

# Technical Bulletin

## Installation: Oil boilers – conventional flues

### AMENDMENT TO MANUALS

The advice in this Technical Bulletin refers to open (conventional) flues installed with Greenstar & Danesmoor oil boilers and can be applied retrospectively to installations that do not achieve the minimum distance specified in the installation manuals from the boiler to the first flue bend.


**Fig 1: Shows the advice that is contained in our current installation manuals.**

The flue diagram and line of text in current installation manuals (highlighted in Fig 1) which states “Height of first bend from the top of boiler (min 600mm)” **has been amended to state “The first bend must be external to the boiler case”.**

**Additional advice:** The flue must exit the boiler case through the vertical outlet. It should not exit to the rear, left or right-hand side.

Flexible flue liners must only be used for lining or relining chimneys, they should not be used as a chimney on their own, as a connecting flue pipe or outside a masonry or flue-block chimney.

Flexible flue liners and connecting pipes must comply with the designations specified in BS 5410.



Pre-Installation

### 4.9 Flue options

#### 4.9.1 Conventional flue (CF)

- Open (conventional) flued appliances must not be installed in a bedroom, bathroom, bed-sitting room or garage.
- The flue system must be in accordance with BS 5410: Part 1 and the current Building Regulations.
- The flue must be constructed of materials suitable for use with condensing combustion products.
- External flue systems must be of the insulated type.
- Brick and masonry chimneys must be lined with a suitable non-combustible material and properly jointed to withstand the effects of the working temperature (minimum rating of material 120°C) of the appliance and any condensate which may form.
- All flue joints must be sealed to prevent the leakage of condensate and combustion products.
- Ensure that joints are made so that the condensate runs away and is not collected within the joint.

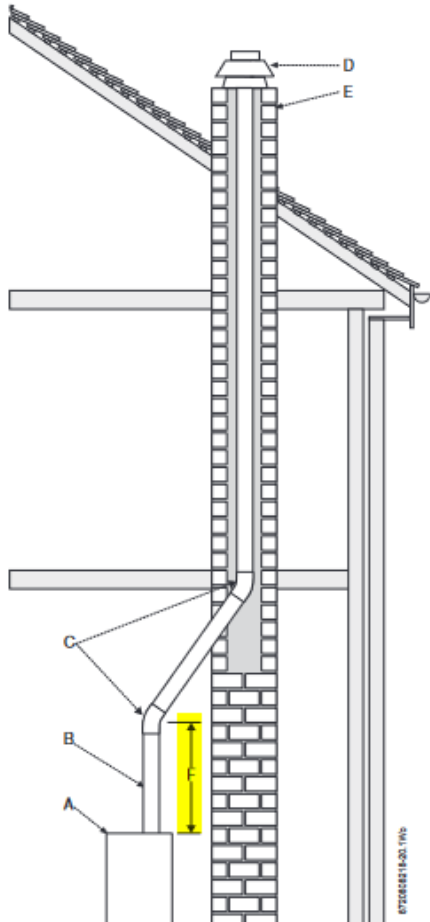
**i** The flue can be increased in size from the boiler take off point providing the joint is correctly sealed. Never reduce the flue diameter from the boiler take off point.

**CF Sizing:**

- ▶ 12/18 and 18/25 = 100/103mmØ
- ▶ 25/32 = 130mmØ\*

\* Unless installing a Worcester Greenstar Oilflit Conventional Flexible flue.

- Because the flue operates at a lower temperature on a condensing boiler compared to that of a conventional appliance, the flue draught will be lower. Typically the draught will be between 0.5mmwg and 4.4mmwg, measured with the flue warm but the burner not firing. The actual figure will vary depending on weather conditions, flue height and position.
- The flue should be vertical and contain as few bends as possible, a maximum of two 135° bends should be used.
- The flue outlet must be extended beyond the eaves of the building and where possible, above the apex.
- Fit a suitable anti down-draught terminal where down draughts are experienced.



**Fig. 26 Conventional flue**

- [A] Boiler
- [B] Stainless steel flue
- [C] Max. two bends at 135°
- [D] Anti down-draught terminal
- [E] Chimney
- [F] Height to first bend from top of boiler (min. 600mm)

Fig 1

Whilst it is always our intention to fully assist, it is essential to recognise that all information given by the company in response to an enquiry of any nature is provided in good faith and based upon the information provided with the enquiry. We recommend that advice should always be checked with your installer or contract partner. Consequently, the company cannot be held responsible for any liability relating to the use or repetition of such information or part thereof. In addition, whilst making every reasonable effort to monitor the performance and quality of our supply, installation and service network, we do not accept responsibility for the workmanship or operation of any third party company that the company may have promoted either in conversation, e-mail, or other communication. Similarly, the views and opinions expressed in communication with individuals within the company may not reflect that of the business as a whole.

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