

DF700 & 960 / DFS730

GAS FIREPLACE

Installation & Service Instructions

IMPORTANT: THERE ARE NEW FALSE CAVITY FRAMING REQUIREMENTS THAT MUST BE ADHERED TO (REFER TO SECTION B1).

IMPORTANT: THESE DF700 AND DF960 FIRES REQUIRE THE USE OF A 43MM RESTRICTOR ON THE UVP POWERFLUE INTAKE PIPE (REFER TO SECTION C4 AND C5).

IMPORTANT: THE FASCIA AND SECONDARY GLASS ARE CRITICAL COMPONENTS OF THE FIRE AND MUST BE PROPERLY FASTENED PRIOR TO RUNNING THE FIRE (REFER TO SECTIONS D2 AND F1).

IMPORTANT: KEEP THIS MANUAL AND ANY INSTRUCTION SHEETS THAT COME WITH YOUR FUELBED AS THEY CONTAIN NECESSARY INFORMATION FOR FUTURE SERVICING.

IMPORTANT:

The appliance shall be installed in accordance with;

- This installation instruction booklet
- Local gas fitting regulations
- Municipal building codes
- Electrical wiring regulations
- Any other relevant statutory regulations.
- AS/NZS 5601.1 Gas Installations

**WARNING:**

THIS APPLIANCE MUST BE INSTALLED BY A QUALIFIED PERSON. THIS APPLIANCE MUST BE INSTALLED INTO A CAVITY STRICTLY IN ACCORDANCE WITH THE FOLLOWING INSTRUCTIONS.

DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.

DO NOT USE OR STORE FLAMMABLE MATERIALS IN OR NEAR THIS APPLIANCE.

DO NOT PLACE ARTICLES ON OR AGAINST THIS APPLIANCE.

DO NOT MODIFY THIS APPLIANCE.

This appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely.

Young children should be supervised to ensure that they do not play with the appliance. Failure to follow these instructions could cause a malfunction of the heater, which could result in death, serious bodily injury, and/or property damage. Failure to follow these instructions may also void your fire insurance and/or warranty.

Who can install this product:

Installation must be carried out by a registered installer who, on completion of the installation, must issue a:

AUS: Certificate of Compliance

NZ: Certificates that comply with the latest legislation in accordance with national and/or local codes. If these are not issued then the Escea warranty may be void.

Warranty Repair and Annual Servicing:

Please contact Escea if you require warranty work. Warranty repair work must be carried out by a recognised gas fire technician. It is recommended that recognised Escea Gas Fire Technicians are also used to carry out annual servicing requirements (particularly during the warranty period). For contact details of recognised Escea Gas Fire Technicians in your area, or for replacement parts, please contact the retailer from whom the appliance was purchased or visit our website.

To progress any warranty claims for damaged appliances/parts, photographic evidence may be required. Providing this can help contribute to a timelier resolution of a claim.

The heater must be installed according to these instructions and in compliance with all relevant building, gas fitting, electrical and other statutory regulations (eg. AS/NZS 5601). Any shortcomings in the appliance and flue installation will be the responsibility of the installer, and Escea will not be accountable for any such failings or their consequences.

Manufactured by: Escea Ltd, PO Box 5277 Dunedin NZ, Ph: +64 3 478 8220

For contact details of your local Escea distributor or dealer please visit www.escea.com or email: info@escea.com. From Australia, visit www.escea.com.au or call: AUS : 1-800 460 832

| DF700 PRODUCT SPECIFICATION | | | | |
|---|-----------------|---|---------------------------------|-----------------------------------|
| MODEL NAME | | DF700 | | |
| Description of Appliance | | Powerflued Gas Fire Heater | | |
| Star Rating | | 4 - 4.5 Stars | | |
| Max. Heat Output | | 5.4 - 5.8kW | | |
| Compliant To | | AS/NZS 5263.1.3 | | |
| Gas Type | | Natural | Propane | ULPG |
| Gas input | High | 23 MJ/hr | 23 MJ/hr | 23 MJ/hr |
| | Low | 14 MJ/hr | 14 MJ/hr | 14 MJ/hr |
| Inlet Pressure | Max | 5.0 kPa | 5.0 kPa | 5.0 kPa |
| | Min | 1.13 kPa | 2.75 kPa | 2.75 kPa |
| Operating Pressure on High | | 1.0 kPa | 2.30 kPa | 2.30 kPa |
| Operating Pressure @ Front Burner Jet on High | | 0.95 kPa | 2.29 kPa | 2.29 kPa |
| Burner Jet Size | | Front: 1.60mm Rear:1.40mm | Front: 1.05mm Rear:0.85mm | Front: 1.05mm Rear:0.85mm |
| Aeration Collar Hole Size | | 1 x Ø4mm Front 2 x Ø4.5mm Rear | 2 x Ø8mm Front 2 x Ø8mm Rear | 2 x Ø12mm Front 2 x Ø13mm Rear |
| Pilot injector | | #42 | #27 | #27 |
| Appliance Dimensions (mm) | Width | 690 mm | | |
| | Height | 598 mm | | |
| | Depth | 396 mm | | |
| Weight | Kg | 58 kg (inc. packaging) | | |
| Ignition System | | Electronic Ignition to pilot system | | |
| | | Escea PCB | | |
| Ignition Activation | | 7 secs (approx) | | |
| Flame Safeguard | | Flame Rectification | | |
| Consumption | | 84W @ 0.35A 230V | | |
| Remote controls | | Yes | | |
| Timers | | Yes (App and Internet connection compulsory) | | |
| Clock | | No | | |
| Function lock / child | | No | | |
| Temperature control | | Yes | | |
| Connections | Electric | 230V AC | | |
| | Gas | 1/2" BSPP female lower right of fireplace chassis | | |
| | Flue Type | 100mm and 75mm Flexi Flue | | |
| | Spigot Location | Rear and Centre | | |
| Data badge location | | On Chassis Base | | |

| DF960 PRODUCT SPECIFICATION | | | | |
|--|-----------------|---|-----------------------------------|-------------------------|
| MODEL NAME | | DF960 | | |
| Description of Appliance | | Powerflued Gas Fire Heater | | |
| Star Rating | | 4 Star | | |
| Max. Heat Output | | 6.9kW | | |
| Compliant To | | AS/NZS 5263.1.3 | | |
| Gas Type | | Natural | Propane | ULPG |
| Gas input | High | 29 MJ/hr | 31 MJ/hr | 31 MJ/hr |
| | Low | 20 MJ/hr | 18 MJ/hr | 18 MJ/hr |
| Inlet Pressure | Max | 5.0 kPa | 5.0 kPa | 5.0 kPa |
| | Min | 1.13 kPa | 2.75 kPa | 2.75 kPa |
| Operating Pressure on High | | 1.0 kPa | 2.30 kPa | 2.30 kPa |
| Operating Pressure @ Front Burner Jet on High | | 0.94 kPa | 2.20 kPa | 2.20kPa |
| Burner Jet Size | | Front: 1.90mm | Front: 1.20mm | Front: 1.20mm |
| | | Rear: 1.40mm | Rear: 1.05mm | Rear: 1.05mm |
| Aeration Collar Hole Size for Logs & Embers/Flakes | | 1 x Ø4mm Front 1 x Ø4mm Rear | 2 x Ø11mm Front 2 x Ø13mm Rear | Spacer (no restriction) |
| Pilot injector | | #42 | #27 | #27 |
| Appliance Dimensions (mm) | Width | 940 mm | | |
| | Height | 598 mm | | |
| | Depth | 400 mm | | |
| Weight | Kg | 80 kg (inc. packaging) | | |
| Ignition System | | Electronic Ignition to pilot system | | |
| | | Escea PCB | | |
| Ignition Activation | | 7 secs (approx) | | |
| Flame Safeguard | | Flame Rectification | | |
| Consumption | | 84W @ 0.35A 230V | | |
| Remote controls | | Yes | | |
| Timers | | Yes (App and Internet connection compulsory) | | |
| Clock | | No | | |
| Function lock / child | | No | | |
| Temperature control | | Yes | | |
| Connections | Electric | 230V AC | | |
| | Gas | 1/2" BSPP female lower right of fireplace chassis | | |
| | Flue Type | 100mm and 75mm Flexi Flue | | |
| | Spigot Location | Rear and Centre | | |
| Data badge location | | On Chassis Base | | |

CONTENTS

| | |
|---|-----------|
| A Product Description and Installation Process | 8 |
| A1 Product Description | 8 |
| A2 Recommended Install Process | 8 |
| B Creating the Cavity | 9 |
| B1 Product Dimensions | 9 |
| B2 Masonry Installation | 10 |
| B3 Floor Clearances | 11 |
| B4 Corner Installations | 11 |
| B5 Hearth | 12 |
| B6 Cavity Base | 12 |
| B7 Wall Linings | 12 |
| B8 Side Wall Clearances | 12 |
| B9 Television & Mantel Clearances | 13 |
| B10 Fascia Dimensions | 14 |
| B11 Distance from Fireplace to Fascia Base | 15 |
| C Installing the Flue | 16 |
| C1 Flue Configuration (If less than 4m flue length is required) | 16 |
| C2 Flue Configuration (If more than 4m flue length is required) | 18 |
| C3 Installing the Horizontal Power Flue | 19 |
| C4 Installing the External Vertical Power Flue (UVP) | 22 |
| C5 Installing the Internal Vertical Power Flue | 23 |
| C6 Masonry Vertical Power Flue Kit (up to 6m) | 25 |
| C7 Masonry Vertical Power Flue Extension Kit (6 to 12m) | 26 |
| C8 Installing in Accordance with Relevant Codes | 27 |
| C9 Running the Flue | 28 |
| C10 Insulation Specification and Installation | 29 |
| C11 Running the Power Flue Electrical Cable | 29 |
| C12 Setting up the Flue Spigot Plate | 30 |
| D Installing the Electricity and Gas to the Appliance | 31 |
| D1 Power Supply | 31 |
| D2 Removing the Glass | 31 |
| D3 Removing the Burners | 32 |
| D4 Gas Pipe Sizing | 33 |
| D5 Gas Pipe Position | 33 |
| D6 Gas Supply | 33 |

| | | |
|--|---|-----------|
| E Installing The Appliance | | 34 |
| E1 | Installation | 34 |
| E2 | Connecting the Flue | 34 |
| E3 | Removing the Burner Tray | 35 |
| E4 | Connecting the Power Flue Cable | 36 |
| E5 | Fixing the Appliance to the Base | 36 |
| E6 | Home Automation Setup (Optional) | 37 |
| E7 | Connecting the Gas Pipe to the Regulator | 38 |
| E8 | Gas Isolating Valve | 38 |
| E9 | Pressure Test Point | 38 |
| E10 | Checking the Operating Pressure | 38 |
| E11 | Flame Picture | 39 |
| E12 | Volcanic Rock Fuelbed Installation | 40 |
| E13 | Traditional Logs and Splitwood Elm Fuelbed Installation | 40 |
| E14 | Installing the Glass | 41 |
| F Fitting the Fascia and Finishing Installation | | 42 |
| F1 | Fitting the Fascia | 42 |
| F2 | Locating Wall Mount Cradle for Remote | 42 |
| F3 | Operating the Appliance for the First Time | 43 |
| F4 | Normal Operating Sounds and Smells | 44 |
| F5 | Cleaning the Glass | 44 |
| G Freestanding Unit (DFS730) Installation | | 45 |
| G1 | Product Dimensions | 45 |
| G2 | Hearth and Clearances | 45 |
| G3 | Locating the DFS730 | 45 |
| G4 | Gas Pipe Routing Information | 46 |
| G5 | Flue Installation | 47 |
| G6 | Horizontal Flue Kit | 48 |
| G7 | DF700 Fireplace Installation into DFS730 Freestanding Console | 48 |
| H Installation Checklist | | 49 |
| S Service Manual | | 50 |
| S1 | Annual Service Procedure | 50 |
| S2 | Error Codes | 51 |
| S3 | Serial Number | 53 |
| S4 | Checking Operating Pressure | 53 |
| S5 | Cleaning the Fascia | 53 |

| | | |
|-----|--|----|
| S6 | Converting the Appliance Gas Type | 55 |
| S7 | Removing or Cleaning Fan | 55 |
| S8 | Removing Electronic Tray | 56 |
| S9 | Replacing the Thermal Cut Out | 57 |
| S10 | Removing the Pressure Switch | 58 |
| S11 | Replacing/Pairing a Remote Control | 59 |
| S12 | Servicing the Horizontal/Universal Vertical Power Flue | 59 |
| S13 | Wiring Diagram | 61 |

A

PRODUCT DESCRIPTION AND INSTALLATION PROCESS

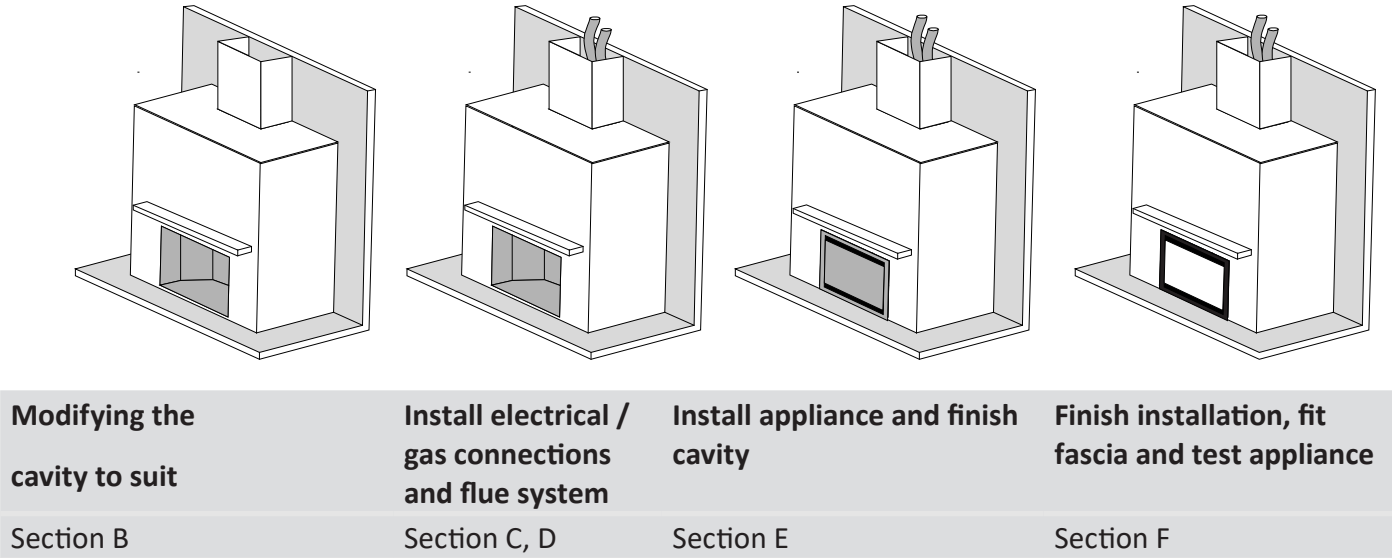
A1 Product Description

The Escea DF-Series gas fire is a room sealed gas appliance designed to be built into a masonry cavity or a false chimney cavity. DF-series products are provided with standoffs to ensure adequate clearances to combustible materials. These appliances are flued using co-linear flexible aluminum flue (with PolyPro flue extensions for some models) connected to a Power Flue. The user will control their fire with the Radio Frequency (RF) remote that will normally be located in its wall mount cradle. In addition to the RF remote the appliance has a single auxiliary On/Off button on the unit. When not in operation it is in a standby mode unless it is physically isolated from the mains supply.

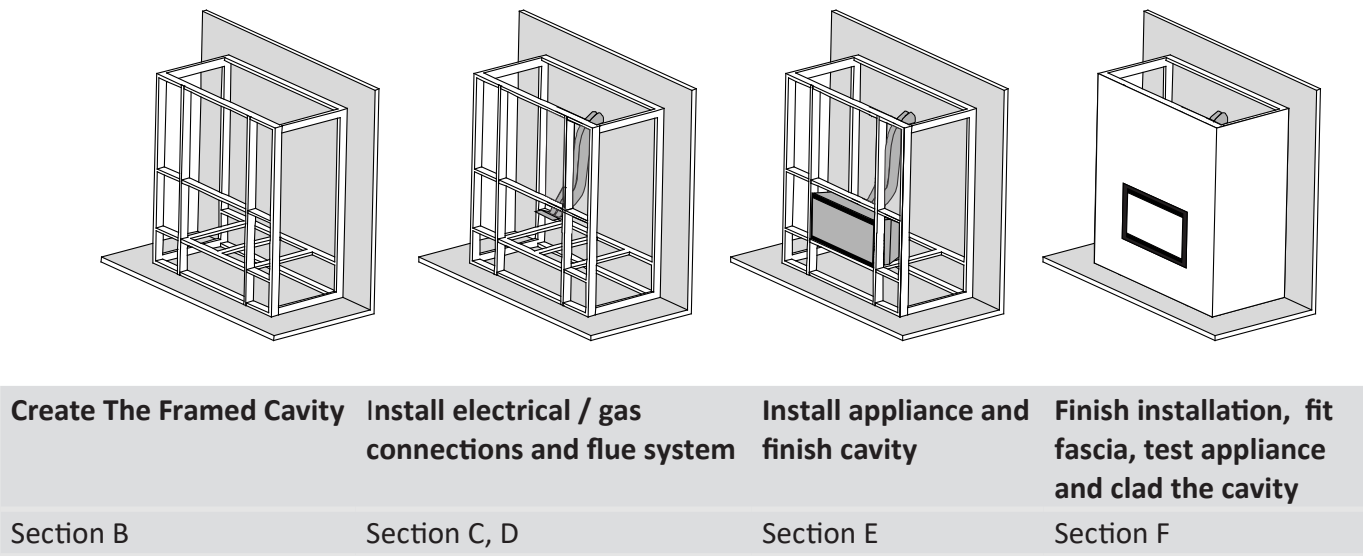
A2 Recommended Install Process

The following diagram illustrates the steps required to install your gas fire. The sequence in which you choose to do these tasks will vary depending on your individual scenario. Please read these instructions fully before proceeding with the installation.

Masonry Installation



False Cavity Installation



IMPORTANT: INSTALLATIONS THAT ARE NOT SPECIFICALLY OUTLINED IN THIS MANUAL SHOULD BE REFERRED TO THE ESCEA ARCHITECTURAL ADVISORY TEAM.

PLEASE EMAIL AA@ESCEA.COM

I.E. HUTCH, UNDER BENCH, RECESSED, AND JOINERY ENCLOSED INSTALLATIONS.

I.E. USE OF HEAT SENSITIVE MATERIALS SUCH AS RESIN STONE OR LAMINATED TIMBER.

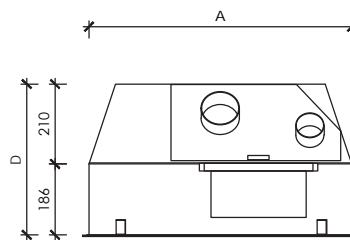
I.E. DF FLUE INSTALLATIONS OVER 4 METRES.

To ensure that your installation is fully complete, please use the "Installation Checklist" on page 49.

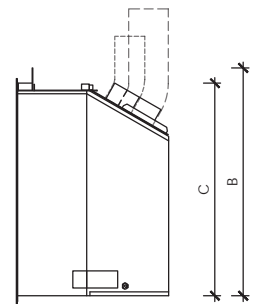
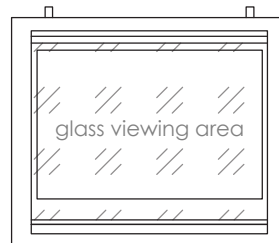
B CREATING THE CAVITY

B1 Product Dimensions

Note: All outside dimensions taken from the appliance are with the standoffs attached



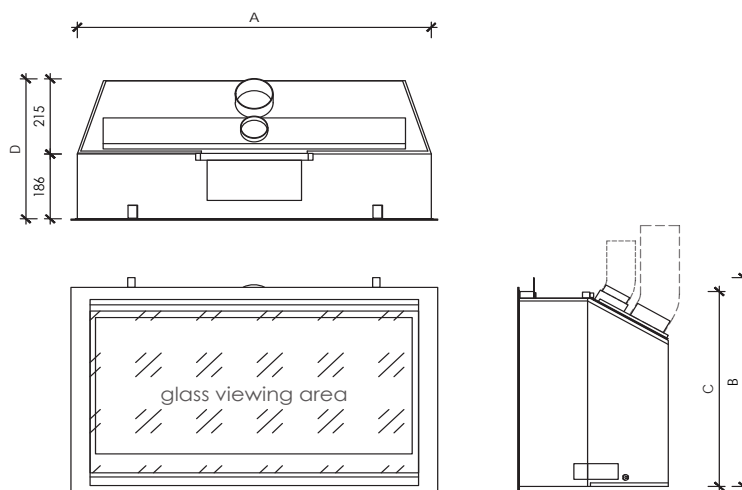
Note: a top is not required when creating the cavity



| | |
|---|-------|
| Fireplace Width (A) | 690mm |
| Fireplace Height (B) | 598mm |
| Fireplace Height (C) Without standoff bracket | 558mm |
| Fireplace Depth (D) | 396mm |
| Glass Viewing Area Width | 620mm |
| Glass Viewing Area Height | 464mm |

| | |
|-----------------------------------|--------|
| Framed Cavity Opening Width min. | 695mm |
| Framed Cavity Opening Height min. | 600mm |
| Framed Cavity Depth min. | 400mm* |

*** Cavity does not include the 50mm flue clearance to a combustible material**



| | |
|---|-------|
| Fireplace Width (A) | 940mm |
| Fireplace Height (B) | 598mm |
| Fireplace Height (C) Without standoff bracket | 558mm |
| Fireplace Depth (D) | 400mm |
| Glass Viewing Area Width | 872mm |
| Glass Viewing Area Height | 464mm |

| | |
|---|--------|
| Framed Cavity Opening Width min. | 945mm |
| Framed Cavity Opening Height min. | 600mm |
| Framed Cavity Depth min. includes flue overhang | 425mm* |

*** Cavity does not include the 50mm flue clearance to a combustible material**

B2 Masonry Installation

The DF gas fireplaces fit existing masonry chimneys and benefit from a fully non-combustible structure with minimised clearances. Installation requires a minimum opening size of:

DF700: 695mm W x 560mm H x 400mm D

DF960: 945mm W x 600mm H x 425mm D

WARNING: IDEALLY THE WALL LINING WON'T BE INSTALLED UNTIL AFTER THE FIREPLACE IS INSERTED INTO THE CAVITY. PLEASE FOLLOW THE STEPS IN THE FIGURES SHOWN.

WARNING: ENSURE ADEQUATE ALLOWANCES ARE MADE FOR FASCIAS: SEE SECTION B6 ON PAGE 12 OR B11 ON PAGE 15.

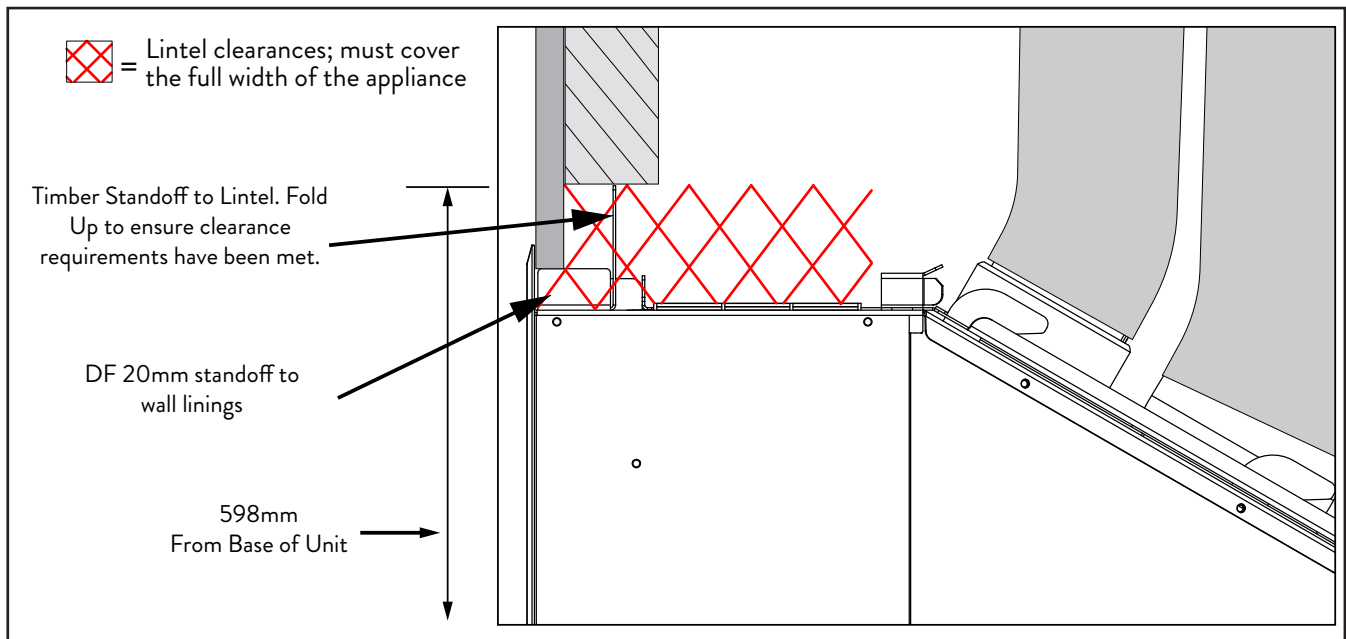
Note: Measure the indicated framing dimensions from the base of the appliance.

Note: If cavity dimensions significantly exceed those specified, a register plate is available for purchase through your local Escea retailer (New Zealand Only).

Compulsory False Cavity Requirements

Ensure the fireplace is inserted first before the wall lining is built.

For floor-mounted installations, allow for fascia clearance, see B11 on page 15.



WARNING: DF700 AND DF960: THE TOP STANDOFFS MUST BE ADJUSTED TO THE UPRIGHT POSITION BEFORE THE FIREPLACE INSTALLATION. ALL STANDOFFS MUST REMAIN IN PLACE FOR FIREPLACE INSTALLATION.

NOTE: Wall lining should hang below the lintel to meet the appliance edge.

NOTE: If your installation requirements do not align with the diagram above, please contact our architectural advisory team: aa@escea.com

B3 Floor Clearances

If the appliance is mounted above a “heat resistant floor” (including but not necessarily limited to: ceramic tiles, concrete, and stone) then it may be positioned with the bottom of the fascia level with the finished floor if desired (30mm or 55mm spacer required under the fire in this case depending on the fascia type).

If the appliance is mounted above a “heat sensitive floor” (including but not necessarily limited to: carpets, vinyl, carpet tiles, rugs and mats, timber, joinery, wooden flooring - see materials guide) then we recommend a distance of 100mm from the bottom of the fascia to the finished floor or hearth.

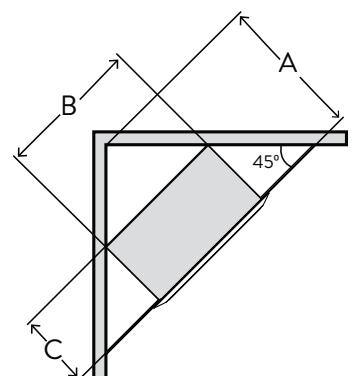
NOTE: Excerpt from AS/NZS 5601.1 Sec. 6.2.5. “A gas appliance shall be installed such that the surface temperature of any nearby combustible surface will not exceed 65°C above ambient.”

Refer to section B5 on page 12 for hearths.

B4 Corner Installations

If a cavity is to be created in a corner, the following drawing gives the minimum sized interior wall dimensions.

| | A | B | C |
|-------|-------|-------|-------|
| DF700 | 685mm | 695mm | 420mm |
| DF960 | 815mm | 945mm | 435mm |



B5 Hearth

A finished floor level hearth is not required, however it may be used for decorative purposes or for protection of soft/ heat sensitive flooring as stated in the section "B3 Floor Clearances" on page 11 to allow a smaller floor clearance. The hearth should not obscure the front face of the fire, must protrude at least 200mm from the face of the fireplace and be at least the width of the appliance and should be made from a non-combustible and heat resistant material.

A raised hearth should conform to the above guideline.

B6 Cavity Base

This appliance **MUST** be fully supported on its base. The base must extend over the entire area of the underside of the appliance. The base must also be levelled to prevent vibration from possible fan imbalance. The base of the cavity must be strong enough to support 120kgs.

The fireplace must be seismically restrained in a manner appropriate to the installation location and accessible once the secondary glass is removed.

When placing the DF700 or DF960 at floor level, raise the fireplace base to allow for the fascia overhang: 30mm for Slim/Stretch, 55mm for Edge.

B7 Wall Linings

NOTE: For false cavity installations, DO NOT line the wall before the fireplace has been fitted into the cavity; the top standoffs are required to be upright for this installation type and then folded down once framing is fixed.

The side-front flanges of the appliance must be on top of the finished wall surface in order for the fascia to mount properly. Take into account any plaster board, tiles, or any other finishing surface that may be intended for the finished wall surface.

The wall board that lines the outside of this opening can be normal dry wall (plaster board) and does not need to be non-combustible.

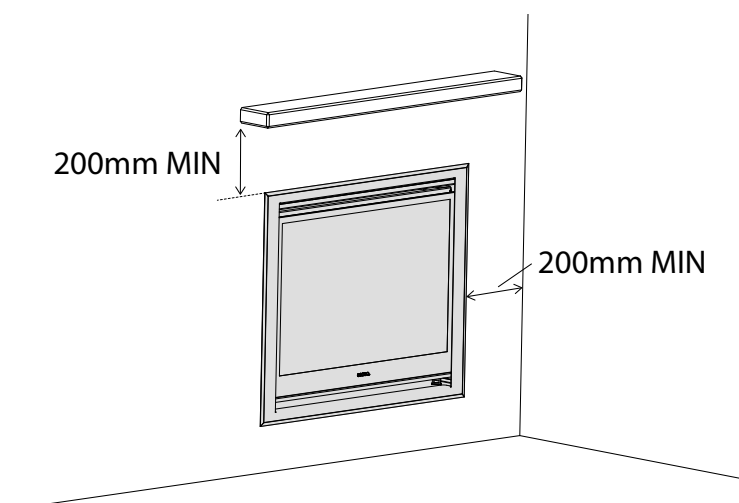
If, for some reason, the cavity dimensions exceed those specified in section B1 on page 9, a register plate is available (New Zealand only) for purchase through your local Escea distributor.

Note: The temperature of the wall lining directly above the heater does get warm and hence may discolour paint finishes that are susceptible to temperature damage or distort vinyl wall coverings. For durability of finishes and surfaces you should contact the relevant manufacturer for their specification.

B8 Side Wall Clearances

The diagram (shown below) shows the recommended minimum clearances for the location of any DF-Series gas fire in relation to a side wall.

Note: The Escea DF Mantels are suitable to use with these fires.



B9 Television & Mantel Clearances

Television

The diagram (shown below) shows the recommended minimum clearances for the location of any electrical equipment (such as Plasma TV, LCD TV or home theatre) above a DF-Series gas fire.

NOTE: Dimensions are from the top edge of the air opening.

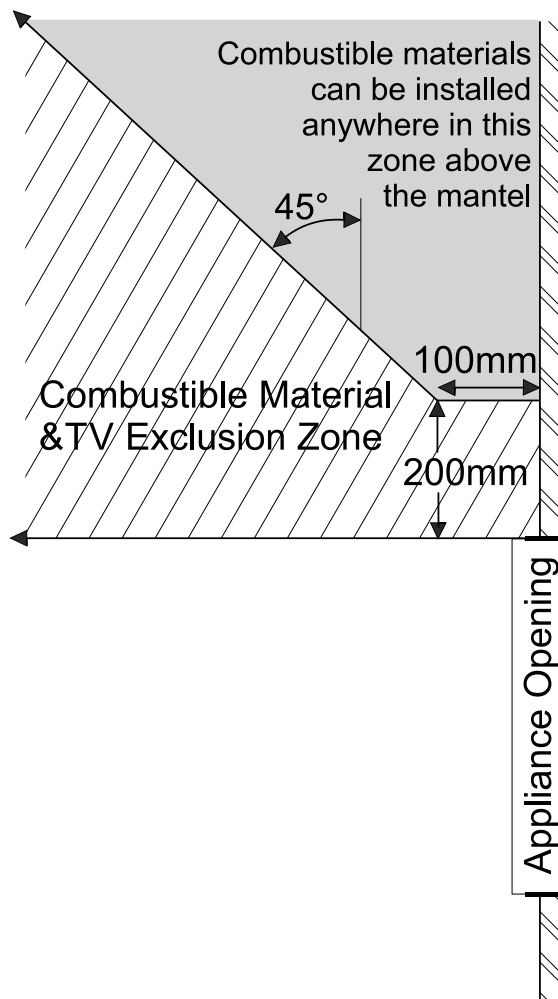
NOTE: Escea does not recommend putting artwork above the fireplace. Doing so is at your own risk.

NOTE: The television clearance recommendations are to be treated as a suggestion of a suitable installation only. It is the responsibility of the end user to check the installation instructions of their electrical appliances to ensure that the location in relation to the gas fire is suitable. Escea in no way guarantees or takes responsibility that the recommended installation suggestion will be suitable for all electrical or home entertainment appliances.

Mantel

Mantels or protruding ledges above the heater must not be installed lower than the dimension shown to the right of the diagram below.

NOTE: Dimensions are from the top edge of the air opening.



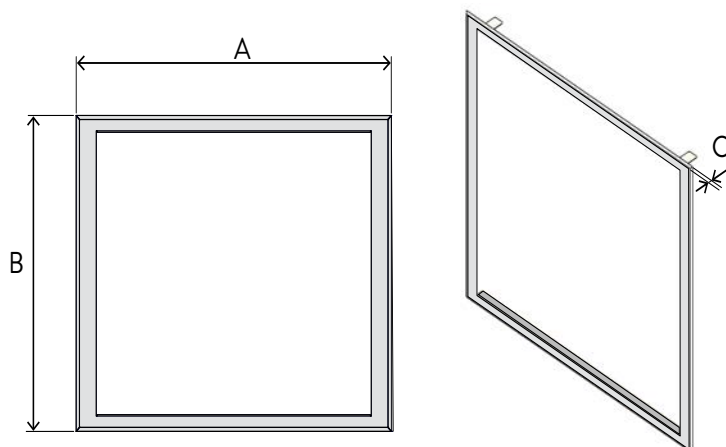
For DF700 & DF960
the minimum height for TV
installation without a
mantel installed: 200mm

B10 Fascia Dimensions

The dimensions of the fascias are shown below.

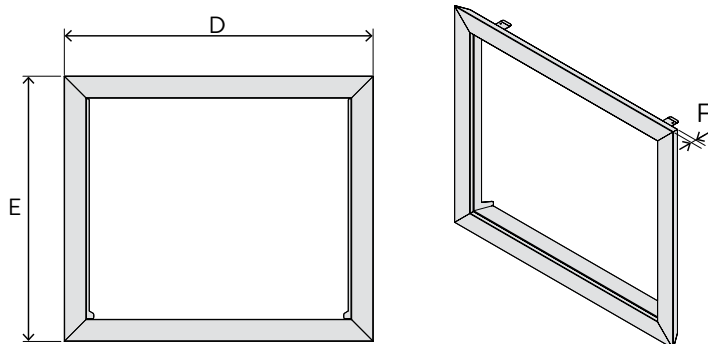
WARNING: THE FASCIA IS A CRITICAL COMPONENT OF YOUR GAS FIRE. NEVER RUN THE FIRE WITHOUT THE FASCIA PROPERLY FASTENED.

Slim Fascia & Stretch Fascia



| | Fascia Type | A | B | C |
|--------------|-------------|--------|-------|-----|
| DF700 | Slim | 723mm | 598mm | 4mm |
| | Stretch | 761mm | 632mm | |
| DF960 | Slim | 973mm | 598mm | 4mm |
| | Stretch | 1011mm | 632mm | |

Edge Fascia

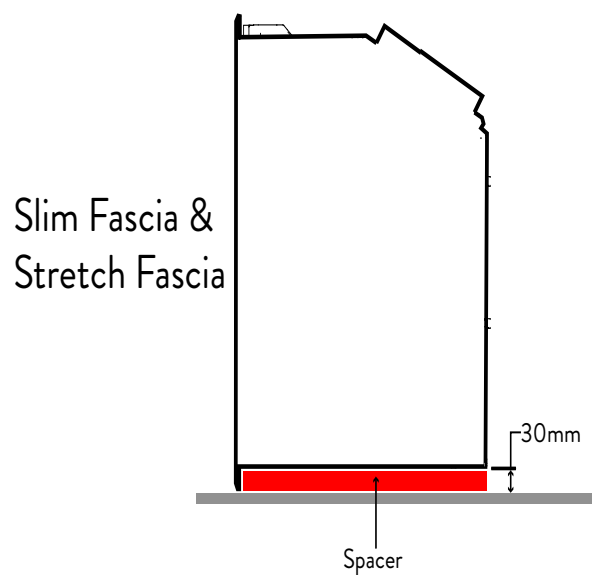
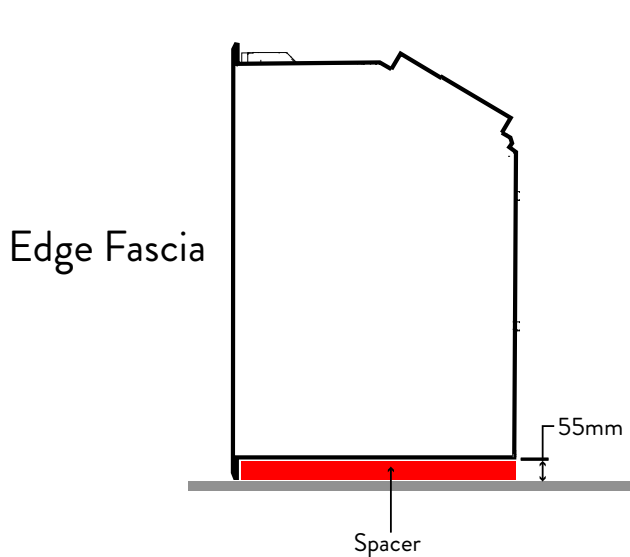
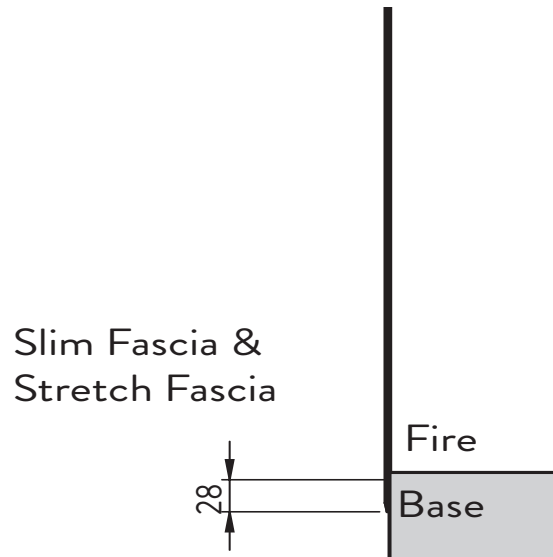
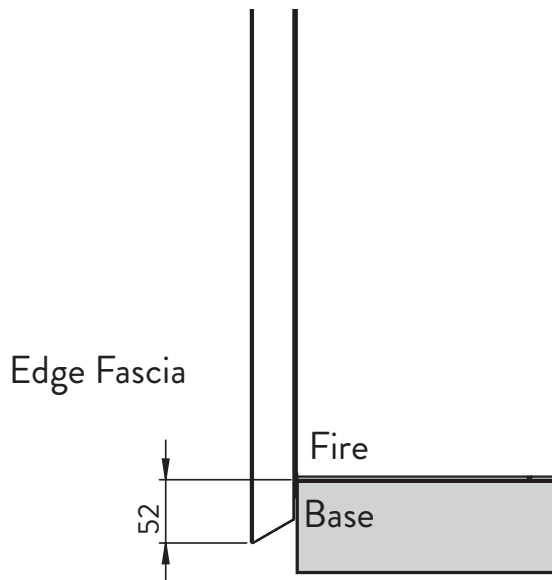


| | D | E | F |
|--------------|-------|-------|------|
| DF700 | 745mm | 640mm | 35mm |
| DF960 | 995mm | 640mm | 35mm |

B11 Distance from Fireplace to Fascia Base

The installation requires a spacer below the appliance to allow room for the fascia to sit flush with the non combustible floor or a hearth.

The following side-on view shows the measurement from the base of the fireplace to the base of the fascia:



END OF SECTION B

BY THE END OF THIS SECTION, YOU SHOULD HAVE:

- ☐ A framed false cavity OR
- ☐ A masonry cavity sized to suit the appliance.

C INSTALLING THE FLUE

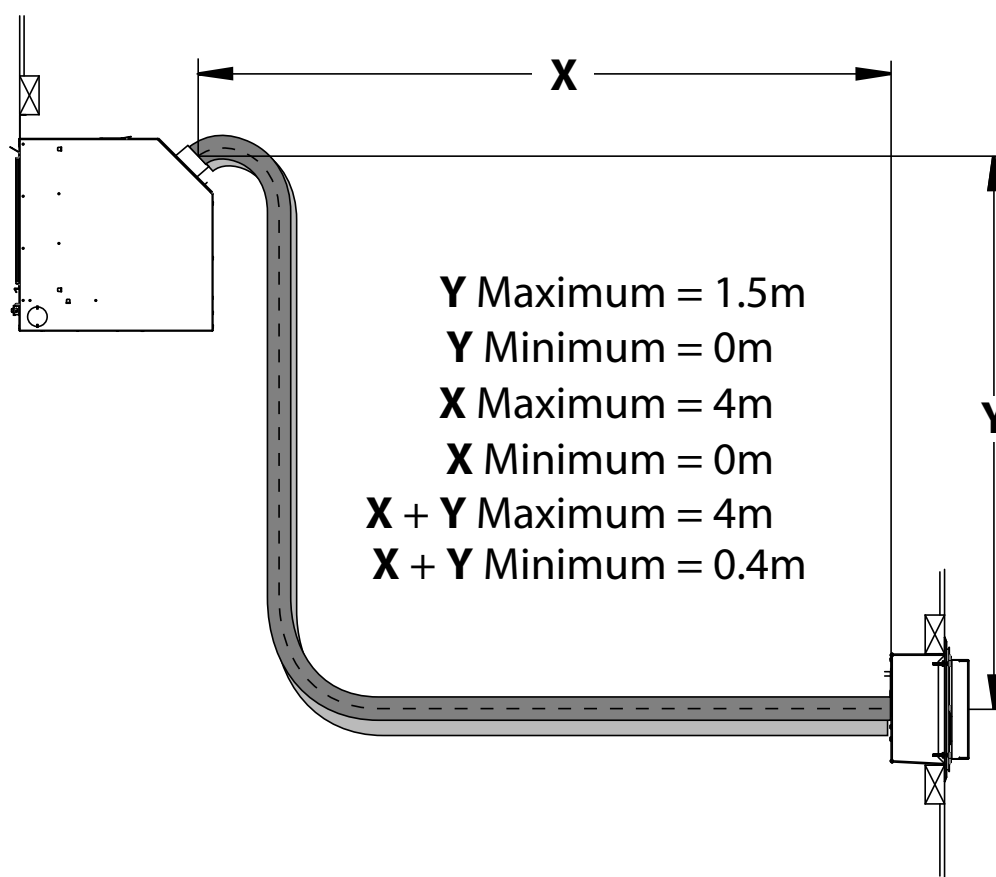
C1 Flue Configuration (If less than 4m flue length is required)

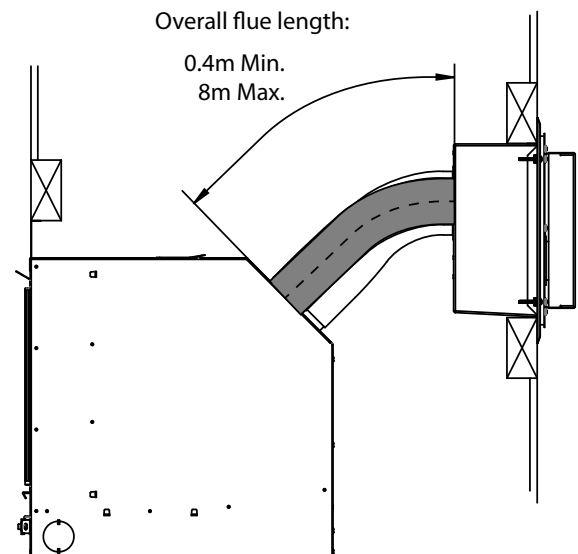
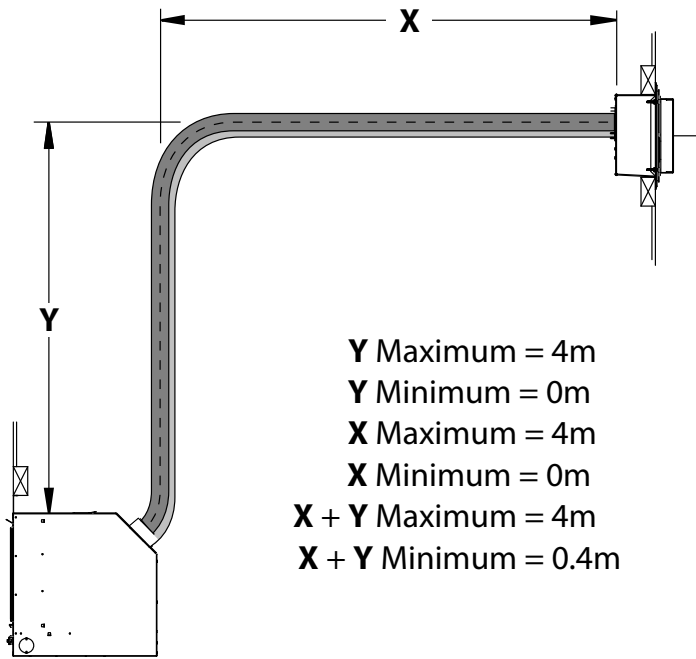
If your flue system is less than 4m long (as shown in diagrams below), then a simple aluminium flexible flue is required. If you wish to install a longer flue run, see either section C2 on page 18 or C6 on page 25.

Horizontally Terminated: Utilizes the Escea Horizontal Power Flue enclosure kit.

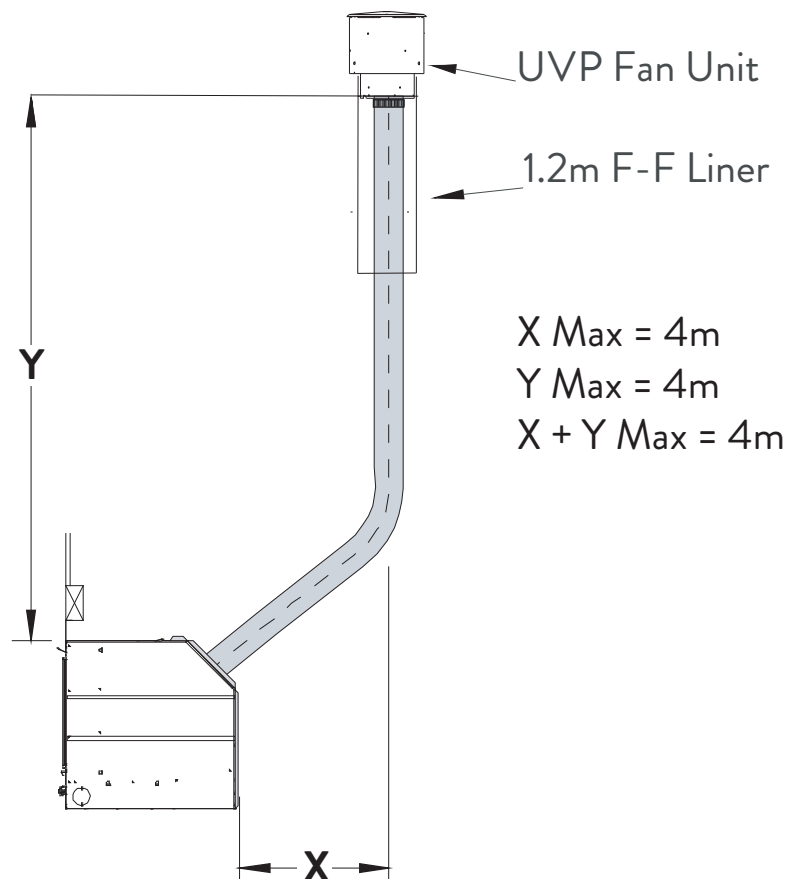
The horizontal offset of the terminal can be any amount up to the total flue length listed below. Please consult with Escea's technical staff if your intended flue configuration steps outside of the bounds of the flue configurations shown below.

NOTE: The fan in this powerflue produces 52 DB of noise, think carefully around the location of the terminal, if the terminal is in close proximity to the fire then the fan noise will be more prevalent. If the only option is to install the terminal close to the fire then introducing sound deadening material around the back of the terminal or stretching out the flexiflue and adding more S-bends is recommended to reduce sound transfer through to the fire.





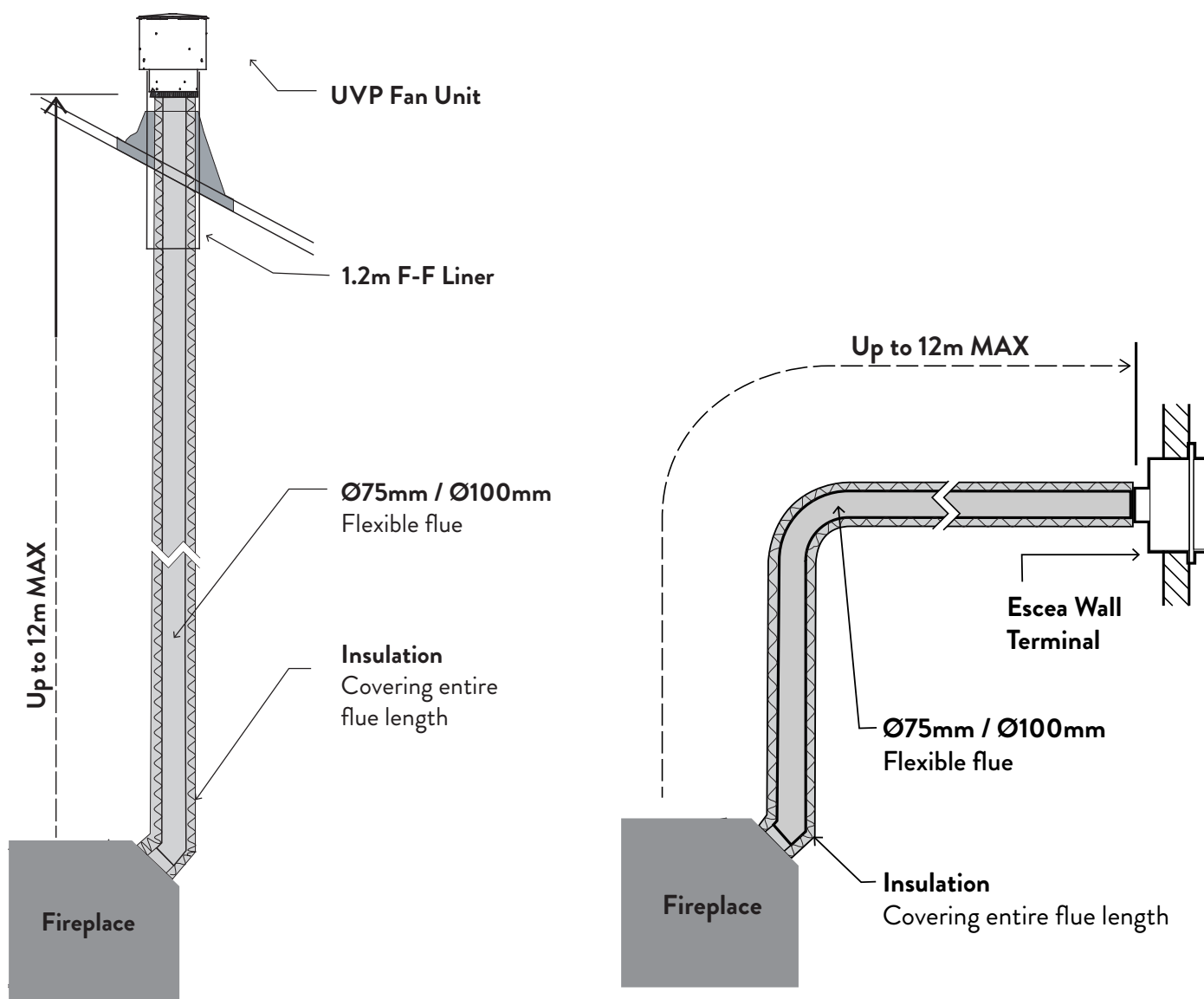
Vertically Terminated: Utilises the Escea Vertical Power Flue enclosure kit.



C2 Flue Configuration (If more than 4m flue length is required)

If your flue system is greater than 4m long (as shown in diagrams below), then there are the following options:

- DFS Only: Flexible flue with condensate trap and rigid PolyPro tube lengths.
- DF: For flue run installations beyond 4m and up to 12m, flexi flue must be used for the entire flue run and must be fully insulated from appliance connection to fan unit. For information on the insulation installation see section C10 on page 29. Beyond 12m (up to 40m) please contact the Escea Advisory Team at aa@escea.com.



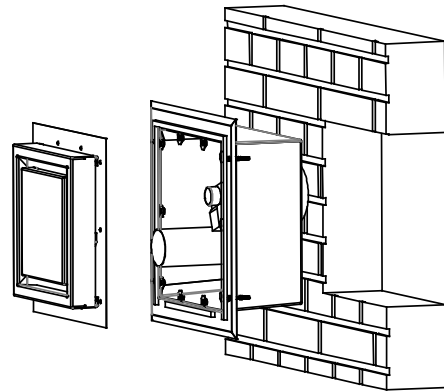
C3 Installing the Horizontal Power Flue

Note: The appliance is designed only to operate using the approved flexible or PolyPro flue supplied by Escea. Other brands of flue may not fit, and this will affect the appliance warranty.

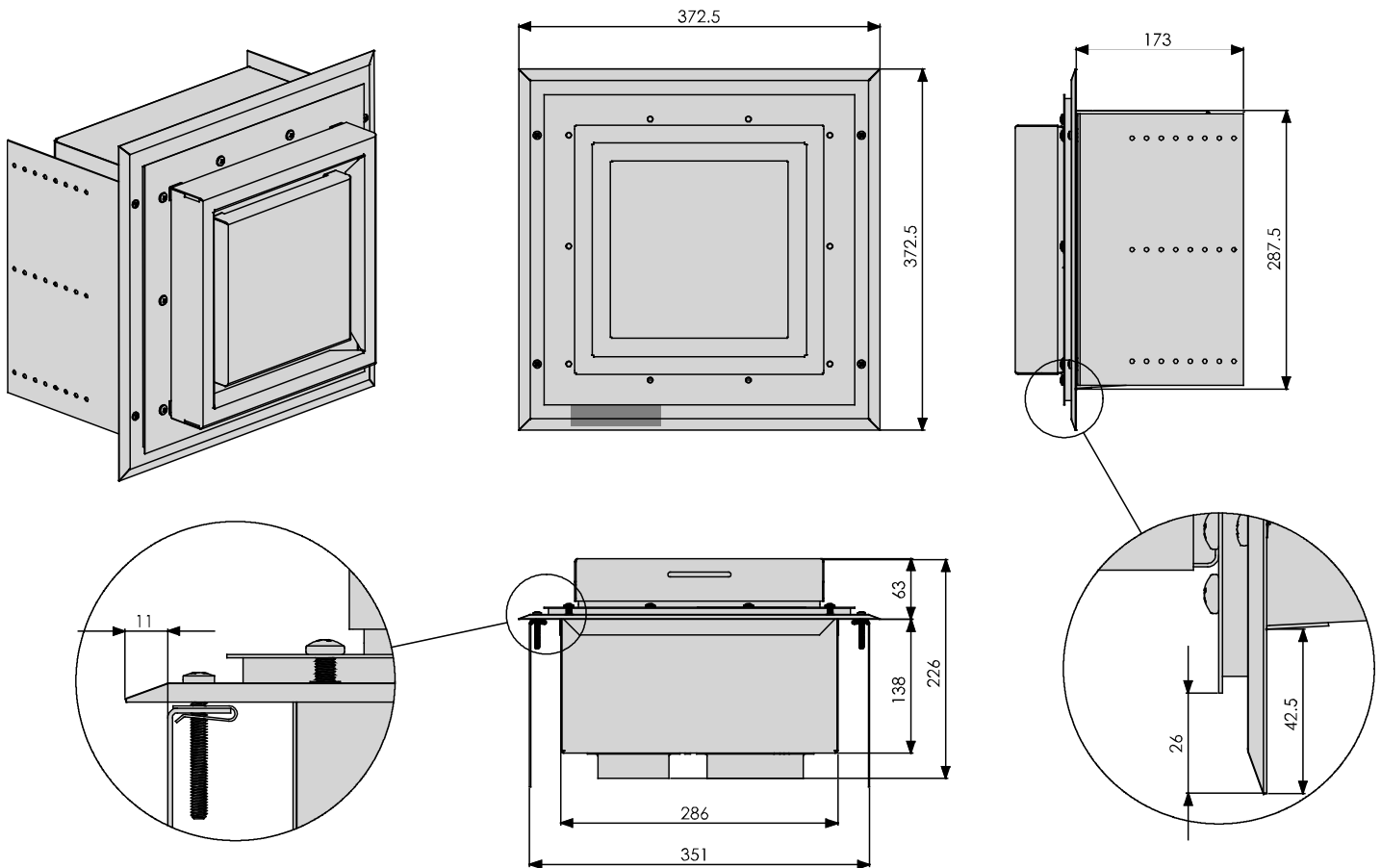
The Horizontal Power Flue Wall Terminal must be installed in the correct orientation (the small horizontal slot should be at the bottom). This allows for the correct operation of the flue system and prevents the ingress of water.

The Horizontal Power Flue Wall Terminal must be weather tight when installation is complete to prevent damage to the dwelling. It must be installed by a suitably qualified person.

Fit the Horizontal Power Flue Wall Terminal into the hole and fix in place, making sure the installation is sealed appropriately to prevent the ingress of water from outside the wall cladding. Take notice of the label on the termination which shows the correct orientation of the terminal.

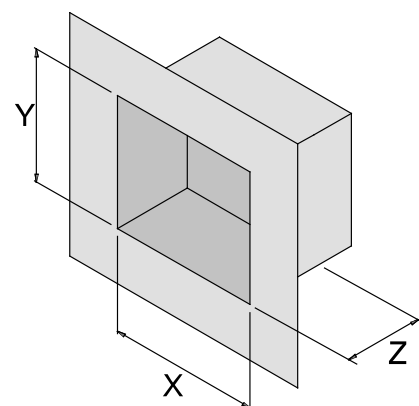


Note: It is the responsibility of the installer to ensure the Horizontal Power Flue Wall Terminal is installed to all relevant building codes to ensure weather tightness.



Creating the Hole in the Outside Wall

When cutting the hole in the outside wall, be mindful of how the installation of the Horizontal Power Flue Wall Terminal will be finished; the installation must be weatherproof.

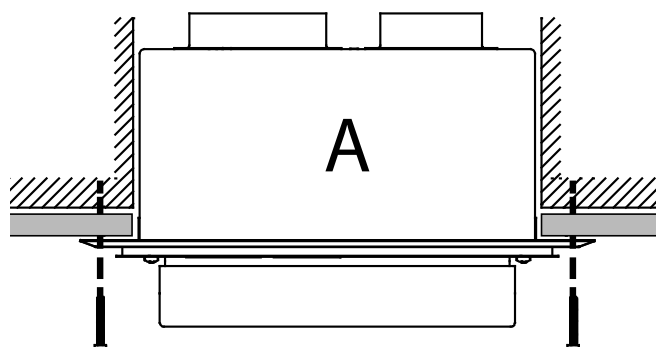


Ideal hole/cavity size for horizontal Power Flue

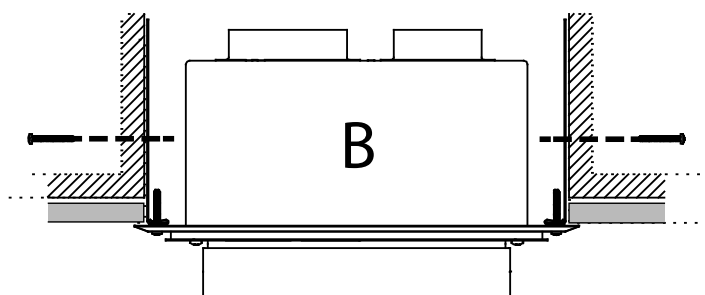
| | Without Side Brackets | With Side Brackets |
|---|---|--------------------|
| X | 298mm | 360mm |
| Y | 298mm | 298mm |
| Z | 175mm Excluding allowance for flue which exits here | |

The Horizontal Power Flue Wall Terminal can be attached to the wall in two ways:

A) By attaching the optional wall terminal installation brackets to the sides of the cavity and attaching the Horizontal Power Flue Wall Terminal to these, from the front:



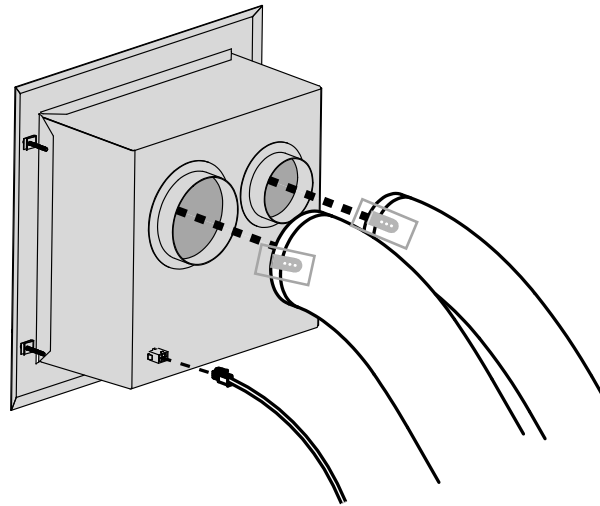
B) From the front of the terminal:



Attach the Ø100mm and Ø75mm flexible aluminium flues to the spigots on the rear of the Horizontal Power Flue Wall Terminal using the hose band clamps supplied. Plug the Power Flue electrical cable into the back of the Horizontal Power Flue Wall Terminal.

For information on the PolyPro flue, see the installation manual which is supplied with the flue components.

Ensure that the electrical cable is firmly secured to the wall terminal or building to prevent damage or disconnection if pulled.



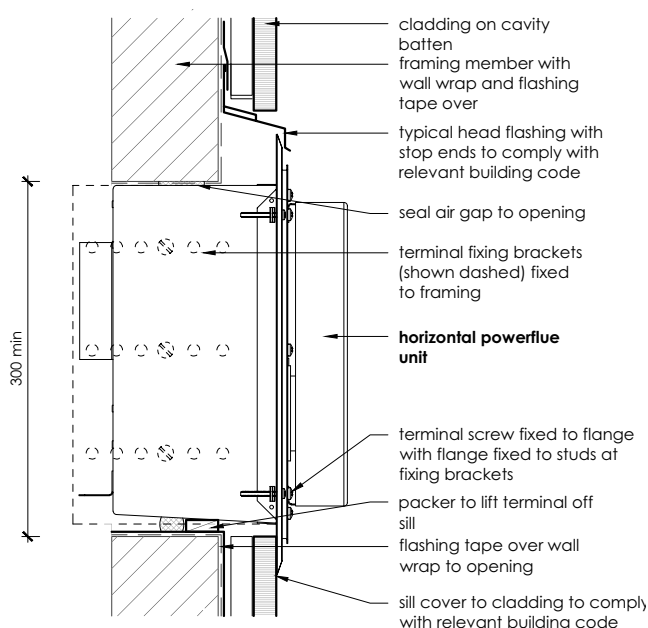
Fit the Horizontal Power Flue Wall Terminal into the hole and fix it in place, making sure the installation is sealed appropriately to prevent the ingress of water from outside the wall cladding.

Note: It is the responsibility of the installer to ensure the horizontal Power Flue wall terminal is installed to all relevant building codes to ensure weather tightness. This may necessitate the use of appropriate flashing material where appropriate.

IMPORTANT: ENSURE THAT FLASHINGS DO NOT RESTRICT THE AIR INTAKE SLOT AROUND THE PERIPHERY OF THE COWL.

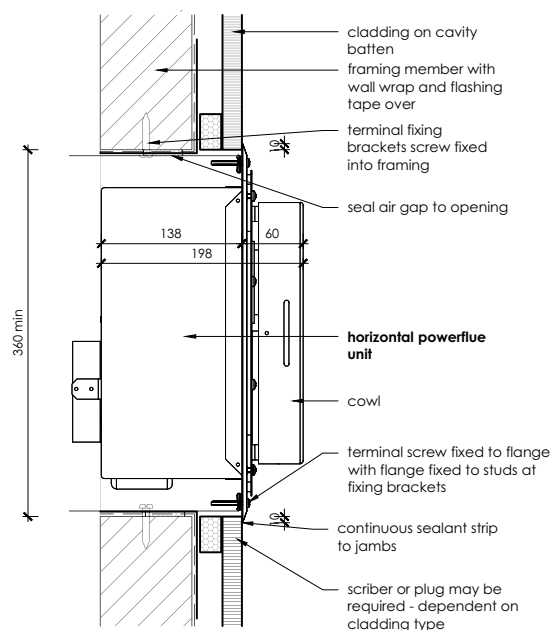
How to Flash the Horizontal Power Flue

The following diagrams are excerpts from the Escea architect drawings and are available in full on our website. These diagrams are recommendations, and your installation must comply with any local or national building codes.



Head and Sill

scale 1:5



Jamb

scale 1:5

C4 Installing the External Vertical Power Flue (UVP)

The UVP is designed to have the enclosure containing the fan unit mounted externally. Escea recommends this install for a UVP powerflue; an example is shown below.

Note: When installing the unit onto a flue liner, ensure the length of flue liner above the roof is the minimum required length. ENSURE the Ø43mm restriction plate is installed on the inlet.

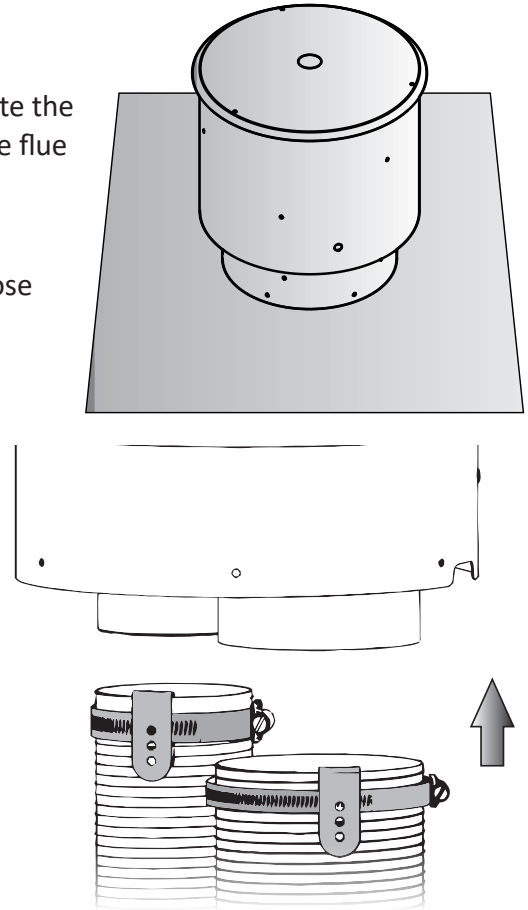
The cowl surround should be fixed in place as shown right.

Mount the UVP kit to the top of a chimney flashing plate or penetrate the roof with an optional flue liner accessory and fit the UVP kit over the flue liner, sealing the penetration with a decktite or similar flashing.

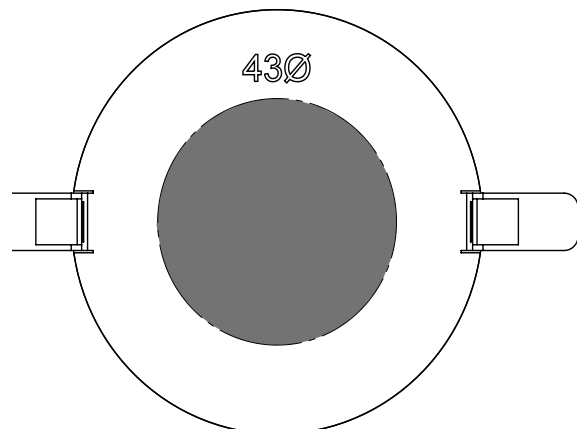
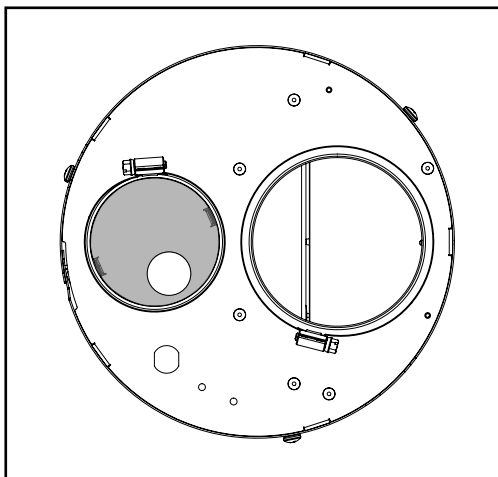
Ensure the terminal is vertical and rigidly mounted and the flexi flue attached below is fixed to the terminal spigots using the supplied hose clamps and aid clips.

Place the clamp over the flexi flue and the clip over this. Make sure the flexi tube has been stretched out as far as possible where the hose band clamps are going to be attached (not still compressed). Slide the flexi tube over the spigot and hold it in place by drilling one hole through the spigot using the clip guide hole and riveting the three components together.

Note: If this install is unpractical for your situation see information regarding an internal install of the UVP, go to section C5 on page 23.



NOTE: The new DF700 and DF960 fires need to be paired with a specific inlet flue restrictor to work as intended, some UVP units will already have this installed, If your powerflue has the smaller restrictor on the inlet (shown bottom left) a replacement restrictor is required, please contact your nearest supplier and request the spare part. If you have the large restrictor (shown bottom right) this is the correct version.



C5 Installing the Internal Vertical Power Flue

Note: Internal install is only recommended for situations where an external install is unpractical. For information regarding an external install of the UVP, go to section C4 on page 22.

The Universal Vertical Power Flue (UVP) internal configuration is designed to have the fan, mounted within the roof space of the house, and the vertical Ø225mm diameter liner, containing a Ø100mm flexi, penetrate through the roof. The UVP internal conversion kit comes with a 1200mm liner that is specific to the internal installation and must always be used.

Note: The flue setup must comply with section C1 on page 16 or C2 on page 18

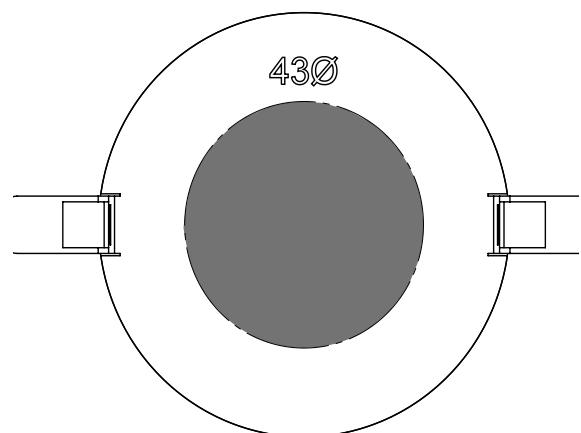
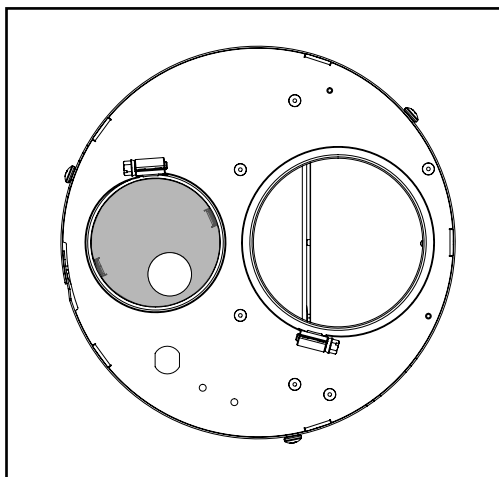
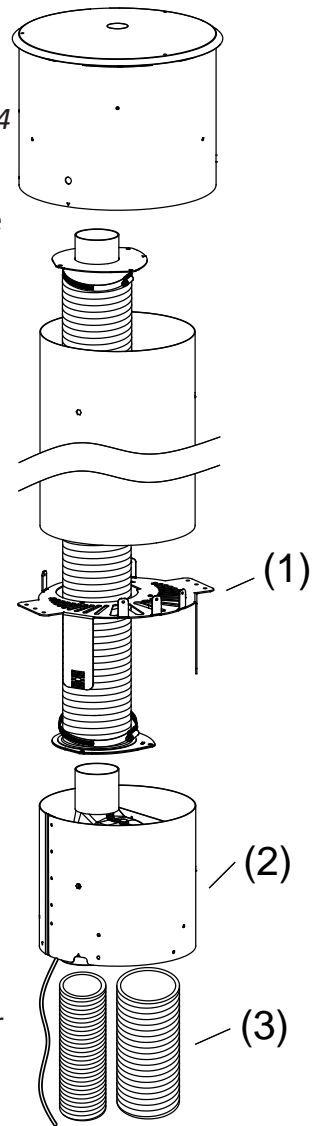
Use standard methods to flash the roof penetration. The installation must be weatherproof and conform to all local council standards including powered flue termination rules.

Mount the fan mount bracket (1) to the roof framing and strapping using timber ensuring that the flue is rigid and vertical. Ensure that the mounting timber does not obstruct access to the 3xM5 screw threads on the side of the fan unit.

Aim to have the fan enclosure (2) mounted as high as possible, mainly to allow sufficient fall for condensation drainage if the flexi-flue is to run horizontally.

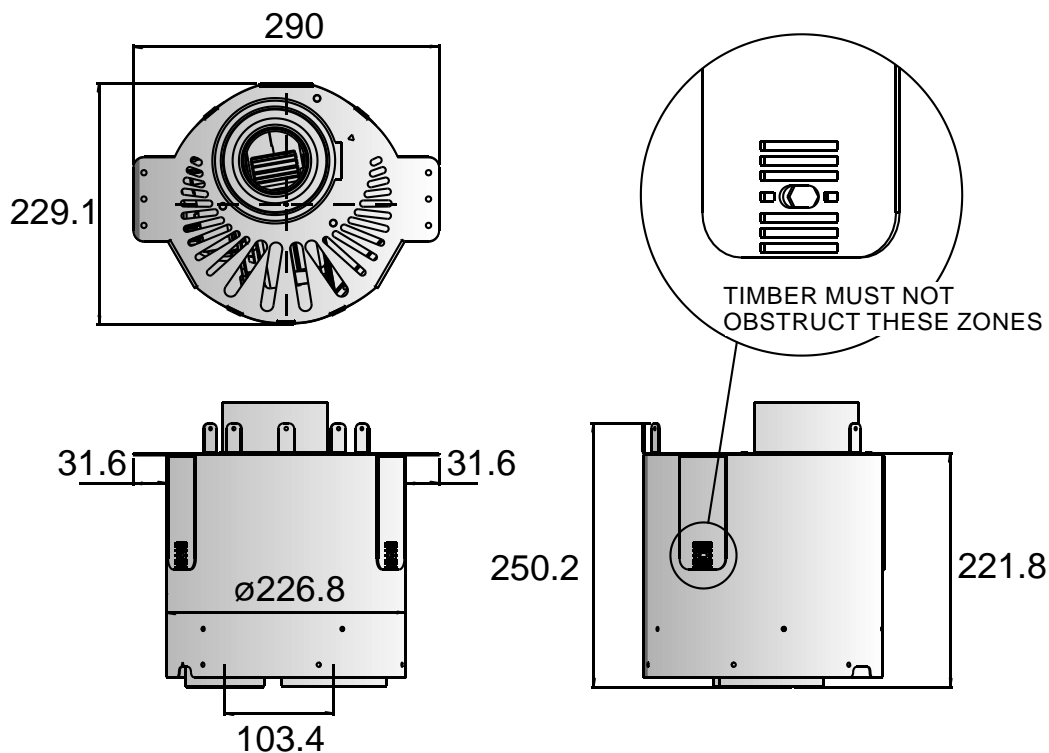
Ensure there is sufficient space below fan enclosure (2) to have access to fit the flexi-flue tubes (3) and allow flowing bends if required.

NOTE: The new DF700 and DF960 fires need to be paired with a specific inlet flue restrictor to work as intended, some UVP units will already have this installed, If your powerflue has the smaller restrictor on the inlet (shown bottom left) a replacement restrictor is required, please contact your nearest supplier and request the spare part. If you have the large restrictor (shown bottom right) this is the correct version.



Note: The UVP-Internal and the flexi flue connections must be installed in a location accessible for service or replacement; a service hatch or removable flashing to allow access is required.

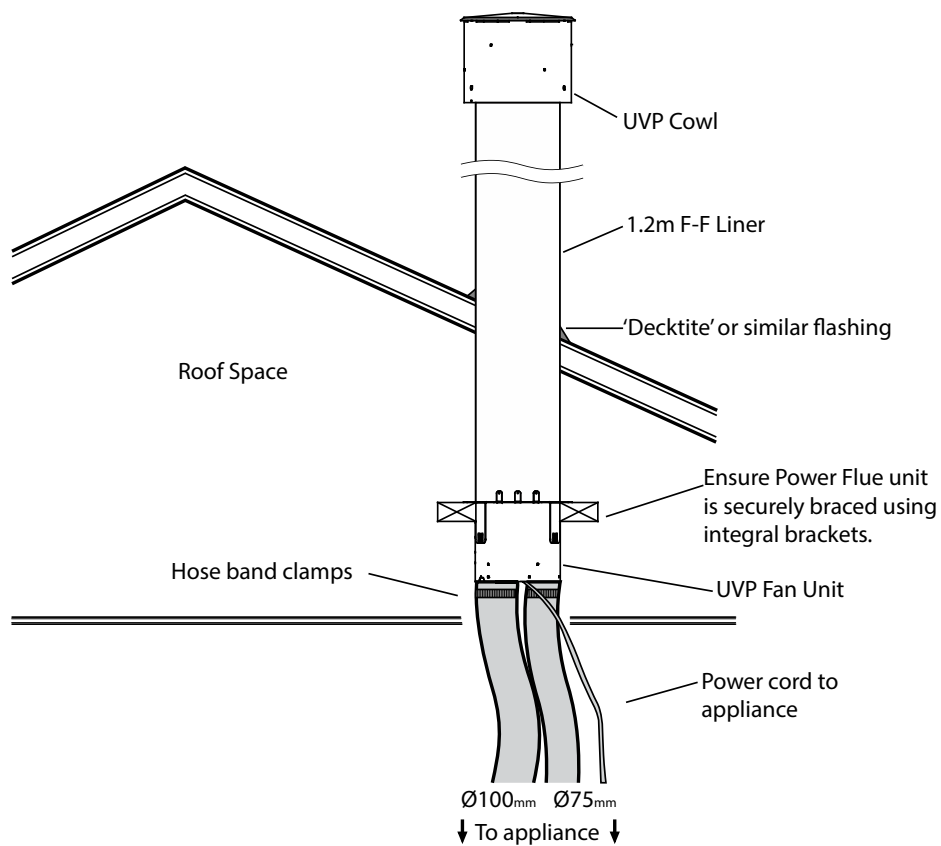
Note: When installing the unit onto a flue liner, ensure the length of flue liner above the roof is the minimum required length.



The UVP-Internal kit is intended for use within an accessible roof space or 'chimney' construction.

SERVICE ACCESS MUST BE PROVIDED.

Ensure installation complies with relevant building codes and regulations.

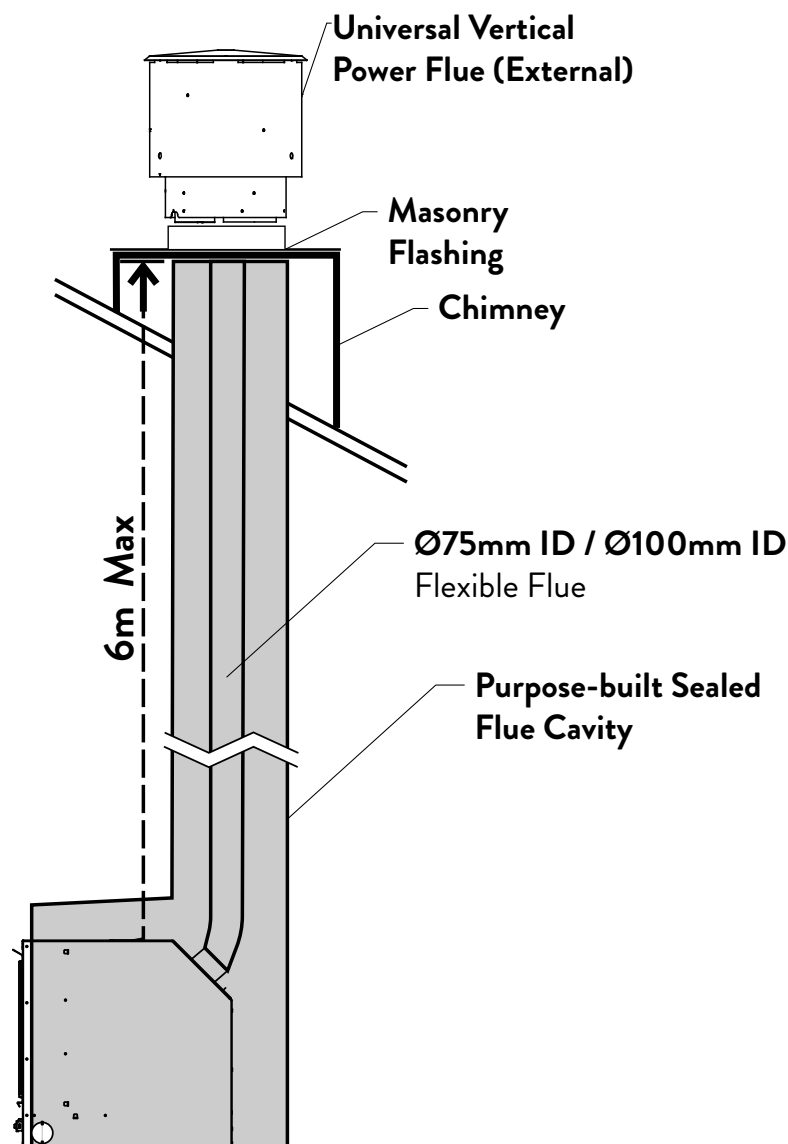


C6 Masonry Vertical Power Flue Kit (up to 6m)

The following kit enables the installation of the aluminium flexi into vertical masonry chimneys for extending the flue system from the appliance spigot to 6.0 meters while providing the masonry flashing.

Including, but not limited to, installations into: a complete masonry chimney, a flue liner, or a combustible sealed false chimney.

If your flue system is to be run vertically through a purpose-built sealed flue cavity (the cavity must remain sealed up to the terminal); PolyPro and a condensate drain is not required. An extension kit can be purchased to extend the maximum length to 12m, see section C7 on page 26. Only the Universal Vertical Power Flue (UVP-External) kit can be used for this installation type.



Note: 225mm wide x 240mm long 906624-Masonry flue liner extension kit can be purchased to add extra protection for the high snow and rainfall areas.

Note: If any gap occurs in between the 400mm x 400mm masonry flashing and the chimney due to the chimney dimensions, the suitable chimney cap flashing can be built as keeping the spigot diameter 225mm.

C7 Masonry Vertical Power Flue Extension Kit (6 to 12m)

The following kit enables the installation of the aluminium flexi into vertical masonry chimneys for extending the flue system to 12.0 meters from the Masonry Vertical Power Flue kit that is required and supplemented by the 12m Masonry Vertical Power Flue Extension Kit.

Including, but not limited to, installations into: a complete masonry chimney, a combustible sealed false chimney.

NOTE: This installation type cannot be used on a DFS730. If required, please contact architectural advisory aa@escea.com for more information.

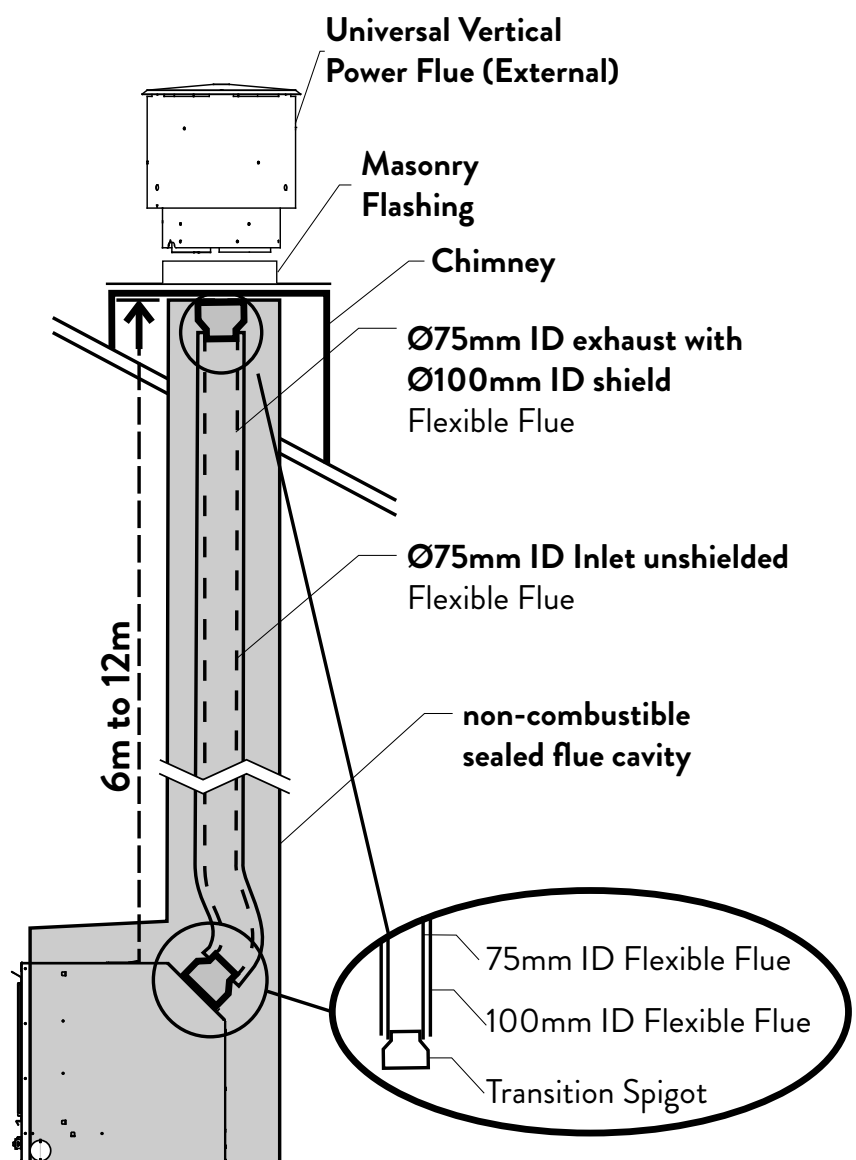
If your flue system is to be run vertically through a purpose-built sealed flue cavity (the cavity must remain sealed up to the terminal); PolyPro and a condensate drain is not required. Only the Universal Vertical Power Flue (UVP-External) kit can be used for this installation type.

The exhaust/inlet flue MUST BE NO longer than 12.0M.

The 100mm flue shroud must cover the entire length of the exhaust flue.

The intake and shrouded exhaust flue must be entirely enclosed within a fully vertical masonry or purposely constructed, a combustible sealed cavity/masonry chimney.

Feed the power flue cable down through the chimney cavity and connect to the appliance and Power Flue.



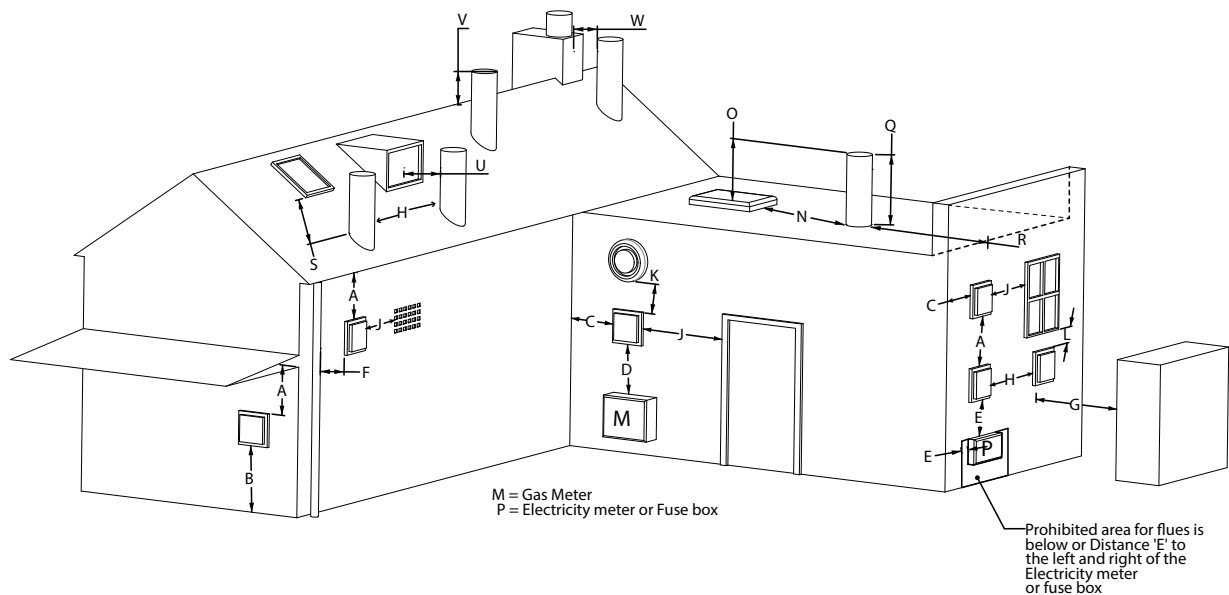
NOTE: This kit supplements and requires 906602-Masonry vertical Power Flue kit.

Note: If any gap occurs in between the 400mm x 400mm masonry flashing and the chimney due to the chimney dimensions, the suitable masonry flashing can be built as keeping the spigot diameter 225mm.

C8 Installing in Accordance with Relevant Codes

The location of the Horizontal Power Flue Wall Terminal must be installed in accordance with AS/NZS 5601 and any other relevant building codes. If possible, avoid installing the Horizontal Power Flue Wall Terminal in areas exposed to high winds and extreme weather.

Some of the minimum clearances for a fan assisted wall terminal are listed below; please refer to AS/NZS 5601 Gas installation standard for full guidance on the design of the flue system. Where possible allow a greater clearance.



| | | |
|---|---|--------|
| A | Below eaves, balconies and other projections | 200mm |
| B | From the floor, above a balcony or other surface | 300mm |
| C | From a return wall or external corner | 300mm |
| D | From a gas meter or regulator vent | 1000mm |
| E | From electricity meter or fuse box | 500mm |
| F | From a drain pipe or soil stack | 75mm |
| G | Horizontally from any building structure or obstruction | 500mm |
| H | From any other flue terminal or combustion air intake | 300mm |
| J | Horizontally from any openable window, door, non-mechanical air inlet, or any other opening into a building with the exception of sub floor ventilation | 300mm |
| K | From a mechanical air inlet or spa blower | 1000mm |
| L | Vertically below any openable window, door, non-mechanical air inlet, or any other opening into a building with the exception of sub floor ventilation | 300mm |
| N | Horizontally from a roof light | 600mm |
| O | Vertically from a roof light | 500mm |
| Q | Vertically from a flat roof | 500mm |
| R | Horizontally from a vertical structure | 500mm |
| S | Below a roof window | 2000mm |
| T | Above or either side of a roof window | 600mm |
| U | From a dormer window | 1500mm |
| V | Above the apex of the roof (see note 1 on following page) | 300mm |
| W | From an open flue | 1500mm |

Notes:

- Should the flue not extend past the apex of the roof, the bottom opening of the flue should extend at least 200mm from the roof (or 300mm in regions with heavy snow).
- The installation of a flue into a carport is not recommended.
- The flue terminal will get very hot when in use. Precautions should be taken to protect people and animals from injury.
- When installing in an enclosed balcony, follow AS/NZS 5601.1 for appropriate clearances.

C9 Running the Flue

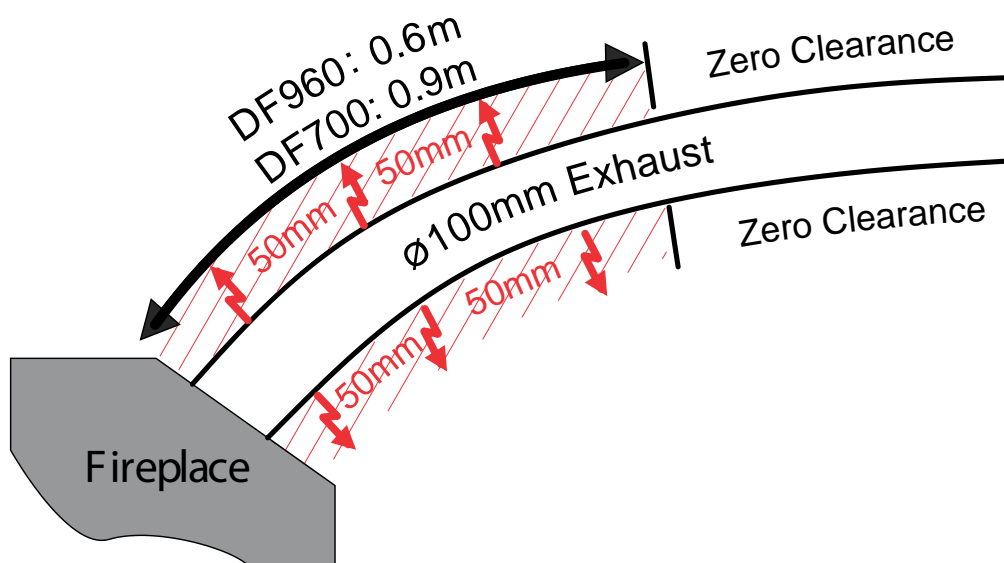
Use the following table to determine the exhaust flue clearances to combustibles:

| Model | Clearance to Combustibles |
|-------|-------------------------------|
| DF700 | 50mm clearance for first 0.9m |
| DF960 | 50mm clearance for first 0.6m |

Run the Ø100mm ID and Ø75mm ID (Ø110mm OD and Ø85mm OD) flexible aluminium hoses from the cavity to the rear of where the Horizontal or Vertical Power Flue Terminal will be installed. Allow enough stretch in the flexible aluminium flue to allow it to be able to protrude through the wall/ceiling/roof/flue liner to enable it to be connected to the Power Flue Terminal. The flue should be expanded at each end in order for the flue to be attached to the fire/Power Flue. It is advisable to secure the flexi flue at regular intervals to prevent vibration, movement and sagging. Steel wire or 'builders strapping' may be used for this purpose.

Note: The flexible flue is shipped in a 'compressed' form. Extend it to your desired length by stretching.

For information on running the PolyPro flue, see the installation manual which is supplied with the flue components.



C10 Insulation Specification and Installation

Type of Insulation to use

Insulation R-value to be R1.5 and of malleable/flexible construction (rock wool or glass wool) and certified to withstand 230°C.

Insulation Installation

Tape must be used for all overlapping joints and the entire flue must be wrapped. Care must be taken not to compress insulation.

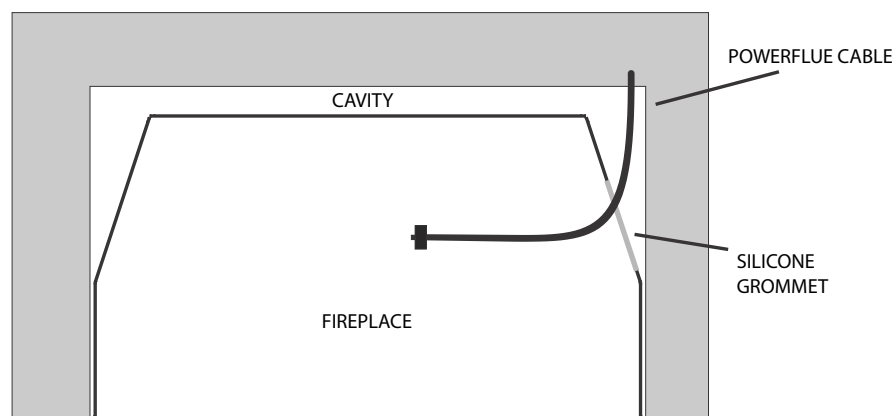
C11 Running the Power Flue Electrical Cable

Note: The Power Flue Terminal is powered from the appliance, and must be connected to the appliance with the supplied electrical cable only.

Note: Ensure that the appliance power supply is disconnected before making the connection to the terminal.

The supplied electrical cable is 7m long, flue extension kits also include a Power Flue electrical cable extension.

Run the electrical cable from the cavity where the appliance will be installed to the hole in the outside wall. Ensure it is not draped over, or in contact with, the outer shell of the appliance or the exhaust flue and kept clear from any other possible heat sources, sharp edges, or moisture. Fix it appropriately and allow enough cable looped to be able to pull both the appliance and the Horizontal Power Flue Wall Terminal out from their installed positions. Push the cable into the fire through the grommet, this will be plugged into the electronics tray in section "E4 Connecting the Power Flue Cable" on page 36.



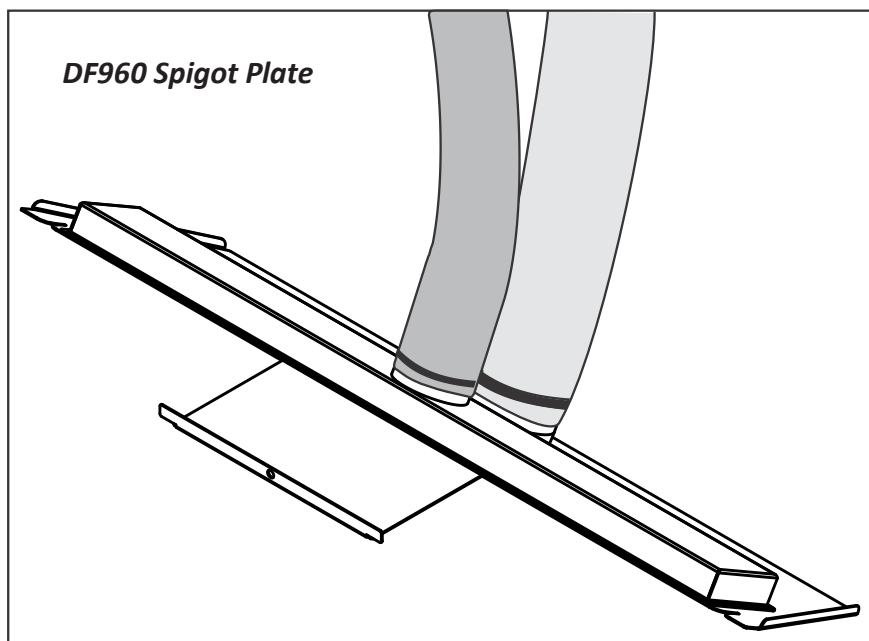
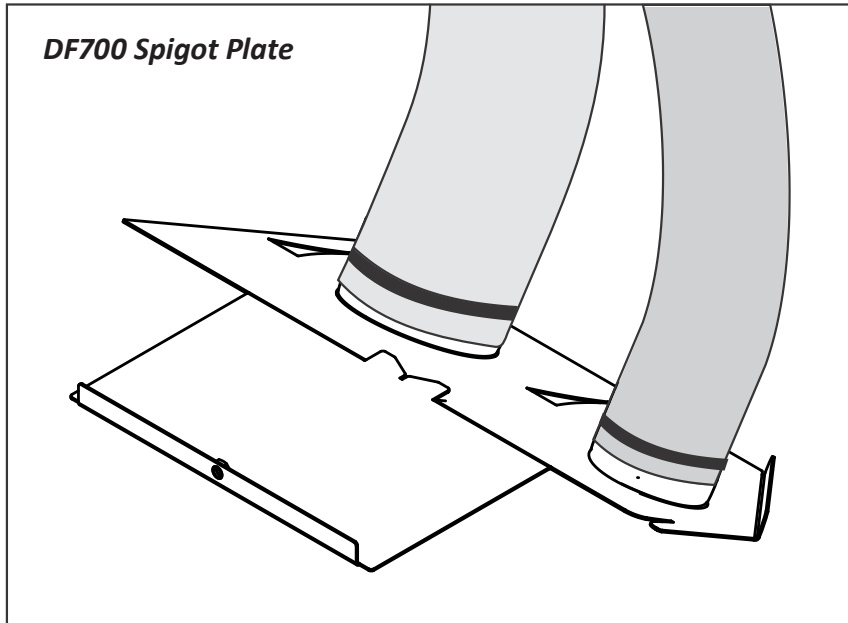
IF YOU DO NOT CONNECT THE POWER FLUE ELECTRICAL CABLE TO BOTH THE FIREPLACE AND THE POWERFLUE, THIS WILL RESULT IN AN ERROR WHEN THE FIREPLACE IS TURNED ON.

TEST THE FAN BEFORE CONTINUING WITH THE REST OF THE INSTALLATION.

C12 Setting up the Flue Spigot Plate

Connect the flexi flue to the spigot plate using the hose band clamps provided while the cavity is still empty.

DO NOT OVER STRETCH THE ALUMINIUM FLEXI FLUE.



D INSTALLING THE ELECTRICITY AND GAS TO THE APPLIANCE

In order to install gas to the fireplace, check the operating pressure or install the network cable, the glass and burner tray needs to be removed.

D1 Power Supply

While the cavity is being created, consideration must be given to the location of an appropriate power supply. An earthed 230/240 volt mains power connection (typically a standard 3 pin outlet) must be available within 1m of the bottom right of the appliance. This connection must be accessible after the heater has been fully installed so that the appliance can be safely disconnected from the mains power supply prior to servicing.

A mains isolation switch (compliant to AS/NZS 5601 Clause 6.2.8) which is accessible from outside the cavity can also be used to disconnect the power.

Regardless of the method used, it **MUST ALWAYS** be possible to safely isolate the electrical supply to the appliance after it has been fully installed.

This appliance must not be located immediately below a socket outlet. This appliance will draw a maximum of 2 Amps from a 230/240V supply. No additional power supply is required for the Power Flue.

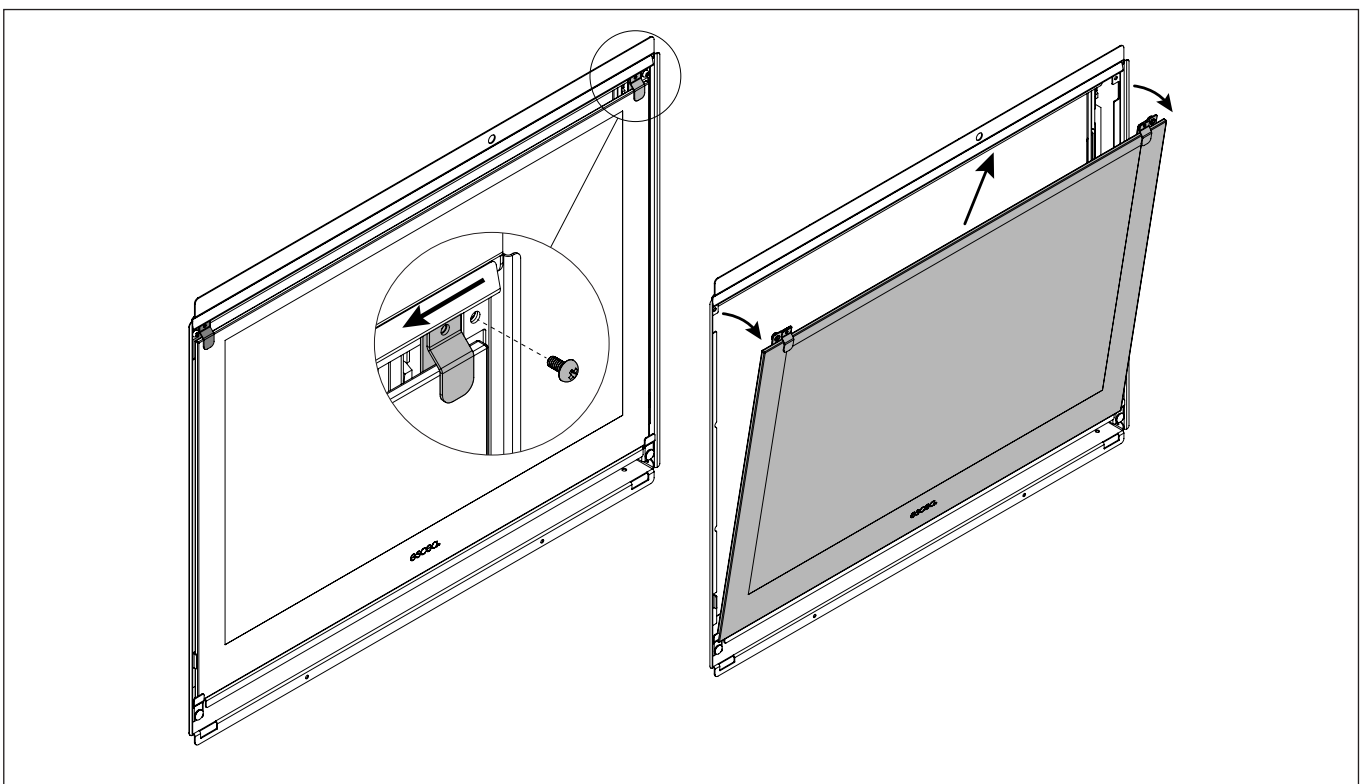
An electrical wiring diagram is located underneath the electronic tray, and also in the rear of this manual (Service Section S13 on page 61).

D2 Removing the Glass

The DF-Series fireplace has two layers of glass: the inner glass seals the firebox and is called the primary glass; the outer glass is called the secondary glass.

Secondary Glass

1. Unscrew the secondary glass retainers and slide them towards the middle of the fire.
2. Tilt the glass toward you slightly, lift the glass out of the bottom glass retainer and carefully set glass aside.

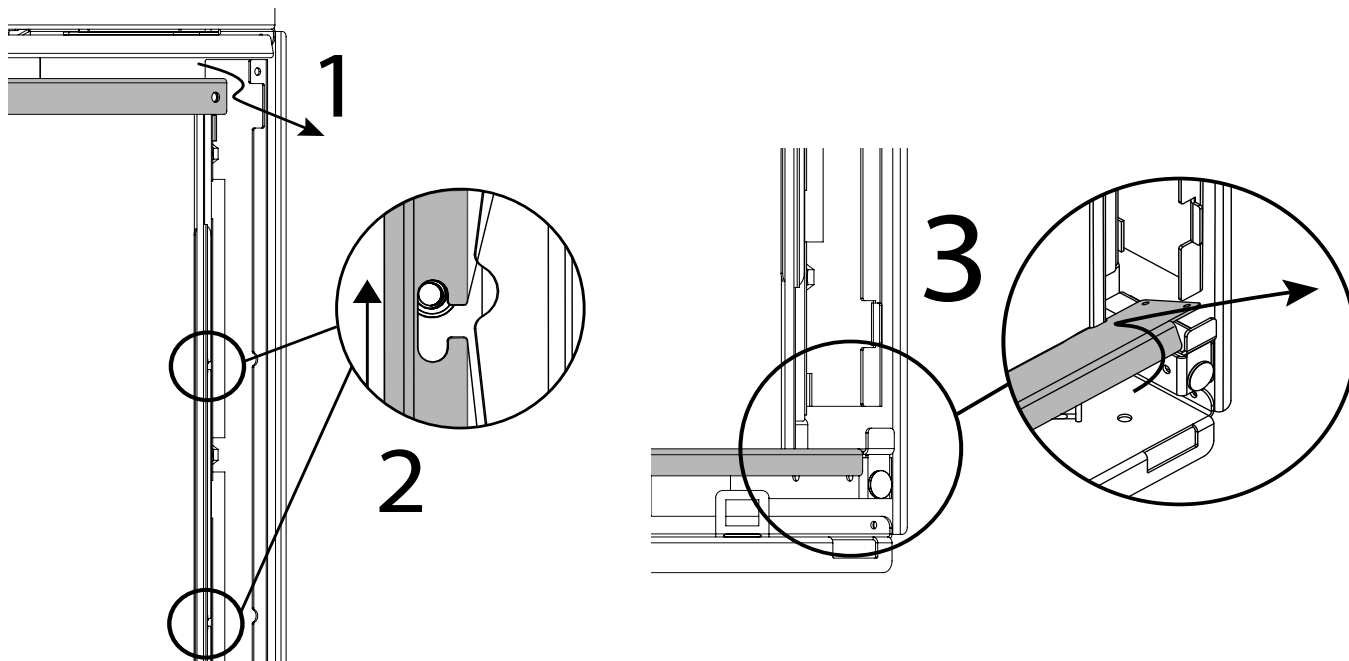


Primary Glass

3. Remove the two screws holding in the top of the primary glass, then pull forward, tilt down and then slide out the glass retainer through the gap in the side flanges.

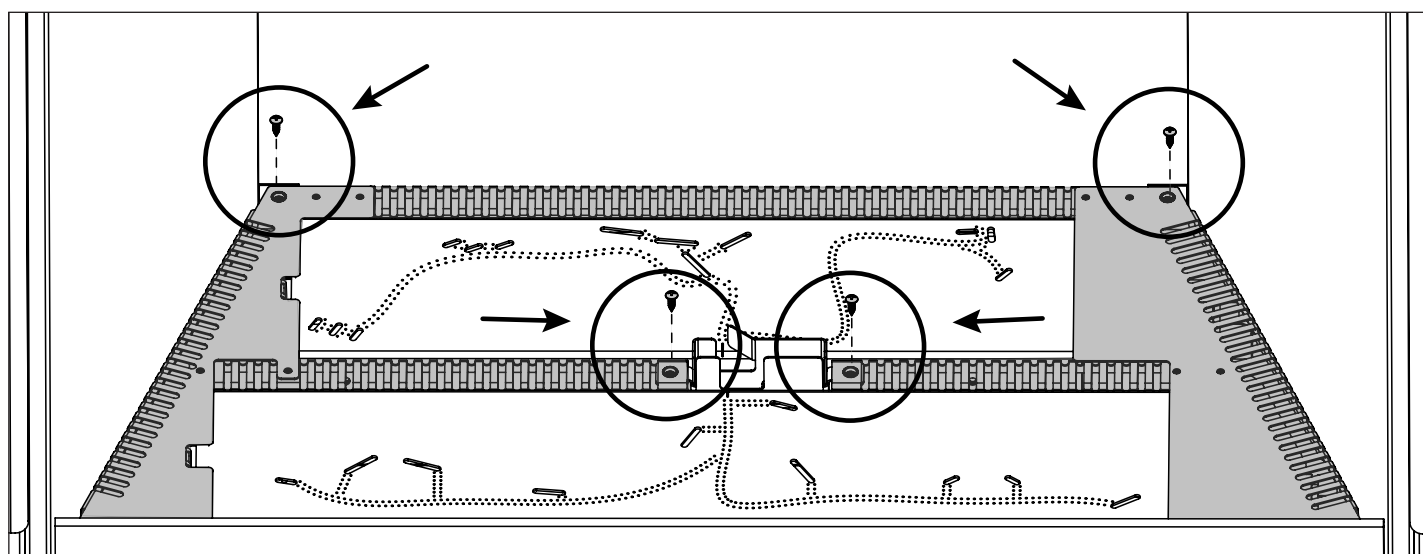
NOTE: Please slide the top trim ramp forward with caution to avoid scratches to the finish as the front of the part is visible.

4. Partially undo the four screws holding in the side retainers, then slid up and twist out leaving the screws behind.
5. Remove the bottom trim by tilting back and pulling out the gaps in the chassis. Pull the top of the glass toward you slightly, lift the glass out of the bottom glass retainer and carefully set glass aside. Note that the fiberglass tape around the glass can mark carpet and furnishings - use a drop cloth to protect furniture.



D3 Removing the Burners

Remove the 2 screws in the rear corners of the infill assembly and the 2 screws either side of the pilot guard (shown in diagram below). Lift the infill assembly up and out of the firebox; place it carefully aside.



The burner can now be carefully moved left to detach the burner tube from the burner jets and lifted out of the firebox.

D4 Gas Pipe Sizing

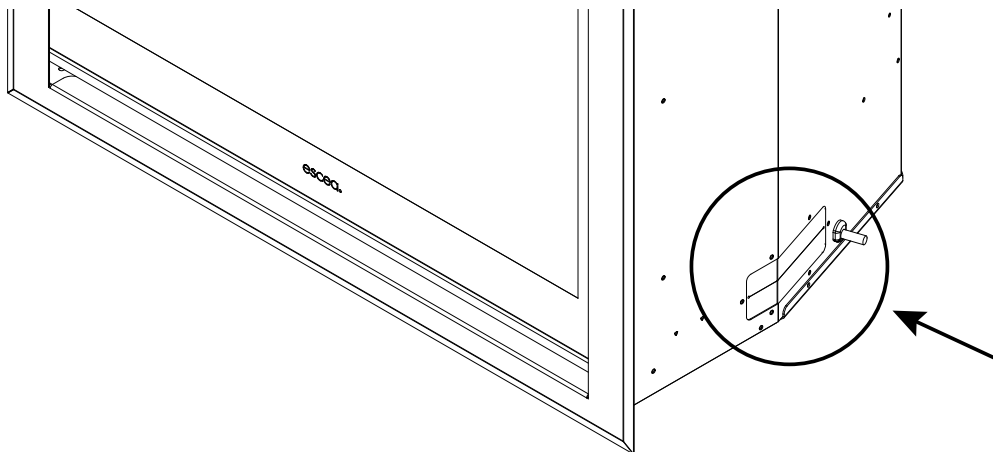
Gas pipe should be sized as per the requirements of AS/NZS 5601. The pipe sizing must be sufficient to deliver the following volume of gas to the heater with all other gas appliances in the home running at the same time:

DF700 GAS CONSUMPTION = 23MJ/HR

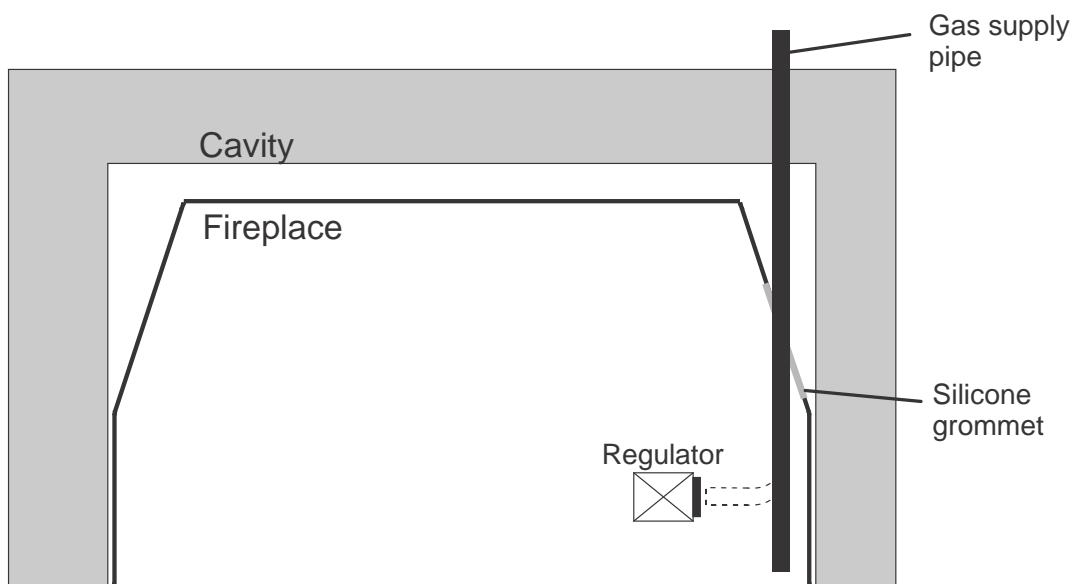
DF960 GAS CONSUMPTION = 31MJ/HR

D5 Gas Pipe Position

The DF-Series fireplace gas pipe entry point is located in the lower right corner; a sheet of silicone is used as a grommet (circled below).



Get the gas pipe lined up with the silicone grommet so that when the chassis is pushed into the cavity in section E on page 34 the fire will look like the diagram shown below. Attaching the pipe will come in section "E7 Connecting the Gas Pipe to the Regulator" on page 38



D6 Gas Supply

Escea does not condone using a 9kg bottle as the main gas supply for an Escea fire. Doing so could result in a dirty or poor flame and produce excess soot build up.

E

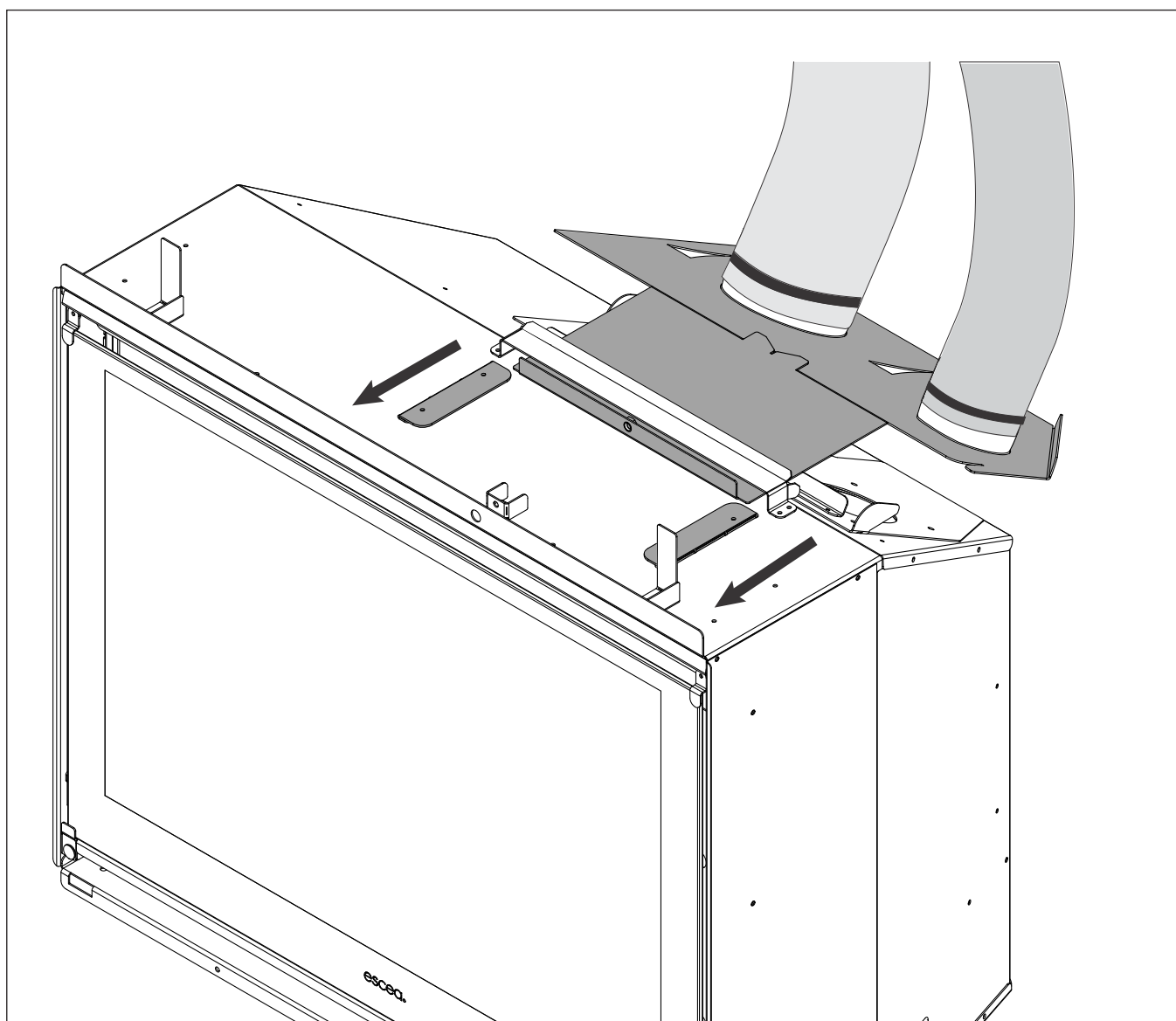
INSTALLING THE APPLIANCE

E1 Installation

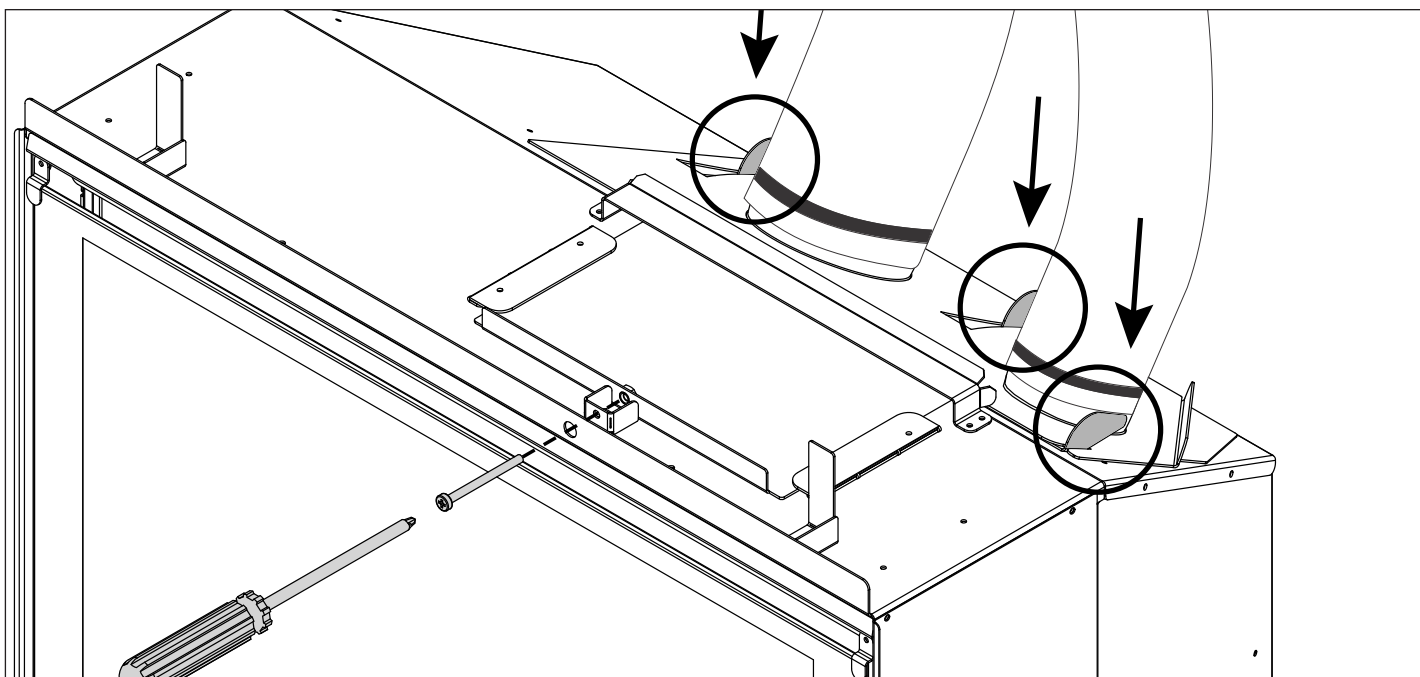
Note: Ensure the wall has been correctly framed to the dimensions specified in section B1 on page 9 before starting the appliance install. The wall must be lined after the fire has been fitted into the cavity with the appliance electrical cord plugged into an outlet, carefully place the appliance in front of the cavity base.

E2 Connecting the Flue

Carefully push the fireplace into the cavity just enough to bring the gas connection through the silicone grommet of the appliance (as shown in the second diagram of section D5 on page 33). The appliance should have enough room above the fireplace to reach in and align the flue spigot plate onto the rails (highlighted in the diagram below). Use the long M5 screw to pull in the spigot plate as the fire is pushed into the cavity.



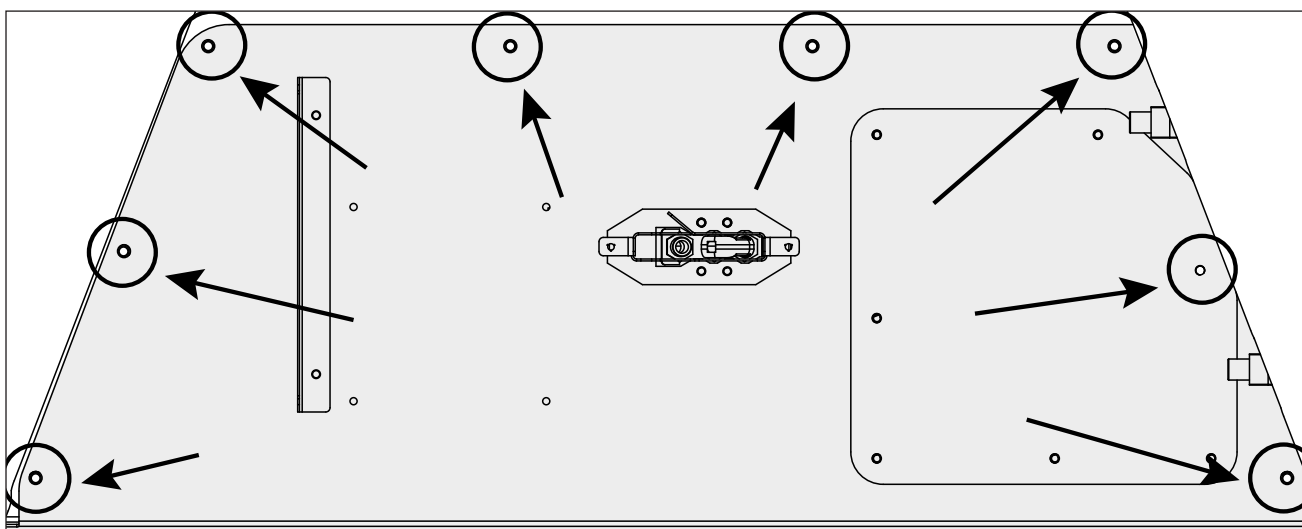
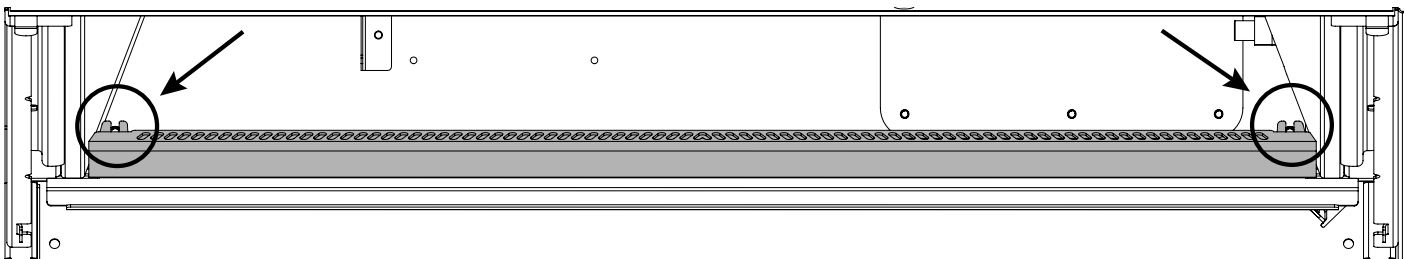
Make sure that all of the fold up tabs (circled in the diagram below) used for locating the flue spigot plate onto the chassis are poking through the flue spigot plate. Note DF960 has 6 tabs.



Insert the 1 long machine screw into the location shown in the diagram above to secure the flue spigot plate to the chassis.

E3 Removing the Burner Tray

Undo halfway the two screws circled below, this will allow you to slide out the front baffle (shaded below) .

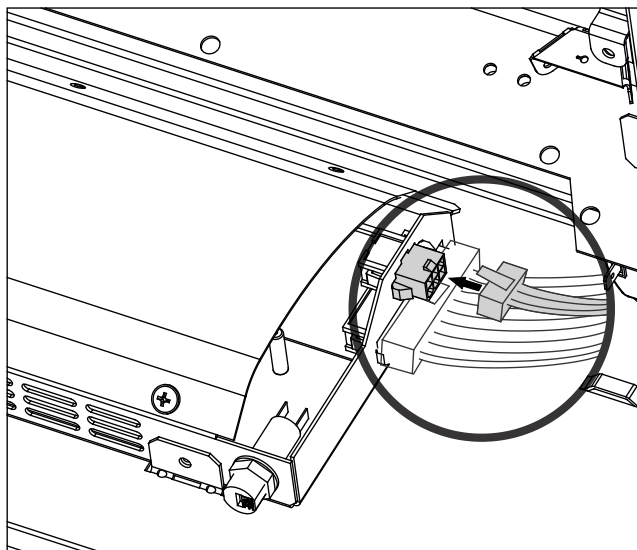
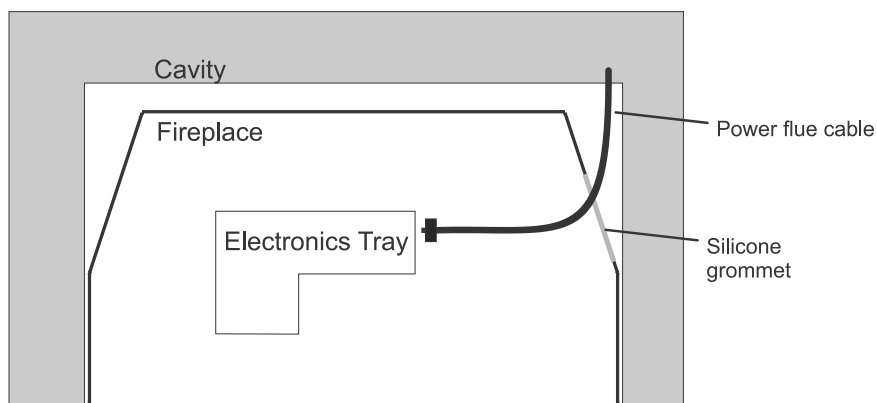


Remove the screws circled in the diagram above. The burner tray can now be carefully slid forward and lifted out of the firebox slightly to detach the 2 ignition leads, the 8-way teddington valve connector and the earth lead.

E4 Connecting the Power Flue Cable

Note: Make sure to turn off the power supply before connecting the power flue cable. Feed the Power Flue cable through the silicone grommet on the lower right hand side of the chassis and connect it to the terminal on the electronics tray shown in the diagram below.

Note: The burner tray must be removed to access the electronics tray as shown in section E3 on page 35.

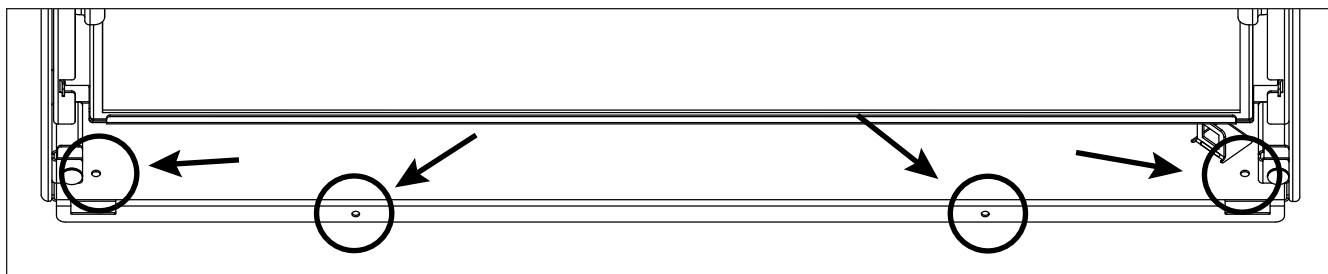


Test the fan now to ensure that it will run prior to continuing with installation. Failure to plug in the fan will result in an error code when starting the fireplace.

E5 Fixing the Appliance to the Base

An appropriate fastening can be screwed down to the cavity base through the 4 circled holes in the diagram.

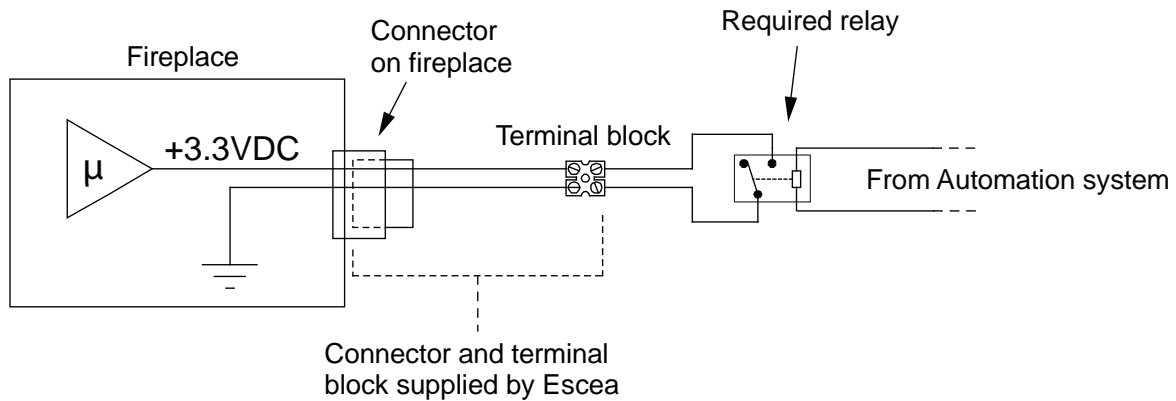
ENSURE THAT THE FIRE IS SEISMICALLY RESTRAINED IN A MANNER APPROPRIATE TO THE INSTALLATION LOCATION.



E6 Home Automation Setup (Optional)

Escea DF-Series fireplaces have a simple interface for connection to a home automation system. This allows the fireplace to be woken up, started, and then shut down. The “Close to Wake” connection (shown below) is essentially taking one of the 3.3 volt DC pins on the fireplace micro-controller and shorting it to ground.

In order to isolate the fireplace from the automation system, a relay needs to be used (as shown). This allows you to keep the fireplace’s 3.3V supply isolated.



The home automation connection (shown right) can be found in the bottom of the fireplace connected to the electronic tray, on the right.



Home Automation Operation

Relay closed

The fireplace will start in a medium setting until the remote control talks to the fireplace and picks up the ‘ON’ signal (which can take up to 4 minutes). Once the remote has communicated with the fireplace it will turn on and begin operating thermostatically. The remote will use whatever temperature the user has previously set and cannot be altered by the home automation system. The fireplace will continue to operate while the relay is closed.

Note: If the fireplace cannot communicate with the remote within 10 minutes of the relay contact closure then the fireplace will shut down and return to standby. The remote controller is required to be within operating range of the fireplace for its safe operation.

Relay open

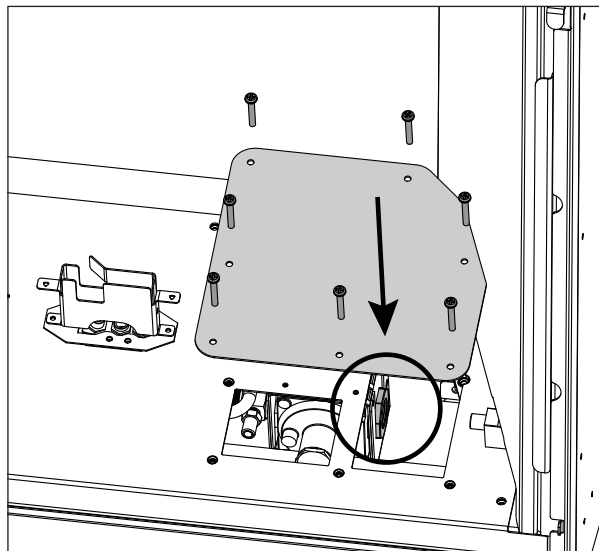
If the fireplace is operating with a closed relay then, upon opening the relay contacts, the fireplace will shut down and return the remote controller to its standby mode when it next updates (which can take up to 4 minutes). While the relay is open the fireplace will be in standby mode and available for manual operation by the user.

E7 Connecting the Gas Pipe to the Regulator

Note: The regulator that is supplied with the fire MUST NOT BE REMOVED. Removal of the regulator, or replacing it with one not intended for use with an Escea fire, will void the limited appliance warranty.

The gas connection on the appliance regulator is a ½" female BSPP at the front right of the appliance; the regulator is located on the underside of the main burner tray (circled left). The gas supply section of the piping will need to be flexible inside the chassis to allow for pipe disconnection and burner tray removal.

With the burner tray out, the flexible gas supply pipe may be bent into position to align with the regulator connection point when the burner tray is replaced. The gas supply can be tightened onto the regulator through the access hatch shaded in the diagram below.



E8 Gas Isolating Valve

As per AS/NZS 5601 it is recommended that a gas isolating valve be installed prior to the inlet of the fire for servicing in the future.

It is recommended to install a gas isolating valve as close to the appliance as possible when installing your Escea gas product. Fix it in a convenient position to allow it to be closed easily during operation. Consider access once wall linings have been fixed. In some instances, a gas isolation valve will not be able to be fitted due to physical limitations and access points. In such a situation it is acceptable to place a valve closer to the gas meter or use the gas meter as the isolating valve during service work and install.

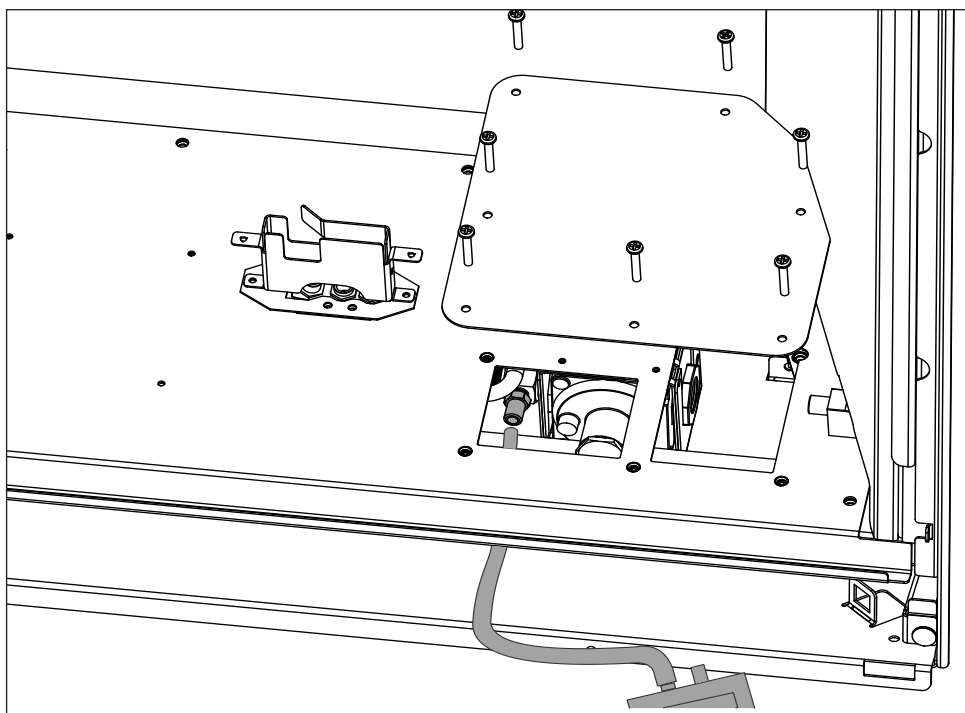
E9 Pressure Test Point

As per AS/NZS 5601, a pressure test point shall be provided by the installer prior to the inlet of the appliance.

E10 Checking the Operating Pressure

WARNING: THE REGULATOR THAT IS SUPPLIED WITH THE FIRE MUST NOT BE REMOVED. REMOVAL OF THE REGULATOR, OR REPLACING IT WITH ONE NOT INTENDED FOR USE WITH AN ESCEA FIRE, WILL VOID THE LIMITED APPLIANCE WARRANTY.

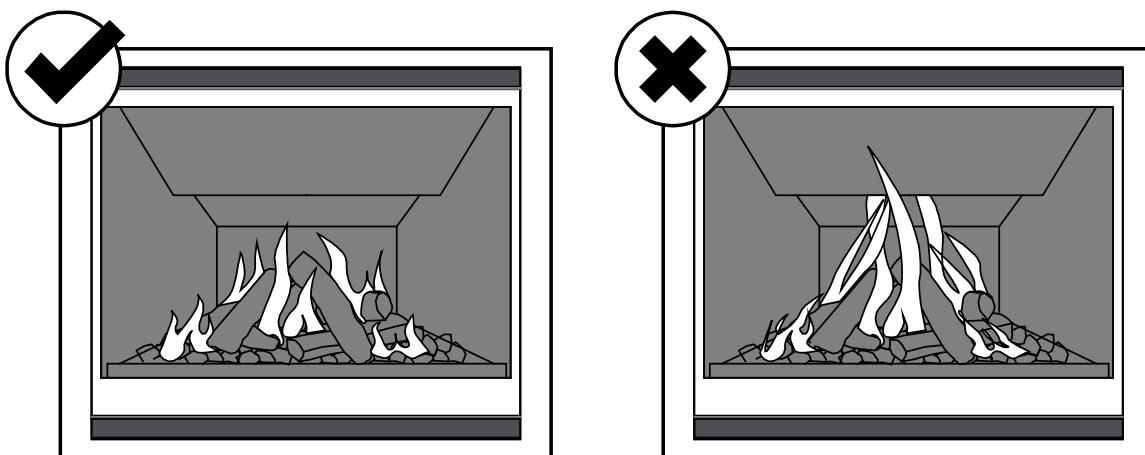
- Check the inlet pressure to the appliance. Attach manometer tube to the first test point upstream of the appliance (typically at the gas utility meter or auto change device for a propane bottle station)
- Run the heater on full (both burners running) and measure inlet pressure with all the other gas appliances in the building running. If pressure does not fall within the maximum or minimum pressures listed on the specification sheet at the start of this manual then reassess installation pipe size or upstream regulator settings.
- Loosen the operating pressure test point screw. Connect the manometer tube and measure the operating pressure with the fireplace running on full (both burners running) and with all the other gas appliances in the building running. The manometer tube can be applied to the test point by removing the access hatch and feeding the tube through the front (as shown in the diagram next page).



- Adjust the operating pressure by feeding a screw driver through the front face of the fireplace and turning the regulator adjustment screw.
- Tighten the operating test point screw and leak test both test points using a soapy water solution.
- Replace the test point hatch

E11 Flame Picture

An abnormal flame pattern will look long and stringy and may cause soot to build up inside the firebox.



An abnormal flame pattern will likely be the result of incorrect settings (jet size, burner aeration collar, flue restriction), and if present you must check these are correct before proceeding.

Note: When checking flame picture ensure burners fully light on ignition, build up of embers or large embers can impede and cause breaks in the cross-lighting.

If an abnormal flame pattern is still present or cross-lighting is an issue, please contact Escea.

It is the responsibility of the installer to ensure a correct flame pattern.

Note: The fuel bed instructions contain necessary information on installing the fuel bed, retain this instruction sheet for future servicing.

E12 Volcanic Rock Fuelbed Installation

Note: The log retainer bracket must be removed when installing the coals.

Place all the volcanic rocks in a single layer atop the burners, covering the entire area except the pilot and pilot guard.

For more information regarding volcanic rock fuel bed installation, please refer to 630681 Volcanic Rock Fuel Bed Instructions.



E13 Traditional Logs and Splitwood Elm Fuelbed Installation

The following photos show the complete log sets for both DF700 and DF960 models.

For more information regarding traditional log placement, please refer to 630673 Traditional Log Fuel Bed Instructions. For information regarding splitwood elm log placement, please refer to 630680 Splitwood Elm Fuel Bed Instructions.

Please ensure that the embers are placed in a SINGLE EVEN LAYER after the logs have been located correctly (excess embers should NOT be added if one even layer has been achieved). The embers or flakes must not cover the pilot or pilot guard.

Note: Logs must be located correctly as stated/depicted in this section or the warranty may void.

DF700 Traditional Log Layout



DF960 Traditional Log Layout



DF700 Splitwood Elm Log Layout



DF960 Splitwood Elm Log Layout



E14 Installing the Glass

Refer to section D2 on page 31 and reverse the steps to reinstall the glass.

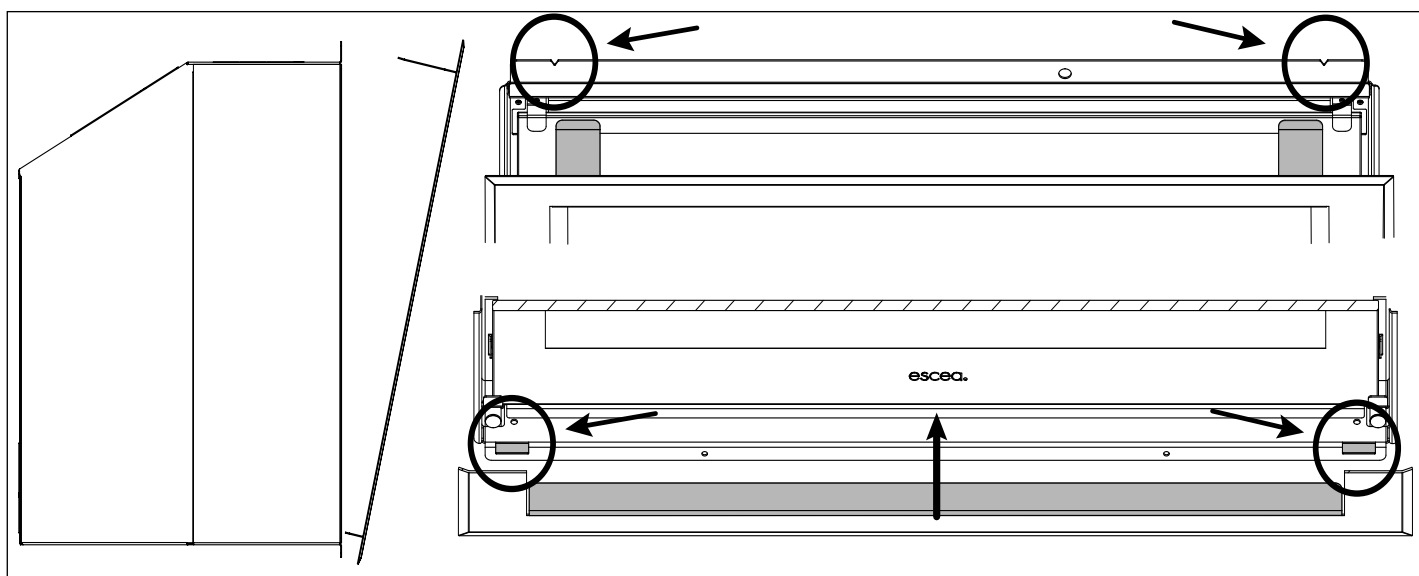
F FITTING THE FASCIA AND FINISHING INSTALLATION

F1 Fitting the Fascia

WARNING: THE FASCIA IS A CRITICAL COMPONENT OF YOUR GAS FIRE AND IS INTEGRAL TO THE AIRFLOW. NEVER RUN THE FIRE WITHOUT THE FASCIA PROPERLY FASTENED.

To align the fascia, place the bottom flange in first and center the fascia using the bottom flange and the two holes in the chassis bottom (circled bottom) then swing the fascia up to meet the top locating notches (circled top).

Slide the two prongs into the space between the chassis lid and black ramp in the two top corners using the notches to center the fascia. You should feel some resistance as the prongs engage with the retainers.



THE FASCIA MUST NOW BE FLUSH WITH THE WALL.

F2 Locating Wall Mount Cradle for Remote

The appliance's remote contains the thermostat that will sense the room temperature and communicate this back to the heater via radio frequency.

A wall mount cradle has been provided for the wireless control and where possible the control should be housed in this cradle.

The location of this cradle should be decided by taking into account the following factors:

- ☐ Simple and convenient access for the user
- ☐ Away from air flow and drafts through the room
- ☐ The parts of the room that people are likely to spend time
- ☐ Away from direct sun light
- ☐ A suitable distance away from the heater

Please ensure that the cradle is screwed firmly onto the wall using the screws provided.

F3 Operating the Appliance for the First Time

Activating the Remote (first time use)

The remote arrives in a locked shipping state. To unlock it, please plug it into power via the USB-C port for 1 second. The remote will come with about 50% charge.


Note: The remote does not come with a charging cable.

Charging the Remote

Charge the remote through the USB-C port in the bottom of the remote using a USB-C cable. The remote can't be used while it is charging. The battery icon will "fill up" and turn green once it is fully charged.



Initial Start

To turn the fire on, press the "POWER" () button once, and within a few seconds the appliance will begin its startup sequence.



Note: Before starting up, the appliance has a 15 to 30-second pre-ignition purge. During this time, a fan runs by itself before attempting to ignite. A visual indicator on the top of the remote screen shows which part of the startup process the appliance is in (see above).

NOTE: once the front burner has lit there will be a fixed 15 second delay before the rear burner will light.

Run the appliance on full for an hour with the windows and doors open in the dwelling. This will ensure any running-in smells have the chance to dissipate.

The appliance is turned off by pressing the "POWER" button once more. The remote will display the time only.

For further operation instructions please refer to the User Guide.

F4 Normal Operating Sounds and Smells

Note: Each time the fire is lit from cold the glass may fog up with condensation. This is normal and the condensation will disappear within a few minutes once the glass heats up.

Sounds:

It is possible that you will hear some sounds from your gas appliance. This is perfectly normal due to the fact that various types of materials are used within your appliance. Listed below are some examples. These are all normal operating sounds and should not be considered as defects in your appliance.

Fan:

Escea gas appliances use electric fans to push heated air into the room. It is not unusual for the fan to make a “whirring” sound when ON. This sound will increase or decrease in volume depending on the speed setting of your fan.

Gas Control Valve:

As the gas control valves turn ON and OFF, a dull clicking sound may be audible. This is the normal operation of a valve. When the fire is switched off after being run for a while, there may be popping and fluttering noises as the residual gas in the burners burns away. These are normal and are no cause for concern.

Unit Body/Firebox:

Different types and thicknesses of steel will expand and contract at different rates resulting in some “cracking” and “ticking” sounds being heard throughout the heating and cool down processes.

Smells:

The first few times the unit is operated, the unit may release an odour and the flames will appear orange due to: the curing of the paint, the burning off of the starch in the gas logs and the oils in the metal. This is a temporary curing process which will disappear with use.

F5 Cleaning the Glass

WARNING: DO NOT ATTEMPT TO CLEAN THE GLASS WHILE IT IS HOT. ALL INTERNAL GLASS/PARTS OF THE FIREPLACE MUST BE SERVICED BY AN AUTHORISED TECHNICIAN.

Clean the outside of the glass with normal glass cleaning products and a clean dry cloth. Stubborn marks may be cleaned with a ceramic glass cleaner.

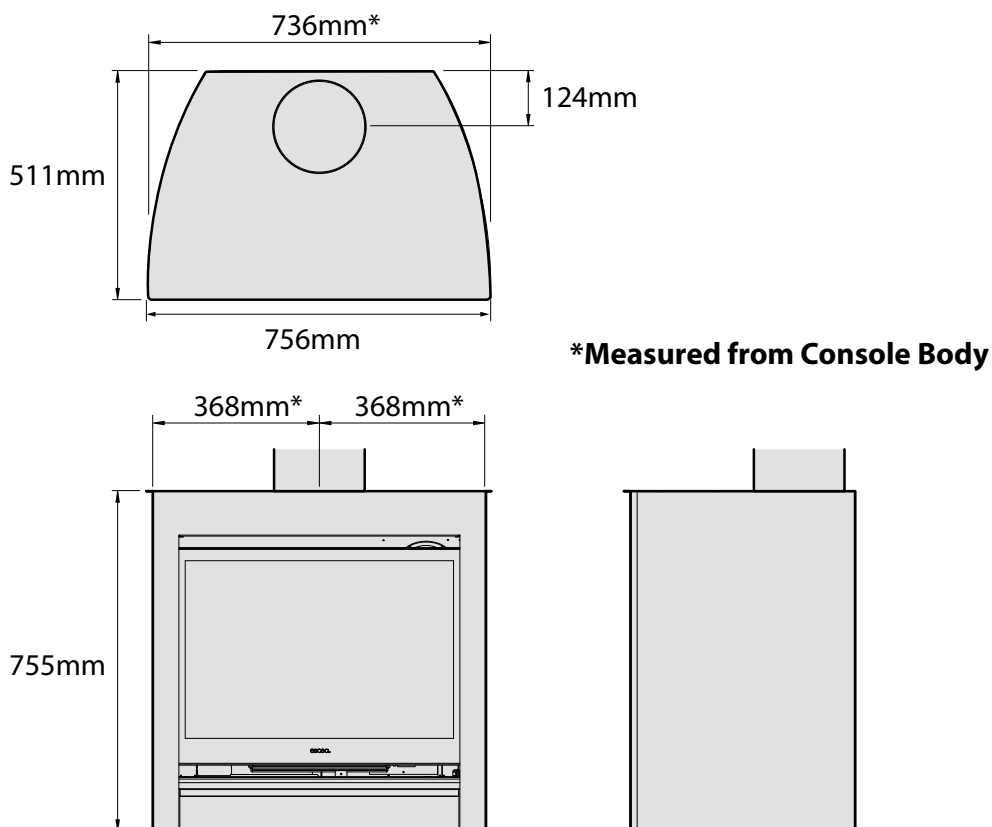
END OF SECTION F

BY THE END OF THIS SECTION, YOU SHOULD HAVE:

- ☐ A correctly fitted fascia
- ☐ The remote control mounted on its cradle on a wall
- ☐ Operated the fire and verified that it lights reliably and safely
- ☐ Run the appliance on full for an hour with the doors & windows open
- ☐ Checked the operation of the thermostat, Flame Effect & Fan Boost functions

G FREESTANDING UNIT (DFS730) INSTALLATION

G1 Product Dimensions

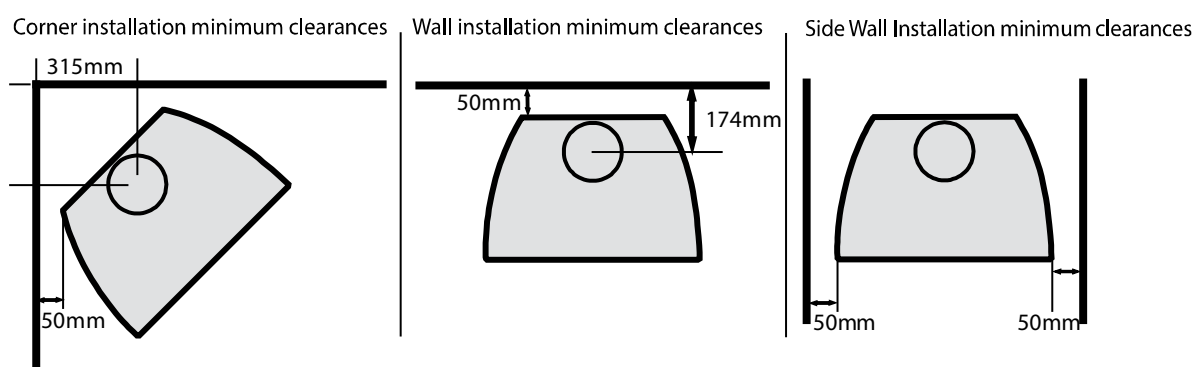


G2 Hearth and Clearances

A hearth is not required, however it may be used for decorative purposes or for protection of sensitive flooring. The hearth should not obscure the air inlet of the fire.

DO NOT PLACE ITEMS OR FURNISHINGS ON TOP OF THE FREESTANDING FIREPLACE, AND ENSURE SOFT FURNISHINGS DO NOT COME IN CONTACT WITH THE FREESTANDING FIREPLACE.

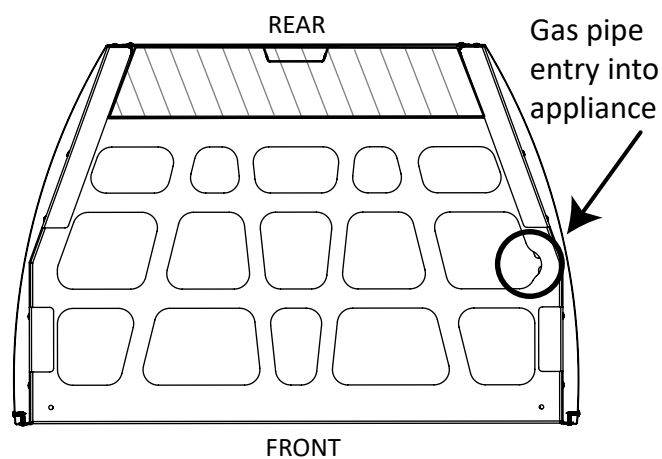
G3 Locating the DFS730




G4 Gas Pipe Routing Information

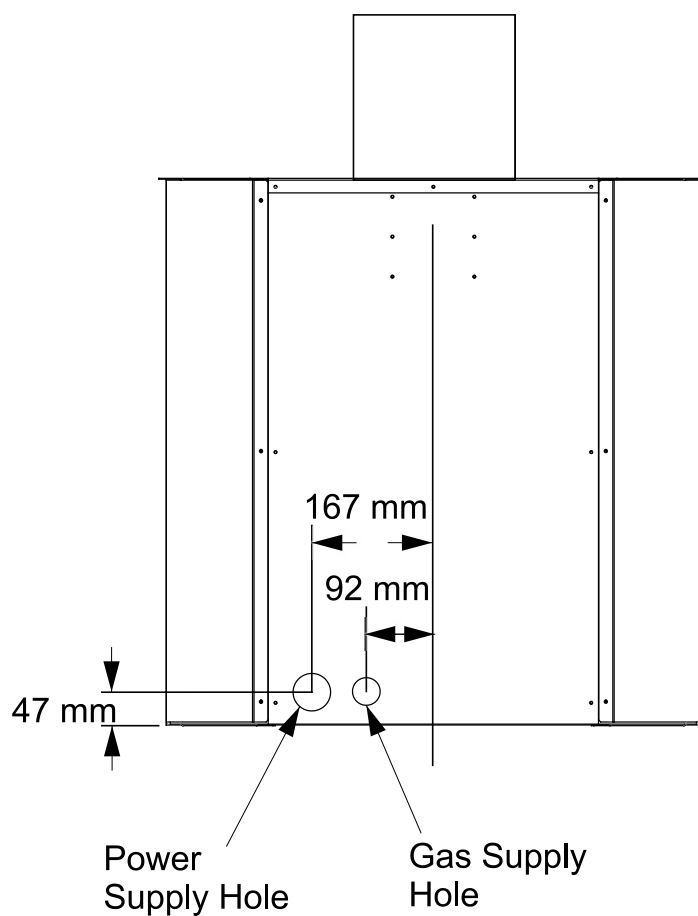
There is a cutout in the bottom of the console that matches a hole in the bottom of the chassis for routing a gas pipe directly to the regulator.

Gas pipe routing information Cross section of Top View



 = Recommended area for the gas pipe to enter the floor.

Rear View

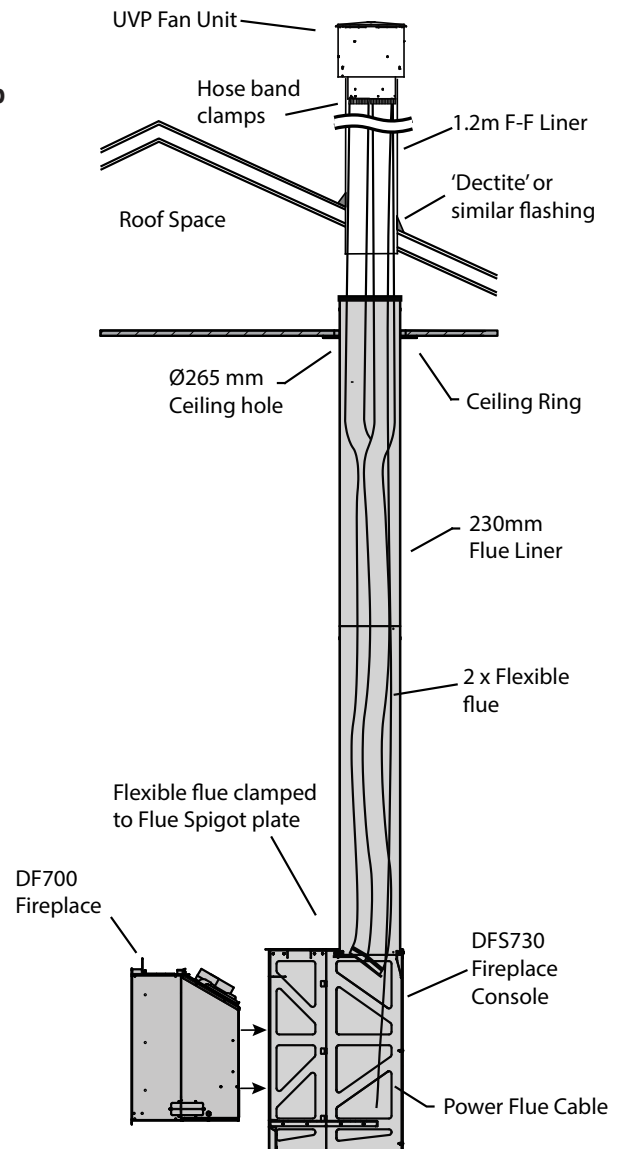
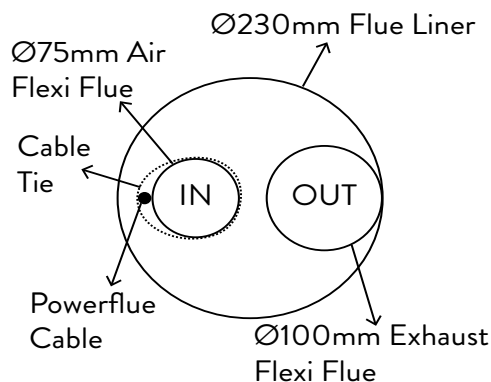


G5 Flue Installation

The freestanding unit and flue system should be installed prior to the DF-Series fireplace being installed (for horizontal termination for DFS730: see G6 on page 48).

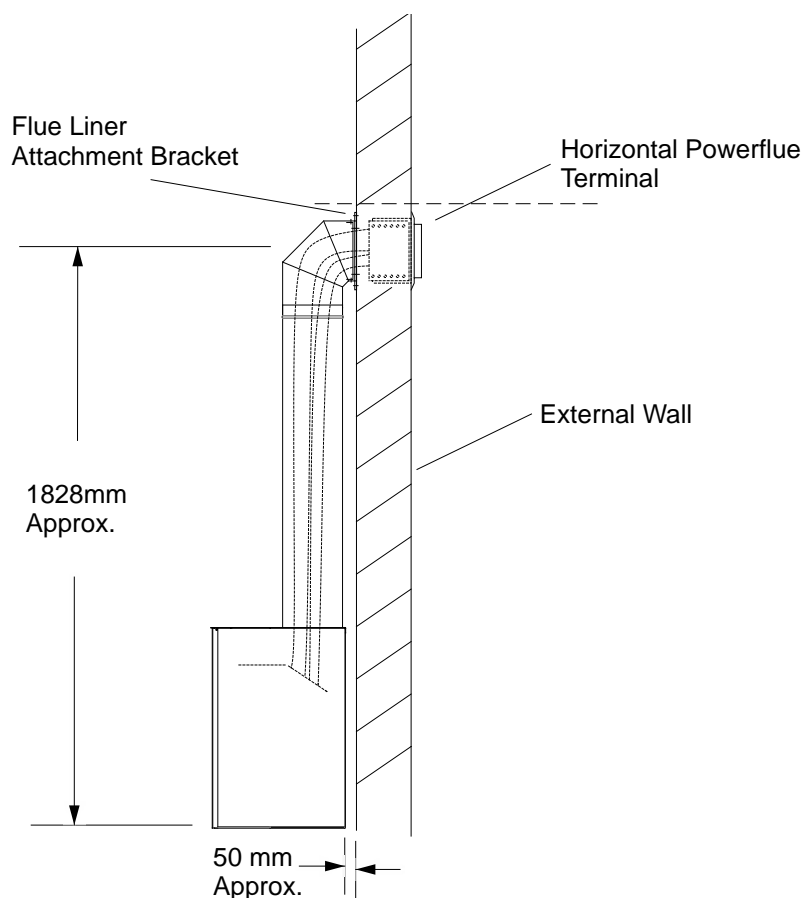
- Place the freestanding console in the correct location, complying with the clearances specified in the previous section.
- Remove 2 screws on each side of the fascia just below the top panel and pull towards you to remove the fascia.
- Fix the DFS730 console to the floor using the four securing holes in each corner of the unit.
- Refer to Section C9 on page 28 for flexi flue clearances.
- Refer to section C on page 16 of this installation manual for minimum and maximum flue lengths, restrictor settings for your installation, and all other flue information.
- Run the black Ø230mm flue liner lengths from the top of the freestanding console until it penetrates the Ø265mm ceiling hole.
- Use the supplied ceiling plate for tidying the internal termination point of the Ø230mm flue liner.
- Run the 2x flexible flues and the Power flue cable down through the Ø230mm flue liner.
- Tie the Power Flue cable onto the Ø75mm Air Flexi Flue as shown below. It must be kept away from the Ø100mm Exhaust Flexi Flue.
- Install flue termination as per section C on page 16 of this manual

Note: Ensure a power supply is within 1m of the rear of the appliance.



G6 Horizontal Flue Kit

Note: Instructions for installation are provided with the kit.

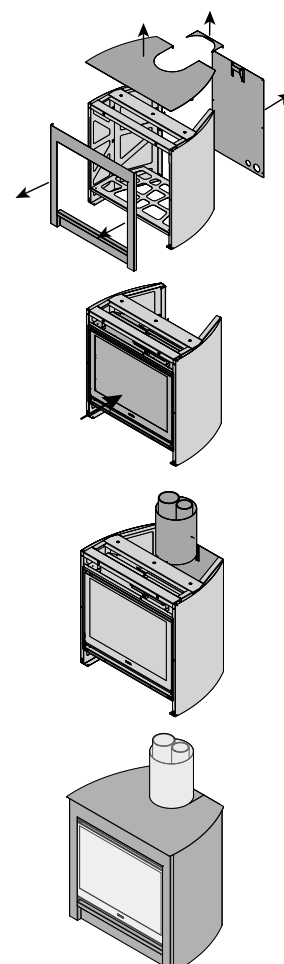


G7 DF700 Fireplace Installation into DFS730 Freestanding Console

Once the freestanding Console is in place, and the flue system installed, the DF700 fireplace installation can commence.

Note: The sides of the console are removeable if needed.

- Remove the back and top panels of the free standing console.
- On the fire, remove both pieces of glass, the infill, burners, and gas tray as shown in D2, D3, and E3 to get access to the electronics tray.
- Push the Power flue cable in through the grommet on the side of the fire and plug it into the electronics tray, next push the fire into the console, making sure the Power cable and Power flue cable are routed safely out the side and into the back of the console.
- Attach the Flexible flues to the spigot plate as shown in C12 on page 30.
- Reinstall the back of the unit by slightly tilting the powerflue liner, making sure that the Power cable is pushed through the appropriate hole in the back panel.
- Now install the grommet into the back panel and fix the fire to the console using the supplied nuts and bolts.
- Run gas piping to the front right of the fireplace, a hole is positioned so the gas pipe can run directly to the regulator and be connected as per section E6 on page 37.
- Reinstall the top of the console and continue with the final steps of installing the fire before reinstalling the fascia.





INSTALLATION CHECKLIST

Go through the following checklist to ensure you have installed the appliance correctly

- ☐ **Correctly sized cavity to suit your fascia and flue configuration**
- ☐ **Correct clearances to combustibles and mantles around the fascia**
- ☐ **An electrical isolating switch to the appliance, accessible after finished installation**
- ☐ **Correctly sized gas supply with a pressure test point, ensuring adequate supply with all other gas appliances in the dwelling running**
- ☐ **A weather-tight installed Horizontal or Vertical Flue Terminal with clearance as specified by AS/NZ5601**
- ☐ **Power flue cable connected correctly to the Power Flue Terminal and the electronics tray within the appliance**
- ☐ **Reasonable access to the Horizontal or Vertical Flue Terminal for maintenance purposes**
- ☐ **Flue attached to the rear/bottom of the flue terminal leading back to the appliance**
- ☐ **The appliance fixed to the cavity base**
- ☐ **The appliance plugged into a mains electricity supply**
- ☐ **All gas joints and pressure points leak tested, and soapy water and drop tests completed on gas pipework**
- ☐ **Gas type conversion process carried out if required**
- ☐ **Log or coal fuel bed correctly installed**
- ☐ **Primary and secondary glass correctly fitted**
- ☐ **A fitted fascia**
- ☐ **The remote control mounted on its cradle on a wall**
- ☐ **Operated the fire and verified that it lights reliably and safely**
- ☐ **Run the appliance on full for an hour with the doors & windows open**
- ☐ **Appliance functions checked, including thermostat operation, Flame Effect and Fan Boost**
- ☐ **Home-owner shown how to operate the appliance correctly**
- ☐ **User Guide made available for end user**
- ☐ **Plumbing Industry Commission Compliance Certificate given to end user**

IMPORTANT:

THIS APPLIANCE MUST BE SERVICED EVERY 12 MONTHS.

ANY SERVICE OPERATION SHOULD BE CARRIED OUT ONLY BY A SUITABLY QUALIFIED AND TRAINED PERSON.

GAS AND ELECTRICITY SUPPLY MUST BE ISOLATED BEFORE ANY SERVICE OPERATION IS CARRIED OUT ON THIS APPLIANCE.

THIS MANUAL SHOULD BE LEFT WITH THE APPLIANCE.

ONLY USE ESCEA APPROVED SPARE PARTS.

ESCEA SPARE PARTS ARE AVAILABLE FROM AN ESCEA DISTRIBUTOR OR RETAILER

DO NOT MODIFY THIS APPLIANCE.

S1 Annual Service Procedure

- ☐ Isolate power and gas supply to fire.
- ☐ Remove glass and clean inside of glass.
- ☐ Remove fuel bed and brush off any soot.
- ☐ Clean electrode and pilot hood of any carbon build up and ensure correct gaps between electrode and pilot hood
- ☐ Remove burners and blow compressed air through the burner ports.
- ☐ Remove jets and clean injector hole (with solvent if necessary).
- ☐ Vacuum any dust from the cavity that houses the fan and from the underside of the fire box around the valve and solenoids.
- ☐ Test all joints for gas tightness.
- ☐ Reassemble heater and check that operating pressure is correct.
- ☐ Check glass sealing tape and replace if necessary.
- ☐ Check to make sure that flue system is intact and not in any way blocked.
- ☐ Trial heater with several start/stop cycles, Fan Boost, Effect Only, and thermostat modes to ensure that all modes function correctly.

The product data plate is located underneath the electronics tray. (See section "S10 Removing the Control Trays" on page 69 34.)

S2 Error Codes

This gas fire has been designed to show error codes to help explain and identify any fault situation that occurs. These codes will appear on the top of the remote touchscreen in the form of a letter “E” with a number code beside it. Codes can normally be reset by turning the fireplace off then on again at the mains power wall switch.

The following table shows what each code means and possible ways to rectify the situation. In the case of persistent or repeated shutdown errors, action must be taken immediately to find and repair the fault.

Some codes are not applicable for this model or are for factory diagnostics. These have not been included in this table.

NOTE: An error code may not signify a fault/warranty issue; depending on the error code, it may signify that the remote batteries are low or the LPG cylinder is empty. Refer to the section below and contact Escea if needed.

| Error Code | Suggested action |
|--|--|
| E1 Electronics Over Temp | Ensure correct gaps are present around glass. Check fascia and trims are correctly fitted. Room air fan/s may be slowed or stalled. Check that the fans are plugged in, clean, and free turning. Check for excess lint and dust build-up on the PCB/Controller. |
| E2.1 The fire has tried to light three times and failed during a normal startup. | Check correct gas pressure to the appliance with all other appliances running. Check the spark electrode is sparking at the end of each 15s - 30s purge. Check the electrode is well enveloped in flame. Ensure no small embers/coins have dropped onto the ignition electrodes inside the pilot guard. Ensure the electrode is not contacting any metalwork. |
| E2.2 Waited too long for purge to finish. | The fire has completed its purge but has not attempted to ignite the pilot. |
| E2.3 Three failures during normal runtime. | Check gas supply and check other gas appliances to see if they are affected. If you have two separate LPG cylinders, switch over to the full bottle or contact your gas supplier. You may need to retry igniting the fire a few times after re-establishing gas supply. |
| E2.5 Pilot has extinguished when the fire is in over-temperature mode. | The fire has moved to over-temperature mode (pilot flame only) and the pilot has extinguished. Check pilot jet for obstructions. |

| | |
|--|---|
| E2.6 | <p>Check gas supply and check other gas appliances to see if they are affected. If you have two separate LPG cylinders, switch over to the full bottle or contact your gas supplier. You may need to retry igniting the fire a few times after re-establishing gas supply.</p> <p>Check regulator and burner pressure.</p> |
| <p>Pilot ignited then extinguished when main burners lit.</p> | |
| E2.7 | <p>Check supply voltage.</p> |
| <p>Critically low supply voltage. (<185V)</p> | |
| E3.1 | <p>Check that fan is plugged in, cleaned, and free turning - room air fan may be slowed or stalled.</p> <p>Check the burner pressure -being set too high may result in excess heat build-up.</p> <p>Check the gas jets are correct.</p> |
| <p>TCO 1 (Heat exchanger) has gone over temperature.</p> | |
| E3.3 | <p>Check that TCO wiring terminals are properly connected and not touching the chassis or firebox.</p> |
| <p>TCO over current protection activated.</p> | |
| E4.1 | <p>Check that the connections to each solenoid are secure and in place.</p> <p>The primary solenoid on the valve inside the fire may have failed. If this is the case, the coil will need to be replaced.</p> |
| <p>Primary valve solenoid current abnormal.</p> | |
| E4.2 | <p>Contact Escea technical support.</p> |
| <p>Secondary valve solenoid drawing current when supposed to be off.</p> | |
| E4.3 | <p>The valve solenoids have failed the pre-ignition test. A wire may have dislodged or the valve solenoid is faulty.</p> <p>Check that the connections to each solenoid are secure and in place.</p> <p>The connections on the ends of the wires may need to be tightened (e.g. with a pair of pliers) to ensure a robust connection to the valve terminal.</p> |
| <p>Secondary valve solenoid over-current protection activated.</p> | |
| E4.4 | <p>Check the wiring to the solenoids for damage.</p> |
| <p>Secondary valve solenoid drawing too much current.</p> | |
| E4.5 | |
| <p>Secondary valve solenoid drawing too little current.</p> | |

E6.5

Room fan current too low.

Check that room fan is plugged in.

E6.6

Room fan current too high.

Check that room fan is not stalled or jammed.

Check wiring loom for damage.

E7.1

Pressure switch stuck closed at startup

Ensure the pressure switch is mounted vertically and the diaphragm is operational.

E7.2

Flue fan current too low.

Check powerflue cable is correctly plugged into the fire and powerflue.

Check powerflue cable for damage.

E7.3

Flue fan current too high.

Check powerflue fan is free spinning and not stalled or jammed.

Check powerflue cable for damage.

E7.4

Pressure switch does not close during purge.

Check whether the pressure switch is activating at startup (there is an orange indicator LED in the control tray and near the Aux button).

Check that both flues are securely connected at both ends to the appliance and the Power Flue wall terminal and that the flue is not damaged.

Check that the pressure switch electrical connection is correct.

Check that the pressure switch hoses are connected at both ends. Ensure the hoses are not kinked.

Ensure the pressure switch is mounted vertically and the diaphragm is operational. The black hose should be connected to the lighter pressure port and the translucent hose to the darker pressure port.

Check that the fan inside the Power Flue wall terminal is running during startup. This fan may need servicing if it is slowed or stalled.

S3 Serial Number

The serial number for the fire can be found, on the front page of this manual, underneath the electrical tray on the data plate, on the quick start guide, and by pairing a mobile device as shown in the user guide.

S4 Checking Operating Pressure

See section E10 on page 38 of this manual.

S5 Cleaning the Fascia

The outside of an Escea Fascia must only be cleaned with a soft microfibre cloth. If heavier cleaning is required for the likes of grease or stubborn fingerprint removal we recommend the use of a dedicated stainless steel cleaner for stainless steel fascias or warm soapy water for powder coated fascias. These wipes have been tested by Escea technicians and produce very satisfying results, when used correctly. Instructions for their use follow.

NEVER RUB THE FASCIA.

For Stainless Steel Fascias:

- Ensure that the Gas Fireplace is off and that the fascia is cold to the touch.
- Using the gloves provided with your fascia, a stainless steel cleaner and a clean cloth, apply a small amount of cleaner to the cloth and wipe the fascia with even, straight strokes.
- Make sure your strokes follow the direction of the grain or brush finish. Wiping across the grain can leave small scratches.
- The wipe will leave a very fine film over the fascia, ensure this film is distributed evenly.
- If the film is applied too heavily and is quite visible, you can remove the excess by gently wiping dry with a microfibre cloth. Ensure your strokes still follow the direction of the grain or brush finish.
- Ensure that no film is applied to the glass of your Escea Gas Fireplace. If applied accidentally, wipe off with an absorbent microfibre cloth.

For Powder Coated Fascias:

- Ensure that the Gas Fireplace is off and that the fascia is cold to the touch.
- Using the gloves provided with your fascia, gently clean the fascia with a cloth and warm soapy water.
- Wipe off with an absorbent microfibre cloth.

Cleaning the Log Set and Glass

This is a service procedure that will need to be carried out whenever soot builds up on logs and/or inside of glass. If soot build up becomes excessive or regular then one of the following actions may be required:

- Check gas pressure; operating gas pressure may be too high.
- Reposition log set so that each log is sitting correctly in the log retainer bracket.
- Clear any blockage from primary air port of burner.
- Check flue tube is not damaged or disconnected.

For diagrams and further info on removing your fascia, reverse the steps found in section F on page 42.

- Refer to section D2 on page 31 for instructions on removing the glass. Note that the fiberglass tape around the glass can cause marking on carpet or furnishing.
- Clean the inside and outside of both pieces of glass with normal ammonia-free glass cleaning products. Use a CLEAN DRY cloth only. Stubborn marks may be cleaned with a ceramic glass cleaner.
- Replace in opposite order and test run heater.

S6 Converting the Appliance Gas Type

If there is a need to convert the gas type of the appliance, follow the instructions provided with your gas conversion kit using the following table for correct jets and collars:

For Natural gas fires a silver spring is installed in the regulator and Propane and ULPG use a purple spring.

| DF700 ONLY | | | | |
|------------|--------------|-------------|-------------------------------|-----------|
| Jets | Front Burner | Rear Burner | Aeration Collars | Pilot Jet |
| NG | Ø 1.6 mm | Ø 1.40 mm | Front 1 x 4mm, Rear 2 x 4.5mm | #42 |
| Propane | Ø 1.05 mm | Ø 0.85 mm | Front 2 x 8mm, Rear 2 x 8mm | #27 |
| ULPG | Ø 1.05 mm | Ø 0.85 mm | Front 2 x 12mm, Rear 2 x 13mm | #27 |

| DF960 ONLY | | | | |
|------------|--------------|-------------|-------------------------------|-----------|
| Jets | Front Burner | Rear Burner | Aeration Collars | Pilot Jet |
| NG | Ø 1.9 mm | Ø 1.40 mm | Front 1 x 4mm, Rear 1 x 4mm | #42 |
| Propane | Ø 1.20 mm | Ø 1.05 mm | Front 2 x 11mm, Rear 2 x 13mm | #27 |
| ULPG | Ø 1.20 mm | Ø 1.05 mm | Spacer Collars | #27 |

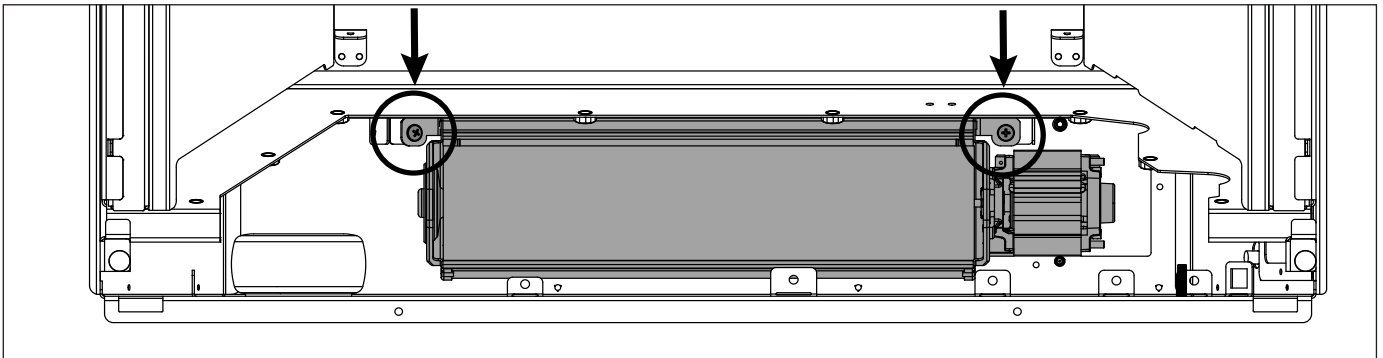
S7 Removing or Cleaning Fan

As part of regular service procedure, it is recommended that the fan is removed for cleaning. Dust will build up on the fan rotor and in the cavity where the fan is located. This can be removed by the service person using a hearth brush and a vacuum cleaner.

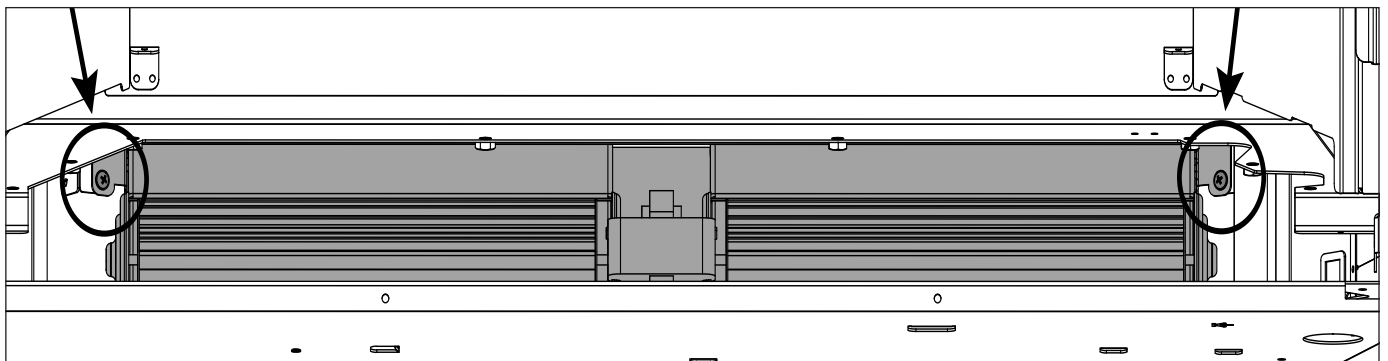
ISOLATE THE POWER AND GAS SUPPLY TO THE FIRE BEFORE COMMENCING THIS PROCEDURE.

Remove the electronic tray located on the base of the chassis (instructions provided in the next section) before attempting to remove the room air fan. Disconnect the 3-way fan connector and remove the two screws circled in the diagram below. The room air fan can now be pull towards you and removed through the burner tray hole.

DF700 Fan Screw Locations



DF960 Fan Screw Locations



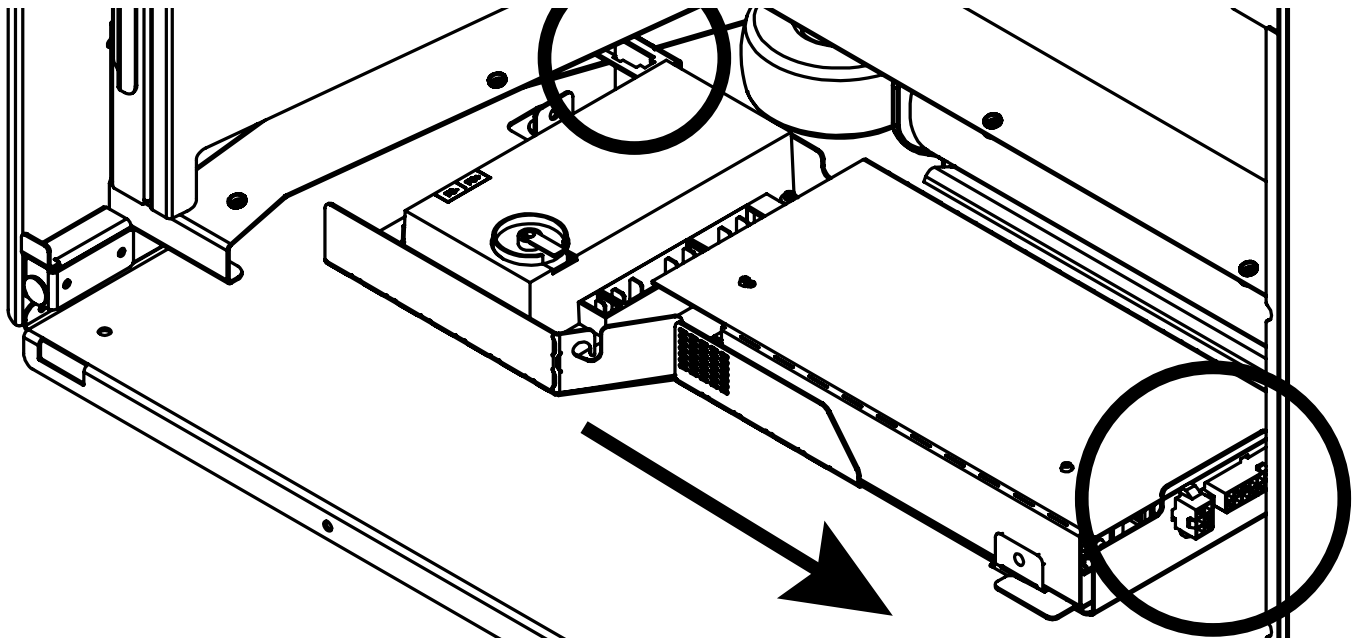
S8 Removing Electronic Tray

ISOLATE THE POWER TO THE FIRE BEFORE THIS PROCEDURE.

All of the electronic components of the heater have been located on a removable tray.

Remove the 18-way connector and 6-way connector from the end of the tray and the transformer connector located in the rear LH corner of the electronics tray.

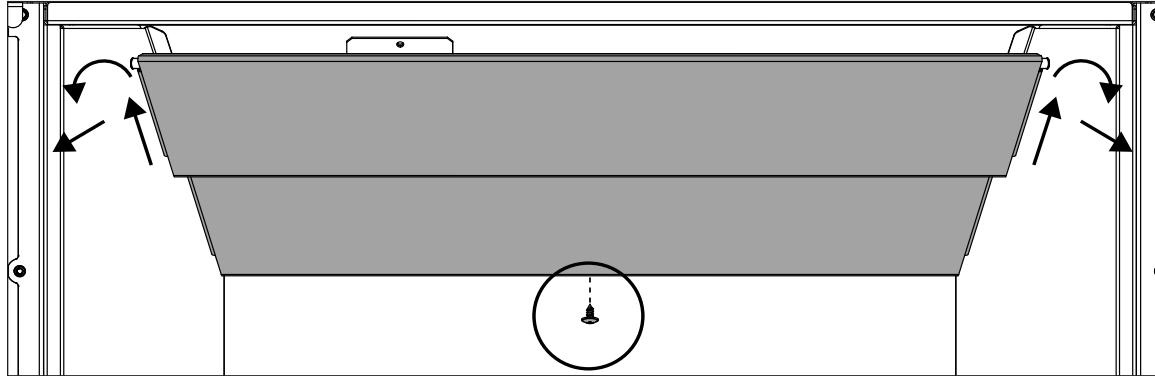
The tray can now be slid towards the RH side then lifted out of the burner tray hole in the firebox.



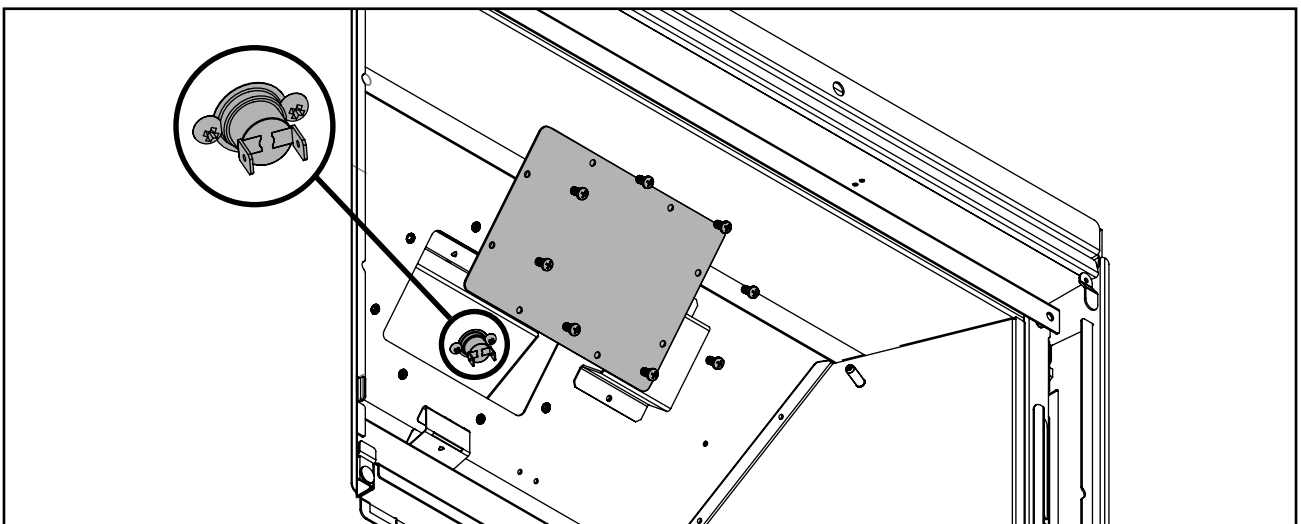
S9 Replacing the Thermal Cut Out

ISOLATE THE POWER TO THE FIRE BEFORE THIS PROCEDURE.

Undo the screw below the stepped baffle halfway then gently lift the baffle up and bring towards you. Remove the 8 machine screws in the access panel (as shown in the diagram below).

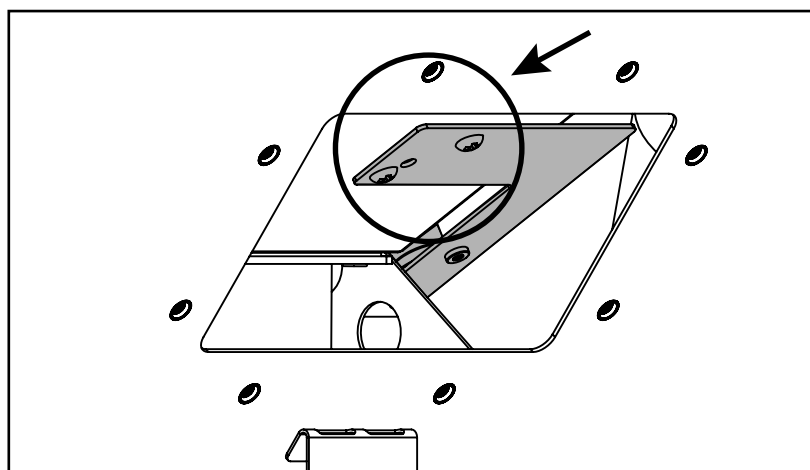


In the DF700 disconnect the TCO wires and then remove the 2 machine screws from the TCO (as shown in the diagram below).



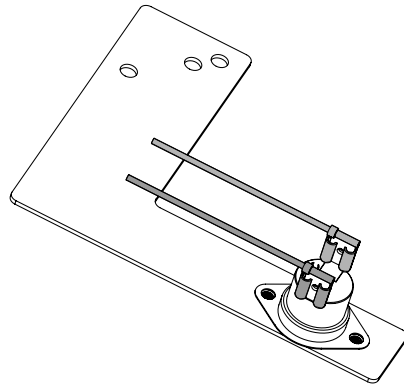
In the DF960 the TCO is attached to a bracket which sits in the position shown below.

Remove the two screws that hold in the bracket and manoeuvre the bracket out of the access hatch.



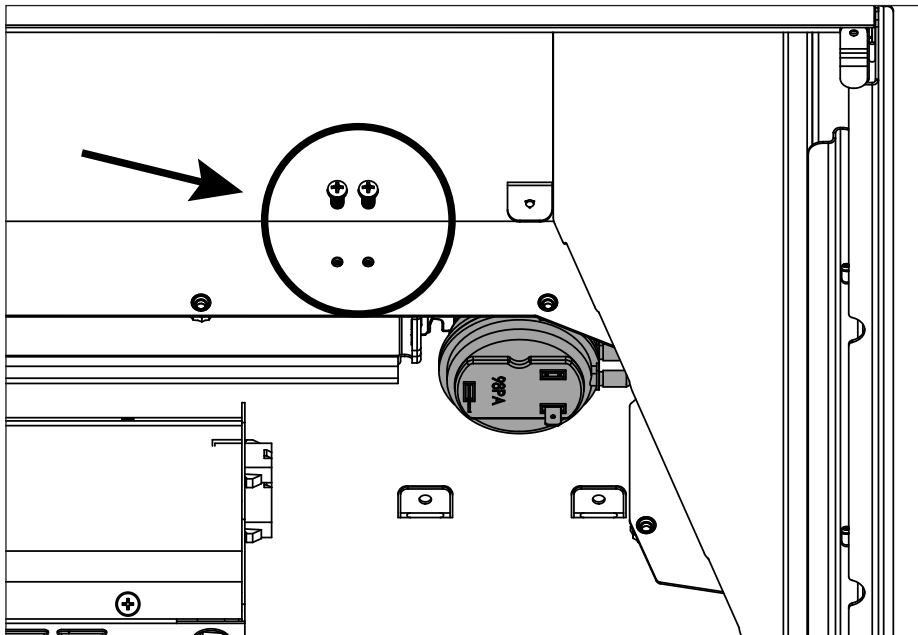
Disconnect the two wires from the TCO and then pull out the bracket and TCO assembly this may then be removed from the fire box for replacement.

When reconnecting the wires to the TCO point them in the direction shown to the right.



S10 Removing the Pressure Switch

Remove the two machine screws located in the rear RH side of the firebox to detach the pressure switch bracket. Unplug the white and orange wires along with the two tubes to remove the bracket and pressure switch from the appliance.



The bracket with the pressure switch may now be removed from the firebox.

Reinstalling the pressure switch, the black hose should be connected to the lighter pressure port and the translucent to the darker pressure port.

S11 Replacing/Pairing a Remote Control

If the wireless control becomes lost or damaged, a new one can be ordered from any Escea retail agent.

1. Hold down the black (AUX) button on your fire for a minimum of 20 seconds, this will tell your fire to forget any paired remotes.
2. Ensure the fire and remote are set to 'Off'. Gently shake the remote to wake it up if necessary.
3. Press the menu button on the touchscreen
 - Go into Settings
 - Advanced
 - More
 - Pair Fire
4. Select the fire you wish to pair to and select "Next".
5. Enter the fire's PIN. Tap each digit then use the up and down arrows to change the digit.
6. Press "pair". The fire is now linked to the remote control.

Note: Do not attempt to use the old remote once the new one is paired.

S12 Servicing the Horizontal/Universal Vertical Power Flue

Ensure the power to the power flue is off by disconnecting the power to the appliance inside. If the appliance has been running, allow the power flue to cool before attempting to service it.

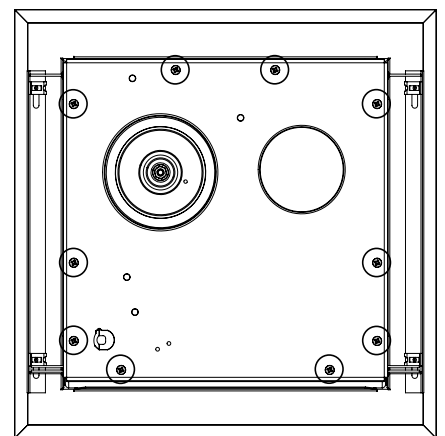
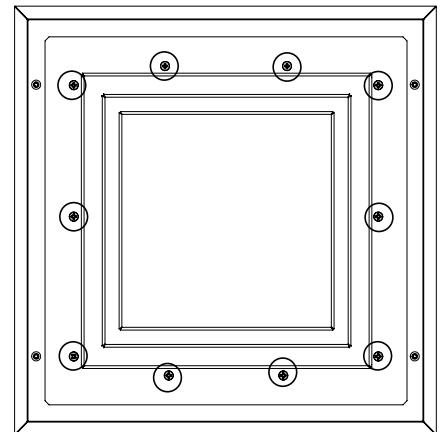
If the Power Flue needs servicing, the fan can be accessed from the outside of the installation (top drawing) or inside (bottom drawing) for horizontal termination and accessed from within the roof space for vertical termination.

Servicing a Horizontal Power Flue:

Undo the screws on the outside of the Power Flue box and separate the two parts, giving you access to the fan inside.

Removing this plate gives complete access to the fan for servicing or replacement. Check that all the seals are still intact. Check that the fan electrical terminals, motor, and impeller are not corroded. Ensure there are no signs of leakage in or around the terminal.

When reassembling the Power Flue, line up the round silicon grommets with the outlet tube of the fan and push the cowl back into place. Ensure all seals are still in place and replace all of the screws to hold the cowl in the correct position.



Servicing a Universal Vertical Power Flue:

If the UVP is internally installed remove the unit (2 in the right hand image) and replace the complete fan unit.

If the UVP is externally installed the cowl/fan unit pictured below is to be completely replaced by removing it from the liner or flashing.

