

# Grant Biomass Chimney System

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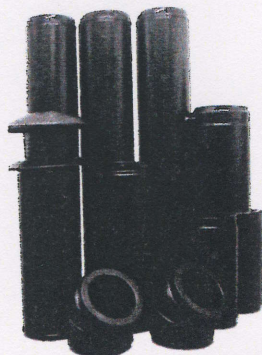
The Grant Spira has its own Biomass chimney system suitable for Condensing Biomass boilers. This 125mm (5") vertical conventional stainless steel, twin wall insulated chimney system is specifically designed for use with Grant pellet boilers.

It has been fabricated to cope with continuous operating temperatures of up to 200°C although the typical flue gas temperature produced by the Spira 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.

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

## 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.



## 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.

## Chimney Runs

The chimney should remain as straight as possible through its vertical run to assist flow. Should it be necessary to angle the chimney run, an offset no greater than 45° to the vertical flue. A vertical rise of 600mm should be allowed immediately above the appliance before any offsets. Reference for both guidelines can be found in the Building Regulations Document J (England & Wales) and building standards (Part F) in Scotland.





## Chimney Components

### Wall support side plate

WP/WS Models up to 36kW



### Intermediate top plate

WP/TP Models up to 36kW



### Raincap

WP/RC Models up to 36kW



### Viton gasket\*

WP/O2 Models up to 36kW

\*supplied as standard with extensions and bends.



### Firestop plate

WP/FP Models up to 36kW



### Support plate (2 piece)

WP/SP Models up to 36kW



### Roof support band

WP/RS Models up to 36kW



### Guy wire bracket

WP/GB Models up to 36kW



### 80mm-200mm uni flashing

WP/UF200 Models up to 36kW



### Storm collar

WP/SC Models up to 36kW



### Anchor plate/flue adaptor

WP/AP Models up to 36kW



### Extension to flue adaptor

WP/CA Models up to 36kW



### Inspection pipe

WP/IP Models up to 36kW



### Important

Biomass chimney lengths cannot be cut. Adjustable extensions must be used to achieve desired length.

## Extensions and Bends

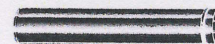
### Extension 1500mm

WP/EXT1500 Models up to 36kW



### Extension 1000mm

WP/EXT1000 Models up to 36kW



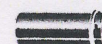
### Extension 500mm

WP/EXT500 Models up to 36kW



### Extension 333mm

WP/EXT333 Models up to 36kW



### Adjustable extension 75mm-250mm

WP/ADJ250 Models up to 36kW



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

### 30° bend

WP/30 Models up to 36kW



### Locking band

WP/01 Models up to 36kW



### 45° bend

WP/45 Models up to 36kW



## Chimney Accessories

### Wall bracket 50mm

WP/WB50 Models up to 36kW



### Wall bracket 50-300mm

WP/WB300 Models up to 36kW



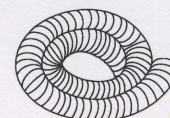
## Flexi Flue Liner Kits

### 125mm stainless steel liners (inc. box kit)

WPKIT6/125 6m Models up to 36kW

WPKIT8/125 8m Models up to 36kW

WPKIT10/125 10m Models up to 36kW



### Important

Only the Grant Biomass chimney 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 warranty becoming invalid.

### Important

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

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