



Installation of Flue Pipes and Fittings

Recommended tools and fittings:

- Basic tool kit – screwdrivers, pliers, tape measure etc.
- Hammer and cold chisel (only for masonry walls)
- Drill with steel and masonry bits
- Angle Grinder with stainless steel and masonry blades
- Jig saw
- Spirit level
- Plumb bob or weight with pointed tip fixed to a line
- Fixing bolts, screws and wall plugs
- High temperature silicone sealant
- Acrylic sealant
- Ladders for internal and external use
- Relevant PPE as per H&S requirements (e.g. safety goggles, gloves, etc)

Single Storey - Internal Flue

D150 INTERNAL FLUE KIT



D150 INTERNAL FLUE KIT



1. D150 1000mm single skin pipe
2. D150 single(f) to double(m) converter
3. D150 1000mm double skin pipe
4. D150 single skin clamp
5. D150 double skin clamp
6. D150 double skin pipe cover plate
7. D150 double skin drum-hat cowl
8. D150 500mm single skin pipe
9. Floor protection plate*
10. Roof seal (waterproofing)*

*Items 8 & 9 sold separately

STEP-BY-STEP INSTALLATION GUIDE

Single Storey - Internal Flue

Step 1 - Position the fireplace:

- Place the fireplace on a suitable level and non-flammable surface in your chosen position
- In the case of heat sensitive flooring (e.g., wood/laminates) floor protection such as a steel floorplate must be installed between the fireplace and the floor before positioning the fireplace
 - *floorplates are sold separately - see the Econofire website*
- Apply the minimum safety distances as per the instruction manual supplied with your fireplace

Step 2 - Mark the flue position:

- Using a plumb bob, find and mark the centre point of the flue outlet of the fireplace on the ceiling above the fireplace. You can fit 1m of flue onto the fireplace to shorten the distance to the ceiling for measuring
- Drill a small hole in the centre point through the ceiling. Check for any obstructions inside the ceiling (e.g., wooden beams/roof trusses). Note the minimum safety distance from a wooden beam or any other flammable materials to an insulated flue pipe is 100mm
- If an obstruction is encountered, either the fireplace should be repositioned or the flue pipe can be off-set - below or inside the ceiling.
 - *45-degree bends for off-sets are available for purchase from the Econofire website*

Step 3 - Cut a hole in the ceiling:

- Draw a circle on the ceiling around the centre point making the diameter 50mm larger than the diameter of the flue pipe. For example, if the diameter of the flue pipe measures 200mm, the hole in the ceiling must measure 250mm.
- Use a jigsaw or suitable bladed instrument to cut the hole in the ceiling

Step 5 - Penetrating the roof cover:

- Use the plumb bob again to mark the centre point for the hole to be opened in the roof covering directly above the centre point of the hole in the ceiling.
- For a tiled roof, remove the required tiles directly above the ceiling opening
- For a metal roof, cut a hole in the roof sheet directly above the opening measuring 100mm larger than the outside diameter of the insulated flue
- Use an angle grinder or tin snips to cut a metal roof
- **NB: If off-setting the flue pipe inside the ceiling mark the roof covering directly above the vertical flue pipe after the off-set**

Step 6 - Install the flue pipe and fittings:

- Joint clamps are included to close and secure each joint, make sure they are fitted at each joint of the flue pipe installation before using the fireplace
- Fit the single skin pipe to the outlet of the fireplace, female end down, to start the flue installation
- Drill holes of 4-6mm on the corners of the ceiling cover plate before placing the ceiling cover plate over the single skin flue pipe to let it rest at the lowest point – it cannot be fitted afterward to the ceiling with the flue pipes in position!
- Before the pipe enters the ceiling, at a minimum distance of 300mm below, fit the single to double converter to change from single skin to double skin pipe – the single skin pipe can be trimmed to the required length using an angle grinder with stainless steel blade
- Continue with the double skin pipe through the ceiling in the roof space and exit through the roof to the outside
- For a tiled roof, you can now replace the roof tiles and dress the tiles around the flue pipe using an angle grinder with a masonry blade
- Fit or apply the water-proofing to the roof covering and around the flue pipe to ensure a water-tight seal
 - *recommended rubber boot seals are supplied separately – see the Econofire website*
- Fit the cowl to the top of the double-skin pipe to complete the flue pipe
- The ceiling cover plate can now be lifted up and fixed to the ceiling with suitable screws

Step 7 - Final completion with a first fire:

- Carefully check that all flues are properly aligned and joined together with the fixing clamps
- Consult the fireplace manual again for a final check on all safety distances and that no flammable materials are in close proximity to the fireplace
- Check the flue pipe is clear of obstructions – all foreign materials such as rags have been removed
- Clean the flue pipe and fittings with a suitable stainless-steel cleaner and soft cloth
- Refer to fireplace manual for user instructions and to follow the instructions on lighting of the first fire