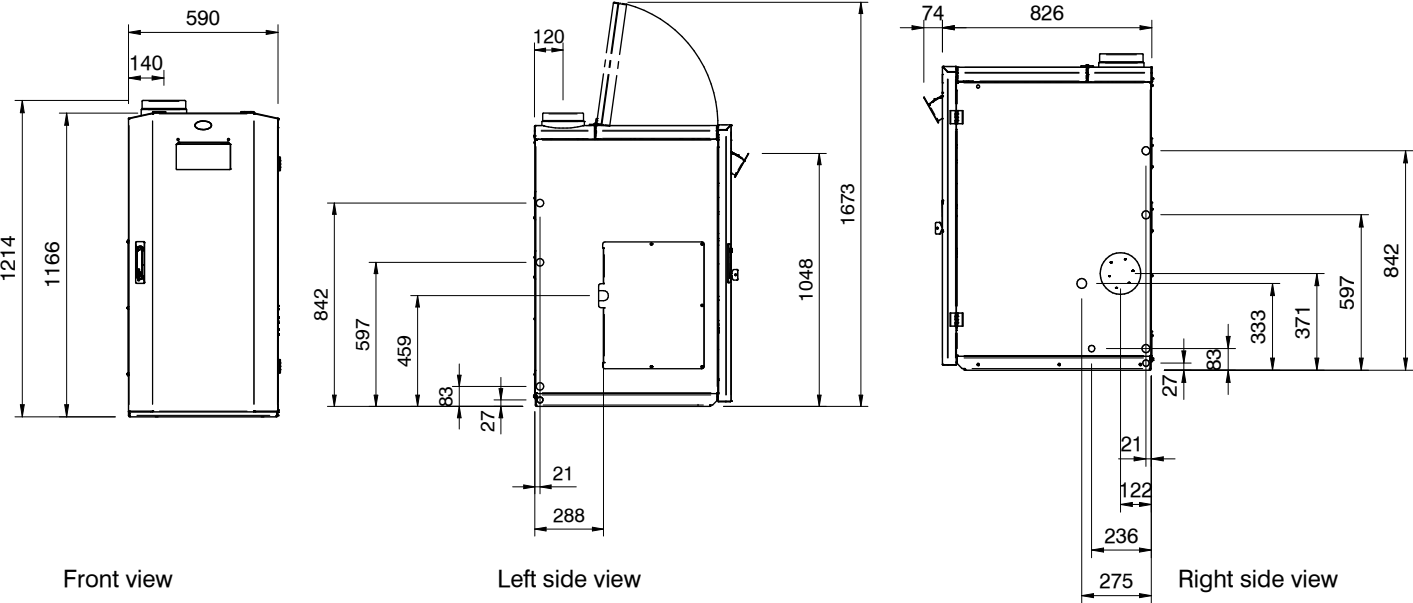
Features

- MCS approved
- Award winning condensing heat exchanger
- Automatic pellet feed and ignition
- Exempt under the Clean Air Act
- Self-cleaning systems for heat exchanger and burner brazier
- Automatic wash system for condensing unit
- Simple to install and maintain
- Intelligent electronic monitoring
- Fitted with Lambda sensor
- Top fill 60kg capacity integral hopper
- Optional 140kg side pellet store available
- Optional remote indicator kit



Note: Grant Vecta boilers cannot be connected to bulk storage tanks or vacuum systems.
Additional flue system components are required.

Vecta Internal Technical Specifications



Boiler model	WVP4/16
Boiler weight (empty - no water content and empty pellet hopper)	255kg
Boiler weight (full - including water content and full pellet hopper)	350kg
Integral Hopper capacity	60kg
Flue	125mm (5")
Wash system connection	15mm
Flow/return connection	22mm
Condensate drain connection	1 1/4" female
Water content	35 litres
Electrical supply	230V 1ph

Controls

The very user friendly controls on the appliance have an easy to follow display showing the boiler operating conditions, including Power On (low illumination), Burner On (high illumination), Pellet Level Low (slow continuous flash), Ash Removal Required (fast continuous flash).

The illuminated Grant logo on the front of the boiler also provides clear indication to the user of when the pellets need to be topped up and when the ash pan needs to be emptied. An optional remote version of this logo indicator is available for when the boiler is installed in a garage or out building (Grant part number WVP/RLI).

Filling the Hopper

The Vecta has a 60kg top fill integral pellet hopper and, as such, is designed to be bag filled. Having no separate hopper means that the boiler is not only compact, but far more versatile when it comes to siting. There is also the option of a separate 140kg side store to increase pellet storage capacity.

Maintenance

The Vecta benefits from a self-cleaning function that periodically cleans the burner and heat exchangers reducing the need for regular maintenance other than emptying the ash pan. Routine servicing is straight forward with the burner and heat exchanger being easily accessible from the front of the boiler. This is required when the control due, or after 12 months, whichever comes first.



Grant **Vecta External** Wood Pellet Boiler Range

The high efficiency Vecta external condensing biomass boiler is the perfect choice when space is limited within the home.

The external Vecta is very similar to the internal Vecta but has some additional unique features including high quality external powder coated paint finish, built in frost protection and conventional flue system connection.

The unit is also available with an optional bolt on side store which can increase the combined pellet storage capacity.



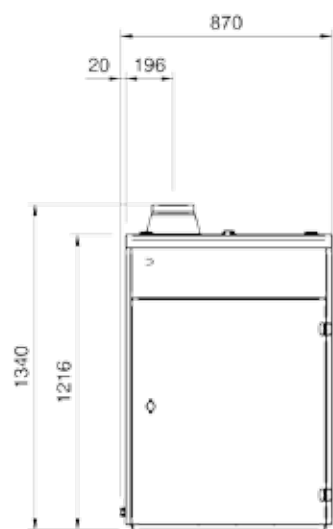
Features

- Modulating output of 4-16kW
- Designed and manufactured by Grant
- 80kg integrated pellet store with optional 140kg side pellet store
- Weather proof powder coated finish
- Automatic pellet feed and ignition
- Automatic wash system for condensing unit
- Self-cleaning system for heat exchanger and burner brazier
- Simple to install and maintain
- Intelligent electronic monitoring
- Fitted with Lambda sensor
- Factory fitted frost protection
- Remote indicator kit (for internal use)
- Supplied with weatherproof external flue inspection pipe (additional flue system components required)

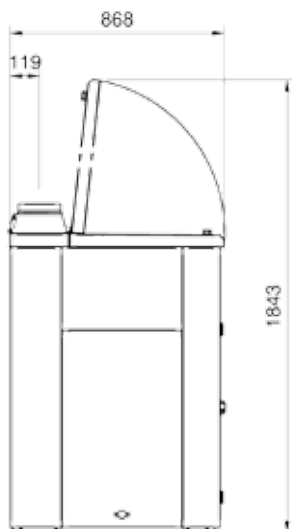
Note: Grant Vecta boilers cannot be connected to bulk storage tanks or vacuum systems



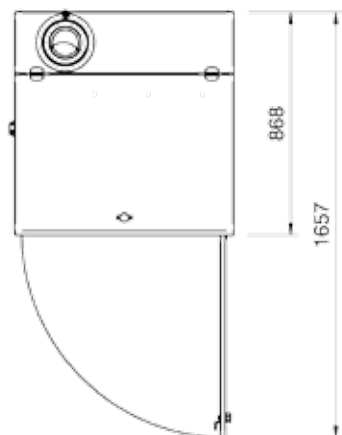
Vecta External **Technical Specifications**



Front view



Left side view



Top view

Boiler model	WVP4/16EXT
Boiler weight (empty - no water content and empty pellet hopper)	265kg
Boiler weight (full - including water content and full pellet hopper)	380kg
Integral Hopper capacity	80kg
Flue	125mm (5")
Wash system connection	15mm
Flow/return connection	22mm
Condensate drain connection	1 1/4" female
Water content	35 litres
Electrical supply	230V 1ph

Controls

The same user friendly control panel fitted to the Internal Vecta is also used on the external model. This features the easy to follow display showing the boiler operating conditions, including Burner on, Low fuel level and Service indication.

Remote Indicator

A remote illuminated Grant indicator (supplied), to be located in the house, also provides clear indication to the user of when the pellets need to be topped up and when the ash pan needs to be emptied.



Vecta Internal **Side Pellet Store**

Designed and manufactured by Grant, the Vecta internal side pellet store is the perfect addition to the Vecta internal boiler increasing pellet storage.

The increased pellet capacity means less frequent filling, making life easier for the end user.

Features

- 140kg capacity
- White casing
- Fits to the right hand side of the boiler (only)
- Top fill via hinged lid with gas struts
- Comes complete with factory fitted feed auger and cable
- Combined pellet storage capacity (boiler + side store) of 200kg

Model	WVP4/16STORE
Capacity	140kg
Height	1162 mm
Height with open lid	1670 mm
Width	650 mm
Width including boiler	1240 mm
Depth	826 mm
Weight (empty)	96kg
Weight (full)	236kg



Vecta External Side Pellet Store

Featuring a high quality external powder coated casing, the Vecta external side pellet store fits neatly next to the Vecta external boiler, increasing the combined pellet storage capacity.

This top fill store can hold up to 140kg of wood pellets and comes complete with feed auger.

Features

- 140kg capacity
- Powder coated stainless steel casing
- Fits to the right hand side of the boiler (only)
- Top fill via hinged lid with gas struts
- Comes complete with feed auger and cable
- Combined pellet storage capacity (boiler + side store) of 220kg

Model	WVP4/16EXTSTORE
Capacity	140kg
Height	1216 mm
Height with open lid	1843 mm
Width	682 mm
Width including boiler	1552 mm
Depth	793 mm
Weight (empty)	80kg
Weight (full)	220kg



Grant **Spira** Condensing Wood Pellet Boiler Range

Featuring Grant's patented stainless steel turbulator baffle system, the Spira Condensing Wood Pellet Boiler delivers award winning efficiency at outputs ranging from 5kW to 72kW.

Our wide range of models ensures that the Spira delivers the right renewable heating solution for your home. Outputs from 52kW - 72kW combine twin boilers with a central pellet hopper.

Features

- MCS approved
- Modulating burner
- Integrated pellet store
- 125mm conventional flue
- Automatic pellet feed and ignition
- Award winning condensing heat exchanger
- Flue box with integral fan/draught stabiliser
- Automatic wash system for condensing unit
- Exempt under the Clean Air Act



The Spira is available as three single boiler models with modulating outputs of 5-18kW, 6-26kW and 9-3kW. They come complete with a pellet hopper and feed auger, which automatically supplies the boiler with fuel under the control of the burner to provide the modulated output.

Installations up to 72kW can also be accommodated, utilising two boilers (separately flued) and a central hopper/twin auger arrangement. Models include 12-52kW, 15-62kW and 18-72kW.

Using two Spira boilers to achieve higher outputs is very cost effective. When the units are combined, their precise electronic burner controls allow both units to modulate as one, down to just 25% of maximum load when the full output is not required. This, combined with the extremely high condensing efficiencies achieved, makes the Spira a unique option when considering a biomass boiler.



How the Grant Spira works

On start up, the auger feeds the wood pellets into the burner where they are lit by an ignition element.

The burner output modulates to achieve the set temperature by controlling the feed rate of pellets. The fan in the burner propels hot gas generated from the fuel into the boiler's primary heat exchanger. The heat energy is then transferred to the water circulating around the radiators/underfloor pipework of the heating system.

It is important to note that in most modern pellet boilers, up to 20% of the energy that is produced is lost to the atmosphere through water vapour exhausted by the flue system. Grant Wood Pellet Boilers have a unique secondary condensing heat exchanger which has been designed to capture some of this lost latent heat energy, so it can achieve extremely high efficiencies.

Siting of Appliance

Internal wood pellet boilers must be installed in a damp free environment. The Grant Spira models are designed to be sited in a garage, store or outhouse. They must not be installed outside or where they are exposed to the elements.

To enable the boiler to operate safely and efficiently, a correctly sized and permanently open air vent (open to the outside) should be provided in the boiler room. It is also important to bear in mind that the boilers will carry out an automatic cleaning cycle at preset intervals. This process will result in a temporary increase in noise level, so should also be considered when choosing a suitable location. Bulk pellet stores will require vehicle access for refilling, making it important to consider where the boiler and its accompanying hopper will be located before purchasing.

Boiler Maintenance

A unique feature of the Grant Spira Condensing Wood Pellet range is that our patented technology results in the boiler requiring very little maintenance compared with other wood pellet appliances.

Spira boilers have an automatic self-cleaning system for the primary and secondary heat exchangers to ensure they stay free of debris. They also feature a self-cleaning burner. Using a Grant approved EN Plus Grade A1 wood pellet with a low ash content minimises boiler maintenance, as larger amounts of pellets can be burned before the ash pan requires emptying - up to 2 tonnes in some instances.

Fuel Storage

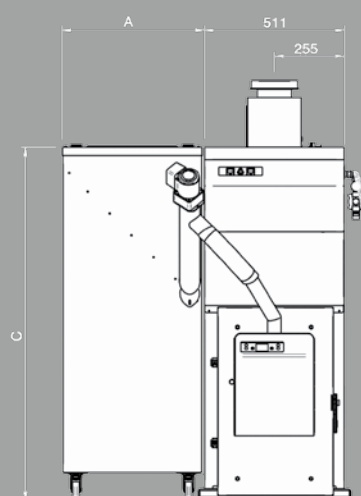
It is very important to ensure you have sufficient space to store the wood pellet fuel. A bulk storage system can be employed for greater pellet capacity e.g. four tonne store. This can be fed directly into the boiler pellet hopper supplied as standard with the Spira boiler.

It is also important to ascertain your pellet supplier's minimum delivery quantity before selecting a store. Some suppliers can charge a premium for deliveries of 3 tonnes or less. Typically you may have up to a tonne of pellets in your store when ordering, so in this situation you would need a 2 tonne top up. As an example, if it is your intention to purchase bulk pellet loads of 3 tonnes, it would be sensible to choose 3.5 or 4 tonne store.

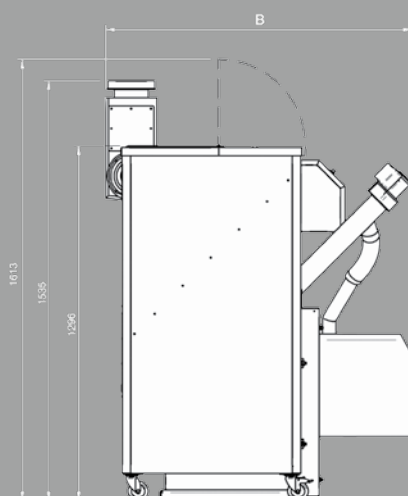
Grant Spira boiler models

Code	Output	Description
WPS518 RH110	5-18kW	18kW biomass boiler c/w 110kg right hand single hopper and feed auger
WPS518 LH110	5-18kW	18kW biomass boiler c/w 110kg left hand single hopper and feed auger
WPS518 RH200	5-18kW	18kW biomass boiler c/w 200kg right hand single hopper and feed auger
WPS518 LH200	5-18kW	18kW biomass boiler c/w 200kg left hand single hopper and feed auger
WPS626 RH110	6-26kW	26kW biomass boiler c/w 110kg right hand single hopper and feed auger
WPS626 LH110	6-26kW	26kW biomass boiler c/w 110kg left hand single hopper and feed auger
WPS626 RH200	6-26kW	26kW biomass boiler c/w 200kg right hand single hopper and feed auger
WPS626 LH200	6-26kW	26kW biomass boiler c/w 200kg left hand single hopper and feed auger
WPS936 RH110	9-36kW	36kW biomass boiler c/w 110kg right hand single hopper and feed auger
WPS936 LH110	9-36kW	36kW biomass boiler c/w 110kg left hand single hopper and feed auger
WPS936 RH200	9-36kW	36kW biomass boiler c/w 200kg right hand single hopper and feed auger
WPS936 LH200	9-36kW	36kW biomass boiler c/w 200kg left hand single hopper and feed auger
WPS1252	12-52kW	2 x 26kW biomass boilers c/w 140kg dual hopper and feed augers
WPS1562	15-62kW	26kW & 36kW biomass boilers c/w 140kg dual hopper and feed augers
WPS1872	18-72kW	2 x 36kW biomass boilers c/w 140kg dual hopper and feed augers

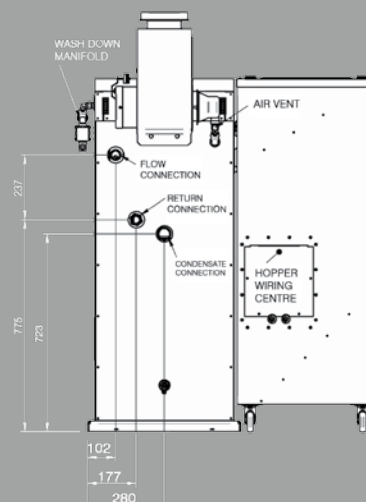
Grant Spira 5-18kW, 6-26kW and 9-36kW Boiler with left/right hand hopper



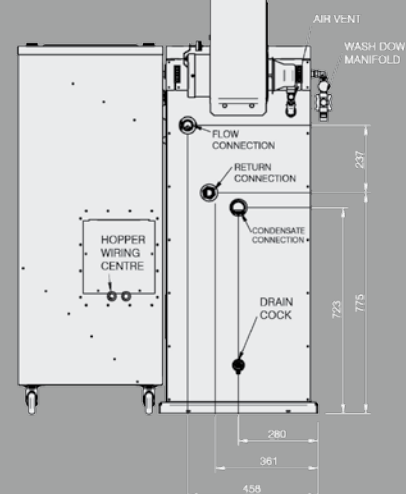
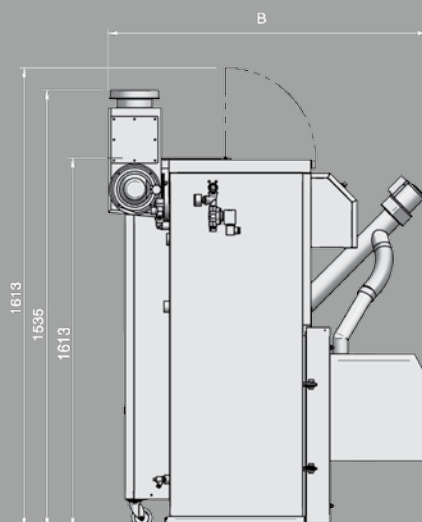
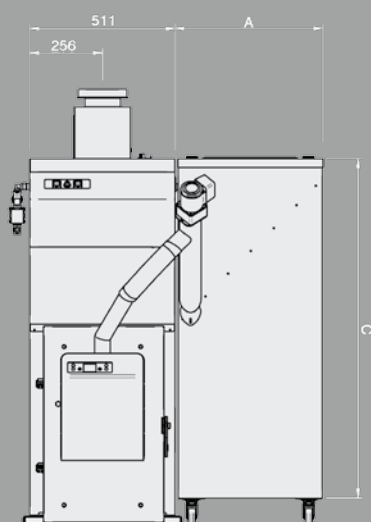
Front view



Side view

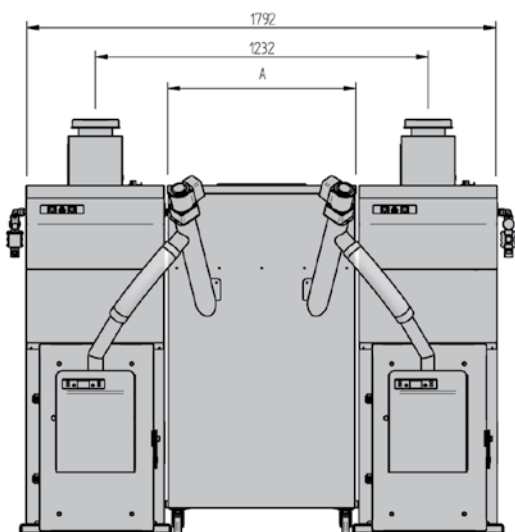


Rear view

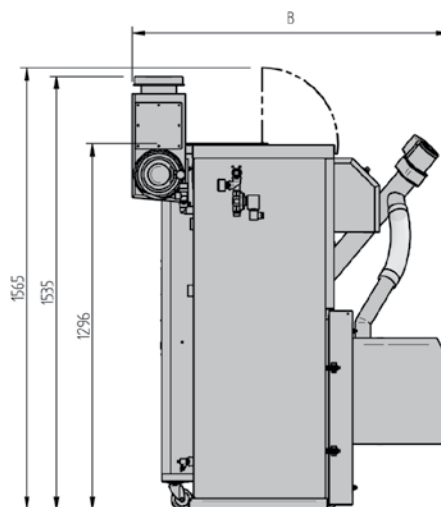


Grant Spira model	Dimensions (mm)		
	A	B	C
5-18kW 110kg left/right hand hopper	518	1120	1296
5-18kW 200kg left/right hand hopper	719	1120	1492
6-26kW 110kg left/right hand hopper	518	1120	1296
6-26kW 200kg left/right hand hopper	719	1120	1492
9-36kW 110kg left/right hand hopper	518	1220	1296
9-36kW 200kg left/right hand hopper	719	1220	1492

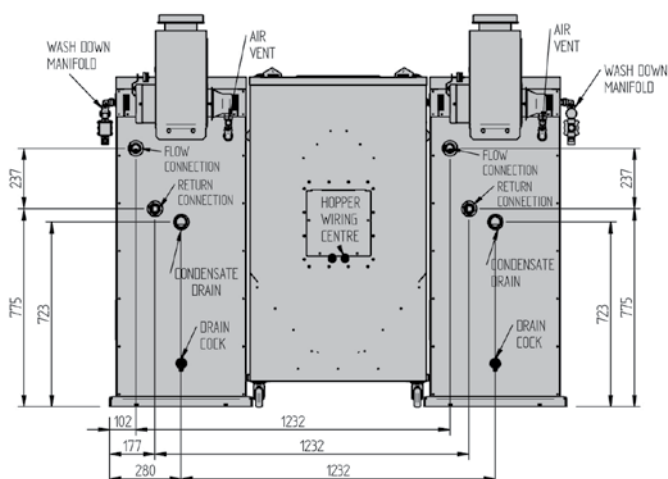
Grant Spira 12-52kW, 15-62kW and 18-72kW Boiler with double hopper



Front view



Side view



Rear view

Grant Spira model	Dimensions (mm)	
	A	B
12-52kW with double hopper	616	1120
15-62kW with double hopper	616	1220
18-72kW with double hopper	616	1220

Grant Spira Technical data

Boiler models	WPS5/18	WPS6/26	WPS9/36	WPS12/52	WPS15/62	WPS18/72
Boiler type	Single	Single	Single	Twin	Twin	Twin
Boiler weight (without hopper)*	231.5kg	231.5kg	261.5kg	463kg	493kg	523kg
110kg hopper weight c/w auger*	41.35kg	41.35kg	41.35kg	n/a	n/a	n/a
200kg hopper weight c/w auger*	77kg	77kg	77kg	n/a	n/a	n/a
140kg twin hopper weight c/w 2 x augers *	n/a	n/a	n/a	42kg	42kg	42kg
Flue	125mm (5")	125mm (5")	125mm (5")	125mm (5") x2	125mm (5") x2	125mm (5") x2
Wash system (condensing unit)	15mm compression	15mm compression	15mm compression	15mm compression	15mm compression	15mm compression
Flow/return connection	1" female	1" female	1 1/4" female	1" female	1" / 1 1/4" female	1 1/4" female
Condensate drain	1 1/4" female	1 1/4" female	1 1/4" female	1 1/4" female	1 1/4" female	1 1/4" female
Water content	51.5 litres	51.5 litres	60 litres	103 litres	111.5 litres	120 litres

*Note: These are empty weights.

Grant **SpiraPod** External Housing Range

The Grant SpiraPod is a purpose built external housing solution for a Spira biomass boiler, allowing for greater flexibility with installation.

The durable and fully weatherproof external casing accommodates all Spira models from 5-36kW and is ideal where internal space is at a premium.

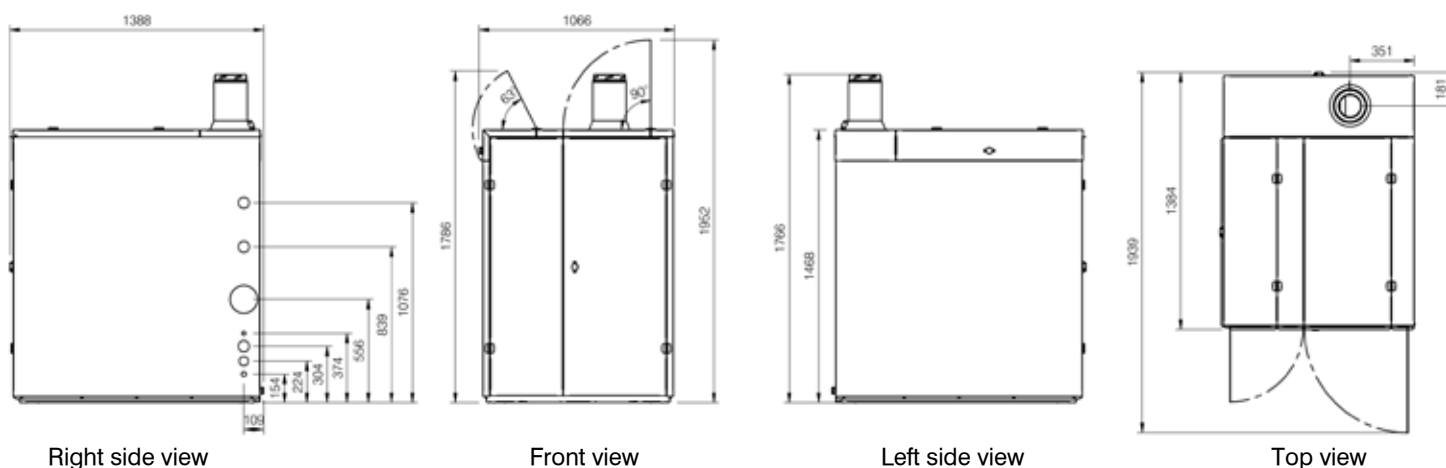
The SpiraPod comes with a 190kg capacity integral hopper and can neatly house both the Grant SpiraVac and sealed system kit too.

Features

- Accommodates all single Spira models, 5-18kW, 6-26kW and 9-36kW
- Designed and manufactured by Grant
- Fully weatherproof galvanised steel casing
- Iconic 'Grant grey' powder coated finish
- Top fill integral hopper with 190kg capacity
- Suitable for vacuum feed
- Optional vacuum system and sealed system kit can be fitted within the casing
- Factory fitted frost protection thermostat
- Lockable doors and access covers
- Ample access for boiler servicing
- Supplied with weatherproof external inspection pipe (additional flue system components required)



SpiraPod Technical Specifications



Grant SpiraPod Models

Code	Description
WSPD18	5-18kW Spira wood pellet boiler and SpiraPod casing
WSPD26	6-26kW Spira wood pellet boiler and SpiraPod casing
WSPD36	9-36kW Spira wood pellet boiler and SpiraPod casing

Access

The Grant SpiraPod is fitted with various access points to allow for easy maintenance and servicing.

- Hinged doors at the front for access to the boiler for routine cleaning, access to the boiler/burner controls and the SpiraVac system controls (if fitted).
- Hinged hopper lid with gas struts on the top left side for manual wood pellet feed.
- Hinged cover panel on the top right side with gas struts to allow access to the top of the boiler for commissioning and servicing.
- Removable door panel at the rear to allow access to the rear of the boiler for commissioning and servicing.
- Lockable door catches on access doors and hopper lid can be fitted with a small padlock (not supplied) if required.

It is important to consider access requirements when choosing a location to site the SpiraPod. The appliance must be positioned such that sufficient clearance is provided for maintenance, servicing and filling of the pellet hopper. Adequate clearance for the flue must also be considered.

Full details are given in the installation instructions supplied with the SpiraPod.



Grant **SpiraVac** Wood Pellet Vacuum

For Spira boiler installations where an auger fed bulk store is unsuitable, the Grant SpiraVac can be utilised. This is particularly useful when the external store needs to be sited further away from the boiler than desired, due to space restrictions.

The SpiraVac is a wood pellet vacuum system that automatically moves fuel from a bulk pellet store to the Spira boiler hopper. After every bulk pellet delivery, customers can be confident that their wood pellet boiler will be continuously fed with enough fuel for several months of routine operation.

The system consists of a cyclone unit and a separate auger vacuum unit on the bulk store, connected by 2 flexible hoses.



Features

- Simple to install
- Available with 5 - 20 metre hose length
- Gives more flexibility with boiler installation
- Lifts pellets up to a height of 3 metres
- Can be retrofitted to an existing hopper
- Maximum hose length of 20 metres
- Designed and manufactured by Grant
- Only for use with the Grant Spira boilers



Grant SpiraVac models

Code	Description
WPV/KIT5INT	SpiraVac Internal Spira kit 5m (1 x 10m hose length)
WPV/KIT10INT	SpiraVac Internal Spira kit 10m (2 x 10m hose length)
WPV/KIT15INT	SpiraVac Internal Spira kit 15m (2 x 15m hose length)
WPV/KIT20INT	SpiraVac Internal Spira kit 20m (2 x 20m hose length)
WPV/KIT5POD	SpiraVac SpiraPod kit 5m (1 x 10m hose length)
WPV/KIT10POD	SpiraVac SpiraPod kit 10m (2 x 10m hose length)
WPV/KIT15POD	SpiraVac SpiraPod kit 15m (2 x 15m hose length)
WPV/KIT20POD	SpiraVac SpiraPod kit 20m (2 x 20m hose length)



Model shown: SpiraVac SpiraPod kit

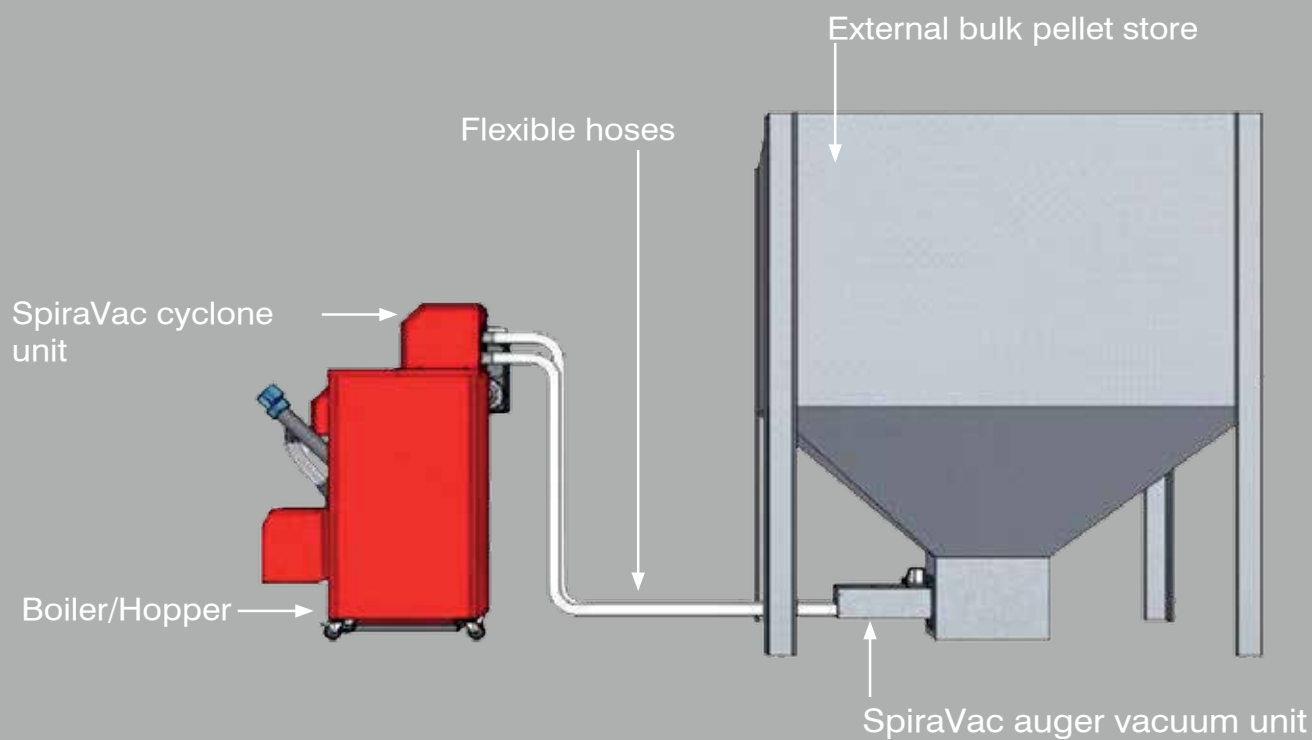


Diagram showing installation with internal Spira boiler

Wood pellets can be bought in bags of various sizes (typically 10kg or 15kg), or alternatively they can be delivered in bulk load by tanker and blown straight into a pellet store. Buying wood pellets in bulk is by far the more cost effective option. They can be fed via auger or vacuum directly into the boiler hopper, eliminating the need for manual filling.

Our bulk pellet stores come in sizes ranging from 500kg to 6 tonnes and are suitable for internal or external installation. They are also designed and manufactured by Grant, so you can be confident that you are getting the quality and reliability synonymous with the Grant name.

What size of bulk store should you choose?

It is important to ascertain your pellet supplier's minimum delivery quantity before selecting a store. Some suppliers can charge a premium for deliveries of 3 tonnes or less.

Typically you may have up to a tonne of pellets in your store when ordering, so in this situation you would only need a 2 tonne top up. As an example, if it is your intention to purchase bulk pellet loads of 3 tonnes, it would be sensible to choose a 3.5 or 4 tonne store.

Siting of the store

Whether installing your store internally or externally it is important to ensure that sufficient space is available for siting the unit.

You will also need to have clear access for lorries to deliver the pellets so this needs to be considered when choosing a location.

The pellet store must be mounted on a level, solid surface, i.e. concrete or paving slabs with a hard core base to a depth of at least 200mm. This must also extend past the footprint of the pellet store by at least 200mm.

It's important to remember that a minimal amount of dust can escape through the lid vent when filling a bulk pellet store. This may be particularly evident when the store is sited internally.



Wood Pellet Stores Overview

500 - 750kg Models

- Powder coated finish
- Ready assembled for quick installation
- Foot print of 1m x 1m
- Easy side access maintenance door for cleaning
- Galvanised steel construction
- Universal auger or vacuum connection
- Designed for bag fill
- Lockable top fill door



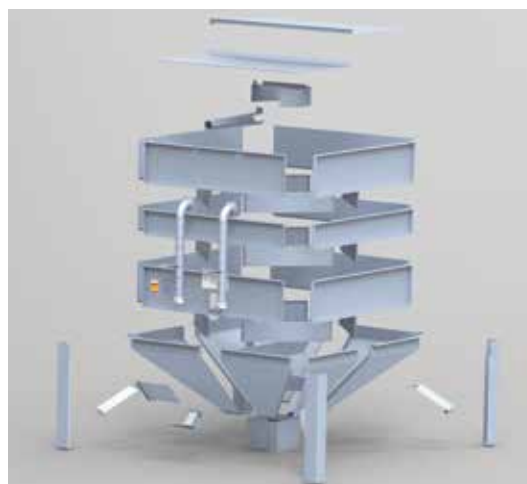
1.5 - 2.5 Tonne models

- Galvanised finish
- Flat packed
- Foot print of 2m x 1m
- Easy side access maintenance door for cleaning
- Galvanised steel construction
- Universal auger or vacuum connection
- Unique cyclone pellet filling system
- Quick seal joints for easy assembly



3 - 6 Tonne models

- Galvanised finish
- Flat packed
- Foot print of 2m x 2m
- Easy side access maintenance door for cleaning
- Galvanised steel construction
- Universal auger or vacuum connection
- Unique cyclone pellet filling system
- Quick seal joints for easy assembly



Note: Grant pellet stores are not suitable for use with Vecta boilers.

Model Information



0.5 Tonne	Product Code	Finish	Footprint	Height	Weight (empty)	Weight (full)
	WPXG05TP	Powder Coated	1m x 1m	1385 mm	70 kg	570 kg



0.75 Tonne	Product Code	Finish	Footprint	Height	Weight (empty)	Weight (full)
	WPXG075TP	Powder Coated	1m x 1m	1725 mm	83 kg	833 kg



1.5 Tonne	Product Code	Finish	Footprint	Height	Weight (empty)	Weight (full)
	WPXG15T	Galvanised	2m x 1m	2405 mm	310 kg	1810 kg



2 Tonne	Product Code	Finish	Footprint	Height	Weight (empty)	Weight (full)
	WPXG2T	Galvanised	2m x 1m	2710 mm	360 kg	2360 kg



2.5 Tonne	Product Code	Finish	Footprint	Height	Weight (empty)	Weight (full)
	WPXG25T	Galvanised	2m x 1m	2910 mm	375 kg	2875 kg



3 Tonne	Product Code	Finish	Footprint	Height	Weight (empty)	Weight (full)
	WPXG3T	Galvanised	2m x 2m	2405 mm	410 kg	3410 kg



3.5 Tonne	Product Code	Finish	Footprint	Height	Weight (empty)	Weight (full)
	WPXG35T	Galvanised	2m x 2m	2710 mm	472 kg	3972 kg



4 Tonne	Product Code	Finish	Footprint	Height	Weight (empty)	Weight (full)
	WPXG4T	Galvanised	2m x 2m	2910 mm	493 kg	4493 kg



5 Tonne	Product Code	Finish	Footprint	Height	Weight (empty)	Weight (full)
	WPXG5T	Galvanised	2m x 2m	3210 mm	555 kg	5555 kg



6 Tonne	Product Code	Finish	Footprint	Height	Weight (empty)	Weight (full)
	WPXG6T	Galvanised	2m x 2m	3410 mm	577 kg	6577 kg



This 125mm (5") vertical conventional stainless steel, twin wall insulated flue system is specifically designed for use with all Grant pellet boilers.

It has been fabricated to cope with continuous operating temperatures of up to 200°C although the typical flue gas temperature produced by Grant biomass boilers is less than 80°C. The system is designed so that the stainless steel outer case is load bearing and stainless steel inner liner is free to expand independently to accommodate temperature change.

CE designation of the flue system (to EN1856-1) is T450 N1 W V2 L50 050 G 60.

Available with a range of extension pieces and bends, the system can easily be assembled to suit a wide variety of installations.

Assembly

Biomass flue system components are joined together by placing the female collar of one section over the corresponding male collar of the preceding section then locking by rotating the upper section clockwise. It is vital that all flue components are installed with the male collar pointing upwards. An arrow on the label indicates the flue gas direction.

The inner of each section is enlarged at the male end so that the female end of the other section or fitting enters into it and overlaps. This allows any condensation to run back to the boiler without escaping from joints.

Flue Runs

The flue should remain as straight as possible through its vertical run to assist flow. Should it be necessary to angle the flue run, an offset no greater than 45° to the vertical, with a run between the bends not exceeding 20% of the overall height of

the chimney should be maintained. A vertical rise of 600mm should be allowed immediately above the appliance before any offsets. Flue systems should be installed to the requirements of Building Regulations Document J (England & Wales) and building standards (Part F) in Scotland. Flue must be a minimum of 60mm away from any combustible material.

Features

- Twist-lock bayonet jointing system including seals, secured by locking bands.
- Advanced corrosion resistant design and construction uses laser welded stainless steel inner liner and case.
- The 25mm high efficiency Superwool blanket maintains flue gas temperature, maximising efficiency, improving flue draught on start up and minimising condensation.
- Low external case temperature.
- Inner liner held by the male locking collar but free to expand and contract with temperature by up to 18mm through the female collar.
- The inner liner has an inward bead at the female end which acts as a capillary break preventing moisture being drawn through the joint.
- CE certified denotes it is fully compliant with the new regulations in force from 1st July 2013
- Internal flue system components available in white or black powder paint finish
- External components available in black powder paint finish only



Wall support side plate

WPB/WS Models up to 36kW



Intermediate top plate

WPB/TP Models up to 36kW



Raincap

WPB/RC Models up to 36kW



Viton gasket*

WP/02 Models up to 36kW

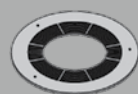
*supplied as standard with extensions and bends.



Firestop plate

WPB/FP Models up to 36kW

WPW/FP Models up to 36kW



Support plate (2 piece)

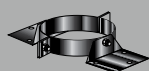
WPB/SP Models up to 36kW

WPW/SP Models up to 36kW



Roof support band

WP/RS Models up to 36kW



Guy wire bracket

WP/GB Models up to 36kW



Uni flashing (80mm-200mm)

WP/UF200 Models up to 36kW



Storm collar

WPB/SC Models up to 36kW



Pitched flashing (lead)

WP/PFL Models up to 36kW



Anchor plate/flexi liner adaptor

WPB/AP Models up to 36kW



Extension to flexi liner adaptor

WPB/CA Models up to 36kW

WPW/CA Models up to 36kW



Inspection pipe*

WPB/IP Models up to 36kW

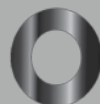
WPW/IP Models up to 36kW



Trim collar (for wall sleeve 45°)

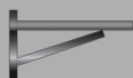
WPB/TC Models up to 36kW

WPW/TC Models up to 36kW



Flue cantilever (570mm)

WPB/CANT Models up to 36kW



Extension 1000mm

WPB/EXT1000 Models up to 36kW

WPW/EXT1000 Models up to 36kW



Extension 500mm

WPB/EXT500 Models up to 36kW

WPW/EXT500 Models up to 36kW



Extension 333mm

WPB/EXT333 Models up to 36kW

WPW/EXT333 Models up to 36kW



Extension 160mm

WPB/EXT160 Models up to 36kW

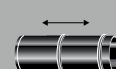
WPW/EXT160 Models up to 36kW



Adjustable extension 75mm-250mm

WPB/ADJ250 Models up to 36kW

WPW/ADJ250 Models up to 36kW



Note: An additional extension is required when purchasing an adjustable section.

30° bend

WPB/30 Models up to 36kW

WPW/30 Models up to 36kW



45° bend

WPB/45 Models up to 36kW

WPW/45 Models up to 36kW



Locking band

WPB/01 Models up to 36kW



Extended structural locking band

WPB/LBEXT Models up to 36kW



Wall bracket 60mm

WPB/WB60 Models up to 36kW

WPW/WB60 Models up to 36kW



Adjustable Wall brackets 50-300mm

WPB/WB300 Models up to 36kW

WPW/WB300 Models up to 36kW



Wall sleeve 45°

WP/SLE Models up to 36kW

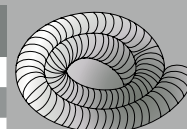


125mm flexible stainless steel liners (includes box kit with WPB/AP, WPB/CA and WPB/RC)

WPKIT6/125 6m Models up to 36kW

WPKIT8/125 8m Models up to 36kW

WPKIT10/125 10m Models up to 36kW



Key

WPB Black painted products

WPW White painted products

Note: Boilers over 36kW will require two independent flue systems. If this is not possible, please contact Grant UK for guidance.

*For use with indoor boiler installations only

Important

Only the Grant Biomass flue system can be used with Grant pellet boilers, as it has been designed to enable efficient operation and reliability. Failure to comply with the above, may result in the guarantee becoming invalid.

A maximum of two 45° bends should be used in the flue run. This can be increased to a maximum of four between the boiler and the terminal if an inspection pipe is fitted between the second and third elbows.

Grant Biomass Forum

Take a look at the Grant Biomass Forum. It is designed to help installers find answers to technical queries and allow discussions with other heating installers about wood pellet boilers and related topics: www.grantbiomassforum.com

Guarantees

Grant Engineering (UK) Limited guarantees the manufacture of the boiler including all electrical and mechanical components for a period of **twelve months from the date of installation**, unless the installation was more than six months from the date of purchase, in which case the guarantee period will commence six months from the date of purchase, provided that the boiler has been installed in full accordance with the installation and servicing manual issued. This will be extended to a total period of **two years** if the boiler is registered with Grant Engineering (UK) Limited **within thirty days of installation** and serviced at twelve monthly intervals. To register your boiler visit: www.grantuk.com. The shell (heat exchanger) of the boiler is also covered by a **five year parts only** guarantee from the date of purchase. This is subject to the following:

- a) The boiler is operated correctly, in accordance with the installation and servicing manual.
- b) Proof is provided that the system has been flushed or chemically cleaned where appropriate (refer to BS 7593) and the required quantity of a suitable corrosion inhibitor added.
- c) Proof of annual servicing (including the checking of any expansion vessels and pressure relief valves) must be provided if and when requested by the Company.

IMPORTANT - Grant Engineering (UK) Limited **strongly recommends** that a in-line magnetic filter is fitted in the heating system pipe work. This should be installed and regularly serviced in accordance with the installation instructions.



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Aftersales Service

For peace of mind, Grant biomass boilers are backed by a national network of independent service engineers. In the unlikely event of a problem occurring, your installer should telephone our Customer Service Department on: **+44 (0)1380 736920**.

Fuel

The Grant Spira and Vecta boilers are designed to run only on 6mm diameter EN Plus Grade A1 wood pellets (conforming to EN14961-2). Under no circumstances should any other form of biomass fuel be used with these boilers. Pellets must be bark and sand free and previously tested by Grant before being used on a Grant biomass boiler. Failure to use pellets that meet these conditions will invalidate the product guarantee. For further information on wood pellet compatibility kindly contact our Pre Sales team on **+44 (0)1380 736920**.

This leaflet is accurate at the time of printing but as Grant UK has a policy of continual improvement it may be superseded. We reserve the right to amend specifications without prior notice. The statutory rights of the consumer are not affected. All products manufactured under I.S. EN ISO 9001. Grant UK additionally holds ISO 14001 accreditation. TMTHE GRANT 'EZ-FIT FLUE' SYSTEM is a trade mark of Grant Engineering Ireland ULC.

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