United Kingdom

**en**

# Multifit

These Guidance Notes cover the following boiler models:

**Baxi**

400 Combi 2
600 Combi 2
800 Combi 2
Assure 500 Combi 2

600 System 2
800 System 2
Assure 500 System 2

In addition the following boilers manufactured after 24th June 2024*

**Baxi**

Duo-tec Compact Combi
Platinum Compact Combi
Megaflo Compact System

**Main**

Eco Compact Combi
Eco Compact System

*Identifiable from the serial number - year and week formats
XXX**2426**XXXXXXX or higher

## Guidance Notes

## Flue Accessories Fitting Guide

Ø 60/100 Flue Systems
Ø 80/125 Flue Systems
Plume Displacement Kit (Ø 60/100 Flue Systems)

**READ THESE INSTRUCTIONS IN CONJUNCTION WITH THE BOILER INSTALLATION MANUAL BEFORE FITTING THE FLUE**

**IMPORTANT NOTE: This document will assist in the correct installation of the various flue & chimney systems described within. However, it is the responsibility of the installer/gas safe registered commissioning engineer to ensure that the flue & chimney system is fitted safely and in compliance with the relevant standards and practices in force in the country of installation.**

**Important**
Please read before continuing with the flue installation!

• Flue systems must be constructed using only components approved for use with the appliance and installed in accordance with BS 5440 Part 1, any manufacturers instructions and Part J of the Building Regulations.

• In order to meet the requirements of the Gas Safety (Installation & Use) Regulations provision should be made such that all flue joints and supports can be inspected.

• The flue system should have a continuous fall back to the boiler (1.5° to 3°) and be supported at least once every metre using suitable support brackets (where shorter straight lengths are used, for example between two bends, these should also be supported).

• Ensure that the there are no 'dips' in the flue system.

• All fittings should be correctly engaged and secured where necessary.

• Flue extensions can be cut to length if necessary. The cut end should be square and de-burred to prevent damage to seals when assembling to a fitting.

• The MAXIMUM total equivalent length is given in the boiler Installation & Service Manual.

• If the flue system is to be fitted prior to the boiler temporary precautions must be taken to prevent rain entry into the room of installation. Any precautionary measures must be removed prior to fitting the boiler.

• It is the responsibility of the installer to ensure the integrity of the flue & chimney system before commissioning the boiler.

## FLUE TERMINATIONS

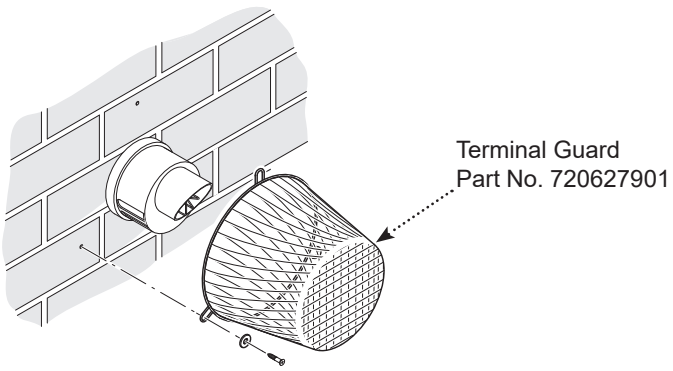
• It is important to protect building structures from the condensate plume produced from the boiler exhaust duct flue terminal. This should always be directed away, by using plume deflector or PDK if necessary. Where PDK's terminate under balconies it is recommended to extend the terminal beyond the balcony.

## TERMINAL GUARDS

• It is necessary to use a Terminal Guard where there exists the risk of blockage and/or damage to the terminal or air intake of the PDK, and also in instances where there is a risk of injury to people, including the possibility of exposure to high temperatures.

• Any terminal that is less than 2 metres above finished floor or ground level must be guarded. This also applies when terminals are positioned above flat roofs and balconies to which there is regular unimpeded access.

• A guard must not prevent correct & safe operation of the appliance the terminal is connected to.




## CHIMNEYS & FLUES IN VOIDS

"Voids" includes ceiling & floor voids, purpose-built enclosures, service risers, certain types of roof space and any other enclosure that restricts access to the chimney.

The need to inspect applies to all types of chimney system.

The requirement to inspect does not apply where a boiler is mounted on the wall and the chimney system runs within the building structure (e.g. direct from the rear of the boiler through the wall to outside).

A proprietary liner containing a chimney system is also exempt, providing there are no joints in this part of the system.

B.S. 5440-1, Gas Safety (Installation & Use) Regulations and any Gas Safe Register Technical Bulletins must be consulted.

Chimney systems must not pass through other properties because access may not always be available for inspection.

Access must be provided at strategic locations to allow inspection to confirm:

i) all voids containing a concealed chimney system must have at least one hatch
ii) hatches must be at least 300 mm x 300 mm
iii) no joint in the flue must be further than 1.5 m from the edge of the nearest hatch
iv) hatches should, where possible, be located at changes of direction in the flue
v) where iv) is not possible bends should fully visible from both directions

As far as practicable hatches should be installed in non-habitable areas such as cupboards and passageways.

A Gas Safe Registered engineer should always be consulted when considering the positioning of inspection hatches.

The presence of other services and pipework may influence the location of inspection hatches. In exceptional circumstances these other services may have to be re-routed to allow suitable positioning of a hatch.

Installation of any hatch shall not compromise the integrity and safety of the property. If necessary consult Local Building Regulations or Building Control Office for guidance. In all instances the hatch manufacturers instructions should be consulted and adhered to.

## FIRESTOPS

Use of firestops may be required where the flue or chimney passes between rooms or spaces. Any firestop or collar MUST NOT prevent the linear expansion or contraction of the flue or chimney

## MAKING GOOD

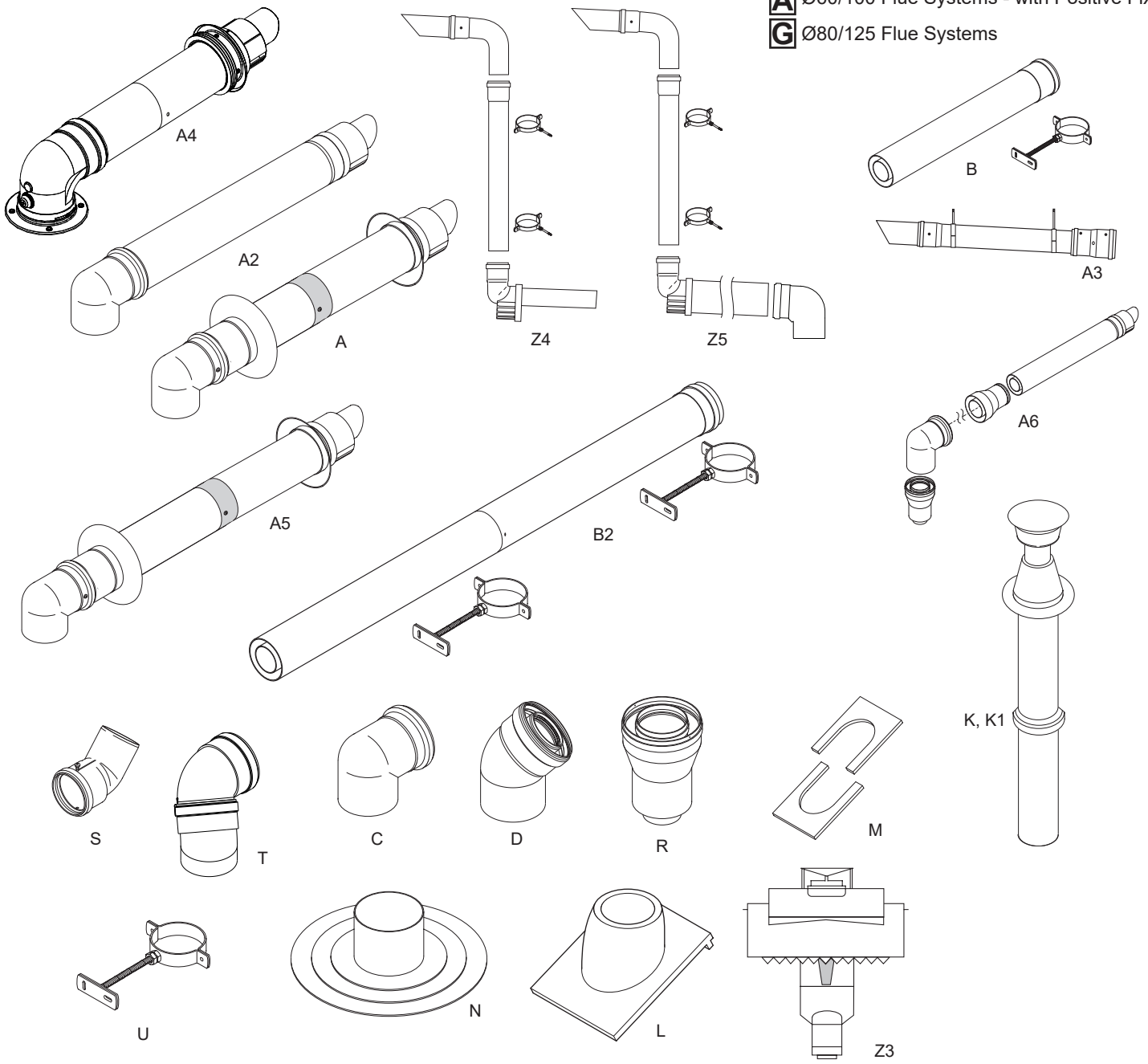
Where the flue system passes through an external wall the joint should be 'made good' by use of suitable sealant or building materials and the flue trims supplied if required.

# FLUE ACCESSORIES

Flue Groups

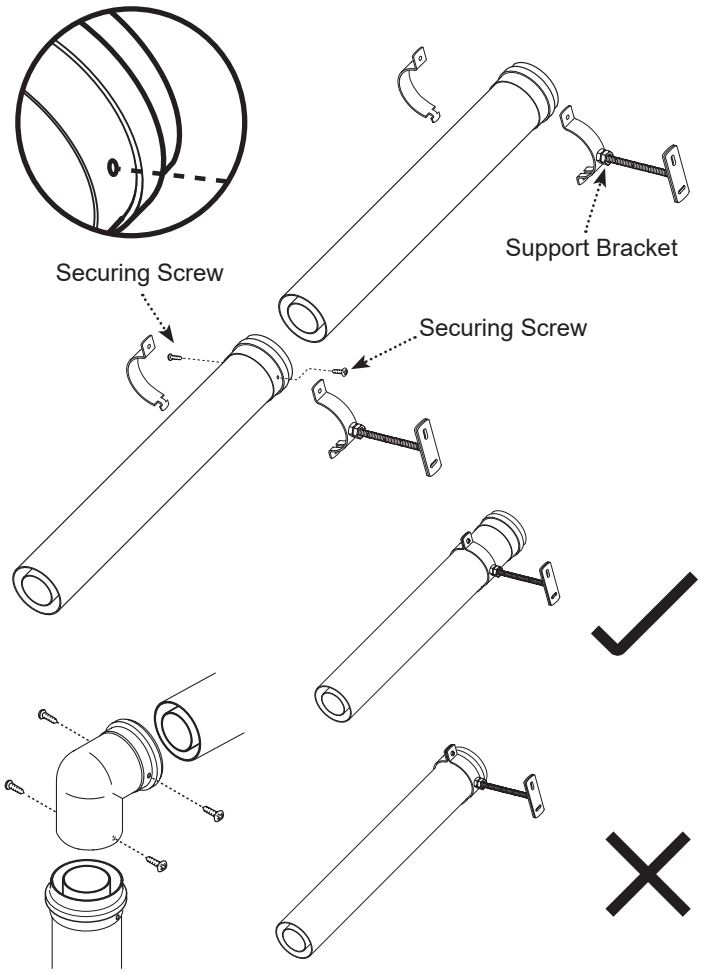
**A** Ø60/100 Flue Systems - with Positive Fix

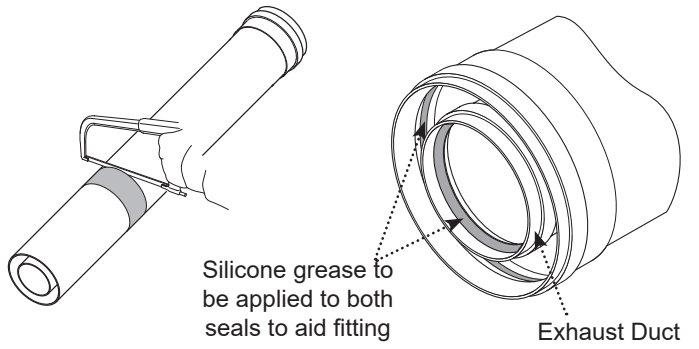
**G** Ø80/125 Flue Systems

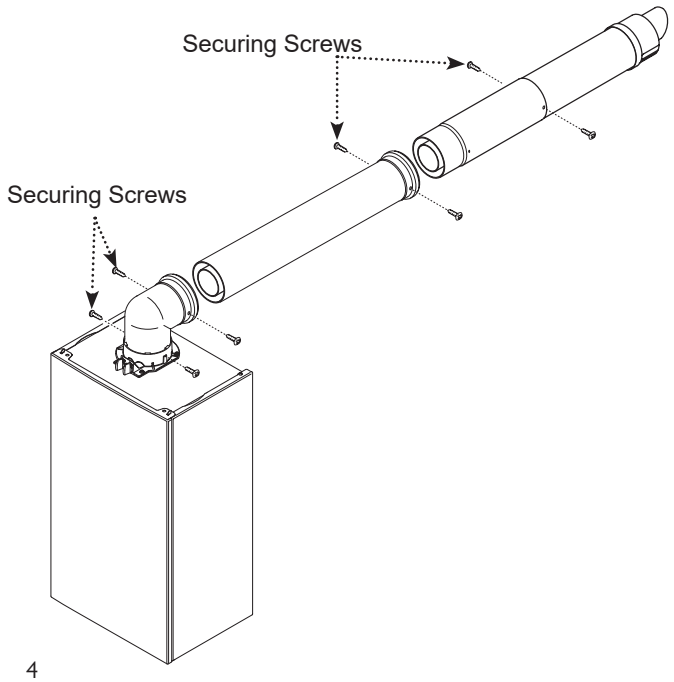



| Key | Accessory | Size | Code No. |
|---|---|---|---|
| **FLUE GROUP A** | | | |
| Concentric Flue system 60/100 mm diameter | | | |
| A | Telescopic Flue (Black) | 315-500 mm | 720598701 |
| A | Telescopic Flue (Brown) | 315-500 mm | 720642701 |
| A | Telescopic Flue (White) | 315-500 mm | 720599401 |
| A2 | Horizontal Flue - Fixed Length | 100-685 mm | 7222019 |
| A3 | Under Balcony Extension (Black) | | 7211039 |
| A3 | Under Balcony Extension (White) | | 7211041 |
| A4 | Internal Fit Telescopic Flue | 300-470 mm | 7778296 |
| A4 | Internal Fit Telescopic Flue | 420-690 mm | 7778299 |
| A5 | High Rise Horizontal Terminal | 1800 mm | 7778067 |
| B | Flue Extension (includes support bracket) | 1000 mm | 720648801 |
| B | Flue Extension (includes support bracket) | 500 mm | 720643001 |
| B | Flue Extension (includes support bracket) | 250 mm | 720643101 |
| B2 | High Rise Flue Ext. (inc. support brackets) | 2000 mm | 7778230 |
| C | Flue Bend (In Line) | 93° | 720648401 |
| D | Flue Bend | 135° | 720648501 |
| D | Flue Bend (pair) | 135° | 720647901 |
| U | Flue Support Bracket | ø100 mm | 5111080 |
| R | Vertical Flue Adaptor 60/100 to 80/125 (use with 5111078) | | 5111070 |
| S | Flue Terminal Deflector (Black) | | 5111068 |
| S | Flue Terminal Deflector (White | | 720644201 |
| S | Flue Terminal Deflector (Brown) | | 720644301 |
| T | Offset Adaptor Elbow | | 720635501 |

| Key | Accessory | Size | Code No. |
|---|---|---|---|
| **FLUE GROUP G** | | | |
| Concentric Flue system 80/125 mm diameter | | | |
| A6 | Horizontal Flue | 685 mm | 5118580 |
| B | Flue Extension | 1000 mm | 5118584 |
| C | Flue Bend | 91.5° | 5118588 |
| D | Flue Bend (pair) | 135° | 5118597 |
| U | Flue Support Bracket | ø100 mm | 5118610 |
| FLUE GROUP A & G | | | |
| Vertical Flue Kit | | | |
| K | Vertical Flue Terminal 60/100 | | 5118576 |
| K1 | Vertical Flue Terminal 80/125 (use with 5111070) | | 5111078 |
| L | Pitched Roof Flashing | 25°/50° | 5122151 |
| M | Roof Cover Plate | | 246143 |
| N | Flat Roof Flashing (Black/Grey) | | 246144 |
| MISCELLANEOUS | | | |
| Z3 | Ridge Terminal (Brown) | | 720647101 |
| Z4 | Plume Displacement Kit (Black) | | 720622901 |
| Z4 | Plume Displacement Kit (White) | | 720627001 |
| (Z4 only for use with telescopic flues 720598701 & 720599401) | | | |
| Z5 | PDK Terminal (Black) | | 7225716 |
| Z5 | PDK Terminal (White) | | 7225717 |




## CONCENTRIC FLUE SYSTEM (60/100) ONLY - FLUE GROUP A

### USE OF SUPPORTS & SECURING

Each extension and securing screws (1 m, 500 mm & 250 mm) is supplied with a support bracket. Additional support brackets can be purchased separately (see Flue Accessory page overleaf). DO NOT use brackets other than those supplied or shown in this guide.

The flue system MUST be supported AT LEAST once every metre of actual length, and every straight length should be supported with a bracket.

The bracket should be positioned as close to the female end of the extension providing that the surface the bracket is to be fixed to is sound. DO NOT position the bracket over the swaged part of the extension or the rivets.

Also provided with each extension and elbow are two special self drilling screws. These MUST be used to secure the female air duct to the male duct of the next extension or elbow (in exceptional circumstances where access is limited one screw will suffice).

### CUTTING EXTENSIONS

Where it is necessary to reduce the length of an extension, both exhaust and air duct MUST be cut square and flush, and any burrs removed to avoid damage to the flue seal on both exhaust and air duct on assembly.

It is recommended that tape is used as a guide to first cut around the air duct and then the exhaust duct be cut square and flush with the air duct.

The spring support should be positioned approximately 100mm from the male end of the extension to maintain concentricity.

### ASSEMBLING

Both ducts of the elbow or extension are fitted with an inner lip seal. It is important that the seals are lubricated as follows:

Use suitable gloves - open the sachet of grease supplied and apply grease sparingly to the inner seal of both air and exhaust ducts to aid assembly.

Wipe away any excess grease prior to assembly. Avoid contact with eyes after handling the grease, and thoroughly wash hands.

Engage the male end of the extension or elbow into the female of the next extension or elbow. Ensure that it is fully inserted to achieve the required penetration depth. The extension have been designed to maintain an expansion gap for the exhaust duct.

Using the special self drilling screws supplied secure the air duct to the next extension or elbow. The screws must be inserted via the holes in the female end of the air duct or through the indentations on elbows/bends. NOTE: No drilling is required - the screw will pierce the male end of the extension or elbow.

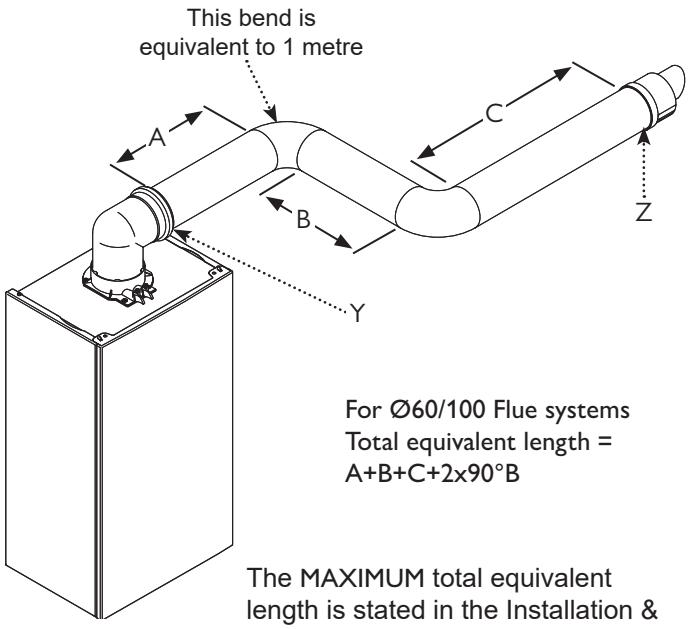
Identify the positions of the support brackets and mark the wall or surface on which they will be mounted. Drill and plug as required.

If necessary shorten the threaded rod. Fix the support bracket to the wall. Locate the tongue of the outer bracket half in the slot of the inner half. When all brackets are in place offer the flue up to them, and secure the two halves of the brackets with the screw. If the rods are not long enough it may be necessary to erect a spacer or structure to adequately support flue system brackets. It is not recommended to use longer threaded rods.

IMPORTANT: Mounting and securing the flue will be easier if performed by two people! When the flue system is in place fully tighten all brackets systematically, ensuring that no parts are under any strain or tension and no dips where condensate can pool.

## FLUE OPTIONS

NOTE: Horizontal flue pipes should always be installed with a 1.5° to 3° fall from the terminal to allow condensate to run back to the boiler.




For Ø60/100 Flue systems
Total equivalent length =
A+B+C+2x90°B

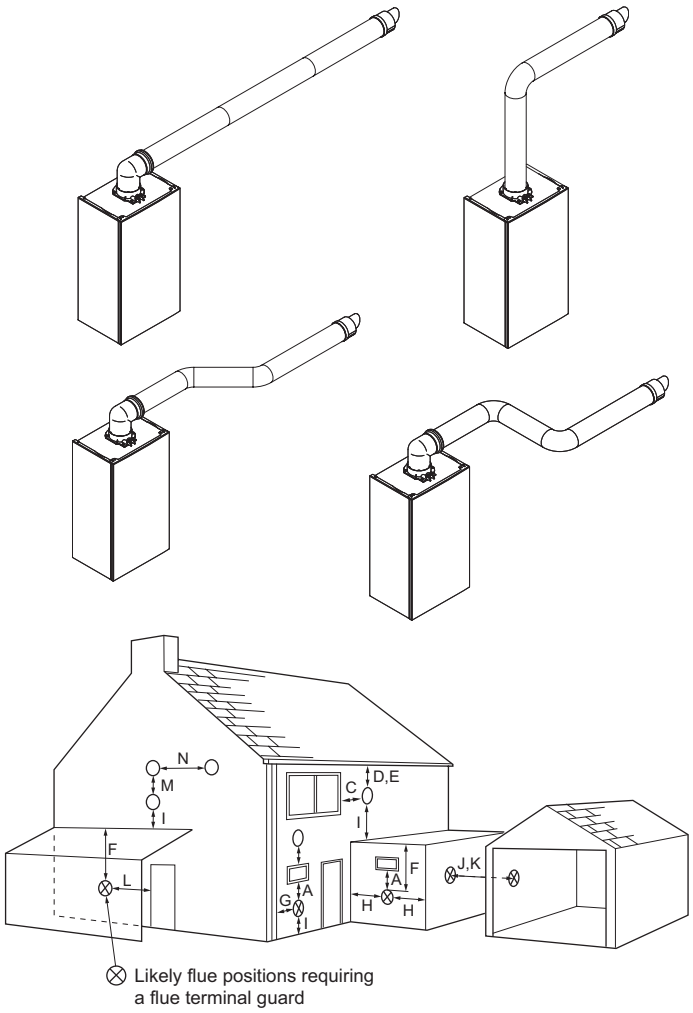
The MAXIMUM total equivalent length is stated in the Installation & Servicing Instructions supplied with each boiler.

| Terminal Position with Minimum Distance | (mm) |
|---|---|
| A[1] Directly below an opening, air brick, opening windows, etc. | 300 |
| B[1] Above an opening, air brick, opening window etc. | 300 |
| C[1] Horizontally to an opening, air brick, opening window etc. | 300 |
| D[2] Below gutters, soil pipes or drain pipes. | 25 |
| E[2] Below eaves. | 25 |
| F[2] Below balconies or car port roof. | 25 |
| G[2] From a vertical drain pipe or soil pipe. | 25 |
| H[2] From an internal or external corner. | 300 |
| I Above ground, roof or balcony level. | 600 |
| J From a surface or boundary line facing a terminal. | 1200 |
| K From a terminal facing a terminal (Horizontal flue). From a terminal facing a terminal (Vertical flue). | 600 |
| L From an opening in carport (e.g. door, window) into the dwelling. | 1200 |

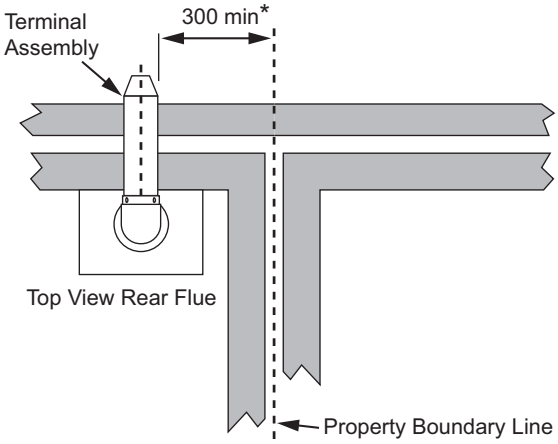
[1] In addition, the terminal should be no nearer than 150 mm to an opening in the building fabric formed for the purpose of accommodating a built-in element such as a window frame.

[2] Only ONE 25 mm clearance is allowed per installation. If one of the dimensions D, E, F, G or H is 25 mm then the remainder MUST be as B.S.5440-1.

## HORIZONTAL FLUE SYSTEM EXAMPLES

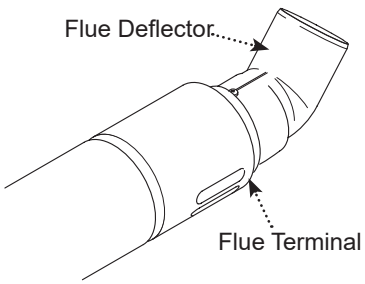



NOTE: The distance from a fanned draught appliance terminal installed parallel to a boundary may not be less than 300 mm in accordance with the diagram below.



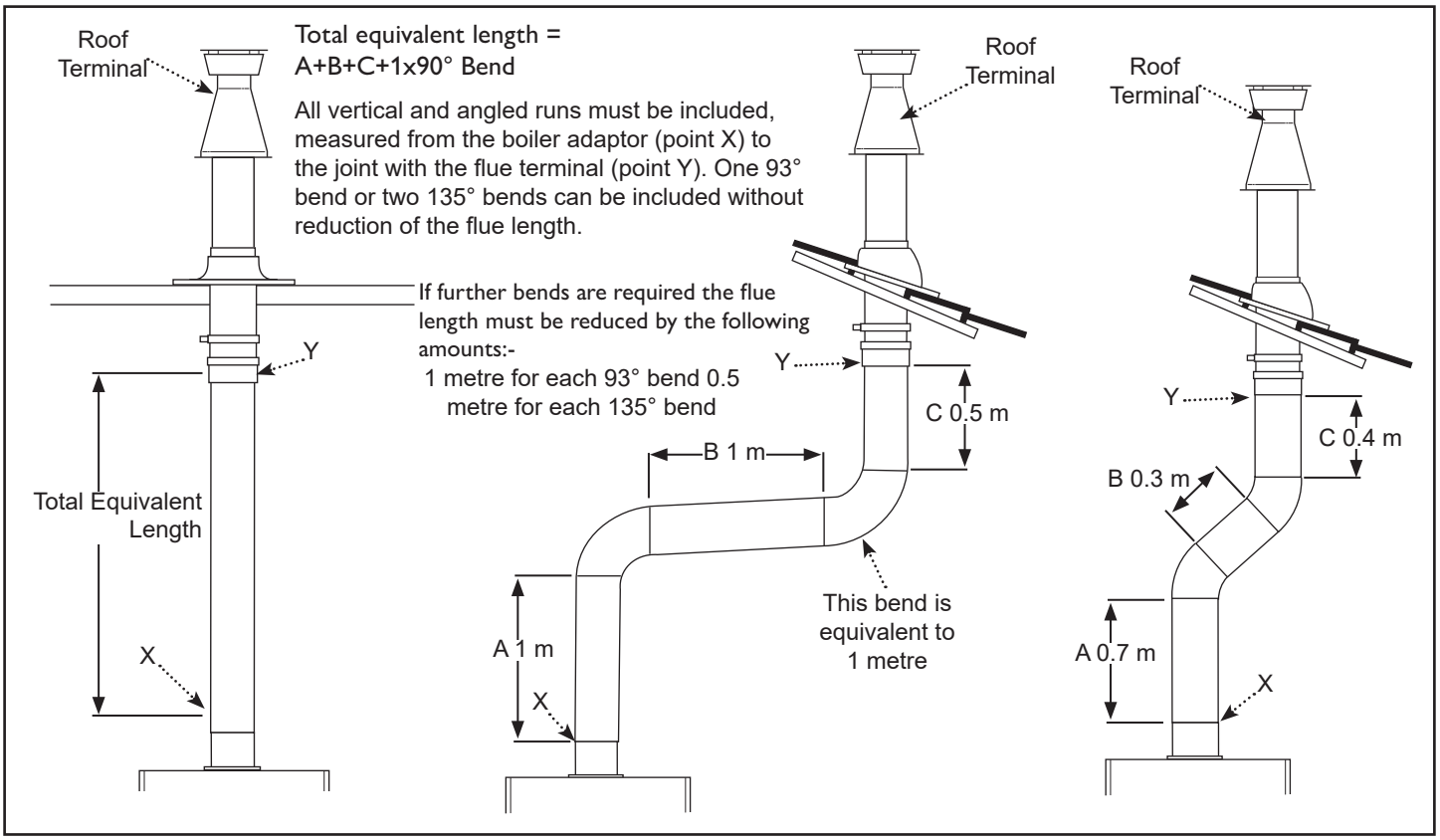

*Reduction to the boundary is possible down to 25 mm but flue deflector part no. 5111068 must be used.

DO NOT DIRECT THE FLUE DEFLECTOR TOWARDS A WALL.




Push the flue deflector over the terminal end and rotate to the optimum angle for deflecting plume. It may point upwards, or up to 45° either way from vertical. Secure the deflector to the terminal with screw provided.

NOTE: A terminal guard is still required when circumstances dictate (B.S. 5440-1).



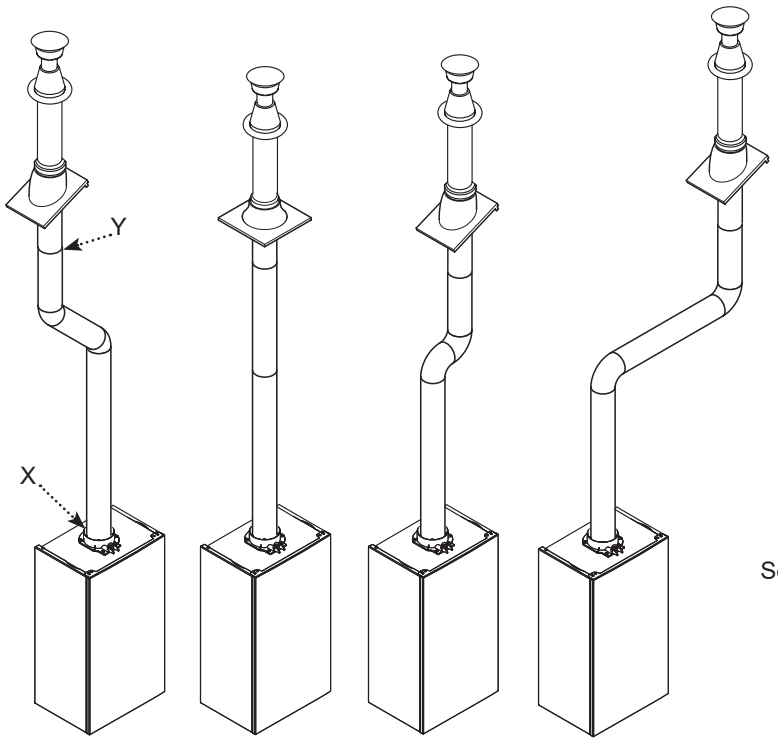

The MAXIMUM total equivalent length is stated in the Installation & Servicing Instructions supplied with each boiler.

| | CONCENTRIC FLUE | | |
|---|---|---|---|
| | Equivalent Length Value | No. of fittings/pipes | Sub total |
| extensions | Actual Length | 3 (A+B+C) | 2.5 m |
| 135° bend | 0.5 m | 0 | 0 |
| 93° bend | 1 m | 2* | 1 m |
| | Equivalent Flue Length = 3.5 m | | |

*1 x 93° bends are allowed without affecting the calculation

| | CONCENTRIC FLUE | | |
|---|---|---|---|
| | Equivalent Length Value | No. of fittings/pipes | Sub total |
| extensions | Actual Length | 3 (A+B+C) | 1.4 m |
| 135° bend | 0.5 m | 2* | 0 |
| 93° bend | 1 m | 0 | 0 |
| | Equivalent Flue Length = 3.5 m | | |

*Up to 2 x 135° bends are allowed without affecting the calculation



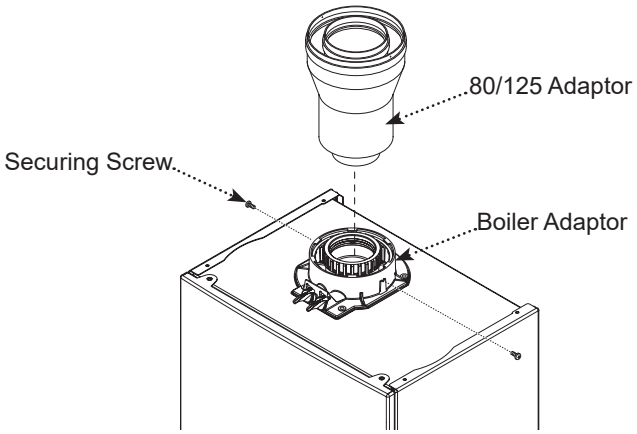

For use with Flue Group G
Ø80/125 Flue systems

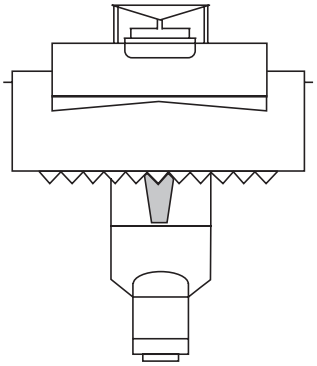
Ø80/125 FLUE SYSTEMS

The adaptor shown is available separately for vertical flue applications. (It is included with the 80/125 Horizontal Flue Kit).

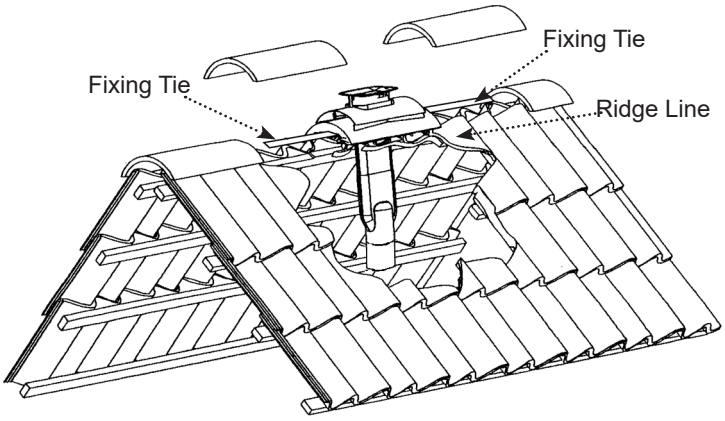
Apply lubrication and ensure that the 80/125 adaptor is fully engaged in the boiler adaptor.

Secure with the screws supplied with boiler.





Ridge Terminal Assembly




RIDGE TERMINAL - FLUE GROUP A (60/100)

The MAXIMUM equivalent flue length when using this terminal is 8 metres!

**Note**: This flue terminal is designed predominantly for use in new build situations where the roof construction allows for ridge penetration.

In retrofit installations roofing materials will need to be removed/replaced and the roof structure may require alterations to accommodate the passage of the flue system. Any work of this nature should be carried out by a competent person and the integrity of the roof structure should never be compromised.

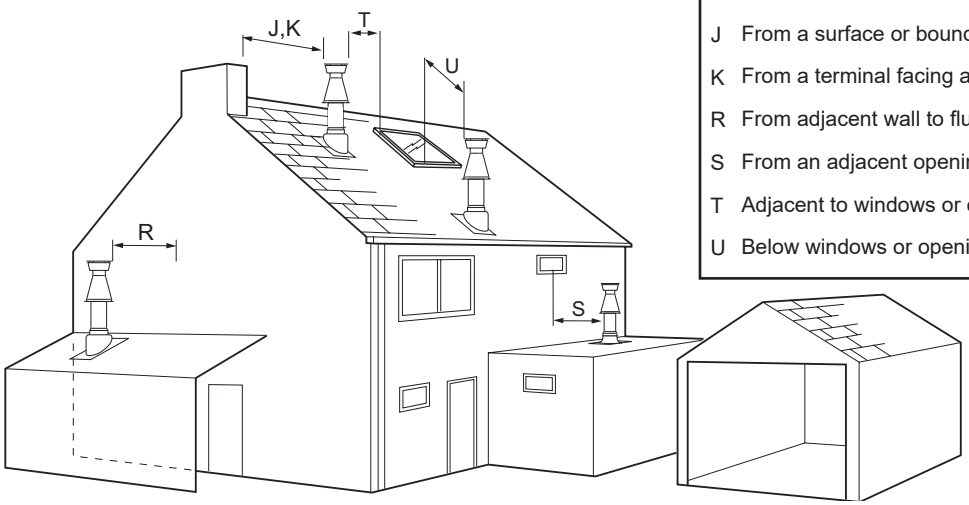
The Ridge Flue Terminal replaces a 450 mm ridge tile. The profile allows it to blend with most common ridge tiles. Positioning at the ridge should be in accordance with relevant Building Regulations and British Standards. Ensure the roof is prepared to allow for the throat section of the terminal (50 mm) to pass directly into the roof space and cut roofing felt/ boarding as necessary. A clearance of 25 mm from combustible materials must be maintained.

**Note**: Once installed the terminal design allows rain and condensate to be discharged into the flue exhaust pipe. It is essential that the ridge terminal is fitted to a completed flue system connected to the boiler. If left unconnected prior to the completion of fitting the flue system and boiler, provision should be made to collect rain water etc. from the terminal and to drain it away as necessary.

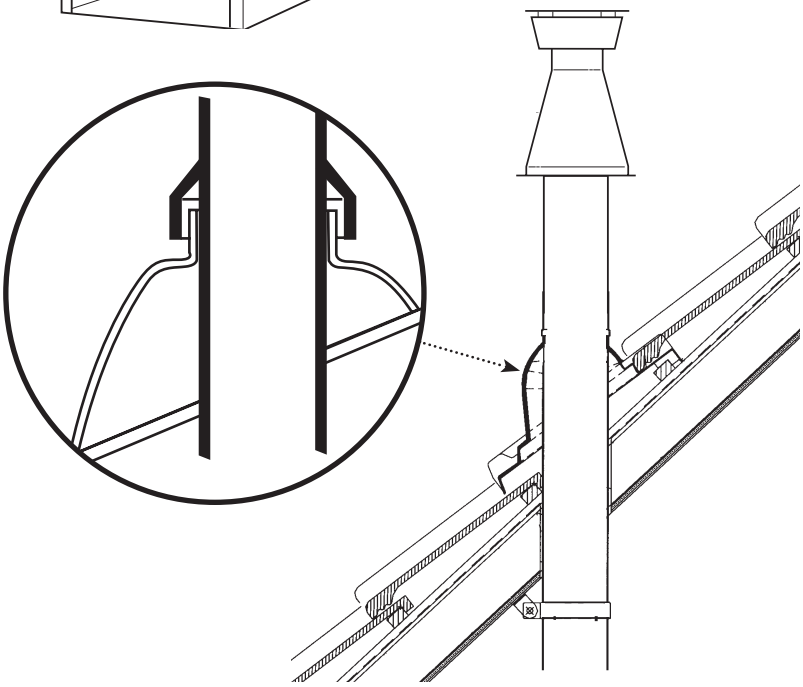
For full details refer to the Notes For Installation supplied with the kit.

## FITTING THE ROOF TERMINAL

| Special Requirements for Vertical Balanced Flue | | |
|---|---|---|
| | POSITION SPACING | MIN |
| J | From a surface or boundary line facing a terminal | 600 mm |
| K | From a terminal facing a terminal | 600 mm |
| R | From adjacent wall to flue | 300 mm |
| S | From an adjacent opening window | 1000 mm |
| T | Adjacent to windows or openings on pitched roofs | 600 mm |
| U | Below windows or openings on pitched roofs | 2000 mm |




**Fitting the Roof Terminal to the Flashing**:
Ensure the roof terminal collar is correctly seated onto the flashing spigot to prevent leakage.



For Roof Terminals

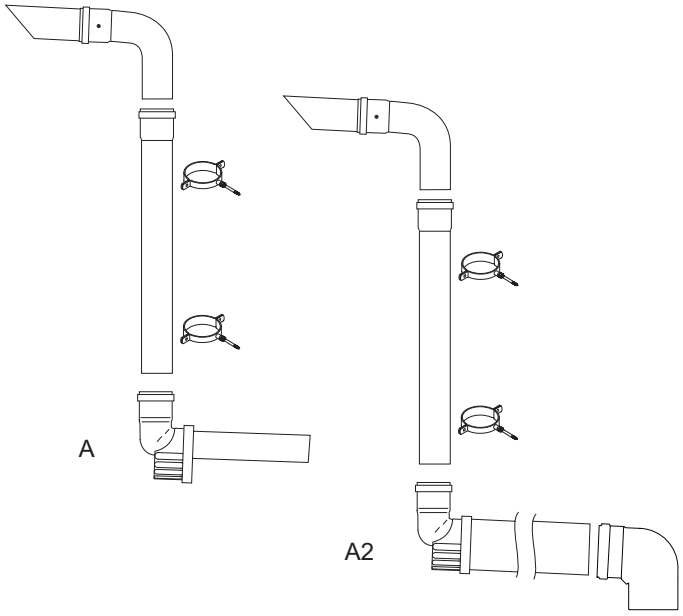
1. In the case of a pitched roof 25° - 50°, position the lead tile to replace/flash over existing roof tiling. Make an aperture in the roof suitable for the lower tube of the roof terminal and ensure the integrity of the roof cover is maintained. The adjustable plastic collar can either be positioned on the lead tile or the lower tube of the roof terminal prior to the final positioning of the vertical flue through the tile. Check the collar is correctly located to suit required roof pitch (either 25° to 38° or 37° to 50°). From inside the roof adjust the flue to a vertical position and secure to the roof structure with the clamp supplied.

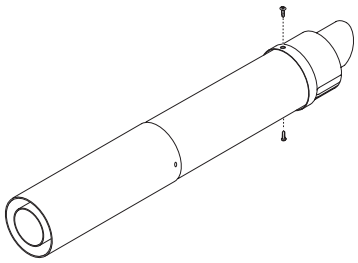
2. For flat roof installations the aluminium flashing must be incorporated into the roof covering and the appropriate aperture made in the roof decking. The vertical flue is lowered onto the flashing making sure the collar of the flue locates securely with the flashing. (A mastic seal may be necessary). From inside the roof, adjust the flue to a vertical position and secure to the roof structure with the clamp supplied.

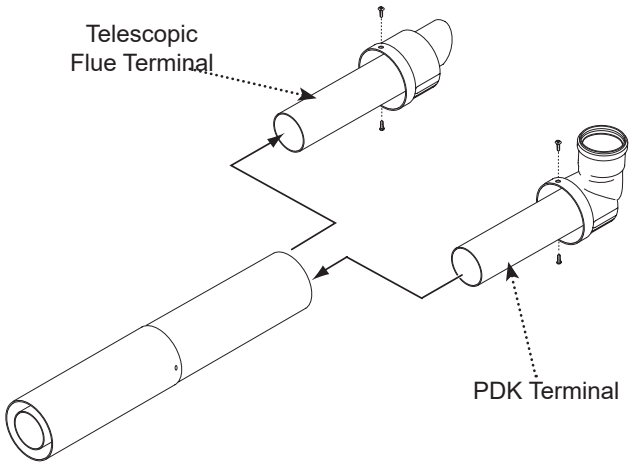
**Important**: If the boiler is not fitted immediately after the flue system, temporary precautions must be taken to prevent rain entry into the room of installation. Any precautionary measures must be removed prior to commissioning the boiler.

# PLUME DISPLACEMENT ACCESSORIES

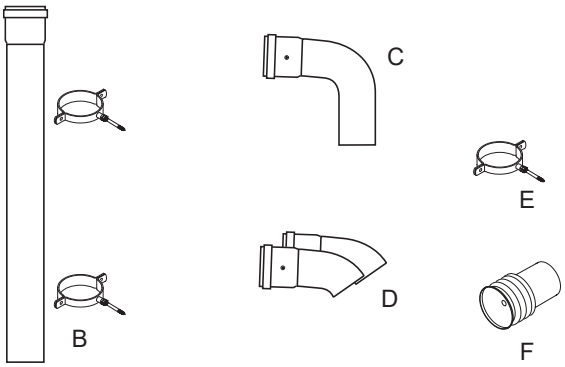
| Key | Accessory | Size | Code No. |
|---|---|---|---|
| **Plume Displacement - Black - 60/100mm diameter** | | | |
| A | Plume Displacement Kit (Black)<br>(includes terminal assembly, 1000 mm extension, outlet elbow and 2 support brackets) | ø100 mm | 720622901 |
| A2 | PDK Terminal (Black)<br>(includes 60/100 concentric length with terminal assembly & trims, 1000 mm extension, boiler & outlet elbows, screws, grease and 2 support brackets) | ø100 mm | 7225716 |
| B | Exhaust PDK Extension<br>(Black - includes brackets) | 1000 mm | 720643301 |
| C | PDK Bend (Black) | 93º | 720648701 |
| D | PDK Bend (Black - Pair) | 135º | 720648601 |
| E | Support Bracket (Black) | ø60 mm | 720623301 |






| Key | Accessory | Size | Code No. |
|---|---|---|---|
| **Plume Displacement - Black - 60/100mm diameter** | | | |
| A | Plume Displacement Kit (White)<br>(includes terminal assembly, 1000 mm extension, outlet elbow and 2 support brackets) | ø100 mm | 720627001 |
| A2 | PDK Terminal (White)<br>(includes 60/100 concentric length with terminal assembly & trims, 1000 mm extension, boiler & outlet elbows, screws, grease and 2 support brackets) | ø100 mm | 7225717 |
| B | Exhaust PDK Extension<br>(White - includes brackets) | 1000 mm | 720643401 |
| C | PDK Bend (White) | 93º | 5121369 |
| D | PDK Bend (White - Pair) | 135º | 5121370 |
| E | Support Bracket (White) | ø60 mm | 720627801 |
| F | PDK Diffuse Terminal | | 7213532 |




FITTING PLUME DISPLACEMENT KITS 720622901 & 720627001. The Plume Displacement Kit replaces the terminal assembly of the standard telescopic flue kits 720598701 & 720599401 only.

The kit may be employed either at the time of fitting the boiler, or retrospectively if the circumstances of the installation change such that flue position no longer meets regulations, e.g. the building of an extension adjacent to the flue terminal or other obstructions.

Remove the screws securing the standard terminal assembly and withdraw it from the air duct. Discard the terminal and screws.

Take the terminal assembly supplied and insert it into the telescopic flue. Secure using the new screws provided with the kit.

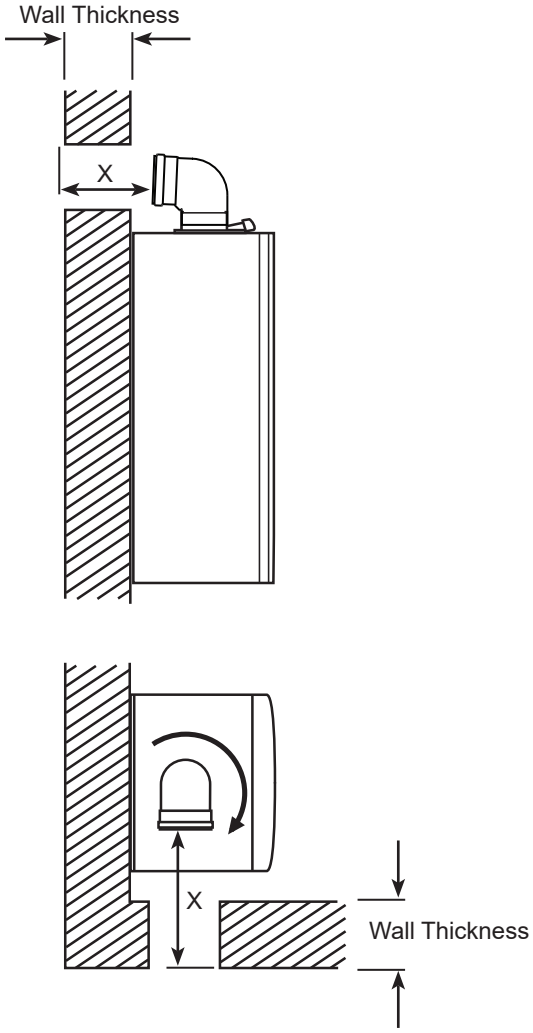
New installations - fit the telescopic flue with the new terminal to the boiler and make good the wall.

Cut the 1000 mm extension to length if required, ensuring that the end is square and free of burrs.

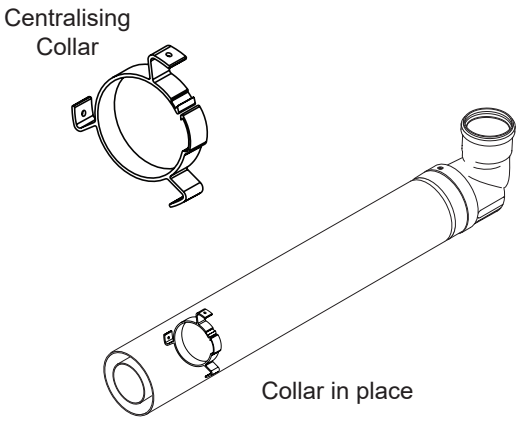
Determine the position of the support clamps and drill and plug the wall. Fit the extension to the terminal and fix the clamps to the wall.

Tighten the clamps and fit the outlet elbow to the female end of the extension. The outlet should be perpendicular to the wall (i.e. 90°) but may be angled to either side by no more than 45º.

**Important**
When fitting retrospectively:
If screws and tape have been used to secure the flue system air ducts and boiler elbow together originally, installation should be straightforward. However, if any movement of the flue system inside the dwelling is suspected, the integrity of flue should be checked by performing a flue gas analysis at the boiler adaptor air sampling point.








## FITTING PDK TERMINALS 7225716 & 7225717

Cut a hole in the external wall which the concentric flue assembly will pass through. The hole should allow the flue to fall back to the boiler at an angle of at least 1.5°.

Locate the flue elbow on the adaptor at the top of the boiler. Set the elbow to the required orientation.

**Note**: The flue elbow is angled at 93° to ensure a fall back to the boiler.

Measure the distance from the outside wall face to the elbow. This dimension will be known as ‘X’.

To dimension ‘X’ add 50 mm. This dimension to be known as ‘Y’.

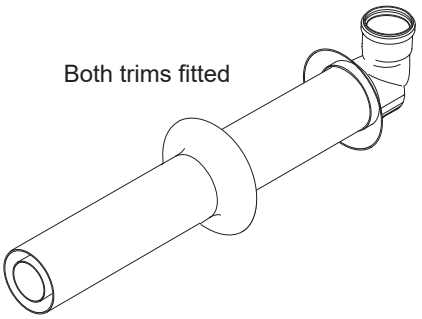
**Important**: Check all dimensions before cutting.

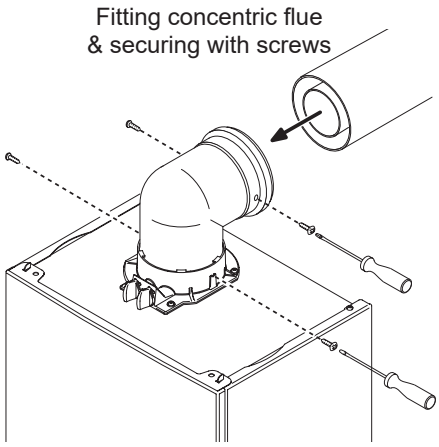
Mark dimension ‘Y’ on the concentric flue. Carefully cut the waste material from the flue, ensuring that the ducts are square and free from burrs.

The centralising collar may be in the waste portion of the flue. In this case retrieve the collar before discarding the waste.

Take the centralising collar (if not already fitted) and engage it over the flue duct. This will centralise the flue and air ducts, and ease assembly (cont.)

## FITTING PDK TERMINALS 7225716 & 7225717 (cont.)




N.B. Screws securing elbow to adaptor are supplied with boiler

From outside insert the flue through the hole in the wall. If required, the outer flue trim should be fitted prior to this as it cannot be fitted after.

Draw the flue back through the wall and engage it in the elbow, first fitting the trim if required. It may be necessary to use the grease supplied to ease assembly of the elbow adaptor and flue.

Connect any extensions or elbows that are being used to the concentric assembly. Engage the extension, elbow or concentric assembly in the boiler flue elbow. Fit the boiler flue elbow to the boiler adaptor. Secure using the screws supplied.

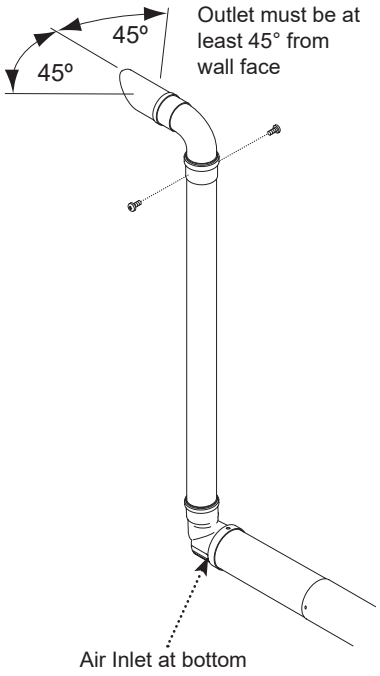
Ensure that the concentric assembly and any extensions fall back to the boiler at an angle of at least 1.5° and that the external air inlet is to the bottom.

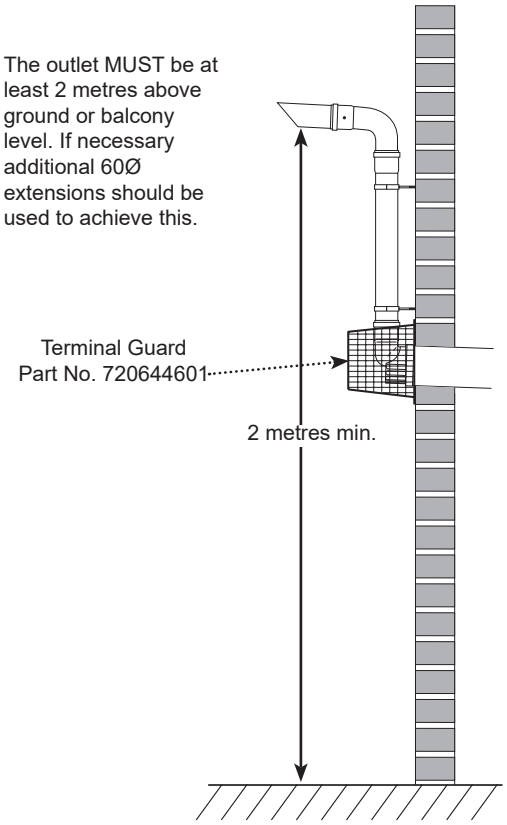
Ensure that the terminal is positioned with the air inlet facing downward to prevent rain entry and the outlet connection directly vertical.

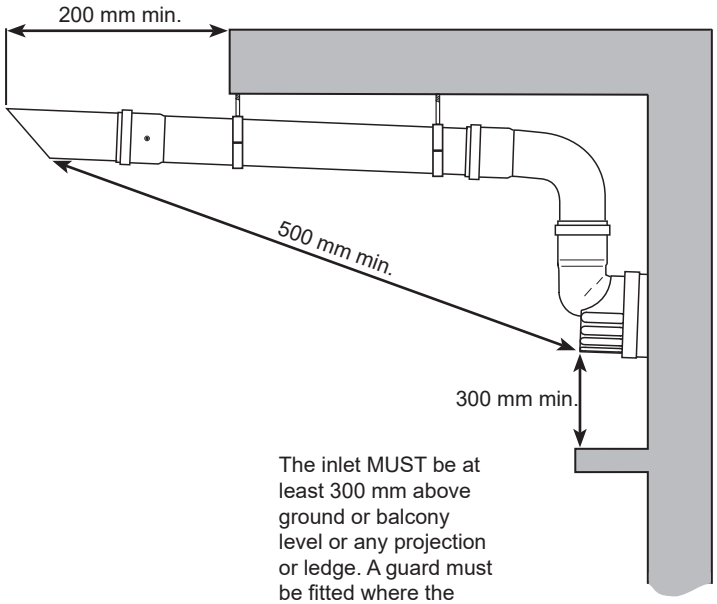
Cut the 1000 mm extension to length if required, ensuring that the end is square and free of burrs.

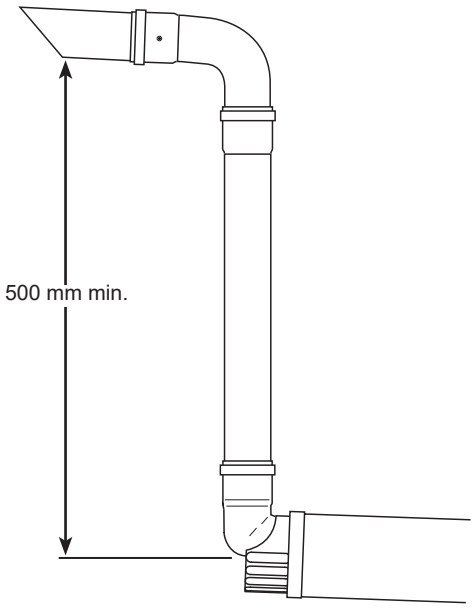
Determine the position of the support clamps and drill and plug the wall. Fit the extension to the terminal and fix the clamps to the wall.

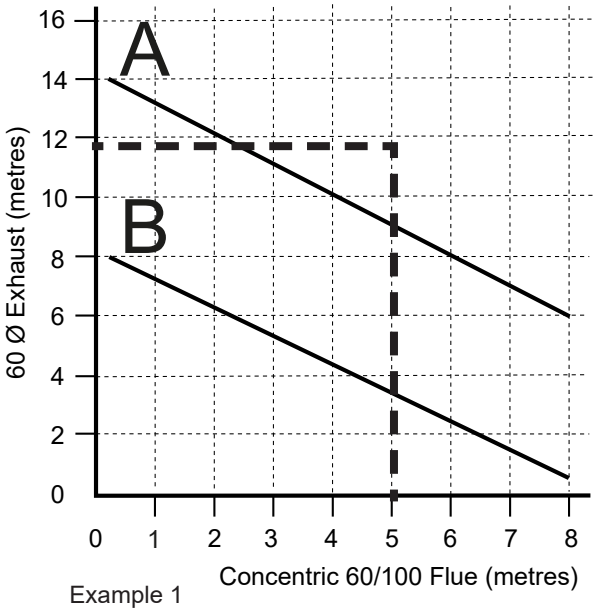
Tighten the clamps and fit the outlet elbow to the female end of the extension. The outlet should be perpendicular to the wall (i.e. 90°) but may be angled to either side by no more than 45°.


45º
45º
Outlet must be at least 45° from wall face
Air Inlet at bottom

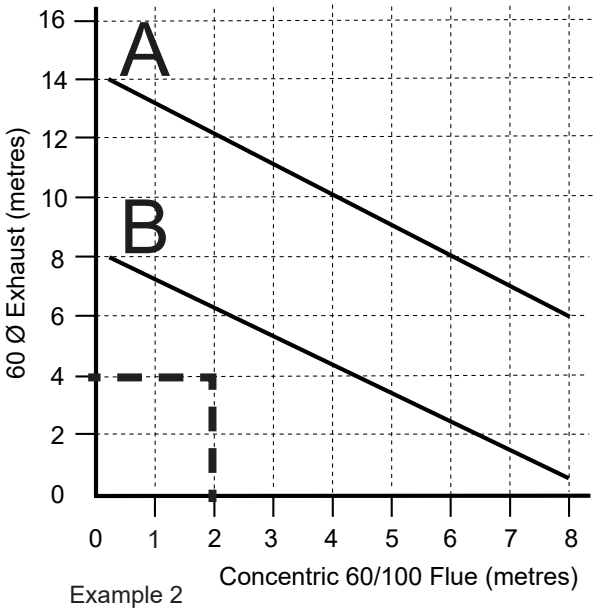

The outlet MUST be at least 2 metres above ground or balcony level. If necessary additional 60Ø extensions should be used to achieve this.
Terminal Guard
Part No. 720644601
2 metres min.


200 mm min.
500 mm min.
300 mm min.
The inlet MUST be at least 300 mm above ground or balcony level or any projection or ledge. A guard must be fitted where the inlet is below 2 metres.

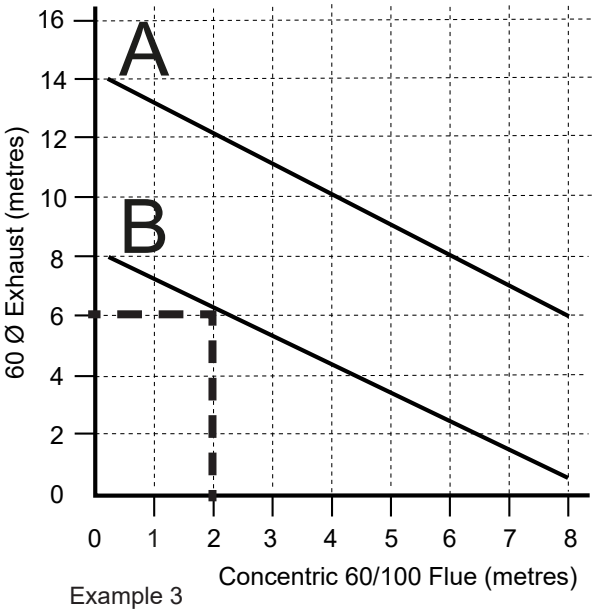

500 mm min.




Example 1
Flue Lengths - Not Permissible




Example 2
Flue Lengths - OK




Example 3
Flue Lengths - OK

## DETERMINING PERMISSIBLE LENGTHS - ALL PLUME DISPLACEMENT KITS

In the graph the solid diagonal lines represent the relationship between the concentric flue assembly (and any extensions) and the 60Ø exhaust (and any extensions or additional bends).

Example 1 - Not Permissible
If, for instance, a concentric length of 5 metres was required and the 60Ø exhaust needed to be 11 metres the graph shows that this combination would NOT be permissible as the intersection point would be above both solid diagonal lines **A** & **B**.

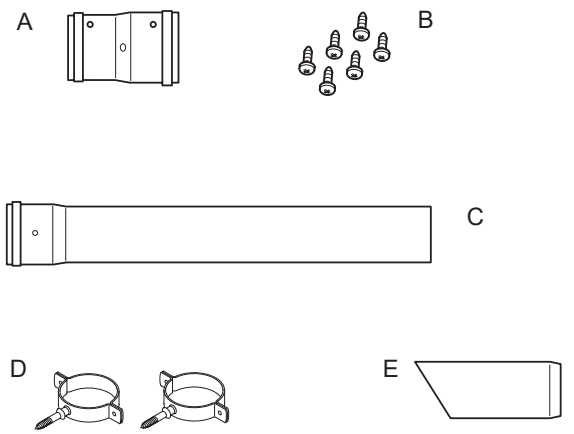
Example 2 - Flue lengths OK
Where both lengths have been determined they can be applied to the graph to check that the installation is permissible. For example, if it was known that 2 metres of concentric flue and 4 metres of 60Ø exhaust were required, the values could be applied to the graph as shown in Example 2. As the point of intersection of the dotted lines is below both solid diagonal lines, the combination of lengths is shown to be acceptable.

Example 3 - Flue lengths OK
In the example shown, assume that the concentric part of the flue needs to be 2 metres long. Find the position of '2' on the horizontal axis of the graph and then project upwards to the solid diagonal line. This is represented by the vertical thick dotted line. Where this dotted line intersects with the solid diagonal line on the graph, project across to the vertical axis. As can be seen this corresponds with 6 metres (line **B**). Therefore, the total equivalent length of the 60Ø exhaust can be up to 6 metres (models in **B** below). Any bend equivalencies must be accounted for i.e. 93° bends are equal to 1 metre, each 45°bend to 0.5 metres.

Graph line **A** is applicable to:
15 System, 18 System, 24 System & 25 Combi models

Graph line **B** is applicable to:
30 System, 30 Combi & 36 Combi models

## TERMINAL EXTENSION (UNDER BALCONIES & EAVES)




Check & ensure the following:

• All lip seals are in place and correctly fitted in the location groove of the female socket.

• Extensions are cut square and any burrs removed before assembly.

• Apply a thin film of the silicone grease supplied to all seals and male parts of components.

## CHIMNEY EXHAUST EXTENSION - DESCRIPTION

The kit may be employed either at the time of fitting the boiler, or retrospectively if the circumstances of the installation change such that terminal position no longer meets regulations, e.g. the building of an extension adjacent to the terminal or other obstructions.

The extension terminal must protrude at least 200 mm beyond the structure. It is particularly recommended for installations where the chimney system terminal is under a balcony, soffit or similar projection.

**Note**: Due to the nature of the boiler a plume of water vapour will be discharged from the flue. This should be taken into account when siting the terminal to avoid any potential nuisance.

**Important**: The equivalent length of the existing concentric chimney MUST be considered before fitting this kit to ensure that the maximum equivalent length is not exceeded as the terminal supplied has an a equivalency factor of 3 metres. The extension must fall 2° to 3° back to the boiler.

The kit comprises:
- A - 1 x adaptor assembly
- B - 6 x adaptor/terminal fixing screws
- C - 1 x straight length of exhaust (1 metre)
- D - 2 x support brackets
- E - 1 x extension terminal

Additional 1 metre straight lengths are available, but MUST NOT be fitted if doing so would exceed the maximum permissible equivalent length of the chimney system as detailed in the boiler instructions.

IT IS NOT PERMISSIBLE TO INCLUDE BENDS IN THE EXTENSION!

Equivalent lengths :

Extension Terminal - 3 metres*
Straight Length - as measured (e.g. 0.5 m = 0.5 m)

*This MUST be included in ALL calculations when fitting this kit!

Chimney Exhaust Extension - Installation

Locate the larger diameter of the adaptor over the existing terminal and secure with two of the screws supplied.

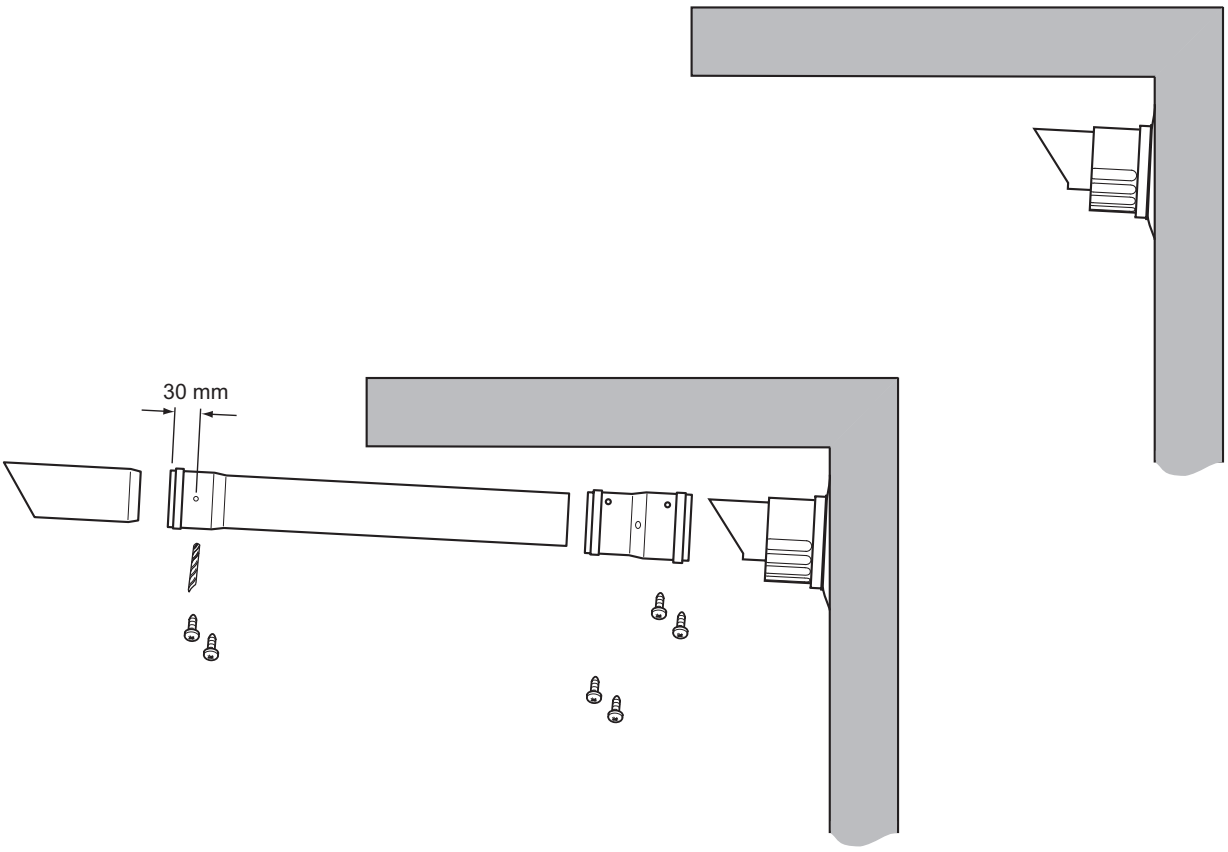
Establish the path the exhaust extension will take and ensure that adjacent surfaces are sound enough on which to mount the support brackets. Determine the position of the brackets and drill and plug the surface.

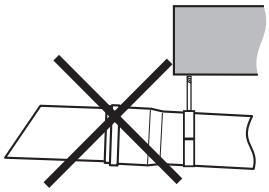
Where additional lengths are used it may be necessary to secure spacer blocks on the fixing surface on which to mount the support brackets.

Remove the saddle clamps from the support brackets. Locate the wall studs on the brackets in the previously plugged holes and tighten.

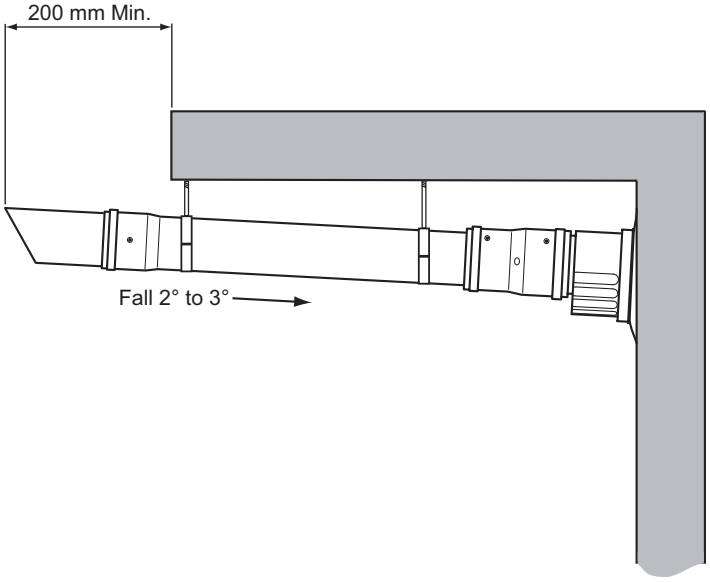
Insert the terminal supplied into the extension. Mark 30 mm from the end of the extension, and drill two holes Ø 4 mm through the extension and terminal. Secure using two of the screws supplied.

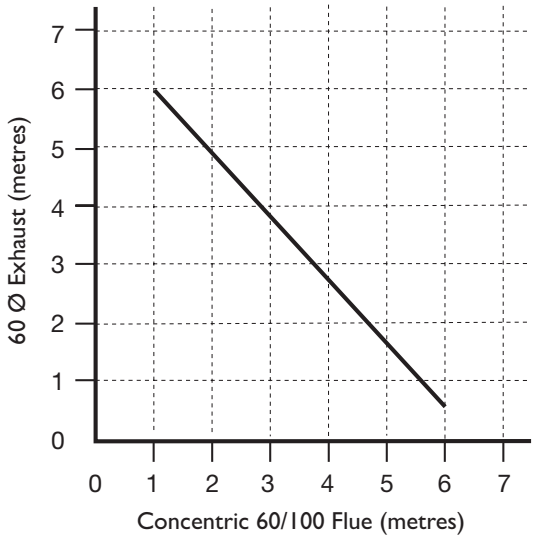
Fit the assembled extension to the adaptor with the remaining screws and fix the saddle clamps to the support brackets. Adjust the brackets to ensure the extension falls at 2° to 3° back to the boiler.

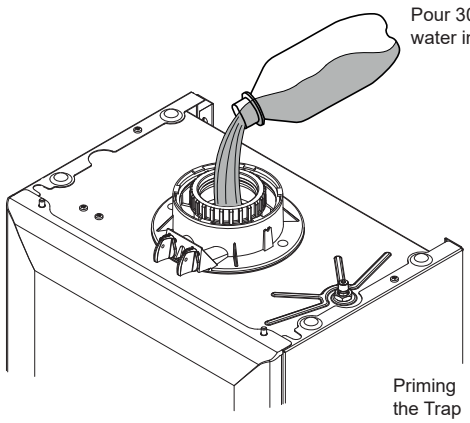


The terminal MUST NOT be fitted in this orientation ! Ensure that the “peak” of the terminal is uppermost.

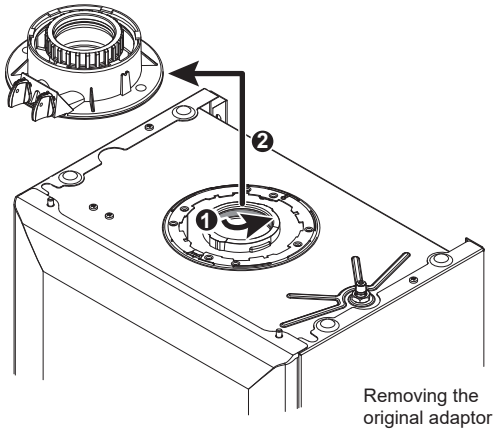





## Priming

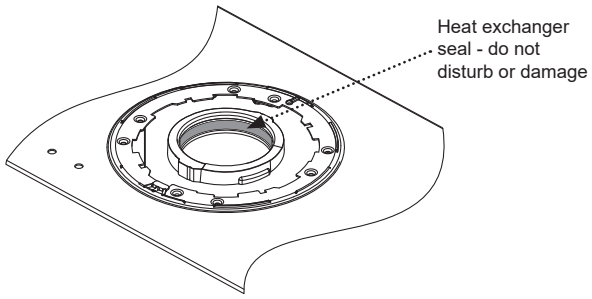
1. Prior to connecting the new elbow and adaptor assembly it is necessary to prime the condensate trap. Pour approximately 300ml of water into the centre of the original adaptor.




## Removing original adaptor

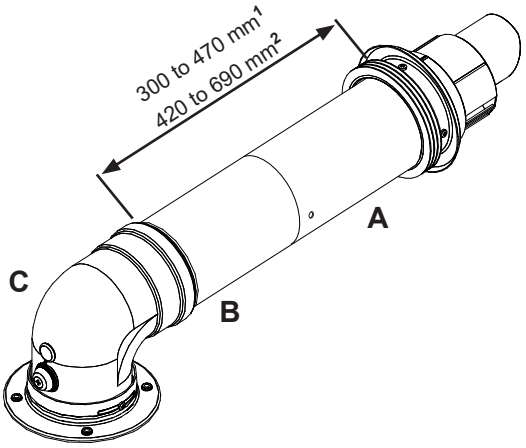
1. Undo and remove the four screws securing the original adaptor to the boiler top panel. Retain the screws for re-use.

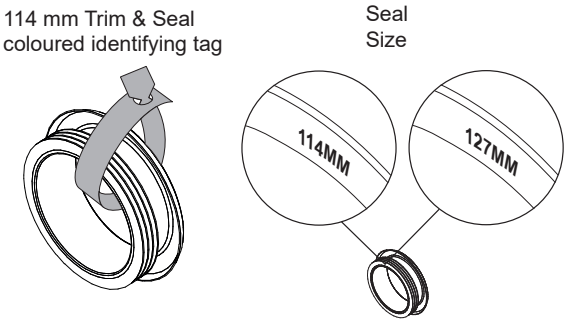
2. By rotating anticlockwise slightly (as viewed from above) carefully remove the original adaptor ensuring that the seal in the heat exchanger is not disturbed or damaged.

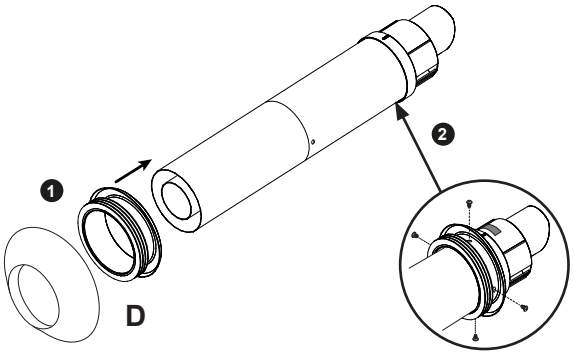


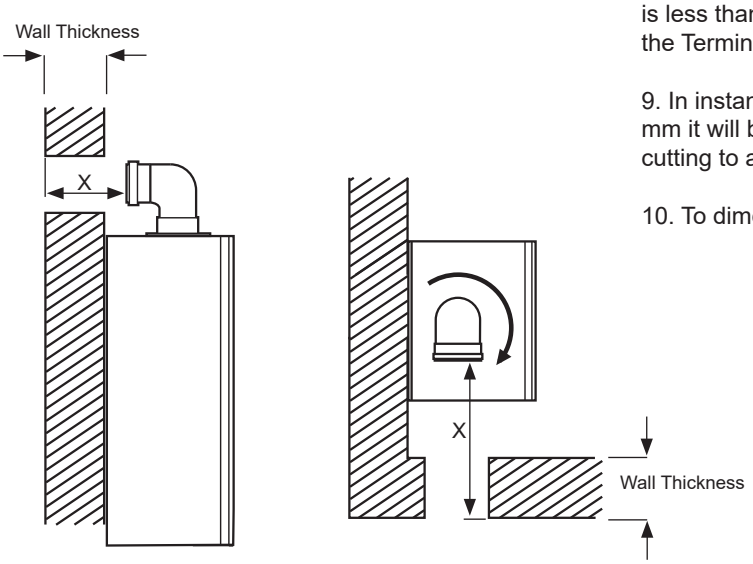

## Compatibility

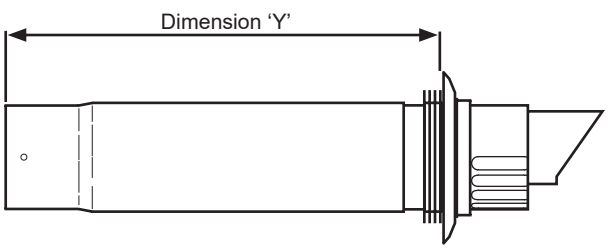
1. ‘Multifit 2’ flue group A (60/100) accessories are compatible with this Internal Fit Telescopic Flue Kit.




## Fitting the flue

1. There are two telescopic sections, the Terminal Assembly **A** and the Connection Assembly **B**, a roll of sealing tape and two self tapping screws to secure the sections. A 93° Direct Elbow **C**, two combined External Trim & Seals (114 mm & 127 mm - size is embossed on seal) with screws, a white Internal Trim and screws to secure the elbow flange to the boiler are also supplied **D**.

The elbow is angled at 93˚ to ensure a fall back to the boiler. This elbow incorporates a rotary flange that engages in the boiler top panel by means of a bayonet mounting method. The flange must be fastened to the boiler using the screws previously removed. DO NOT use any other type of screw or elbow. Apply some of the silicone grease supplied to all the internal seals.

2. The two sections can be adjusted to provide a length between 300 mm and 470 mm (Short Telescopic Kit[1]) or 420 mm and 690 mm (Long Telescopic Kit[2]) when measured from the flue elbow. There is 40 mm engagement into the elbow.

3. Determine the appropriate External Trim & Seal for the installation, either 114 mm or 127 mm. When the 114 mm seal is required remove the identifying tag before use. If the wall thickness is less than 300 mm complete all measuring before fitting the seal.

4. Slide the External Trim & Seal over the flue up to the terminal and secure it with the four screws. The screws should be equispaced every 90˚ at the indentations in the seal. To ease insertion of the screws it is recommended to drill 4 x 1 mm Ø pilot holes via the indentations.

5. Where required fit the white Internal Trim over the flue. This trim is for internal use ONLY & must not be used externally.

6. Locate the elbow on the top of the boiler and set to the required orientation (Fig. 6). Do not secure the flange to the boiler top panel at this point.

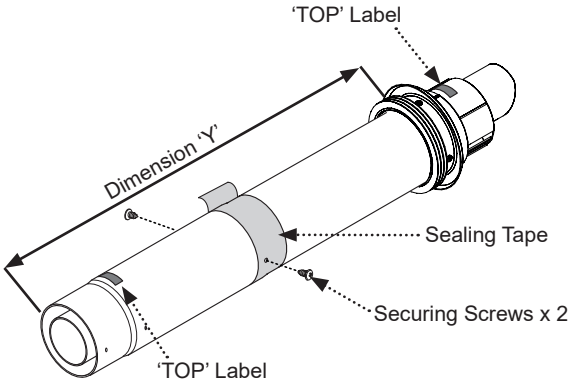
Great care must be taken to not disturb or damage the heat exchanger seal when fitting the elbow.

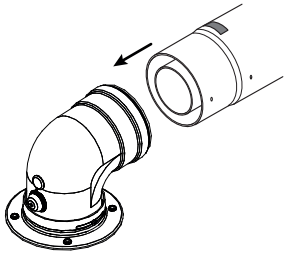
7. Measure the distance from the outside wall face to the elbow. This dimension will be known as 'X'.

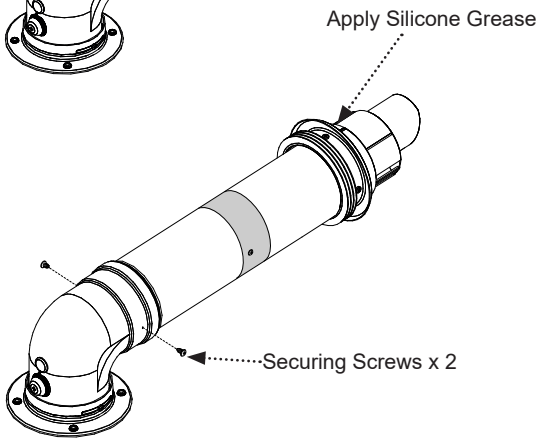
8. If the distance from the flue elbow to the outside face of the wall ('X') is less than 300 mm the Connection Assembly **B** can be discarded and the Terminal Assembly **A** fitted directly into the elbow **C**.

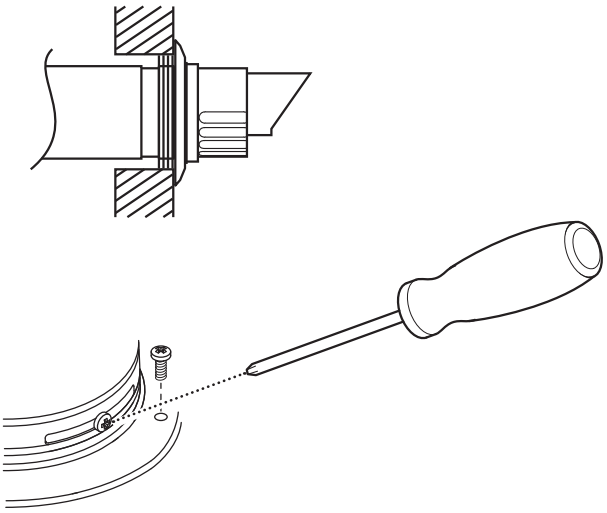
9. In instances where the dimension 'X' is between 210 mm and 300 mm it will be necessary to shorten the Terminal Assembly by careful cutting to accommodate walls of these thicknesses.

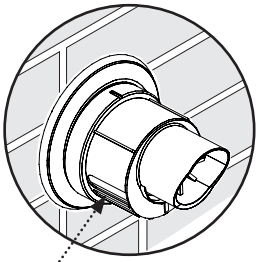
10. To dimension 'X' add 40 mm. This dimension to be known as 'Y'.








**Fitting the flue** (cont.)

11. Adjust the two telescopic sections to dimension 'Y' and seal the joint with the tape provided. Ensure that the labels marked 'TOP' on the Terminal and Connection Assemblies are uppermost.

12. Using the clearance holes in the Connection Assembly secure it to the Terminal Assembly using the screws supplied.

13. Remove the elbow from the boiler. Insert the assembled flue into the elbow and secure with the screws supplied using the indentations in the elbow. To assist installation apply the remaining silicone grease supplied to the outer face of the External Trim & Seal.

14. Insert the flue assembly into the hole in the wall until the combined External Trim & Seal are fully through. Pull the flue back to position the seal fully within the hole and the trim against the wall. Align the elbow over the boiler top panel.

15. Secure the flange to the boiler top panel with the screws provided. Tighten the screws into the elbow body.

16. Ensure that the terminal is positioned with the slots to the bottom.

**i** It is essential that the flue terminal is fitted as shown to ensure correct boiler operation and prevent water entering the flue.

17. When codes of practice dictate the use of a terminal guard accessory part no. 720627901 can be used.

18. Where fitted push the white internal trim to sit against the wall on which the boiler is mounted.

19. Where possible recycle any unused material in accordance with local legislation.

## Baxi Customer Support

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