

## EdilKamin Pellet Fires Vent System Installation Manual



# metrofires

## Pellet Fire Vent Systems

- Iris Plus and Little models
- Important information for installer
- Vent Kit Installation instructions
- Installation for a sloping ceiling

# Pellet Fire Freestanding Vent System Installation

## **⚠ WARNING!** Important Information

- **DO NOT USE MAKESHIFT MATERIALS OR MAKE COMPROMISES IN THE INSTALLATION. IT IS A FIRE HAZARD.**
- **DO NOT INSTALL A FLUE DAMPER IN THE EXHAUST VENTING SYSTEM OF THIS PELLETT FIRE.**
- **DO NOT CONNECT THIS PELLETT FIRE TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.**
- **THE APPLIANCE AND FLUE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH AS/NZS 2918 AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODE OR CODES.**
- **THIS VENT SYSTEM IS FOR USE WITH EDILKAMIN PELLETT FIRES ONLY.**

### IMPORTANT NOTE TO THE INSTALLER

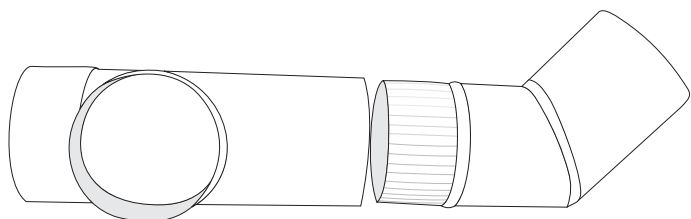
Pellet fire “vent systems” are pressurised at all times during the operation of the appliance, and it is crucial that every joint in the vent system is fully sealed using suitably rated “high temperature silicone” [Pioneer supply industrial grade RTV silicone suitable for this purpose] **DO NOT USE FIRE CEMENT.** PLEASE NOTE;

- If joints are not fully sealed ash will blow into the room.
- Prior to commencing installation ensure that;
  - A building consent has been issued for the installation.
  - You are competent and capable to carry out this installation.
  - You have read and fully understand these instructions.
  - You have a suitable flashing available which is appropriate from the roof material you are penetrating. You also have a suitable silicon for both the flashing and to seal all the joints of the vent system.

- You have checked to ensure all the components of the vent system as listed below are included with the kit;

- A - 2 x Black Painted 100mm diameter S/S vent pipes
- B - 1 x 100mm diameter S/S vent pipe
- C - 1 x “T” piece with cap fitted [cap is removable with gasket seal]
- D - 1 x Plastic coated black ceiling plate
- E - 1 x Mounting plate with 200mm diameter stub liner attached
- F - 1 x 150mm diameter galvanised casing with “slip liner”
- G - 1 x Cowl assembly
- H - 1 x Centralising bend
- I - 1 x Bag of bolts/screws

## Vent Kit Installation Instructions



1. Place the capped “T” on a flat surface, then align the centralizing bend so it is pointing up on a 20 degree angle as illustrated below, smear the inside with silicone then push in the crimped end of the bend and secure with 4 x s/s rivets.
2. Attach the assembled “T” piece and centralizing bend to the vent outlet of the pellet fire and position it so the top of the centralizing bend is in the centre of the pellet fire and pointing vertically up towards the ceiling. (Refer to Figure 2) Secure in place using 4 x self tapping screws and silicone sealant.
3. Position the pellet fire in the desired location, check that the pellet fire and floor protector have adequate clearances/projections and that the vent system will be clear of ceiling joists, trusses, etc. then secure to the floor. (refer to the EdilKamin pellet fire installation manual)
4. At a point directly above the pellet fire vent centre, cut a 200mm square hole through the ceiling and a 150mm hole through the outer roof lining. Trim out the top face of the ceiling, using timber nogs creating a square aperture measuring 200mm internally.
5. Fit the mount plate into the ceiling by sliding the 200mm diameter stub casing attached to the mounting plate up into the ceiling until the two upturned edges of the mount plate rest against the underside of the ceiling. Square the mount plate to the wall and secure into location with the 4 x screws supplied into the nogs just fitted.
6. Moving onto the roof with the 150mm diameter galvanised casing, lower the slotted end of the casing into the roof cavity until it locates inside the brackets on the top face of the mounting plate. Return back into the room and using the two x 6mm bolts and washers supplied. Securely bolt the base of the 150mm diameter casing to the rivet nuts pre-fitted into the mount plate brackets.
7. Return back onto the roof and using a suitable flashing, weather proof the joint where the 150mm diameter casing penetrates the roof. (By fitting brackets securing the casing to the roof material will further improve the rigidity of the installation.)

## Vent Kit Installation Instructions - continued

8. Moving back into the home, remove the plastic film from the ceiling plate and place it black side down onto the top of the pellet fire.
- 9a. Unwrap the two painted vent pipes taking care not to mark the painted surface and proceed to assemble the 3 x 100mm diameter vent pipes as described below.
- 9b. Smear an adequate amount of silicone sealant inside the top/un-crimped ends of the 2 painted vent pipes only.
- 9c. Taking the unpainted vent pipe insert its top/un-crimped end up through the mounting plate until its bottom crimped end is about 1250mm above the top of the pellet fire
- 9d. Taking one of the two painted vent pipes, fit its lower crimped end into the top of the centralizing bend previously fitted to the rear of the pellet fire in item 2. Lower the unpainted vent pipe which is protruding down from the mounting plate so that it fully connects into the lower painted vent pipe. Ensure these two vent pipe sections are firmly connected and aligned, then secure using three stainless steel rivets spaced equally around the joint.
- 9e. Lift the two assembled vent pipe sections so the bottom of the lower section is 1250mm above the top of the pellet fire and repeat the above procedure to fit the remaining painted vent pipe. Wipe off any excess silicone from joints.
- 9f. With all three vent pipe sections securely joined, lift the bottom section of the vent pipe out of the centralizing bend then move it slightly off centre and allow it to rest on the centralizing bend. Smear an adequate amount of silicone sealant inside the top of the centralizing bend (move the vent pipe assembly as required to ensure the entire surface is coated with silicone sealant) Place the ceiling plate over the centralizing bend so the centre hole is directly above the centralizing bend fitted to the pellet fire, then lower the vent pipe into the top of the centralizing bend, with the vertical vent pipe seam facing the rear.
- 9g. Carefully move the ceiling plate up the vent pipe ensuring not to mark the painted surface and clip the ceiling plate onto the mounting plate.
- 9h. Secure the lower vent pipe attached to the centralizing bend using three stainless steel rivets spaced equally around the joint.
- 9i. Making your way back onto the roof, slide the slip section of the outer casing up until the top of the slip section is level with the top of the vent pipe (+ or - 10mm) then secure this slip section to the outer casing using rivets.  
*Note: Ensure the bottom of the cowl is a minimum of 600mm above the roofline as shown in Figure 1*
- 9j. Fit the stainless steel cowl into the vent pipe ensuring the three brackets fixed to the cowl fit outside the casing slip section. Drill through the pre punched holes in all 3 brackets into the casing slip and secure with self tapping screws to allow for future easy removal during cleaning.

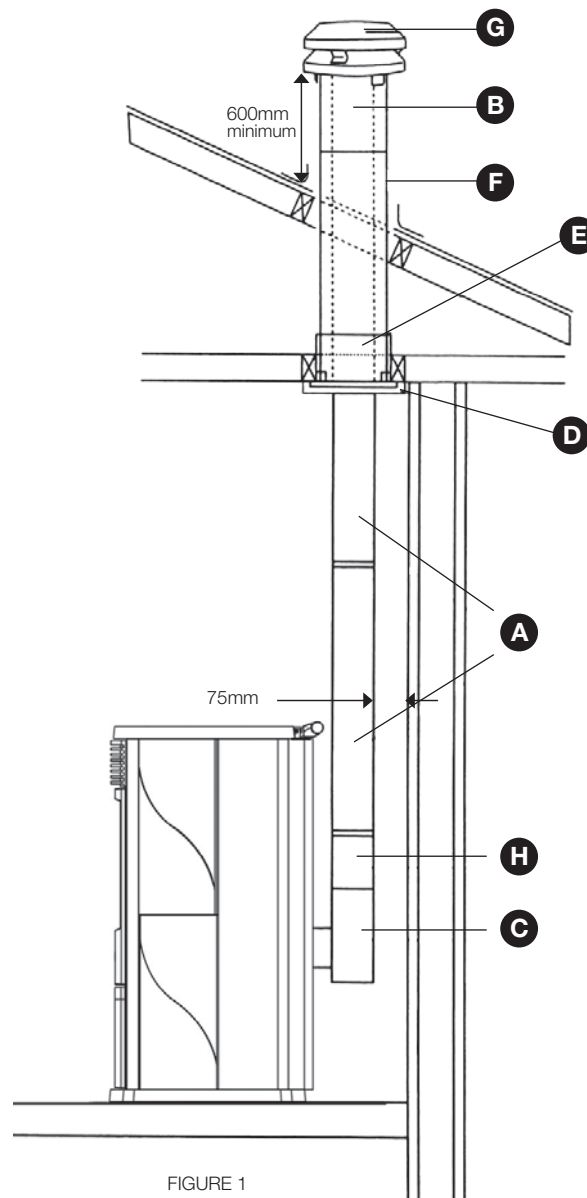


FIGURE 1

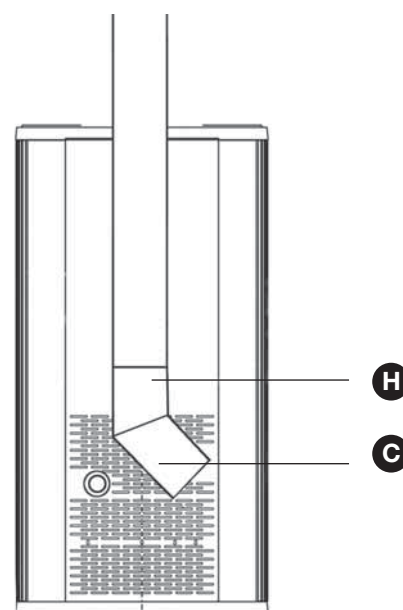


FIGURE 2

## Installation for a sloping ceiling

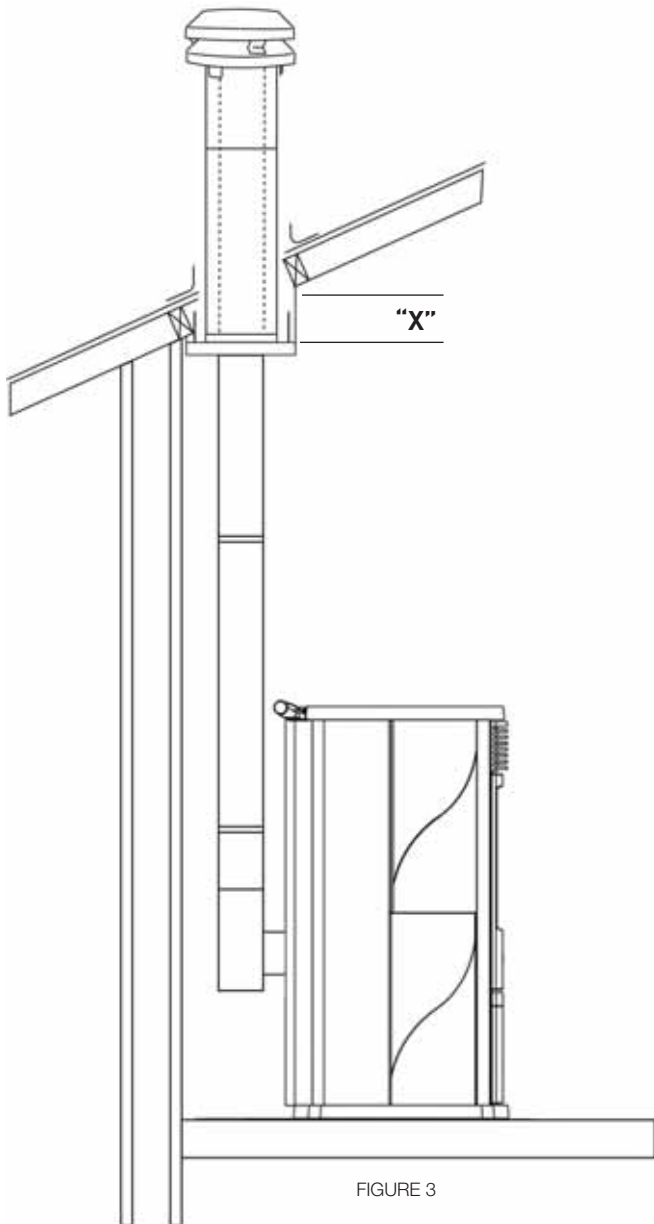


FIGURE 3

If the ceiling is angled you will need to purchase a Metro Pellet Fire vent system "in-fill panel".

The instructions below will replace 5. in the standard vent system installation manual.

- 5a. To give additional support to the installation attach a length of metal strapping to timber on the upper side of the opening in the roof space with the metal strapping protruding down into the room 250mm below ceiling height.
- 5b. Fix the mounting plate to the lower side of the sloping ceiling using two of the four screws supplied ensuring the "upturned folds" on the mounting plate are aligned parallel to the roof joists, i.e. pointing towards the apex.
- 5c. Hold the mounting plate level, using rivets or screws attach the metal strapping to the 200mm liner, fold any excess strapping below where you have fixed it to the 200mm liner back up towards the ceiling.
- 5d. Measure dimension "X" as shown on the assembly diagram below and transfer this measurement to the in-fill panel as shown on figure 4.
- 5e. Cut the in-fill panel to the correct size and fit the 3 edge covers. NOTE: The edge covers will require trimming on the ends to suit the angle of the ceiling.
- 5f. Fit the in-fill panel to the mount plate, holding firmly in place, drill two 3.2mm holes in either side of the mount plate ensuring you drill through the in-fill panel also. Secure the in-fill panel to the mount plate using 4 x rivets.

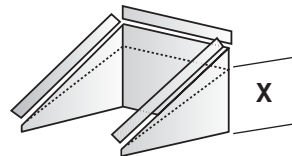


FIGURE 4