

## Installation / Service Instructions

# DF / DFS-Series

Gas Fireplace

**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 5601:2013 Gas Installations

**WARNING:**

This appliance must be installed by a qualified person.

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:**

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, please contact the retailer from whom the appliance was purchased.

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 in New Zealand, please visit: [www.escea.com](http://www.escea.com) or email: [info@escea.com](mailto:info@escea.com). From Australia, please visit [www.escea.com.au](http://www.escea.com.au), call AU: 1800 460 832 or WA: 1800 730 140, or email us at [info@escea.com](mailto:info@escea.com)



# DF700 PRODUCT SPECIFICATION

MODEL NAME		DF700		
Description of Appliance		Powerflued Gas Fire Heater		
Star Rating		4-5 Stars		
A/NZ Approval No.		AS 4553		
Gas Type		<b>Natural</b>	<b>Propane</b>	<b>ULPG</b>
Gas input	High	25 MJ/hr	25 MJ/hr	24 MJ/hr
	Low	11 MJ/hr	11 MJ/hr	9.5 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: 1.70mm Rear: 1.40mm	Front: 1.05mm Rear: 0.9mm	Front: 1.05mm Rear: 0.85mm
Aeration Collar Hole Size		1 hole @ Ø3.5mm	No Collars	No Collars
Pilot injector		#42	#27	#27
Appliance Dimensions (mm)	Width	693.0 mm		
	Height	596.0 mm		
	Depth	390.0 mm		
Weight	Kg	45 kg		
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		
Clock		Yes		
Function lock / child		Yes		
Temperature control		Yes		
Connections	Electric	230V AC		
	Gas	1/2" BSPP female lower right of fireplace chassis		
	Flue Type	4" and 3" 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		4.4-4.9 Stars		
A/NZ Approval No.		AS 4553		
Gas Type		<b>Natural</b>	<b>Propane</b>	<b>ULPG</b>
Gas input	High	31 MJ/hr	31 MJ/hr	28 MJ/hr
	Low	15 MJ/hr	14 MJ/hr	12 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: 1.85mm Rear: 1.70mm	Front: 1.20mm Rear: 1.05mm	Front: 1.10mm Rear: 1.02mm
Aeration Collar Hole Size for Logs & Flakes		1 holes @ Ø4mm	No Collars	No Collars
Aeration Collar Hole Size for Coals		1 hole @ Ø2.5mm	No Collars	No Collars
Pilot injector		#42	#27	#27
Appliance Dimensions (mm)	Width	943.0 mm		
	Height	596.0 mm		
	Depth	402.0 mm		
Weight	Kg	70 kg		
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		
Clock		Yes		
Function lock / child		Yes		
Temperature control		Yes		
Connections	Electric	230V AC		
	Gas	1/2" BSPP female lower right of fireplace chassis		
	Flue Type	4" and 3" Flexi Flue		
	Spigot Location	Rear and centre		
Data badge location		On Chassis Base		

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# A Product Description and Installation Process

## A1 Product description

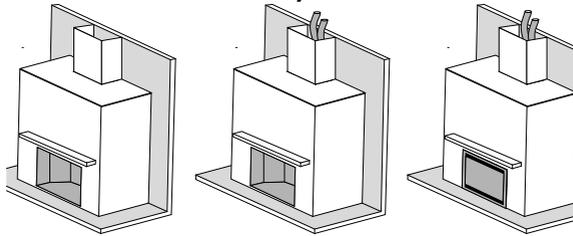
The Escea DF-Series gas fire is a room sealed gas appliance designed to be built into a masonry cavity or a false chimney cavity. The DF-Series fireplace is provided with standoff rails installed to the outside of the chassis to attain a zero clearance rating. These appliances are flued using co-linear flexible aluminium flue (with PolyPro flue extensions in some installations) connected to a powerflue. The user will control their fire with the Radio Frequency (RF) remote that will normally be located in it's 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.

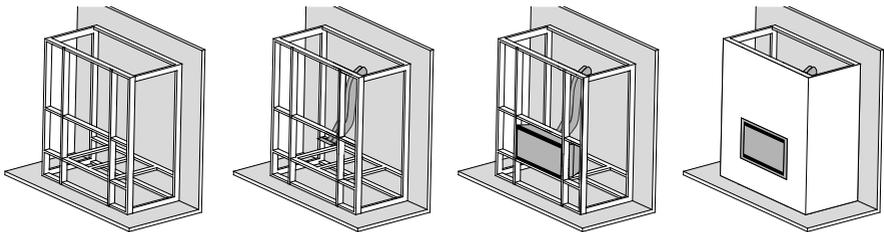
The sequence in which you choose to do these tasks will vary depending on your individual scenario. Please read these instructions fully before proceeding with the installation.

### Masonry Installation



Modifying the cavity to suit	Install electrical / gas connections and flue system	Install appliance and finish cavity	Finish installation, fit fascia and test appliance
Section B	Section C, D	Section E	Section F

### False Cavity Installation



Create The Framed-Cavity	Install electrical / gas connections and flue system	Install appliance and finish cavity	Finish installation, fit fascia, test appliance and clad the cavity
Section B	Section C, D	Section E	Section F

A

B

C

D

E

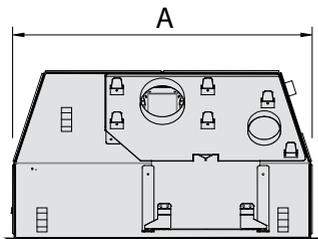
F

G

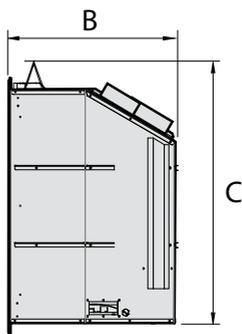
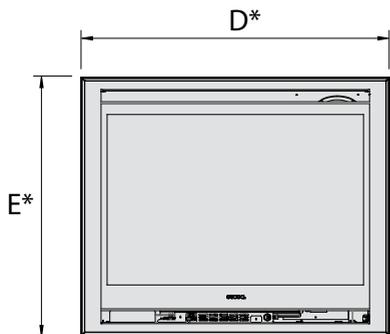
SERVICE

### A3 Product Dimensions

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



	A	B	C	D*	E*
DF700	693mm	387mm	596mm	711mm	593mm
DF960	943mm	402mm	596mm	961mm	593mm



\*Slim Fascia Dimensions.

#### END OF SECTION A

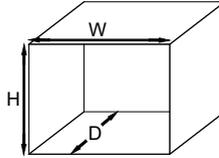
By the end of this section, you should have:

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

# B Creating the Cavity

## B1 Cavity Shape

The standoff rails installed on the outside must only be removed when being installed into a masonry cavity.



Note: a top is not required when creating the cavity

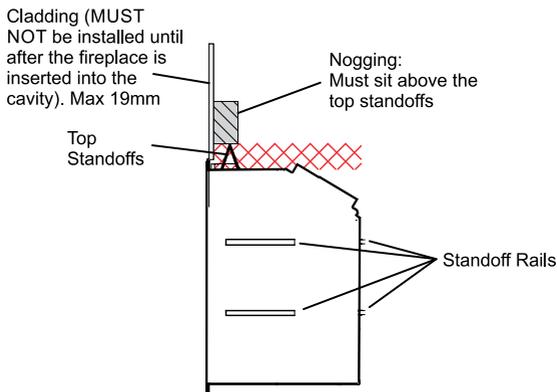
		Height	Width	Depth
DF700	False Cavity installation (top standoffs must be adjusted to the upright position)	600mm	695mm	390mm + minimum 65mm flue clearances
	Masonry install with standoff rails & top standoffs removed.	590mm**	685mm	385mm
DF960	False Cavity installation (top standoffs must be adjusted to the upright position)	600mm	945mm	405mm + minimum 65mm flue clearances
	Masonry install with standoff rails & top standoffs removed.	590mm**	935mm	400mm

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

**\*\*NOTE:** This dimension makes an allowance for the 30mm spacer for floor mounted installations (see next page).

### False Cavity Installation Requirements

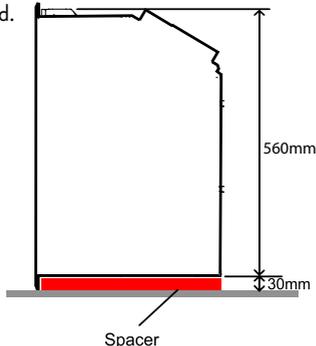
For floor mounted installations, allow for fascia clearance (see B8 on page 13).



 = Clearances; must cover the full width of the appliance

## Masonry Installation Requirements

In most cases the masonry install will require a spacer below the appliance to allow room for the fascia to sit flush with the ground.



## B2 Floor Clearances

If the appliance is mounted above a “hard floor” (including but not necessarily limited to: wood, wood veneers, ceramic tiles, concrete and stone) then it may be positioned with the bottom of the fascia coincident with the finished floor if desired.

*NOTE: The appliance has been tested and certified to AS4553:2008 and the maximum allowable temperature rise above ambient of any combustible floor is  $\Delta T$  of 65C. Therefore any material used must be chosen to be able to operate without damage or degradation with a  $\Delta T$  of 65C.*

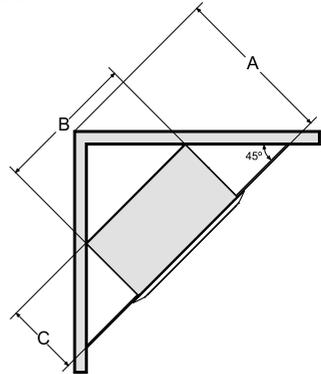
If the appliance is mounted above a “soft floor” (including but not necessarily limited to: carpets, vinyl, carpet tiles, rugs, and mats) then we recommend a distance of 100mm from the bottom of the fascia to the finished floor.

Refer to section B4 on page 12 for hearths.

### B3 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	775mm	695mm	420mm
DF960	915mm	945mm	435mm



### B4 Hearth

A hearth is not required, however it may be used for decorative purposes or for protection of soft/sensitive flooring as stated in section B2 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.

### B5 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 80kgs.

### B6 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.*

The DF-Series fireplace is zero clearance rated with the standoff rails installed on the outside of the chassis. The standoff rails may only be removed when installing the fire into a masonry cavity.

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 10, 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.*

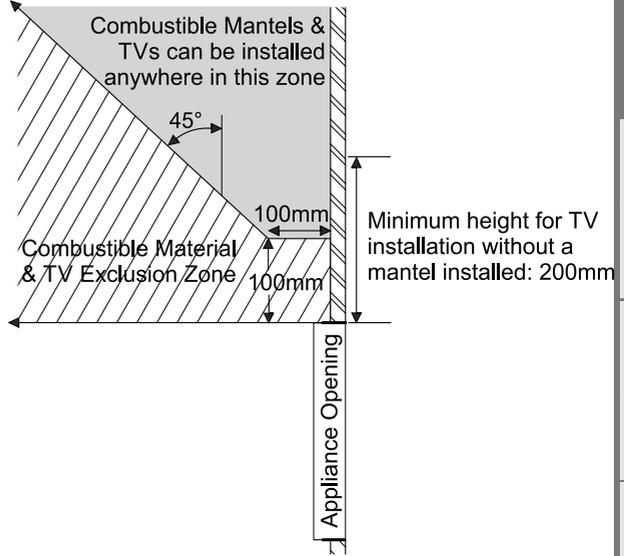
## B7 Television & Mantel Clearances

### Television

The diagram (shown right) 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. A mantel/recess is not required to comply with our recommendation of TV installation.

*NOTE: dimensions from the top edge of the air opening.*

*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.*



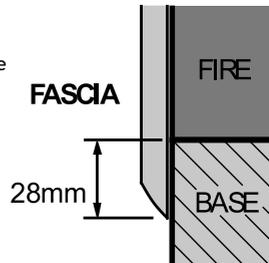
### Mantel

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

*NOTE: dimensions are from the top edge of the air opening.*

## B8 Distance from Fireplace Base to Fascia Base

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



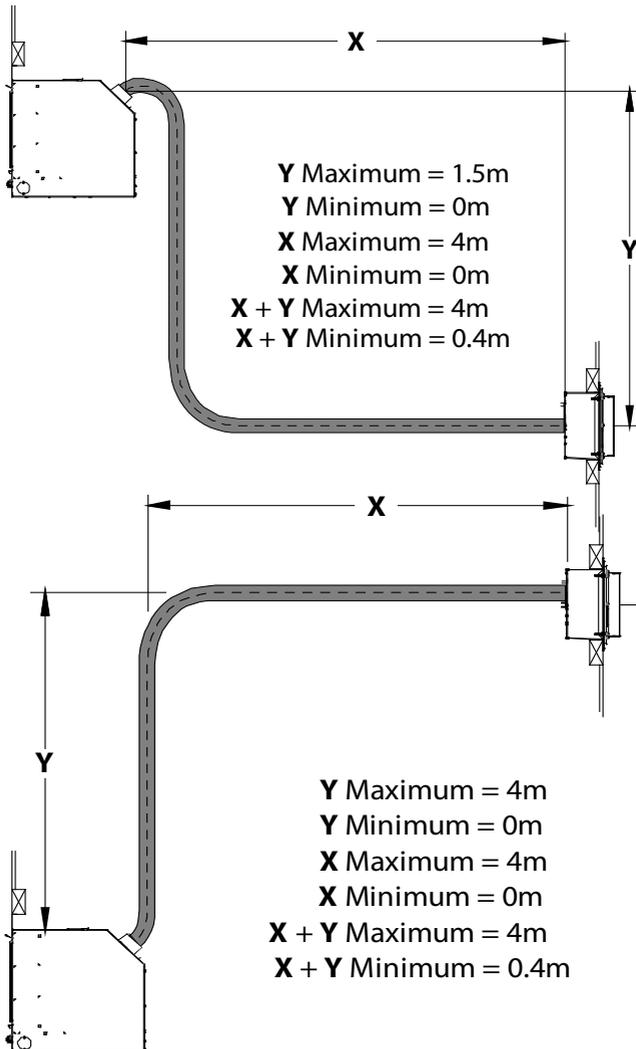
# C Installing the Flue

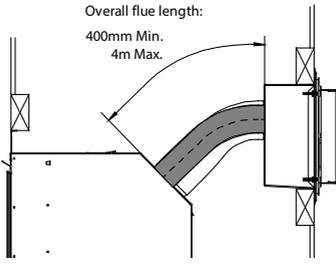
## C1 Flue Configuration (If less than 4m flue length is required)

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, up to 12m, see either section C2 on page 16 or C3 on page 17.

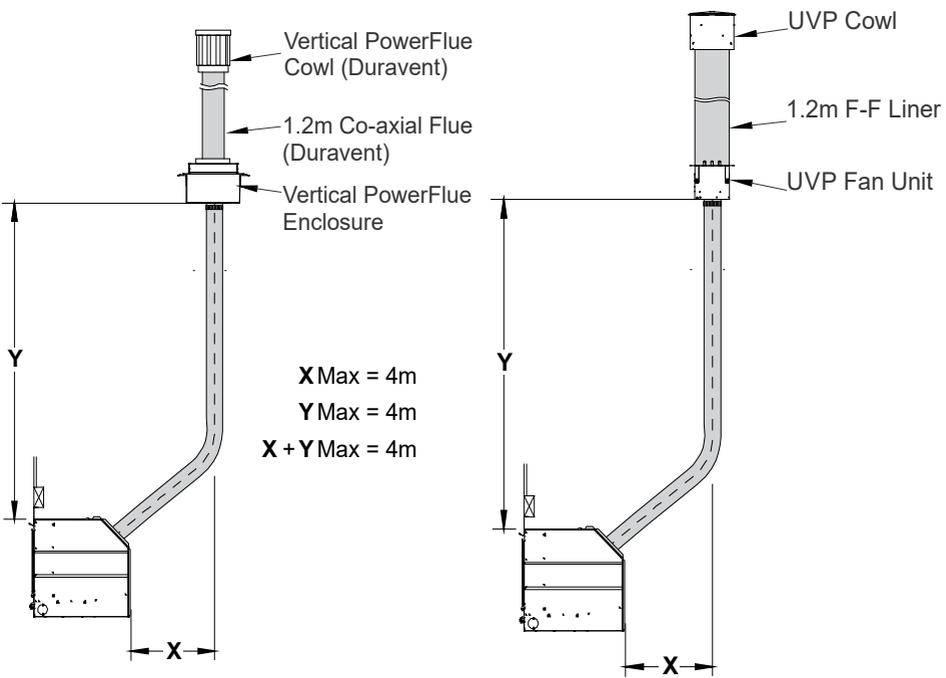
**Horizontally Terminated:** Utilises the Escea horizontal power flue enclosure kit.

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.





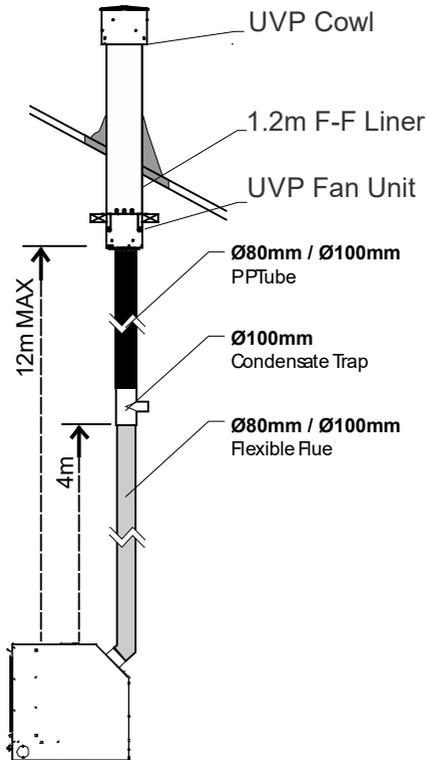
**Vertically Terminated:** Utilises the escea vertical power flue enclosure kit.



A  
B  
C  
D  
E  
F  
G  
SERVICE

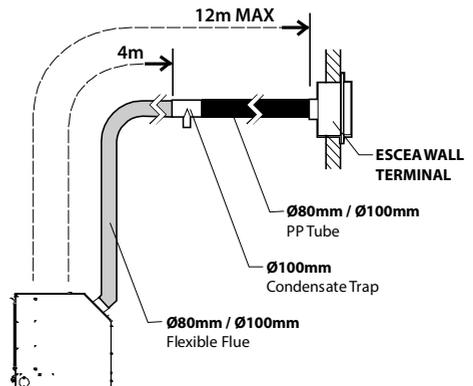
## C2 Flue Configuration (If more than 4m flue length is required)

If your flue system is greater than 4m long (as shown in diagrams below), then a flexible flue with condensate trap and rigid PP tube flue lengths is required.



FOR MORE INFORMATION ON  
INSTALLATION OF THE POLYPRO  
FLUE, SEE 'POLY PRO FLUE  
INSTALLATION INSTRUCTIONS'  
AVAILABLE ON:  
[WWW.ESCEA.COM](http://WWW.ESCEA.COM)  
OR SUPPLIED WITH THE FLUE.

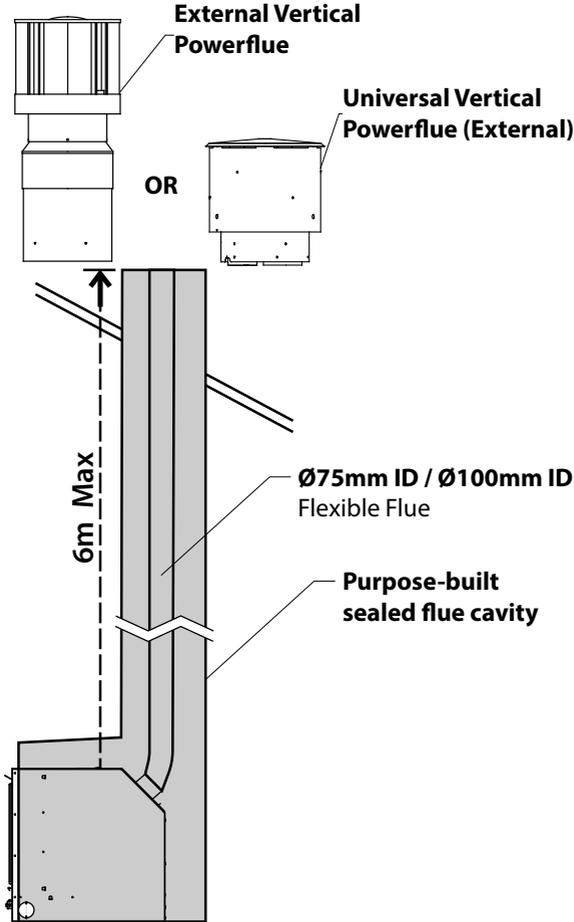
FOR POLY PRO COMPONENT GUIDES,  
THESE ARE AVAILABLE ON:  
[WWW.ESCEA.COM](http://WWW.ESCEA.COM)  
TITLED:  
HORIZONTAL FLUE COMPONENT  
GUIDE &  
VERTICAL FLUE COMPONENT  
GUIDE



### C3 Masonry vertical power flue kit (up to 6m)

Including, but not limited to, installations into: a complete masonry chimney, a flue liner, or a non-combustible 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. Only the universal vertical powerflue (UVP-External) kit can be used for this installation type.

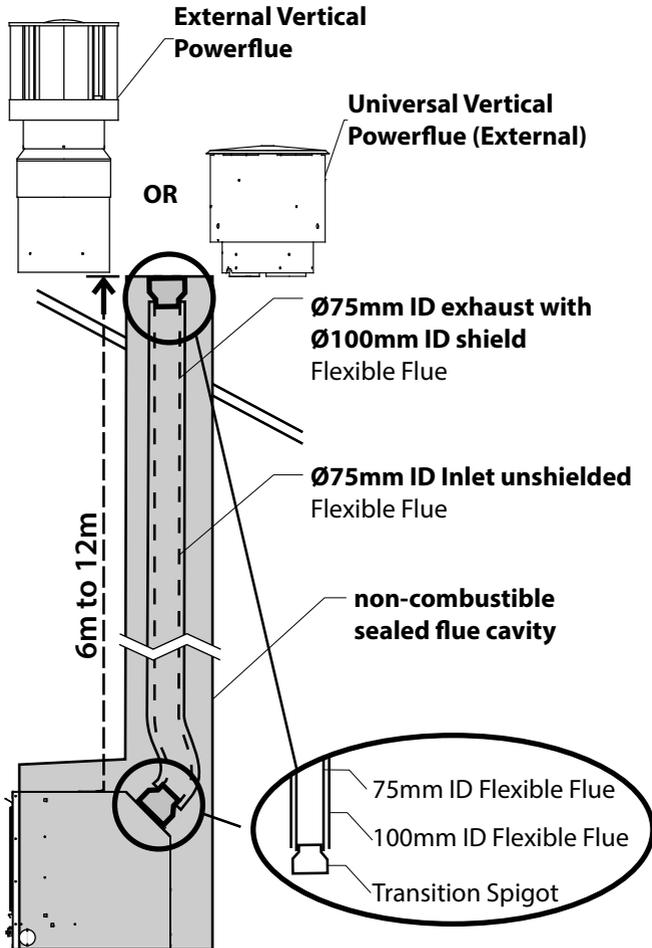


## C4 Masonry Vertical Powerflue Extension Kit (6 to 12m)

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

Note: this installation type cannot be used on a DFS730.

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 Powerflue (UVP-External) kit can be used for this installation type.



## C5 Installing the Horizontal Powerflue

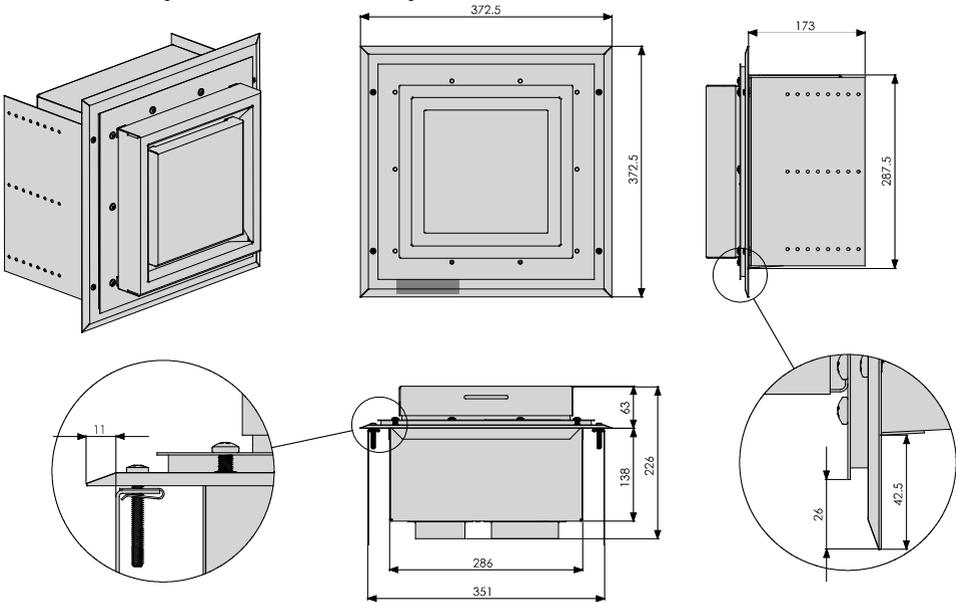
**NOTE:** The appliance is designed only to operate using the approved flexible or PolyPro flue supplied by Escea. Other brands of flue may not fit, and this will affect the appliance warranty.

The horizontal powerflue wall terminal must be installed in the correct orientation. This allows for the correct operation of the flue system and prevents the ingress of water.

The horizontal powerflue wall terminal must be weathertight when installation is complete to prevent damage to the dwelling. It must be installed by a suitably qualified person.

Fit the horizontal powerflue 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.

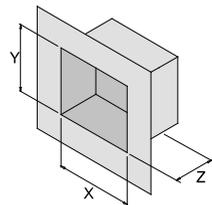
**NOTE:** It is the responsibility of the installer to ensure the horizontal powerflue wall terminal is installed to all relevant building codes to ensure weather tightness.



A

## Creating the Hole in the Outside Wall

When cutting the hole in the outside wall, be mindful of how the installation of the horizontal powerflue wall terminal will be finished; the installation must be weatherproof.



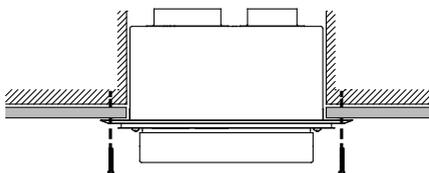
Ideal hole/cavity size for Horizontal Powerflue

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

B

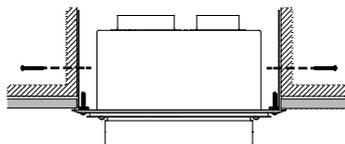
The horizontal powerflue wall terminal can be attached to the wall in two ways:

A) From the front of the terminal:



D

B) By attaching the optional wall terminal installation brackets to the sides of the cavity and attaching the horizontal powerflue wall terminal to these, from the front:



E

Attach the Ø100mm and Ø75mm flexible aluminium flues to the spigots on the rear of the horizontal powerflue wall terminal using the hose band clamps supplied. Plug the powerflue electrical cable into the back of the horizontal powerflue wall terminal.

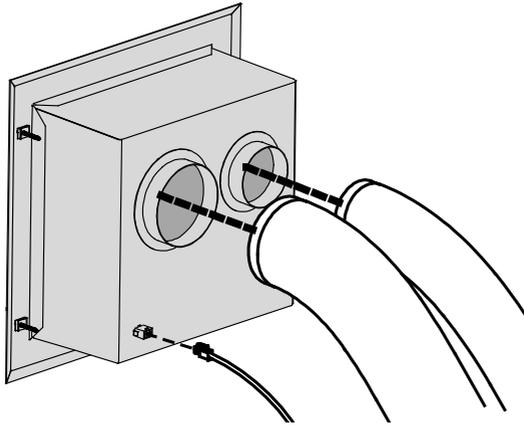
F

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

G

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

SERVICE



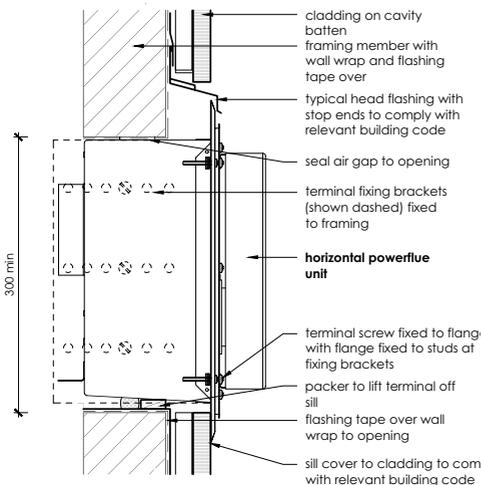
Fit the horizontal powerflue wall terminal into the hole and fix it in place, making sure the installation is sealed appropriately to prevent the ingress of water from outside the wall cladding.

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

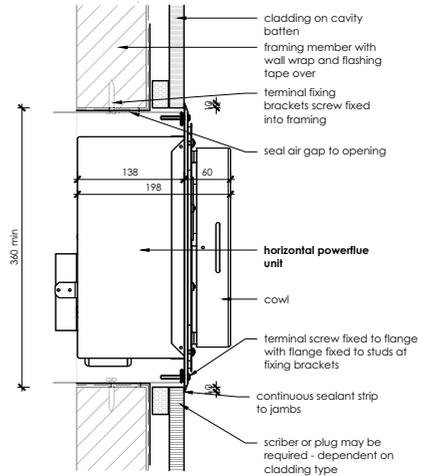
**IMPORTANT:** Ensure that flashings do not restrict the air intake slot around the periphery of the cowl.

### How to Flash the Horizontal Powerflue

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

## C6 Installing the Universal Vertical Powerflue (Internal Install)

**NOTE:** For information regarding an external install of the UVP, go to section C7 on page 24.

The Universal Vertical Powerflue (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 either section C1 on page 14 or C2 on page 16.

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.

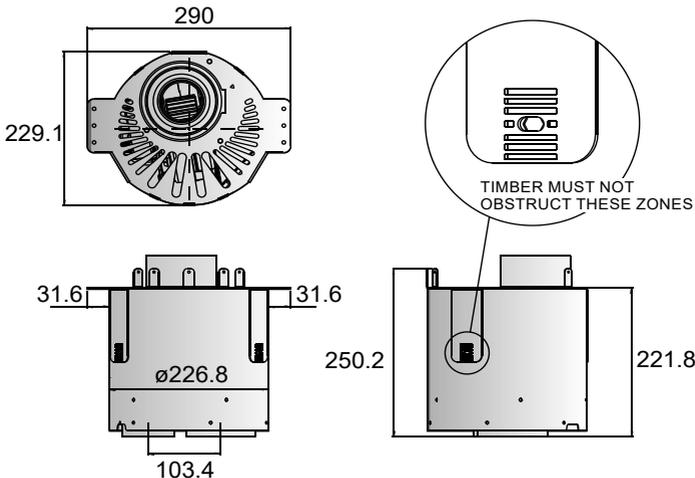
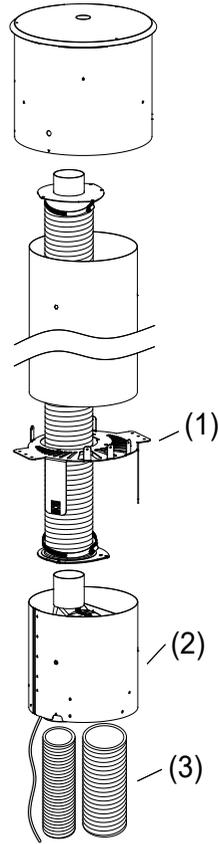
Mount the fan mount bracket (1) to the roof framing and strapping using timber ensuring that the flue is rigid and vertical. Ensure that the mounting timber does not obstruct access to the 3xM5 screw threads on the side of the fan unit.

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.

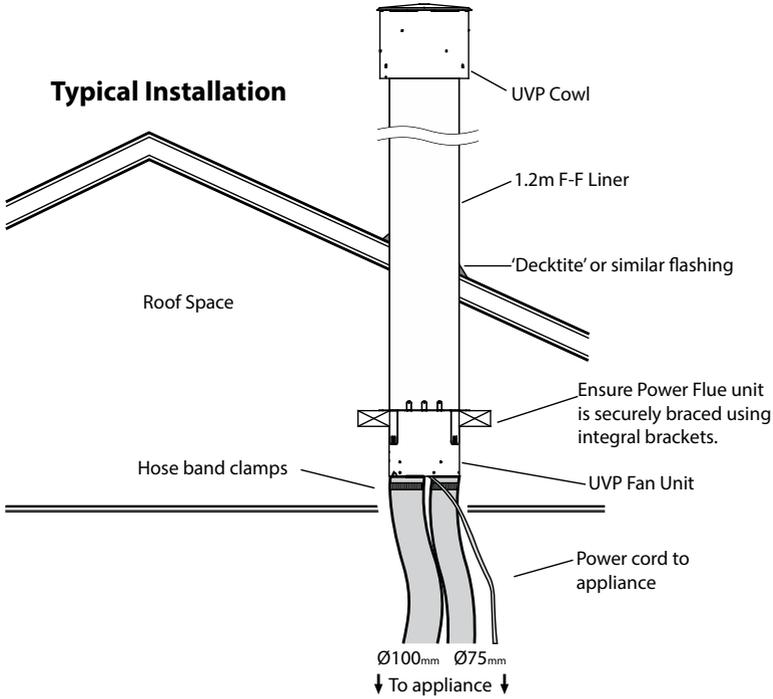
**NOTE:** The UVP-Internal and the flexi flue connections must be installed in a location accessible for service or replacement; a service hatch or removable flashing to allow access is required.

**NOTE:** When installing the unit onto a flue liner, ensure the length of flue liner above the roof is the minimum required length. **ENSURE** the Ø25mm restriction plate is installed on the inlet.



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.



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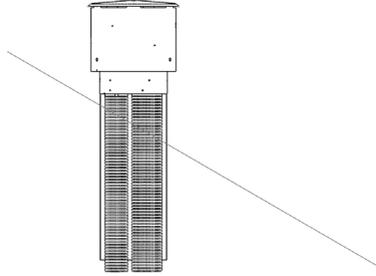
SERVICE

## C7 Installing the External Vertical Powerflue (UVP)

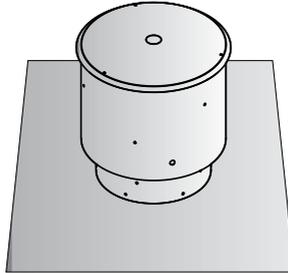
*NOTE: For information regarding an internal install of the UVP, go to section C6 on page 22.*

The UVP is designed to have the enclosure containing the fan unit mounted externally; 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 Ø25mm restriction plate is installed on the inlet.*



The cowl surround should be fixed in place as shown.



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. The flexi flue is held in place by drilling 3 holes and screwing 3 self tapping screws evenly around each hose band clamp (as shown in the picture below).



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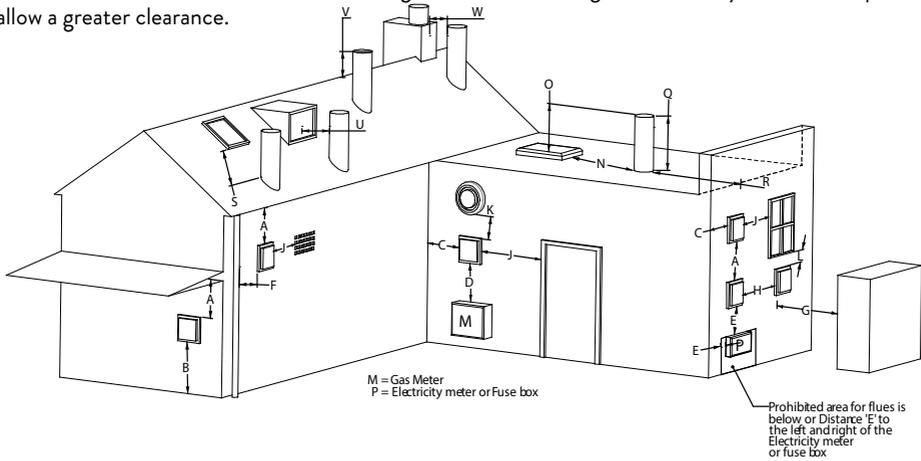
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SERVICE

## C8 Installing in Accordance with Relevant Codes

The location of the Horizontal Powerflue Wall Terminal must be installed in accordance with AS/NZS 5601 and any other relevant building codes. If possible, avoid installing the Horizontal Powerflue 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:

- 1) Should the flue not extend past the apex, the top of the flue should extend at least 400mm from the roof (or 500mm in regions with heavy snow).
- 2) The installation of a flue into a carport is not recommended.
- 3) The flue terminal will get very hot when in use. Precautions should be taken to protect people and animals from injury.

## C9 Running the Flue

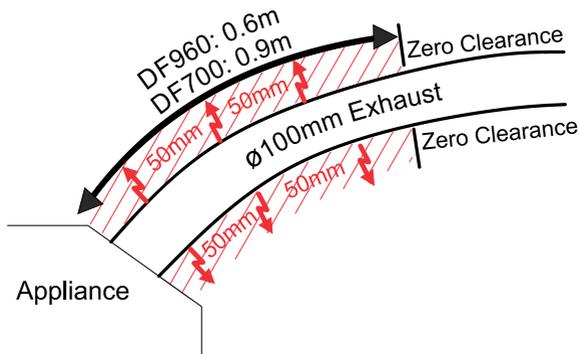
Use the following table to determine the exhaust flue clearances to combustibles:

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

Run the  $\varnothing 100\text{mm}$  ID and  $\varnothing 75\text{mm}$  ID ( $\varnothing 110\text{mm}$  OD and  $\varnothing 85\text{mm}$  OD) flexible aluminium hoses from the cavity to the rear of where the Horizontal or Vertical Powerflue 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 Powerflue Terminal. The flue should be expanded at each end in order for the flue to be attached to the fire / powerflue. 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.



**FOR MORE INFORMATION ON INSTALLATION OF THE POLYPRO FLUE, SEE 'POLY PRO FLUE INSTALLATION INSTRUCTIONS' AVAILABLE ON:  
WWW.ESCEA.COM  
OR SUPPLIED WITH THE FLUE.**

**FOR POLY PRO COMPONENT GUIDES, THESE ARE AVAILABLE ON:  
WWW.ESCEA.COM  
TITLED:  
HORIZONTAL FLUE COMPONENT GUIDE &  
VERTICAL FLUE COMPONENT GUIDE**

## **C10 Running the Powerflue Electrical Cable**

*Note: The Powerflue 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 powerflue 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 flues 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 powerflue wall terminal out from their installed positions.

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SERVICE

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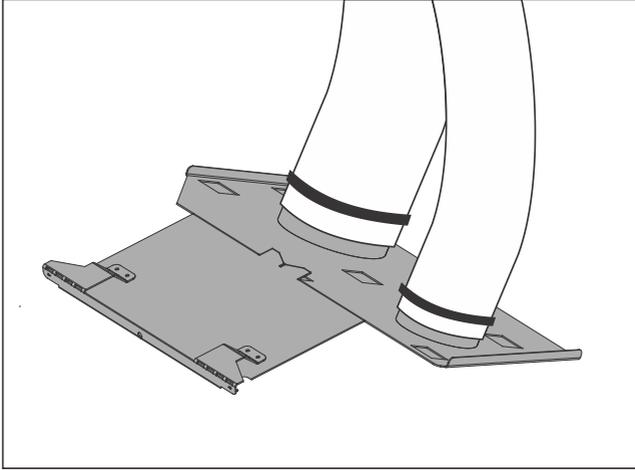
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SERVICE

## C11 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.



# 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.

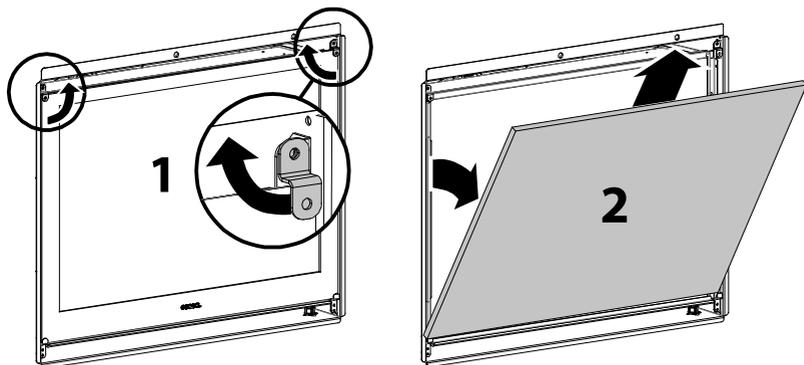
An electrical wiring diagram is located underneath the electronic tray, and also in the rear of this manual (Service section S12 on page 57).

## 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.

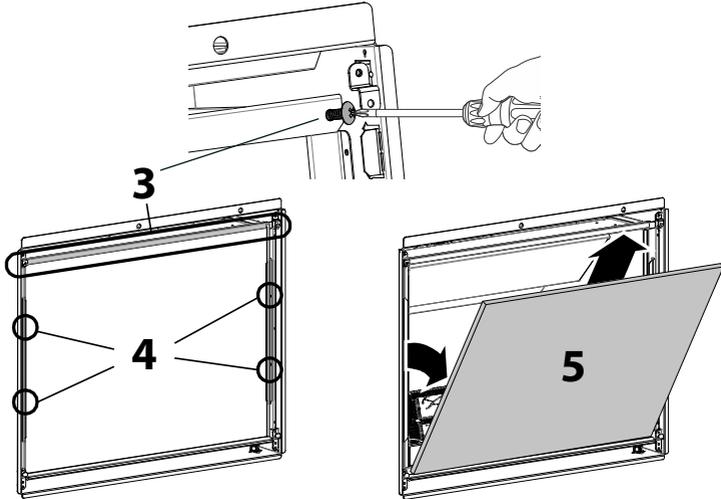
### Secondary Glass

1. Turn the upper glass brackets towards the centre of the fire to release the glass.
2. Pull the top of the glass toward you slightly, lift the glass out of the bottom glass retainer and carefully set glass aside.



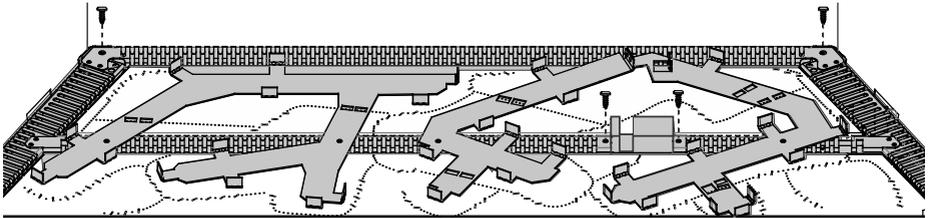
## Primary Glass

1. Remove both machine screws holding in the top bracket and slide forward.  
*NOTE: some fireplaces may have an aluminium extrusion instead which is not fixed with screws, that needs to be lifted up to remove.*
2. Remove the two screws in each of the two side brackets.
3. Pull the top of the glass toward you slightly, lift the glass out of the bottom glass retainer and carefully set glass aside.

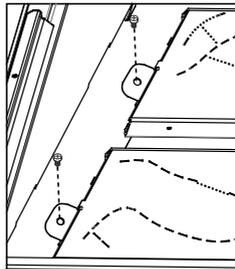


## D3 Removing the Burners

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.



Remove the 2 machine screws at the lefthand end of each burner. 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

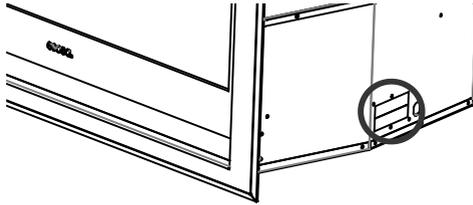
Gas pipe should be sized as per the requirements of AS/NZS 5601. The pipe sizing must be sufficient to deliver the following volume of gas to the heater with all other gas appliances in the home running at the same time:

**DF700 Gas Consumption = 25MJ/hr**

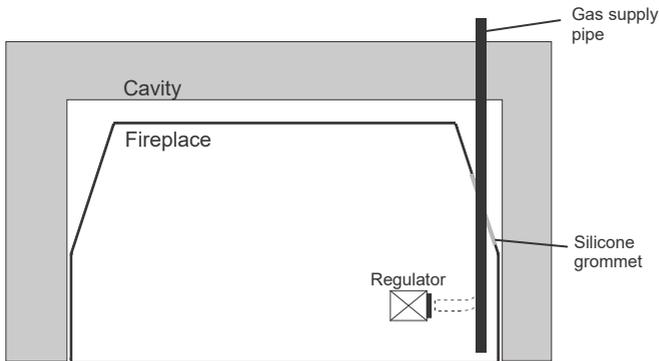
**DF960 Gas Consumption = 31MJ/hr**

#### 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 the fire will look like the diagram shown below.



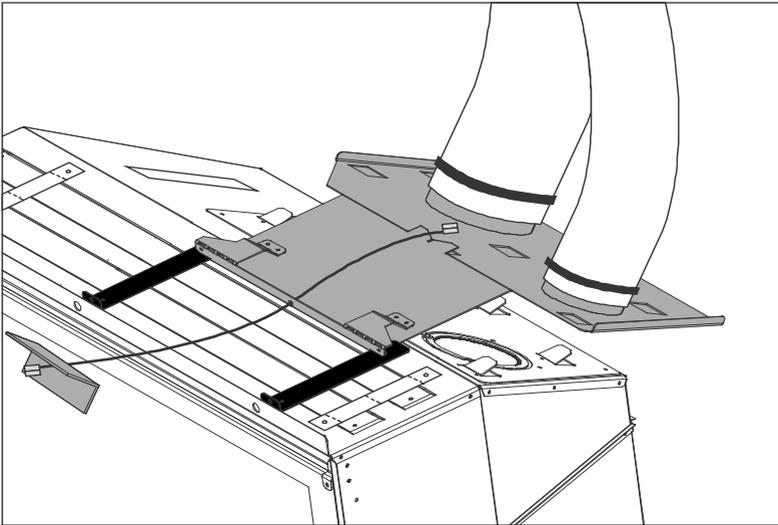
# E Installing The Appliance

## E1 Installation

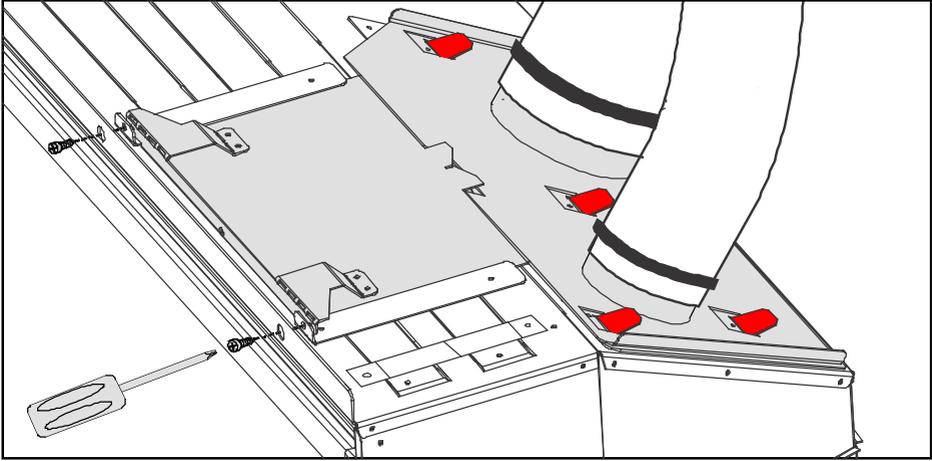
*NOTE: Ensure the wall has been correctly framed to the dimensions specified in section B1 on page 10 before starting the appliance install. The wall must be lined after the fire has been fitted into the cavity with the appliance electrical cord plugged into an outlet, carefully place the appliance in 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 31). 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 cable tool provided for pulling the flue spigot plate up the railing in a tight cavity. Use the tool as shown in the diagram below: with the cable threaded through the hole in the front face of the flue spigot plate, locate the end of the tool into the “V” in the center of the main fold in the flue spigot plate.



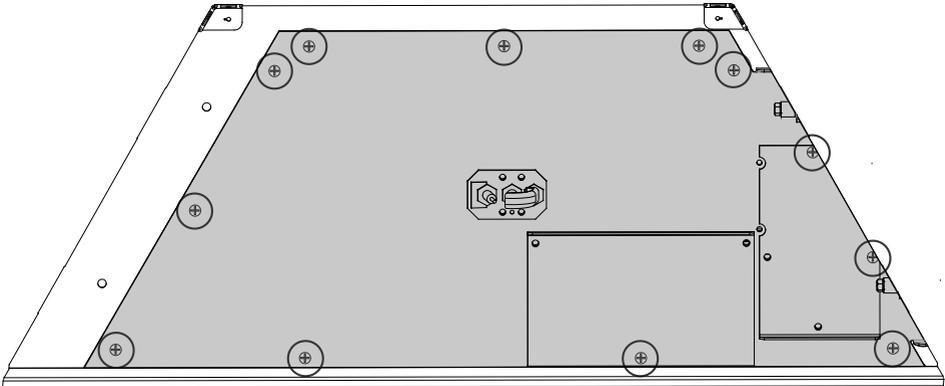
Make sure that all six of the fold up tabs (shaded in the diagram below) used for locating the flue spigot plate onto the chassis are poking through the flue spigot plate.



Insert the 2 long self tapping screws into the location shown in the diagram above to secure the flue spigot plate to the chassis.

### E3 Removing the Burner Tray

Remove the screws circled in the diagram below.



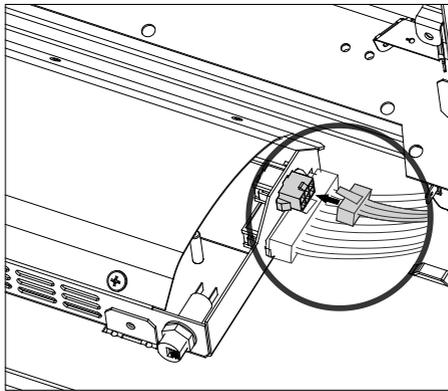
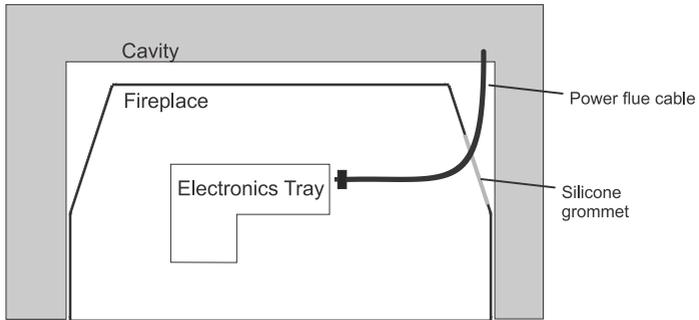
The lefthand side of the burner tray can now be carefully tilted and lifted out of the firebox slightly to detach the 2 ignition leads, 8-way teddington valve connector and the earth lead.

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SERVICE

## E4 Connecting the Powerflue Cable

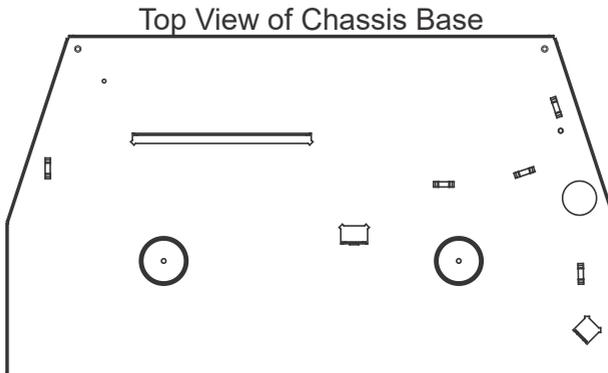
*NOTE: Make sure to turn off the power supply before connecting the powerflue cable. Feed the power flue cable through the silicone grommet on the lower RH side of the chassis and connect it to the terminal on the electronics tray shown in the diagram below.*

*NOTE: the burner tray must be removed to access the electronics tray as shown in section E3 on page 33.*



## E5 Fixing the Appliance to the Base

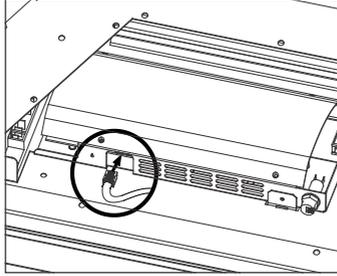
An appropriate fastening can be screwed down to the cavity base through the 2 circled holes in the diagram below. For Freestander installations, 2 machine screws will need to be removed from two rivnuts in the support base of the freestander and re-applied.



## E6 Network Cable

If the appliance is to be wired to a home automation system or internet router/network being installed then provision must be made for the network cable to get to the electronics tray. An opening in a silicone sheet in the rear bottom right hand corner is provided for the gas supply, powerflue cable, and network cable to pass through the chassis.

Plug the network cable into the electronics tray using the location below as a guide.



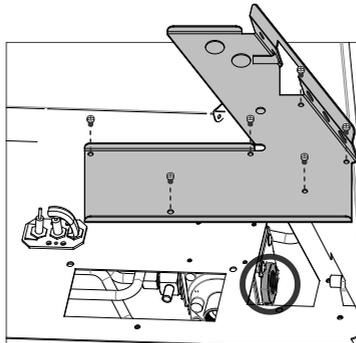
## E7 Connecting the Gas Pipe to the Regulator

**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 below). 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

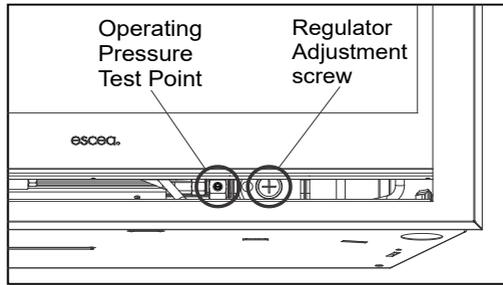
It is recommended that a gas isolating valve be installed as close to the regulator on the gas inlet side as possible with easy access if the fascia is removed. This will allow for easier servicing in the future.

## E9 Pressure Test Point

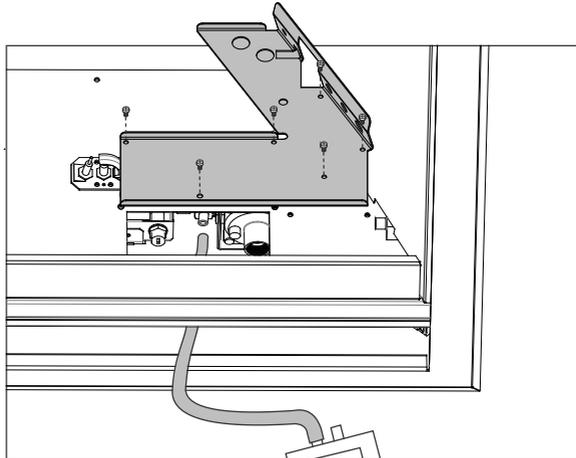
As per AS/NZS 5601, a pressure test point shall be provided by the installer prior to the inlet of the appliance.

## 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 below).



- 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 Converting the Appliance Gas Type

This appliance has been factory set to operate on Natural Gas only. To convert the appliance to operate on **propane or ULPG**, proceed as follows:

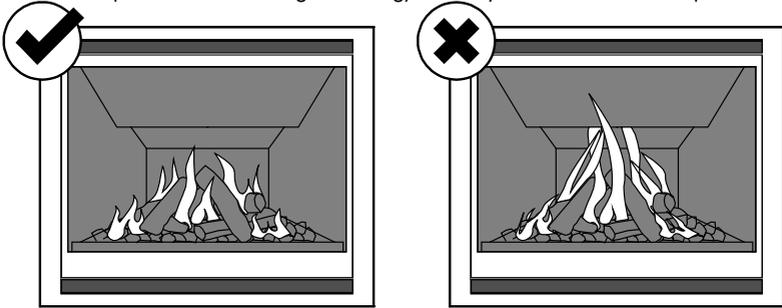
<b>DF700 ONLY</b>				
<b>Jets</b>	<b>Front Burner</b>	<b>Rear Burner</b>	<b>Aeration Collar (2x)</b>	<b>Pilot Jet</b>
<b>NG</b>	Ø 1.70 mm	Ø 1.40 mm	1 hole @ Ø 3.5mm	#42
<b>Propane</b>	Ø 1.05 mm	Ø 0.90 mm	No Collar	#27
<b>ULPG</b>	Ø 1.05 mm	Ø 0.85 mm	No Collar	#27

<b>DF960 ONLY</b>				
<b>Logs &amp; Flakes</b>				
<b>Jets</b>	<b>Front Burner</b>	<b>Rear Burner</b>	<b>Aeration Collar (2x)</b>	<b>Pilot Jet</b>
<b>NG</b>	Ø 1.85 mm	Ø 1.70 mm	1 holes @ Ø 4mm	#42
<b>Propane</b>	Ø 1.20 mm	Ø 1.05 mm	No Collar	#27
<b>ULPG</b>	Ø 1.10 mm	Ø 1.02 mm	No Collar	#27
<b>Coals</b>				
<b>Jets</b>	<b>Front Burner</b>	<b>Rear Burner</b>	<b>Aeration Collar (2x)</b>	<b>Pilot Jet</b>
<b>NG</b>	Ø 1.85 mm	Ø 1.70 mm	1 hole @ Ø 2.5mm	#42
<b>Propane</b>	Ø 1.20 mm	Ø 1.05 mm	No Collar	#27
<b>ULPG</b>	Ø 1.10 mm	Ø 1.02 mm	No Collar	#27

- Remove the front and rear burner jet and replace with the correct jet as stated in the above table.
- Remove the 4 screws securing the pilot assembly to the burner tray.
- Carefully lift the pilot assembly away from the burner tray to access and unscrew the pilot pipe nut. Slowly pull the pipe, nut and olive away from the pilot assembly to let the pilot jet down. Remove the existing pilot jet and replace with the jet supplied in the conversion kit. Tip: removing the test point hatch and guiding the pilot pipe up from below can make this process easier.
- Remove the left access hatch (shaded in the second diagram of section E9). Remove the regulator screw cap and screw out the nylon adjuster screw to remove the existing spring.
- Replace the current spring with the purple spring supplied in the conversion kit and refit the nylon adjuster screw.
- Refit the access hatch using one screw to hold it in place.
- Replace (or remove) the aeration collars using the table above.
- Refit the burners.
- Operate the fire with the glass off and adjust the operating pressure to 2.3kPa for Propane / ULPG by turning the nylon adjuster screw whilst the appliance is running on maximum.
- Turn the fire off and remove the burners and access hatch again to replace the metal regulator cap
- Adhere the Conversion label over the top of the Natural Gas data label on the appliance data plate.
- Refit the access panel (all screws), burners, infill and fuel bed.
- Adhere the 'Propane' or 'ULPG' label over the top of the existing Natural Gas label on the side of the appliance (if accessible).

## E12 Flame Picture

An abnormal flame picture 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. If an abnormal flame pattern is still present, please contact Escea.

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

## E13 Coal Fuelbed Installation

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

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

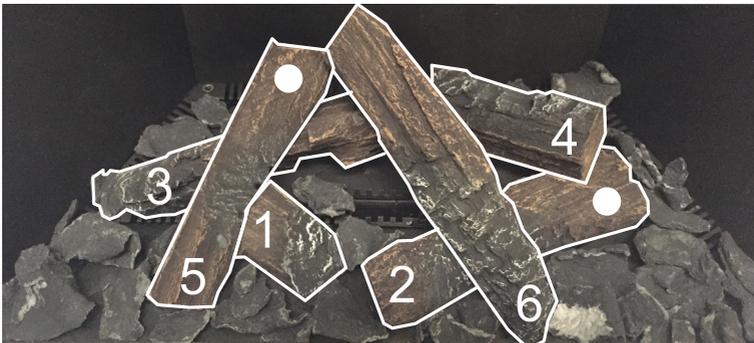


## E14 Log Fuelbed Installation

Place logs 1,2,3 and 4 down first locating them on the log retainer, followed by logs 5 and 6. The final layout should replicate the picture shown below. Place the ember flakes in a single layer evenly after the logs have been located correctly (excess flakes should NOT be added if one even layer has been achieved). The 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 Log Layout



## DF960 Log Layout



Use the index below as a guide for selecting the correct logs:



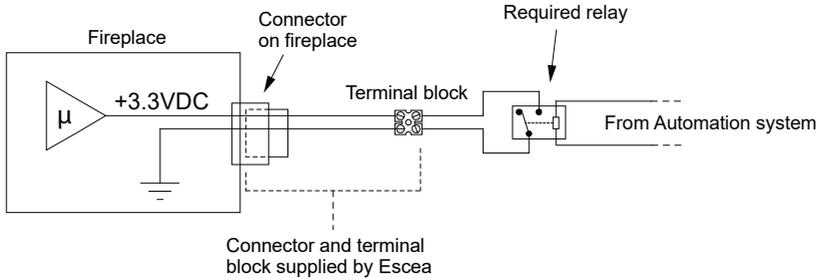
### E15 Installing the Glass

Refer to section D2 on page 29 and reverse the steps to reinstall the glass.

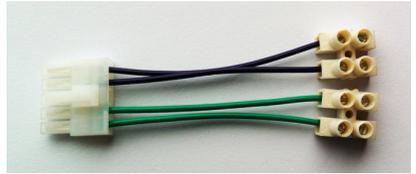
### E16 Home automation Setup

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 microcontroller 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 can be found in your fireplace accessory pack (shown right).



This connects to the fireplace via the lower RH outside panel of the fireplace, next to the primary network cable access point, as shown in section D2 on page 21.

## 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.*

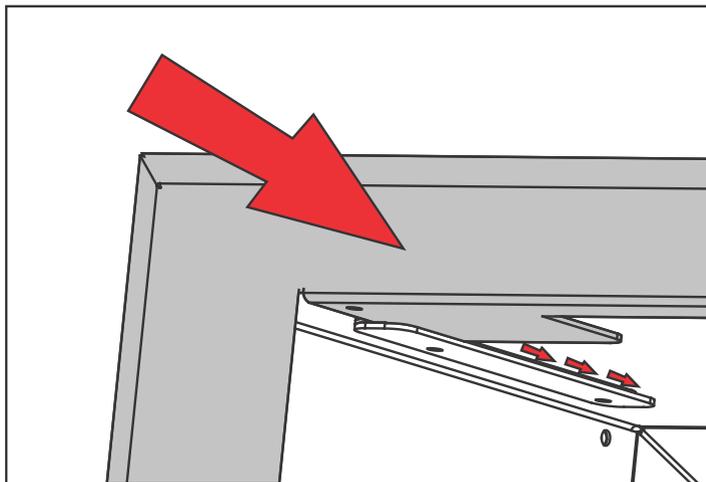
### Relay open

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.

# F Fitting the Fascia and Finishing Installation

## F1 Fitting the Fascia

Slide the top of the fascia (the side with two prongs facing away from the front face) into the fascia rails attached to the chassis in the two top corners. Push the bottom fascia lip above the chassis base. The fascia should 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
- Ideally 1.2m to 1.5m from the floor



The radio frequency signal will go through some walls but for best results Escea suggest that the cradle position is less than 10 metres away from the heater.

The best height off the ground to locate the cradle is about chest height. This gives a good average room temperature and easy access for the user.

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

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### F3 Operating the Appliance for the First Time

Remove the battery cover on the rear of the remote. Insert the new “AA” size batteries, paying attention to the polarity.

You should now see on the display of the remote the time showing “0:00”.

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

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

When the appliance has lit, set the room temperature by pressing the ‘plus’ or ‘minus’ button repeatedly until the display is showing the desired temperature. The remote will then revert back to the ‘current’ room temperature 30 seconds after making the change.

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.

Run the appliance again and check the operation of the thermostat by increasing and reducing the set temperature. Check the Flame Effect function and the Fan Boost functions work correctly.

For further operation instructions please refer to the User Guide.

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## 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

A deposit on the inside of the inner glass, caused by the starch in the logs, may appear as a build up after several uses. If this film is not removed, it will bake on and may become difficult to remove. When the inner and outer glass is cold, remove both and clean the inside of the inner glass with a non-abrasive cleaner.

**DO NOT ATTEMPT TO CLEAN THE GLASS WHILE IT IS HOT. NEVER OPERATE THE UNIT WITH THE GLASS REMOVED.**

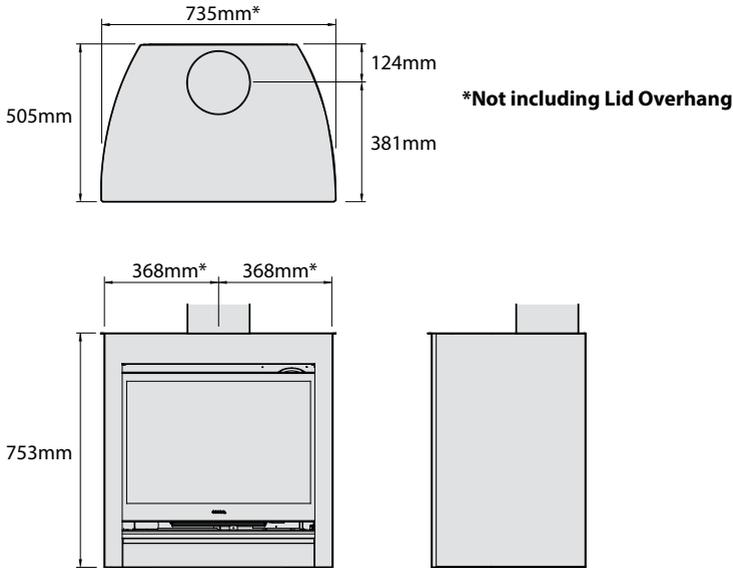
### END OF SECTION F

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



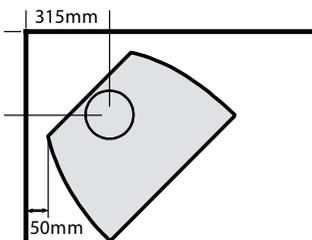
## G2 Hearth and Clearances

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.

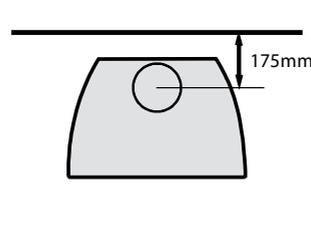
Do not place items or furnishings on top of the freestanding fireplace, and **ensure soft furnishings do not come in contact with the freestanding fireplace.**

## G3 Locating the DFS730

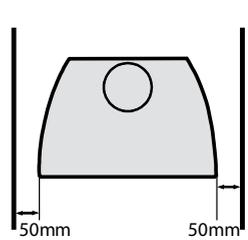
Corner installation minimum clearances



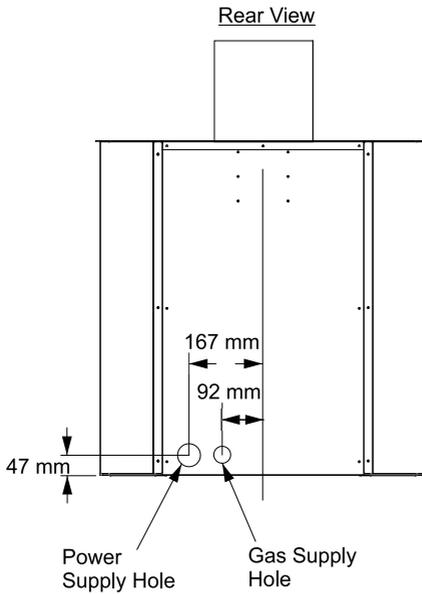
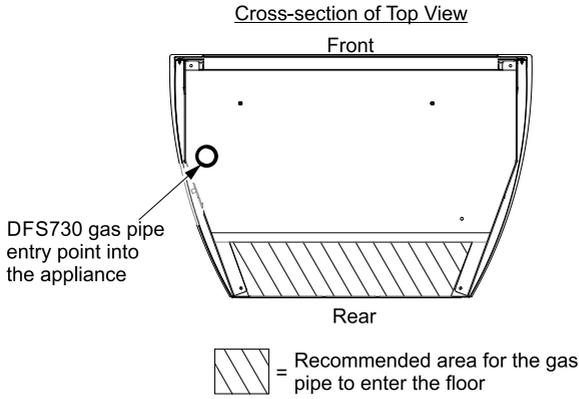
Wall installation minimum clearances



Side Wall Installation minimum clearances



## G4 Gas pipe Routing Information

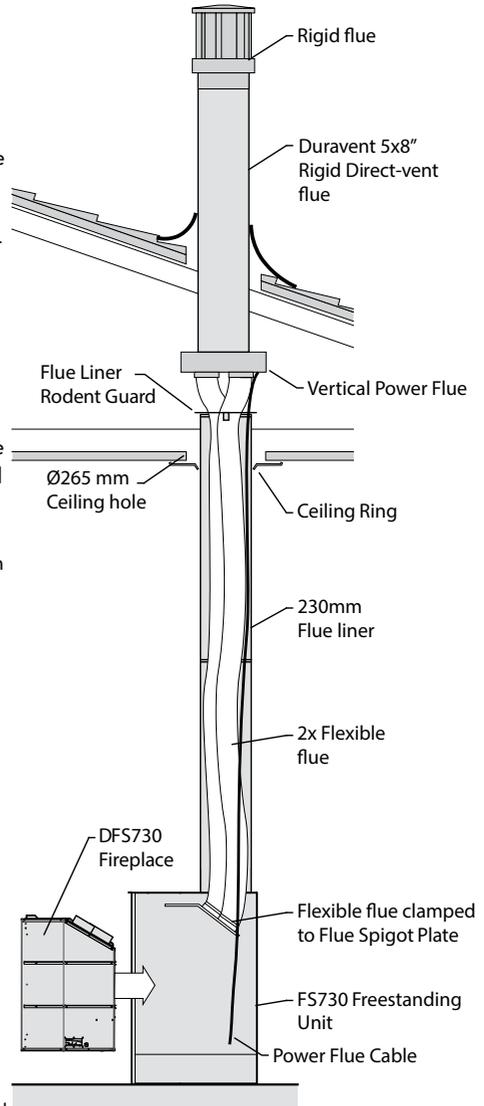


## G5 Flue Installation

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 47).

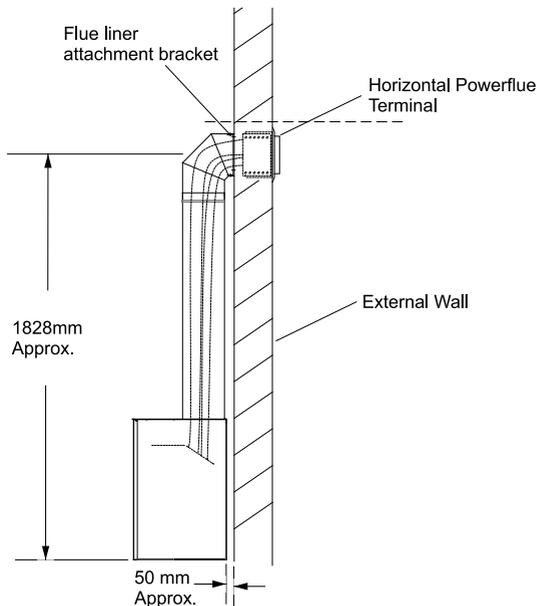
- Place the freestanding unit in the correct location, complying with the clearances specified in the previous section.
- Remove 2 screws on each side of the fascia just below the top panel and pull towards you to remove the fascia.
- Fix the DFS730 unit to the floor using the four securing holes in each corner of the unit.
- Refer to Section B3 on page 12 for flexi flue clearances.
- Refer to section C on page 14 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 unit 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 down through the Ø230mm flue liner and attach it to the Flue Spigot Plate as per section C on page 14 of this manual.
- Run the power flue cable down through the Ø230mm flue liner.
- Open the flue liner rodent guard and close around the flexi flue and power flue cable. Rivet, screw or cable tie the open end to prevent it from opening. Bend the two perpendicular tabs down and screw into the flue liner using a short self tapping screw. *NOTE: Take care when installing the rodent guard to not cause damage to the flexi flue or power flue cable.*

- Install flue termination as per section C on page 14 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.*

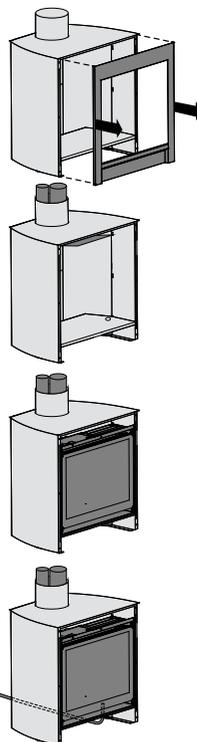


## G7 DF700 Fireplace Installation into DFS730 Freestanding Unit

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

*Note: for the Apartment Flue Kit, see the instructions provided with the kit.*

- Place the freestanding unit 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.
- Refer to section C on page 14 of this installation manual for minimum and maximum flue lengths, and all other flue information.
- Take the plastic grommet in the back panel out. Push the power cable through the hole in the rear, then push the grommet over the power cable and fix the grommet back to the back panel.
- Run the power flue cable through the silicone grommet on the RH side of the chassis and connect it as per section E4 on page 34.
- Install the DF700 fireplace into the freestanding unit while sliding on the flue spigot plate as per section E on page 32.
- Run gas piping to the front right of the fireplace as shown, where you will find a hole positioned so the gas pipe can run directly to the regulator and be connected as per section E on page 32.



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# H 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
- Powerflue cable connected correctly to the powerflue 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
- Warranty card filled in with installer details and appliance serial number
- User Guide made available for end user
- Plumbing Industry Commission Compliance Certificate given to end user

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## 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.
- **DO NOT MODIFY THIS APPLIANCE.**

## S1 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 remote in the form of a large letter “E” with a number 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.

Error Code	Suggestion action
 Electronics Over Temp	The electronics have gone over temperature. <ul style="list-style-type: none"> <li>• Check for excess lint and dust build-up on the PCB/Controller.</li> <li>• Ensure correct gaps are present around glass.</li> <li>• Room air fans may be slowed or stalled. Remove firebox, check that fans are plugged in, clean, and free turning.</li> </ul> <p><i>Note: This error has a permanent lock out and will require the unit to be reset after the initial error (turning the power to the fire off “at the wall” then on again after a few seconds).</i></p>
 Flame Failure or Power Flue trip	The fire has tried to light three times and failed. <ul style="list-style-type: none"> <li>• 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.</li> <li>• Check correct gas pressure to the appliance with all other appliances running.</li> <li>• Check the electrode placement in relation to the pilot flame. Ensure it is well enveloped in flame as per the diagram in the installation instructions. Ensure no small coals have dropped onto the ignition electrodes between the burners.</li> <li>• Ensure the electrode is not contacting any metalwork including the burners and has the correct air gap.</li> </ul>



Appliance Over  
Temperature  
Sensor Trip

- The bimetallic snap disk mounted on the exhaust collector box has tripped.
- Check that fans are plugged in, cleaned, and free turning - room air fans may be slowed or stalled.
  - Check the regulator - being set too high may result in excess heat build-up.
  - Check flues are securely connected at both ends - if the inlet flue is not connected the appliance may draw warm air from the cavity.
  - Check the jets



Valve Solenoid  
Check Failure

- The valve solenoids have failed the pre-ignition test. A wire may have dislodged or the valve solenoid is faulty.
- Check that the connections to each solenoid are secure and in place. 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.
  - Disconnect and reconnect the firebox connectors ensuring they are firmly pushed into place.
  - One of the solenoids on the valve inside the fire may have failed. If this is the case, the valve will need to be replaced.



Internal Remote  
Error

- The remote cannot communicate with the fire.
- Check if the fire is turned off "at the wall" i.e. a loss of power to the fire or the remote is outside of its effective radio frequency range (too far away from the fire). Typical remote range is 1m to 10m.
  - Ensure there is power to the fire by pressing the auxiliary on/off (red) button on the fire, then press the on/off button on the remote to clear the error.



Combustion Air  
Flow Error

- Check whether the pressure switch is activating at startup (there is an orange indicator LED in the control tray). If not, check that the pressure switch electrical connection is correct.
- Check that the 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 low pressure port and the translucent to the high pressure port
- Check that both flues are securely connected at both ends to the appliance and the powerflue wall terminal and that the flue is not damaged
- Check that the fan inside the powerflue wall terminal is running during startup. This fan may need servicing if it is slowed or stalled.

## S2 Serial Number

The serial number for the fire can be found in two places. The first is in the battery compartment of the remote under the batteries. The second is on the data sticker on the chassis under the firebox on the left hand side.

## S3 Checking Operating Pressure

See section E9 on page 35 of this manual.

## S4 Cleaning the Fascia

**NEVER RUB THE FASCIA.** The outside of the fascia's must only be cleaned with a clean damp cloth, dry off after cleaning. The high temp silver powder coating that is used on Escea fascia parts contains certain amounts of aluminium that when rubbed too hard will oxidise leaving a black smudge that cannot be removed. For stainless steel fascias we recommend the use of a soft cloth and soapy water. Always clean when cold.

## S5 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 41.*

- Refer to section D2 on page 29 for instructions on removing the glass.
- Clean the inside and outside of both pieces of glass with normal 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.

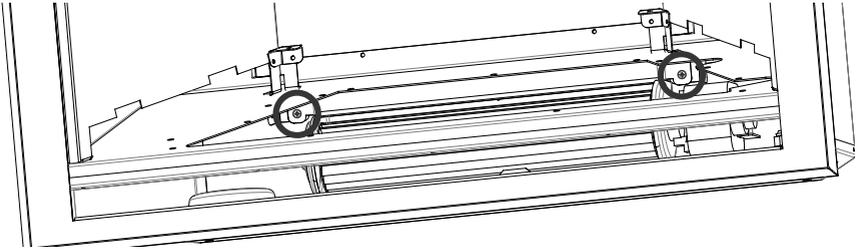
## S6 Removing or Cleaning Fan

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.

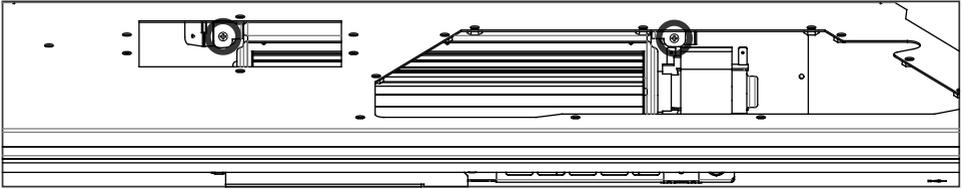
**ISOLATE THE POWER AND GAS SUPPLY TO THE FIRE BEFORE COMMENCING THIS PROCEEDURE.**

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 DF960 requires the LH access hatch to be removed in order to get to the LH screw) . 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

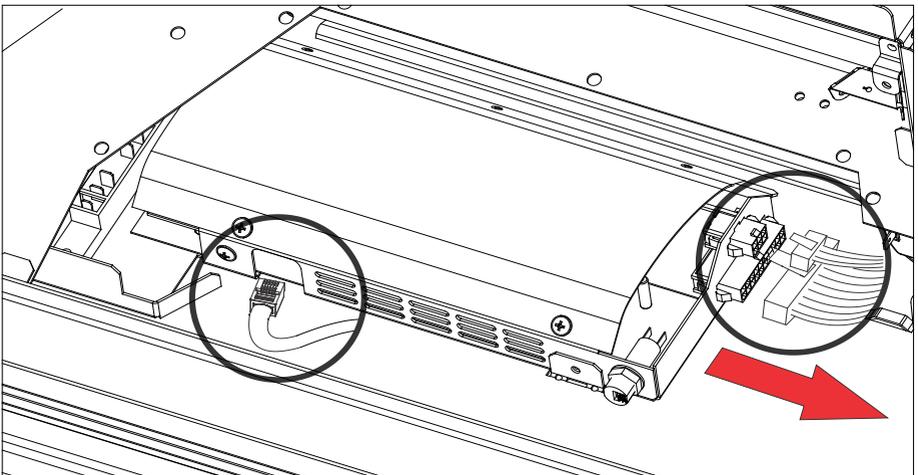


## S7 Removing Electronic Tray

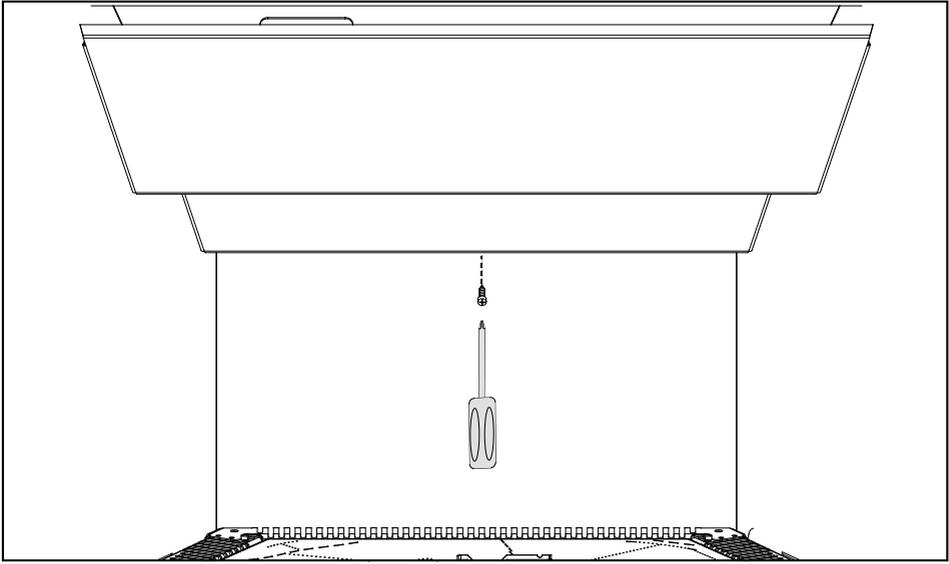
ISOLATE THE POWER TO THE FIRE BEFORE THIS PROCEDURE.

All of the electronic components of the heater have been located on a removable tray. Remove the 18-way connector & 6-way connector from the end of the tray, the network cable, if installed (both locations circled in diagram below) and the transformer connector located in the rear LH corner of the electronics tray.

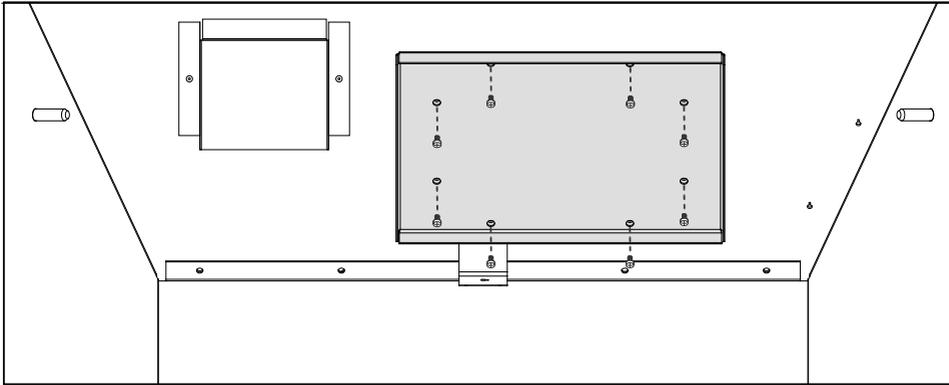
Remove one self tapping screw in the front face of the electronics tray. The tray can now be slid towards the RH side then lifted out of the burner tray hole in the firebox.



## S8 Replacing the Thermal Cut Out



Once the screw is removed from below the stepped firebox baffle, gently lift the baffle up and bring towards you. Remove the 8 machine screws in the access panel (as shown in the diagram below).



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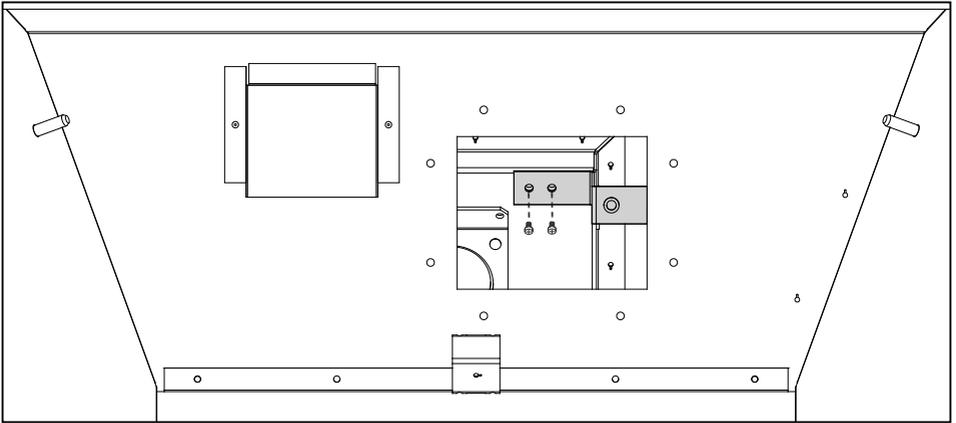
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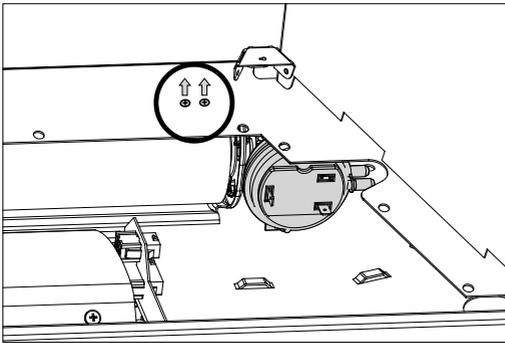
Remove the 2 machine screws from the TCO bracket (as shown in the diagram below)



Disconnect the two wires from the TCO and the bracket with the TCO may then be removed from the fire box for replacement.

### S9 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.

## S10 Replacing a Remote

If the wireless control becomes lost or damaged, a new one can be ordered from any Escea retail agent. When you have the new remote, the following procedure needs to be followed to “teach” the remote to only communicate with that fire.

1. Ensure the fire and remote are set to ‘OFF’ (only the time is displayed on the remote).

2. While the remote is in its ‘OFF’ mode with only the time showing on the display, press the MINUS, PLUS, and FAN BOOST buttons simultaneously (as shown right) until the characters “03” light up on the display. Release the buttons. The remote will count down and display “GO”. The screen will then display all characters and should be reading “00”. This will put the remote into test mode. *Note: if the digits start counting then the remote is already paired.*

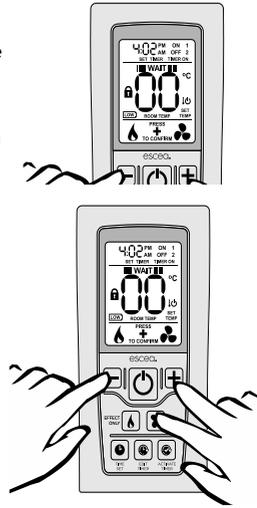
3. Press and hold the MINUS button until the two large temperature digits reading “00” start to flash slowly. Release the MINUS button. The remote control is now ready to be linked to the fire.

4. Press and hold the auxiliary on/off button on the fireplace for a minimum of ten seconds or until the two large temperature digits start counting upwards from 00 to 99 repeatedly.

*Note: Pressing the red auxiliary button on/off button will start the fire. Once the remote control is counting the fire can be turned off by pressing the red auxiliary button again.*

5. Press the large power button in the middle of the remote control to exit the test mode and return to normal operation. The remote should only be displaying the time. Check the fire will start using the remote control by pressing the large power button. Turn it off again using the remote control.

6. The fire is now linked to the remote control.



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## S11 Annual Service Procedure

- Isolate power and gas supply to fire.
- Remove front 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.
- Remove the control tray to give access to fan; brush and vacuum any dust build up from fan blades.
- Vacuum any dust from the cavity that houses the fan and from the underside of the fire box around the valve and solenoids.
- If the gas piping includes a flexible hose connected to the regulator, check the hose for signs of wear (discolouration, loss of flexibility, cuts, worn covers, cracks, crushing, kinking, flattening or loose end fittings) and replace if worn, or more than five years old.
- 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 and trial fan-boost, flame effect only and thermostat modes to ensure that all modes function correctly.

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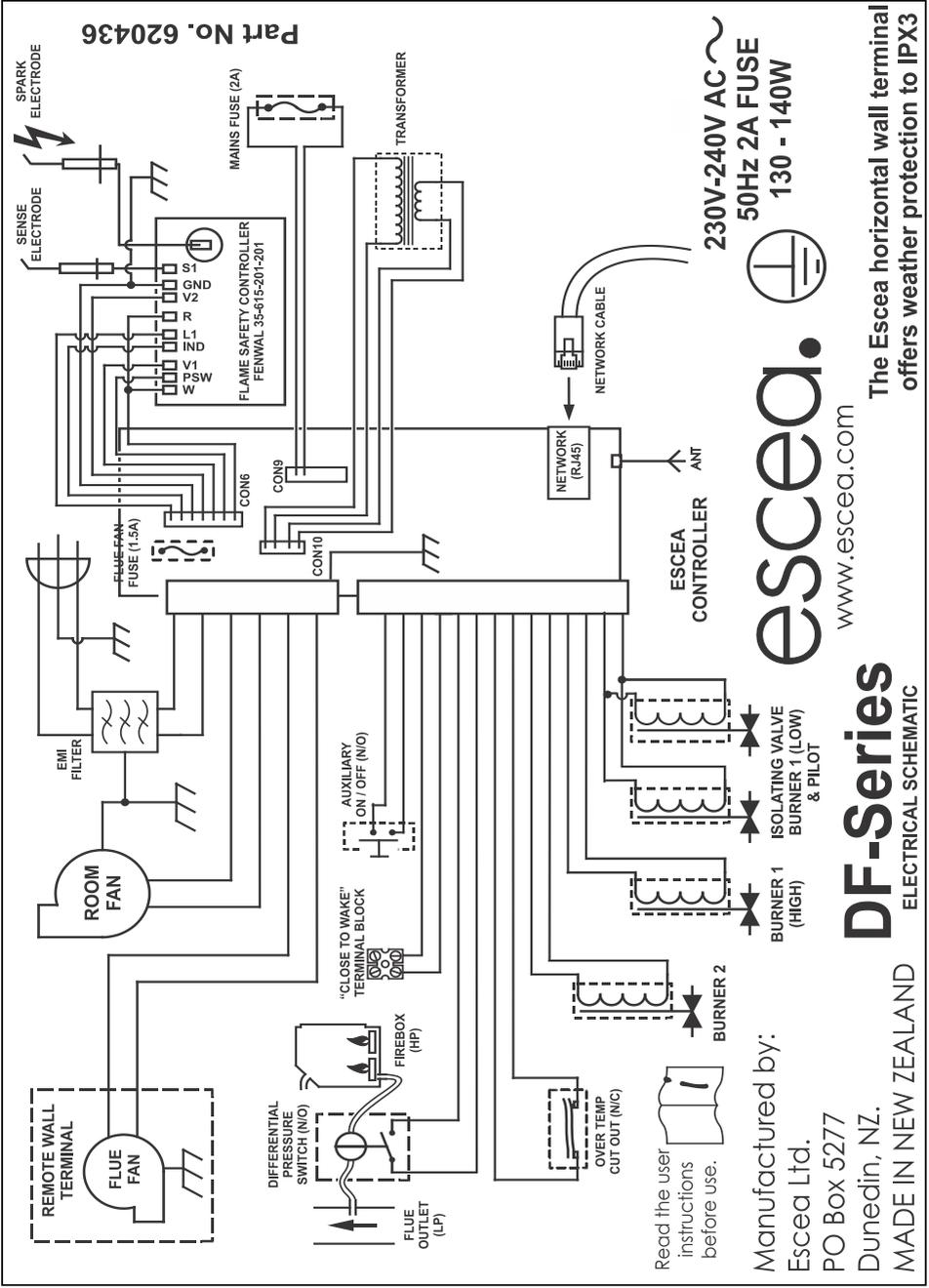
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Read the user instructions before use.

Manufactured by:  
 Escea Ltd.  
 PO Box 5277  
 Dunedin, NZ.  
 MADE IN NEW ZEALAND

230V-240V AC ~  
 50Hz 2A FUSE  
 130 - 140W



**escea.**  
 www.escea.com

**DF-Series**  
 ELECTRICAL SCHEMATIC

The Escea horizontal wall terminal offers weather protection to IPX3

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