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Conventional Flue System Assembly instructions for 'Orange' System

Incorporating smooth bore flexible flue liner

Suitable for Grant Vortex Condensing boilers

Application

The Grant Orange flue system comes in two sizes – 100mm and 125mm. Please check that you are using the correct size for the boiler being installed, as follows:

100mm Orange system is used for

- Vortex 15/26 Kitchen, Kitchen System, Utility and Utility System
- Vortex 26/36 Utility and Utility System
- Vortex 36/46 Utility and Utility System
- Vortex Combi 26 and Vortex Combi 36

125mm Orange system is used for

- Vortex 46/58 Utility
- Vortex 58/70 Utility

Important: Maximum vertical height of flue (top of boiler to terminal) is 19 metres

Contents of Grant EZ Fit Flexi Pack

The pack includes:

- A smooth bore flexible stainless steel flue liner – 100mm or 125mm diameter
- A flue terminal
- A top plate and clamp
- A rigid to flexible flue connector (for bottom end of liner) - with locking band and screws
- A boiler connector – with fixings – for Grant Vortex condensing boilers only
- Silicone sealant
- Lubricating grease (for seals)

Extensions

- A range of white powder coated single wall extensions are available to connect the boiler to the rigid to flexible flue connector at the bottom of the liner.
- The external diameter of these extensions is either 100mm or 125mm – depending on the size of system used. Each extension is supplied with a locking band.
- Flue extensions cannot be cut. An adjustable extension is available.
- 45° elbows are also available.

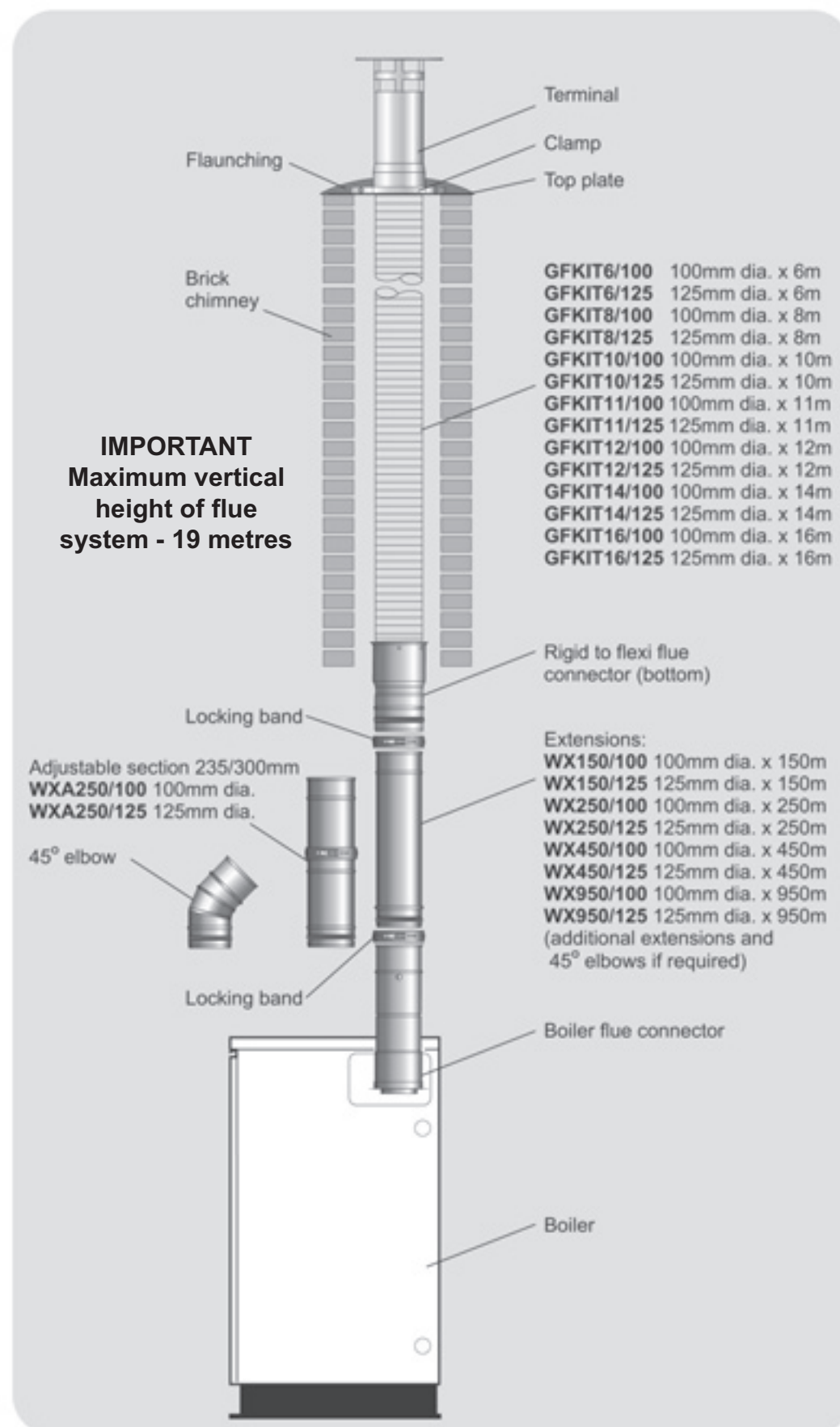
Assembly instructions

Refer to the illustration opposite and over page.

IMPORTANT: Lubricate all seals with the grease provided before assembly.

Locking bands are directional and must be fitted with the toggle clip mechanism on the left hand side to be the correct way up. Refer to illustration opposite.

1. Unpack the flexi flue kit pack and check the contents of the kit.



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IMPORTANT: Note that the liner has arrows marked on the outside pointing in the direction of flue gas flow. The liner MUST be fitted with the direction arrows pointing UPWARDS. Failure to install the liner correctly will result in a leakage of condensate and will not be covered by the product warranty.

2. Ensure that the existing chimney has been thoroughly swept.

3. Working from the top of the chimney, insert the flexible flue liner into the chimney. From below, ensure that the liner will be long enough to reach the rigid flue connected to the boiler.

IMPORTANT: The bottom rigid to flexible connector MUST be installed vertically. Failure to do may result in condensate leakage and will not be covered by the product warranty.

4. Working at the bottom end of the flexible liner, fit the rigid to flexible connector – pushing the liner fully into the connector. Fully tighten the three retaining screws to secure the liner. Seal around the joint using the sealant supplied. Finally, position the rigid to flexible connector as required for connection to the rigid flue from the boiler.

5. At the top of the chimney; position the top plate on top of the chimney with the flexible liner passing through the hole in the plate. Secure the liner using the clamp provided.

Cut off any excess flue liner to leave 40mm of liner above the top edge of the clamp.

6. To cut the liner; grasp the flexible liner with sufficient pressure to securely hold it but not enough to crush it. Cut with a hacksaw at the required mark. Finally, trim off any remaining sharp sections with tin snips.

IMPORTANT: Always wear suitable safety gloves to protect hands from sharp edges.

7. Fit the end of the flue terminal into the open end of the flexible liner. Push terminal down until flexible liner is fully inserted into collar around terminal.

Using a 2mm drill, spot drill the liner through the three holes in the collar and secure using the 3 self-tapping screws provided. The top plate and clamp must then be flaunched over with mortar.

8. Remove the top casing panels from the boiler.

9. Fully screw the length of threaded studding (provided in the kit) into the nut located in the centre of the boiler flue outlet.

10. Fit the boiler connector over the threaded studding. Position flange onto neoprene gasket around the boiler flue outlet, ensuring that the small spigot on the base of the connector is located in the hole in the centre of the gasket and that end of studding passes through the hole in the spacer bracket (inside the boiler connector).

11. Fit the washer and wing nut (provided in the kit) onto end of threaded studding and tighten wing nut down to secure the boiler connector in place.

12. Remove the blank cover from the top rear casing panel and fit the flue dress plate (with round hole) provided with the boiler. Note that it will be necessary to remove the insulation in the underside of the panel to do this. After re-fitting the insulation, cut a hole in it with a sharp knife, using the hole in the dress plate as a guide.

13. Re-fit the top rear casing panel to the boiler.

14. Fit the first flue extension into the boiler connector.

IMPORTANT: Lubricate all seals with the grease provided before assembly.

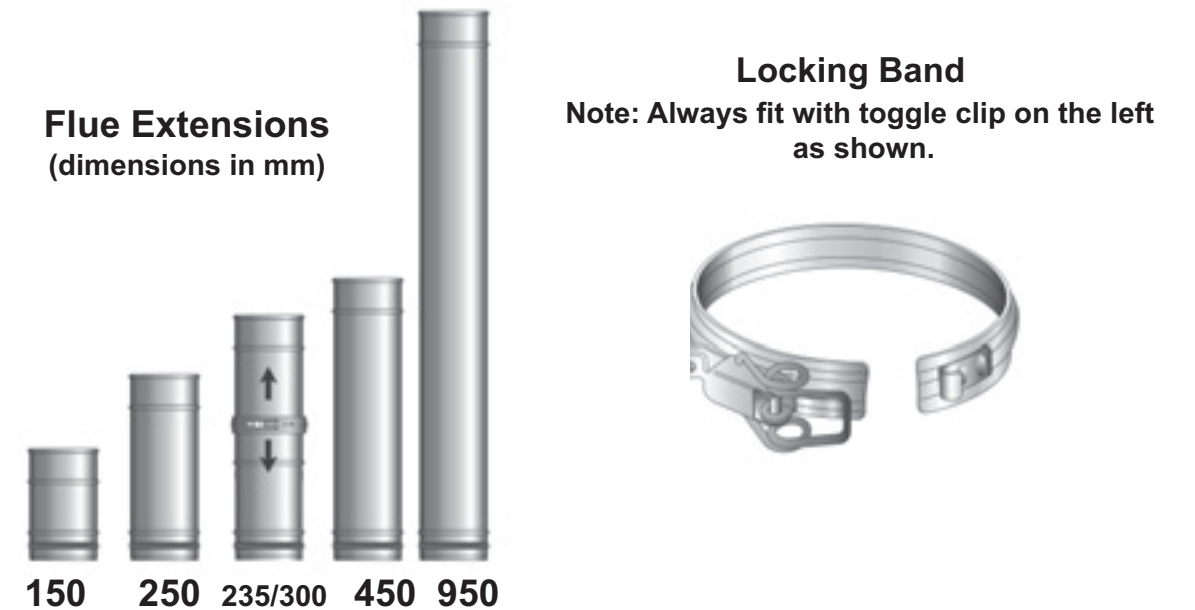
15. Fit locking band to joint – ensuring band is correct way up (i.e. with toggle clamp assembly to the left hand side – see illustration).

16. Repeat procedure with all other flue extensions/elbows as required.

IMPORTANT: An adjustable section should be incorporated in the rigid flue section of the system to provide a means of disconnecting the boiler from the flue system and to allow access to the flue pipe for inspection/cleaning.

16. Repeat procedure with all other flue extensions/elbows as required.

IMPORTANT: An adjustable section should be incorporated in the rigid flue section of the system. This provides a means of disconnecting the boiler from the flue system and to allow access to the flue pipe for inspection/cleaning.



Contents of Grant EZ Fit Flexi Pack
Note: Silicone sealant and lubricating grease for seals not shown

