

escea.

Installation / Service Guide

DX1500
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 5601:2010 Gas Installations

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.

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:

AUS: www.Escea.com.au info@Escea.com.au

NZ: www.Escea.co.nz info@Escea.co.nz

WARNING:

Failure to follow these instructions could cause a malfunction of this appliance, 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.

This appliance must not be modified.

THIS APPLIANCE MUST BE FITTED WITH AN ESCEA REMOTE ROOM AIR FAN AND SUITABLE RETURN AIR VENTILATION

THIS APPLIANCE MUST BE FITTED WITH AN ESCEA REMOTE FLUE FAN

THE TERMINAL MUST ALWAYS VENT DIRECTLY OUTDOORS

Who can install this product:

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

AUS: Certificate of Compliance

NZ: Energy Work Certificate

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 Escea Gas Fireplace Technician. It is recommended that recognised Escea Gas Fireplace Technicians are also used to carry out annual servicing requirements (particularly during the warranty period). For contact details of authorised Escea Gas Fireplace Technicians in your area, please contact the retailer from whom the appliance was purchased.

This appliance 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.

Once this appliance is installed it cannot be removed without disturbing the wall lining.

This DX1500 has been dispatched from the factory set as a single sided version. This can be converted into a double sided appliance by using the Double Sided Conversion Kit available from your Escea distributor. Conversion details are shown in Section E.

An electrician is required to install a 3pin power socket – Section C

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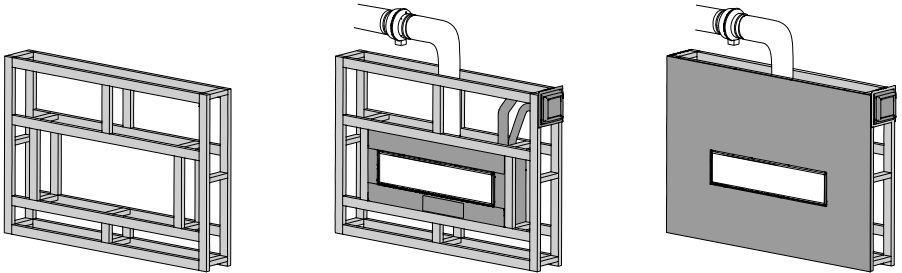
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A Installation Process and Product Description

A1 Recommended Installation Process:

The following diagram illustrates the steps required to install your gas fire, and the trades required at each stage.

The sequence in which you choose to do these tasks will vary depending on your individual installation. Please read these instructions carefully before proceeding with the installation. Leave the installation of the optional fascia panels until the very end of the installation and commissioning to avoid damage to the fascia panels.



Create the Cavity

Install electrical / gas connections, flue system, and fireplace

Finish installation and fit fascia

Section B

Section C, D

Section F

A2 Product Description

The Escea DX1500 gas fire is a direct vent (fan draught balanced flue), room sealed gas appliance designed to be built into a cavity. This appliance is flued using a co-linear flexible aluminium flue connected to a powerflue terminal.

The hot air from the gas fire is transferred to the room via ducting.

The user will control their fire with the Radio Frequency (RF) remote that will normally be left in its wall mount cradle. In addition to the RF remote it 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.

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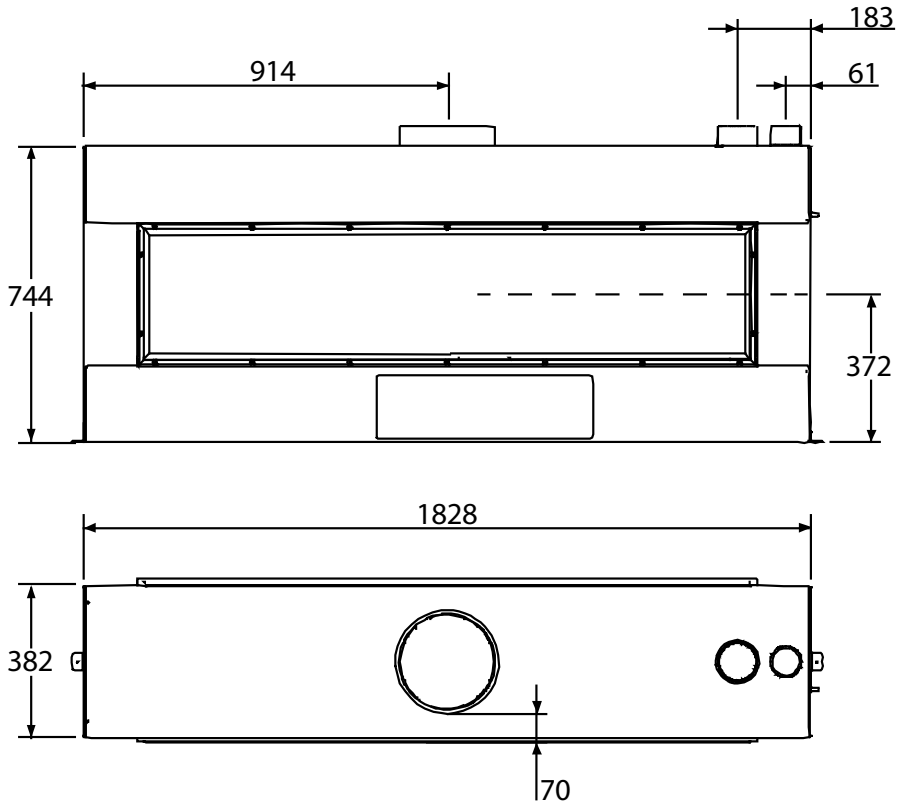
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SERVICE

A3 Product Dimensions

Product Dimensions

NOT TO BE MISTAKEN FOR CAVITY DIMENSIONS



B Creating the Cavity

B1 Cavity Shape

The DX1500 is suitable for timber framed cavities.

Most existing masonry cavities will not be suitable.

The cavity design & shape will be dependent on a number of things:

B2 Designing the Cavity

The following aspects must be considered when designing this installation:

- Appliance physical size
- Single sided or Double sided
- Wall finishing and interaction with appliance
- Positioning of appliance in regards to wall lining (depth into wall)
- Is a Fascia to be used? one side or two sides?
- Exhaust cowl aspect – horizontal / vertical and flue configuration
- Flue exhaust fan noise
- Exhaust cowl access for maintenance
- Duct layout and cavity spaces to run ducting
- Duct fan position
- Access to duct fan for maintenance
- Gas pipe layout
- Gas isolation valve / pressure test point position
- Electrical isolation switch
- Home automation network connections - Ethernet cable layout

**This DX1500 fire is to be installed prior to any wall lining.
The wall lining is the very last task to be completed in this installation.**

The cavity and wall linings may be constructed from standard timber framing materials and do not need to be non-combustible.

Do not line the top of the cavity.

It is not necessary to line the sides, or back of the cavity.

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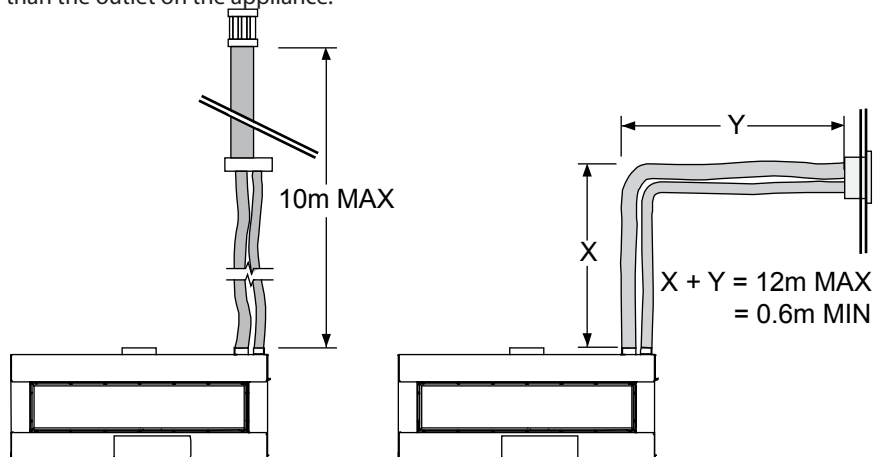
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B3 Flue Configuration

ONLY USE ESCEA APPROVED FLUE COMPONENTS

There are two basic types of flue configuration, using a vertical powerflue cowl, or a horizontal powerflue cowl. The horizontal offset of the terminal can be any amount up to the total flue length listed below. You cannot flue down, ie allow the terminal to be lower than the outlet on the appliance.



Note: You must provide sufficient access to the powerflue to enable it to be serviced in the future. This means that the fan unit must have sufficient access to allow it to be replaced if necessary.

The flue must be securely fixed and adequately supported by brackets fastened to the building structure at suitable points to ensure the stability of the flue system. Any joints within the flue system must be sealed adequately, with a sealing agent used if necessary. The flue system for the DX1500 is zero rated, so no spaces are required between the flue and any timber framing.

Horizontal Flue option

Minimum: 600mm flue length

Maximum: Total flue length 12m

Note: All sections of horizontal flue must be sloped back toward the fire at a rate of no less than 20mm per metre, to allow any condensation to run back into the appliance.

Vertical Flue option

Minimum: 600mm flue length

Maximum: Total flue length 10m

For flue installation, see section D

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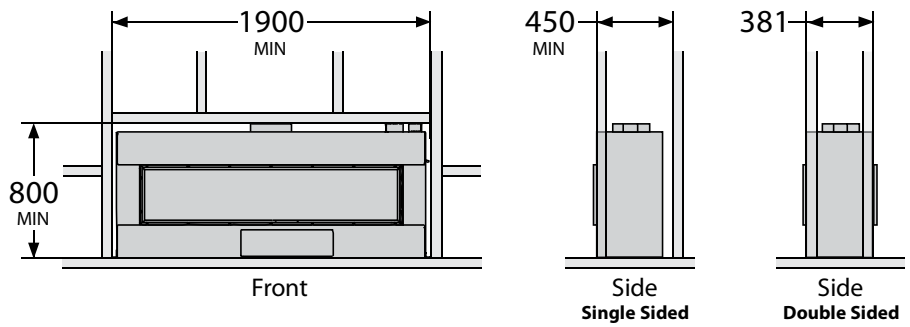
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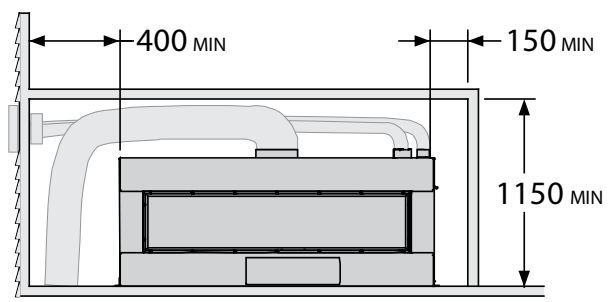
SERVICE

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B4 Framing Dimensions



Framing Dimensions - Bench top / Hutch style



B5 Cavity Base

This appliance **MUST** be fully supported on its base, over the entire area of the underside of the appliance. The base must also be level and strong enough to support the total product weight, which is approximately 120kg.

B6 Hearth

No hearth is required

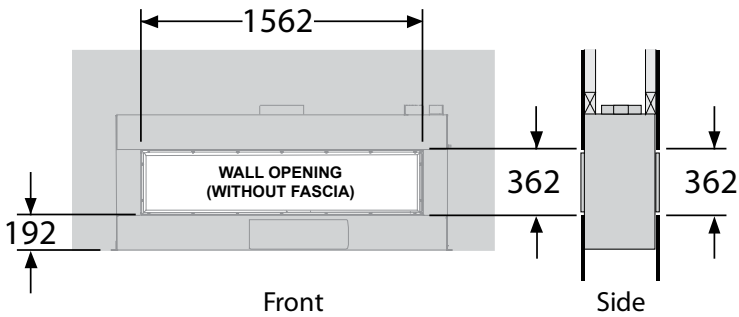
B7 Wall Linings

The appliance must be installed prior to and behind the finished wall surface. Take into account any plaster board, tiles or any other finishing surface that may be intended for the finished wall surface. Wall finishing materials must not encroach upon the minimum cavity clearances given in previous sections. The wall board that lines the outside of the opening can be normal plaster board and does not need to be non-combustible.

Note: The final wall lining must not encroach within the specified dimensions below. These dimensions indicate the opening required in any wall lining.

These dimensions are for DX1500 without fascia, if using a fascia then please check the following section of this manual for separate wall lining dimensions.

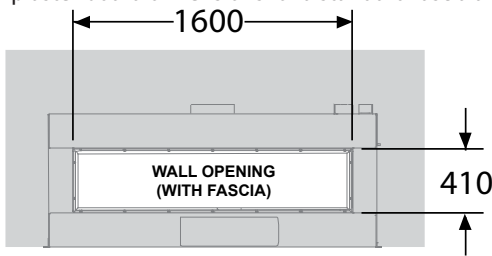
10 The Plasterboard is to protrude beyond framework as shown in the following diagram.



Note: The wall lining directly above the appliance will 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 and avoid materials with temperature ratings less than 80deg C.

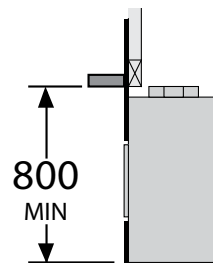
B8 Fascia

Please check the fascia package for special instructions for individual fascia types. The finished plaster board dimensions for a standard fascia are:



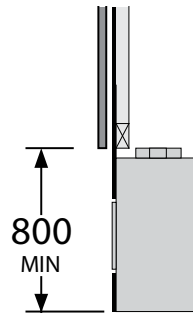
B9 Mantle Clearance

Please refer to the diagram. Mantles or protruding ledges above the heater must not be installed lower than of the dimension shown. Note dimension from base of appliance.



B10 Television Clearances

The following are the recommended minimum clearances for the location of any electrical equipment (such as a Plasma TV, LCD TV or home theatre system) above an Escea DX Series gas fire. Use either a shelf or mantle below your TV screen or alternatively you can construct a recess to mount your TV screen into.



Note: The above 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 above installation suggestion will be suitable for all electrical or home entertainment appliances.



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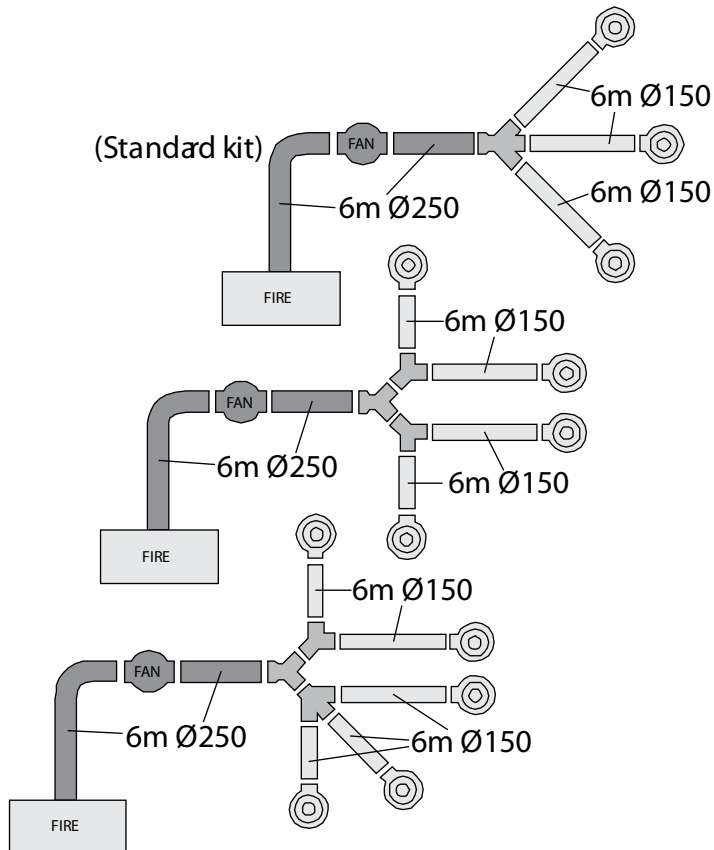
B11 Ducting

This gas fire requires a small network of ducting situated either in the ceiling or under the floor to distribute the heat generated by this fireplace.

The DX1500 has been supplied with an inline centrifugal room air fan that draws air from the room, through the gas fire appliance then pushes the warmed air back into the same room through at least 2 duct outlets and an optional one into a hallway. **Do not put any of these duct outlets into bedrooms. All but one of these duct outlets must be installed into the same room as the appliance.** The one other duct can be installed into an adjoining hallway only. Failure to follow these instructions could cause serious harm to persons or appliance.

This fan is powered via a connection to the main appliance. This appliance has been supplied with a standard duct kit that will allow 3 x 150mm outlets - You can use your own ductwork and outlets, but you must ensure they are rated to temperatures of at least 90 degrees Celsius.

This heater will operate with any of the following ducting options:



All duct lengths shown are maximum recommendations.

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Ductwork must be adequately sized to avoid excess backpressures. Inadequate duct sizes will cause unnecessary fan noise and premature fan failure.

We recommend removing the close flaps from all but one of the duct outlets to prevent unnecessary back pressure.

A minimum number of 2 outlets must remain fully open at all times during operation. Fan noise will increase as back pressure increases with fewer outlets open.

Note: If duct backpressure is too great, the appliance will shut down due to overheating.

This ducting fan will generate mechanical noise. It must be installed in a position where noise will not interfere with daily activities. We recommend installing the fan within a garage roof space for example. All air ducts will make noise no matter how well the system is designed. Increasing the diameter and number of outlets is the best strategy to reduce this noise.

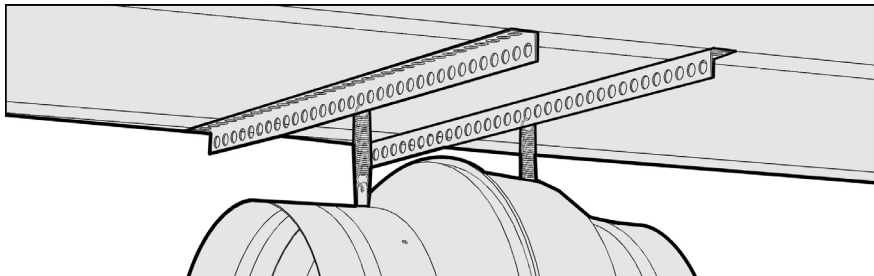
Because these ducts will act as sound tubes that amplify the sound of the fan, you may consider installing air duct silencers. A variety of these products are available from your local building supplier and can easily be installed with this system. We also recommend using sound absorbing materials for lining your walls, ducts and fan. Insulating the duct system will also help with total efficiency.

- Check with your local council to choose the correct R-value duct.
- Ductwork should be as short as possible while maintaining smooth flowing bends.
- Ductwork and outlet registers must be adequately supported
- All outlet registers must be fully open and free from obstruction.
- Ductwork must not be crushed or exposed to heat sources.
- Ensure ducting and flue pipes are separated and tied back, so to never touch.
- Failure to follow this may cause failure of ductwork, and void the warranty.

B12 Duct Fan mounting

Using the 2x spring mounts supplied, the duct fan should be installed in a hanging position as per the drawing below. You must use the spring mounts as this will help decrease noise by not transferring vibration into the walls.

We suggest using the likes of “builders strapping” or similar as shown to hang the springs from.



Run the electrical cable from the duct fan to the cavity where the appliance will be installed. Ensure the cable is not draped over or in contact with the outer shell of the appliance or either of the flexi flue tubes and kept clear from any other possible heat sources. Fix it appropriately and allow enough cable loop to prevent tension on the cable plugs.

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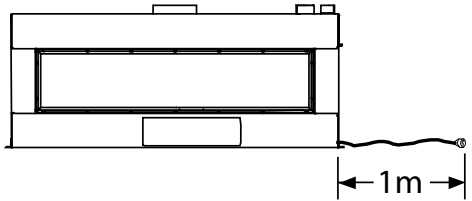
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C Installing the Electricity and Gas to the Appliance

C1 Power Supply

While the cavity is being created consideration should be given to appropriate location of a standard 3 pin, EARTHED 230/240V power outlet. This must be within 1.0m of the bottom right of the appliance.



IMPORTANT: Locating the power outlet within the cavity makes the installation very neat but provision **MUST** be made to be able to switch the power supply off and on (electrical isolation switch) and **MUST** be accessible after the heater has been installed. This is normally done by means of a separate switch located outside of the cavity and wired to the plug. This will allow technicians to isolate the power supply before servicing the appliance.

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.

C2 Network Cable

If the appliance is to be wired to a home automation system or a wired internet router/network connection is being installed, then provision must be made for the network cable to get to the control tray. Run the network cable to the bottom right side of the cavity and allow enough spare cable to reach to the other side of the cavity (2 metres).

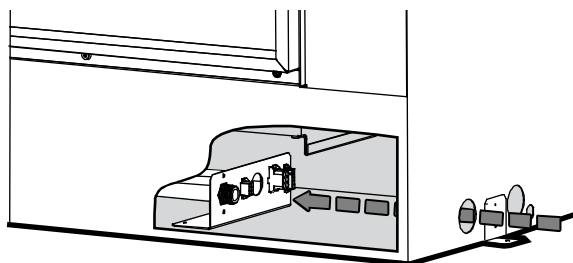
C3 Gas Pipe Sizing

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:

DX1500 Gas Consumption = 42MJ/hr

C4 Gas Pipe Position

The gas connection is inside the appliance and is ½" male BSP on the lower right of the appliance as shown. Access is through the bottom of the firebox.



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C5 Gas Isolating Valve

A gas isolating valve must be installed in the gas line as close to the appliance as possible. Fix it in a convenient position to allow it to be closed off quickly and easily during normal operation. Take into consideration access to this valve once the wall linings are on. This will also allow for easier servicing in the future.

C6 Pressure Test Point

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

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END OF SECTION C

By the end of this section, you should have:

- An unlined cavity with 230/240V AC supply that the appliance can be plugged into
- An electrical isolating switch that is accessible once the appliance is installed
- A suitably sized gas supply to the right hand side of the appliance with a pressure test point, ready to be connected once installed
- Network cable installed, ready for plugging into appliance, regardless of being connected to internet router/network or not

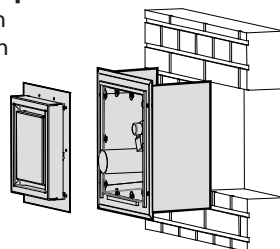
D Installing the Flue

Note: The appliance is designed to operate using the approved flexible flue supplied by Escea. Using other brands of flue may affect the appliance warranty.

D1 Installing the Horizontal Powerflue Wall Terminal option

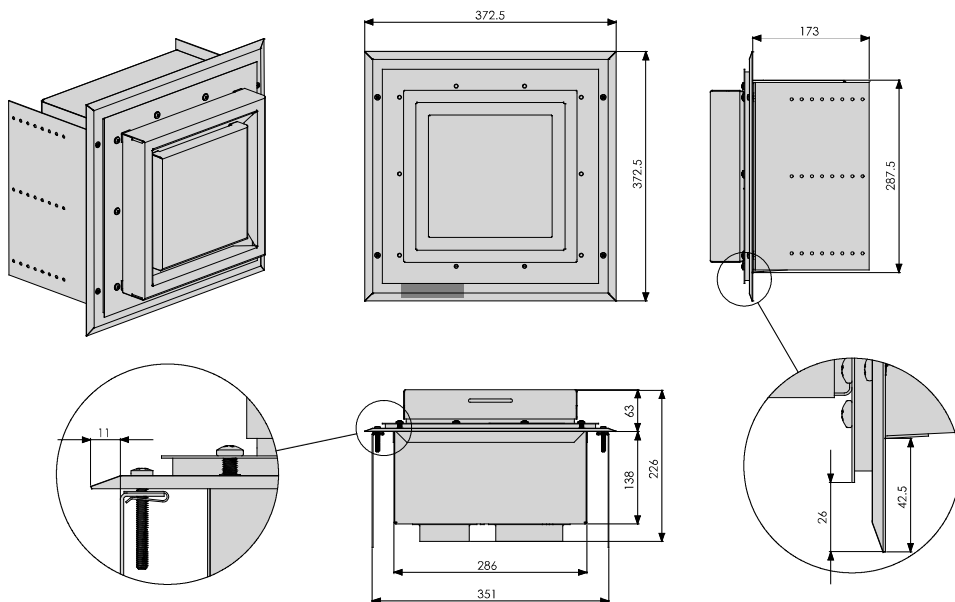
The Horizontal Powerflue Wall Terminal must be installed in the correct orientation. This allows for the correct operation of the flue system and prevents the ingress of water.

The Horizontal Powerflue Wall Terminal must be weather-tight 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 that the terminal should be fitted.

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.



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D2 Installing the Vertical Powerflue Roof Terminal option

The vertical flue option is designed to have the box containing the fan and electricals mounted within the roof space of the house, and the vertical 200mm diameter twin wall flue penetrate through the roof. The standard kit comes with 1.2m of twin wall flue (post fan), but you can add as much as you require to achieve the desired installation. Note total combined maximum vertical flue must be less than 10metres.

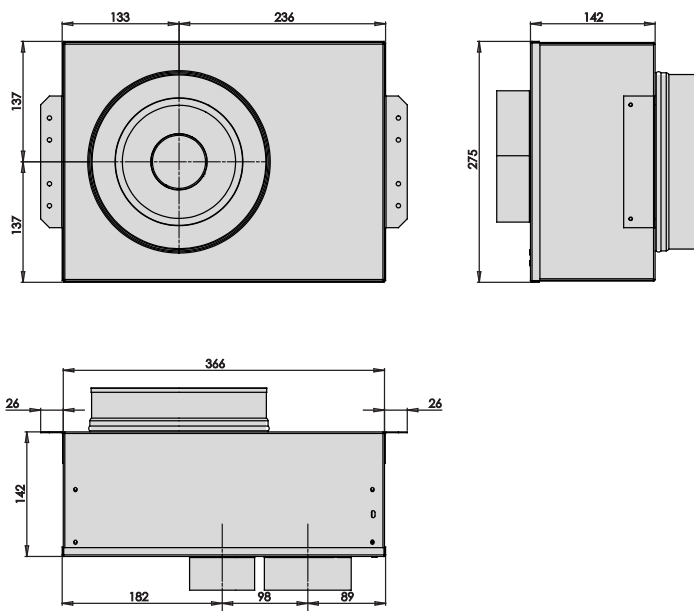
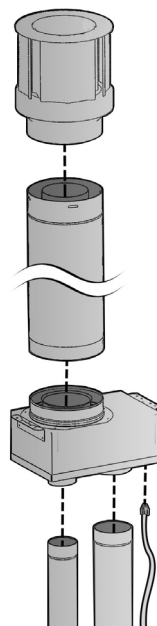
Use standard methods to flash the roof penetration, the installation must be weather proof and conform to all local council standards including powered flue roof termination rules.

The cowl surround should be fixed in place as shown

Mount the fan assembly box to roof framing using timber or builders strapping, ensuring the flue is vertical and rigidly mounted.

Aim to have the fan box 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 box to have access to fit the flexi-flue tubes and to allow flowing bends if required.



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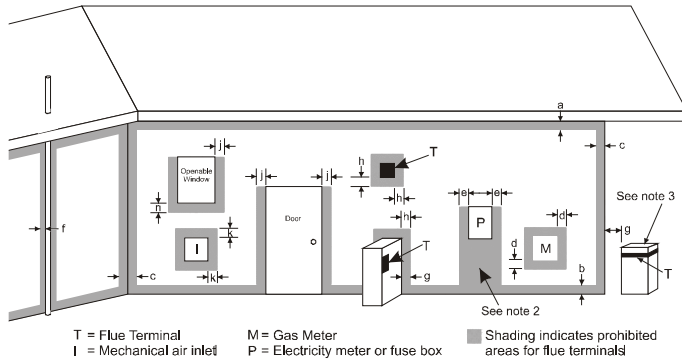
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D3 Installing in Accordance with Relevant Codes

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

Some of those 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.



NOTE - For clearances and notes see table 16 on next page

Figure 6.2- Minimum clearances required for balanced flue terminals, fan-assisted flue terminals, room-sealed gas appliance terminals or the terminals of outdoor gas appliances

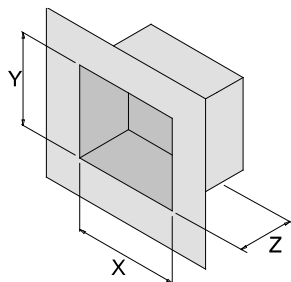
| | | |
|---|---|--------|
| A | Below eaves, balconies and other projections | 200mm |
| B | From the ground, above a balcony or other surface | 300mm |
| C | From a return wall or external corner | 300mm |
| D | From a gas meter or regulator vent | 1000mm |
| E | From electricity meter or fuse box | 500mm |
| F | From a drain pipe or soil pipe | 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 (or 1500mm in direction of discharge) | 300mm |
| K | From a mechanical air inlet or spa blower | 1000mm |
| N | Vertically below any openable window, door, non-mechanical air inlet, or any other opening into a building with the exception of sub floor ventilation | 150mm |

D4 Creating the Hole in the Outside Wall

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

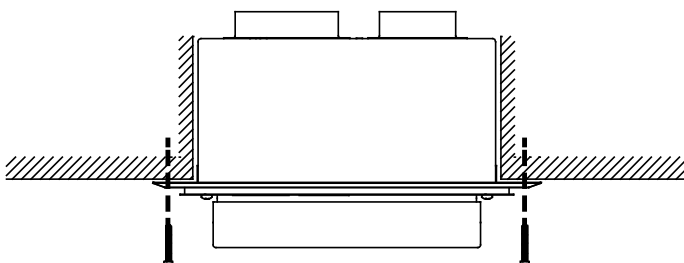
Ideal hole/cavity size for Horizontal Powerflue

| | |
|---|---|
| X | 298mm |
| Y | 298mm |
| Z | 175mm Excluding allowance for flue which exits here |

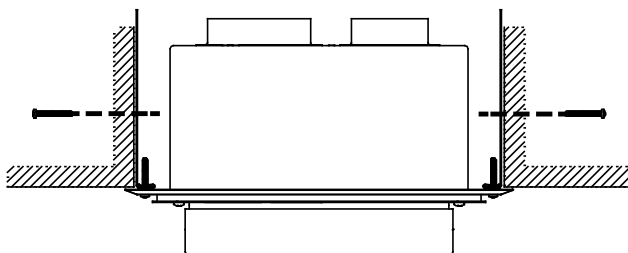


The Horizontal Powerflue Wall Terminal can be attached to the wall in two ways,

A) From the front of the terminal:



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:



D5 Running the Flue

Run the Ø100mm and Ø75mm flexible aluminium hoses from the cavity to the rear of where the Horizontal Powerflue Wall Terminal will be installed in the outside wall. **The flue system for the DX1500 is zero rated, so no spaces are required between the flue and any timber framing.** Allow enough stretch in the flexible aluminium flue to allow it to be able to sit just outside of the wall.

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D6 Running the Powerflue Electrical Cable

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

B

Run the electrical cable from the cavity where the appliance will be installed to the hole in the outside wall. Ensure the cable is not draped over or in contact with the outer shell of the appliance or either of the flexi flue tubes and kept clear from any other possible heat sources. Fix it appropriately and allow enough cable looped to be able to pull the Horizontal Powerflue Wall Terminal out from the installed position should servicing be required.

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END OF SECTION D

By the end of this section, you should have:

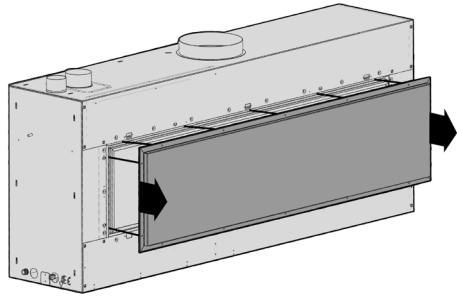
- A weather-tight Horizontal Powerflue Wall Terminal installation with clearance as specified by AS/NZ5601
- Reasonable access to the outside face for maintenance purposes
- Flue attached to the rear of the Horizontal Powerflue Wall Terminal leading back to the appliance
- The electrical cable from the Horizontal Powerflue Wall Terminal attached to the rear of the installation and run back to the appliance cavity in an electrically safe manner

E Installing the Appliance

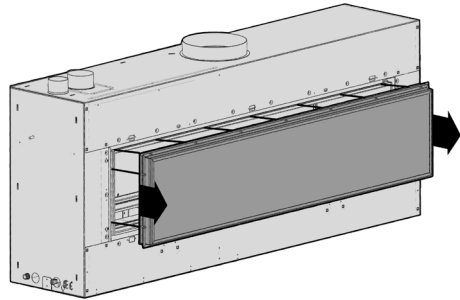
E1 Double Sided conversion

If the appliance is to be double sided, you will have been supplied with an extra glass panel and steel support frame and wall lining trim brackets.

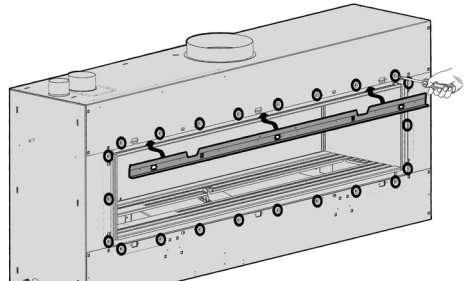
1. On the rear of the appliance, unscrew the outer shell cover and remove it as shown



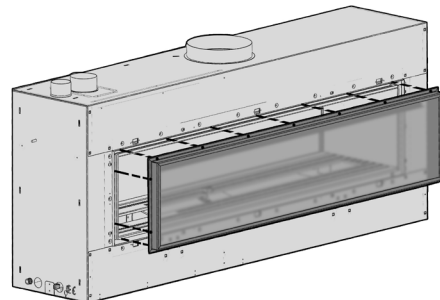
2. Unscrew the Firebox rear panel and remove it. Sometimes extra force may be required to remove this panel as the sealing tape can 'glue' itself to the painted surface.



3. Screw the Wall Lining trim brackets on to the appliance chassis as shown in photo.



4. Carefully install the extra glass panel and frame onto the appliance, ensuring that the glass does not fall from the frame. Tighten the bolts around the outside of the glass retainer until securely fitted.



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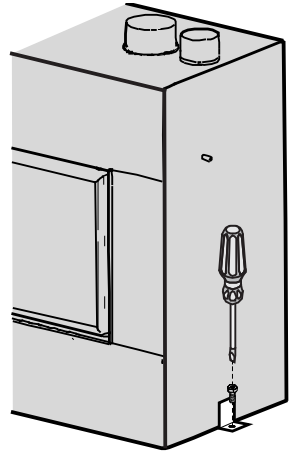
SERVICE

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E2 Installing the Appliance

Insert the gas fire into the cavity and bolt down in correct position using the brackets on each end of the appliance. It is a requirement that this appliance be securely fastened at the base.

- On the right hand side of the appliance:
- Connect the powerflue electrical cable.
- Connect the Duct fan electrical cable
- Plug the appliance Mains power electrical cord into the 230/240volt outlet in the cavity.
- Connect the condensation drainage system onto the appliance.



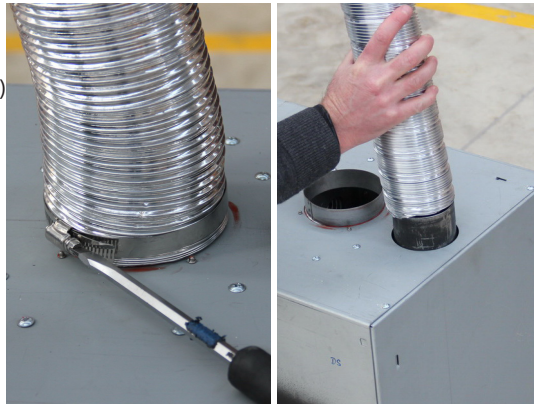
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E3 Connecting the Flue

Access the top of the appliance and connect both the inlet flue (Ø75mm) and the exhaust flue (Ø100mm) to their respective spigots. Tighten the hose clamps onto the spigots. Ensure the flue connection is air tight. Sealant is not required.

Attach the ducting to the top of the appliance at the 250 diameter spigot and secure using a clamp or appropriate ducting tape to ensure an airtight joint.



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E4 Connecting the Network Cable

A network cable has been attached to the appliance. This must be left accessible even if not being used, to make future servicing or upgrades easier. To access the network cable, open the access hatch on the base of the firebox (underneath the burners) and feed the cable through the holes in the outer chassis where the power and gas lines are.

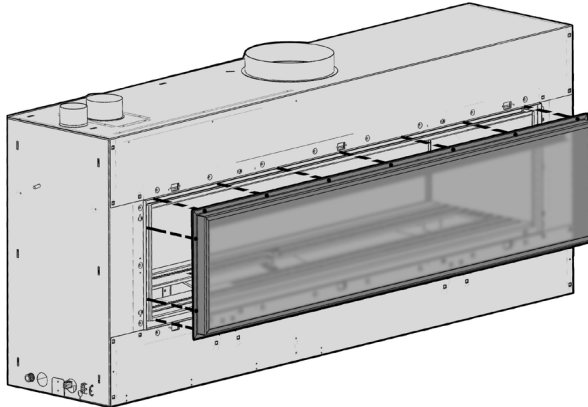
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SERVICE

E5 Removing the Glass

Using the supplied 3mm Allen Key (hex drive) remove the bolts around the glass retainer ensuring that the glass does not fall forward.



Pull the top of the frame toward you slightly and lift the glass and frame out and away from the fire. Place the glass & frame carefully aside.

E6 Remove the Fuelbed Tray & Burners

Remove the Fuelbed tray from the fire box, by lifting one end up into the top corner and then out towards you. Take care not to scratch the firebox paint and lift out the burners.



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E7 Gas Type Conversion

THIS APPLIANCE IS CONFIGURED TO OPERATE ON NG

If gas type conversion is not required then jump to "checking operating pressure"

Your gas fire has been supplied with the necessary parts for gas conversion. Follow the steps on the following page to change from NG to LPG/Propane or vice versa.

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 this Escea fire, will void the limited appliance warranty.

Turn off power and gas first

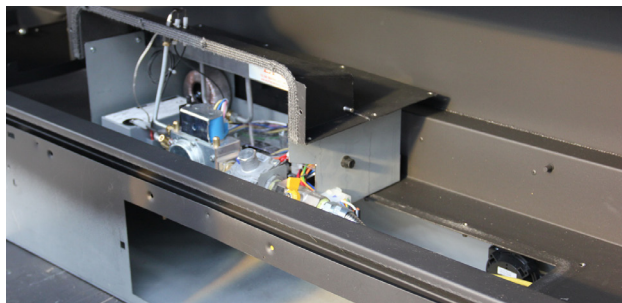
Step 1: Ensure power and gas is off. Remove the fascia, glass and fuelbed as per section E6

Step 2: Lift out the two burners and the surrounding perforated grill as per section E7.

Step 3: Remove the screws in the bottom and the inner side of the firebox as per shown.



Remove 'engine' by lifting up and to the left. This is still connected internally to the gas hose and power cables. Place engine just to the left within firebox as shown.



Step 4: Change the two main burner jets with the jets supplied in kitset.

LPG: Both jets are $\text{\O}1.3\text{mm}$

Natural Gas: Both jets are $\text{\O}2.3\text{mm}$

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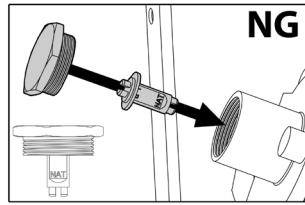
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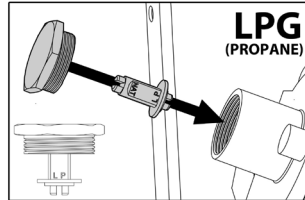
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SERVICE

The gas pressure regulator can be converted between NG & Propane as needed, by changing the plunger inside the regulator. To set for a gas type, unscrew & set plunger as per picture.

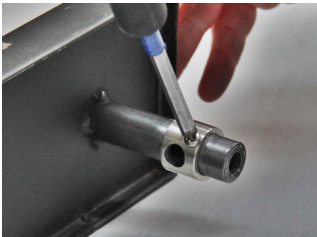


Step 5: Cover the existing gas type label with the new gas type label supplied in kitset. Ensure serial number and date of manufacture are still visible. Write your name, company (if appropriate) and date of conversion on new label with permanent marker.



Step 6: Place engine back into firebox. Take care not to pinch any wires. Don't replace the screws at this stage.

Step 7: The burner tubes on both burners have convertible collars. Ensure the collars on both are set to the correct orientation. Place one burner only into position.



LPG/Propane
11mm hole exposed



NG
3.5mm hole exposed

Step 8: Adjusting the electronic controller for gas type

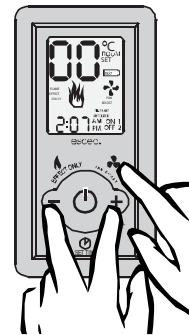
Ensuring the gas is still OFF, Turn the power ON.

On the remote control, insert the new "AA" size batteries. You should now see the time on the display showing 0:00

For 10 seconds, simultaneously press and hold the following three buttons:

- -
- +
- Fan

After 10 seconds have elapsed, the large double digits should start counting.



Now hold down the "Timer Select" button and "Activate Timer" button simultaneously, the remote display will show the current configuration of either "nG" for Natural or "LP" for LPG/Propane. To change this configuration, hold down the same 2 buttons "Timer Select" and "Activate Timer" simultaneously for 5 seconds. This will now have toggled between gas types.

Once you are have chosen the correct gas mode, simply press the "⏻" power button once to exit this diagnostics mode.

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E8 Checking the Gas Operating Pressure

Turn on the gas. Turn the power on.

Check the inlet pressure upstream of the appliance using the test point that you installed earlier.


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 and may be dangerous.

| Gas Pressure Table | Gas Type | |
|--|---------------------------|--------------|
| | Propane (AUS) or LPG (NZ) | Natural Gas |
| Minimum Inlet Pressure - pre appliance | 2.75 kPa | 1.13 kPa |
| Maximum Inlet Pressure - pre appliance | 5.0 kPa | 5.0 kPa |
| Operating Pressure @ jet | 1.96 kPa ±5% | 0.76 kPa ±5% |

With one burner removed, check the operating pressure by placing your Manometer hose onto the jet spigot as shown. Ensure you place the manometer well away from the other burner.




E9 Operating the Appliance

Turn on the fire by pressing the “” power button the remote and within a few seconds the appliance will begin its startup sequence, with a 15 second purge of the flue fan. After purge it will arc It may take a few attempts to light the first time due to air in the gas line. You may wish to purge the gas line at the valve by bleeding the first test point. This requires a small blade screwdriver.

Once the fire has lit the pilot and main burner you will be able to measure the operating pressure. Set the remote temperature to 30deg by pressing the “+” button. This will allow maximum gas flow into the appliance.

Ensure all other gas appliances within the house are also operating at maximum.

If the operating pressure does not read within 5% of the table above then remove the cap from the gas pressure regulator within the appliance and adjust the threaded spring stop. The true adjusted pressure can only be read with the cap replaced.

Press the “” power button again to shut down the fire.

E10 Reinserting fuel bed and ceramic glass

Re-insert the 14 engine screws if removed.

Place the burners and Fuelbed Tray back into position.
If removed, place inspection panel back on.

At this stage you should relight the appliance to confirm correct ignition.

END OF SECTION E

By the end of this section, you should have:

- The appliance installed in the cavity
- The appliance fixed to the cavity base and wall lining
- The appliance plugged into a mains electricity supply
- The appliance gas supply attached and pressure tested with all other gas appliances running

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F Finishing the Installation

F1 Crystallite Fuel Bed Installation

Place all the Crystallite pieces in a single layer atop the Burners and Fuelbed Tray. Cover the entire area except for the pilot shield, ensuring coverage right up to both glass windows and rear of firebox for single sided.

If the Driftwood fuelbed style has been chosen, follow the above directions for placing the Crystallite and then place the Driftwood pieces randomly atop the Crystallite layer. Ensure the wood pieces are spread out across evenly and not over the pilot assembly.

Do not heap or mound any fuelbed.

Note: Improper positioning of any fuelbed media may create carbon build-up and will alter the unit's performance. Malfunctioning due to improper fuel media placement will not be covered under warranty.

Reinstall the glass and retainer frame, being careful that the glass does not fall from the frame. Tighten the bolts around the outside of the glass retainer until securely fitted. Do not over-tighten the glass retainer bolts. Just nip them up.

Note: If the glass gasket requires a replacement, call your nearest Escea agent who will ensure the part is replaced with the correct type. In the event that the glass is broken by impact, purchase the replacement from an authorised Escea agent only.

Confirm the appliance is working correctly by lighting it 2 or 3 times to ensure correct operation & smooth ignition. Also confirm both flue and room duct fans are running correctly.

F2 Wall lining

Only after the above list is satisfied, can you commence with the final wall linings.

The appliance and all corresponding ducting needs to be adequately covered (both sides if double sided) to prevent plasterboard and building dust from entering the ducting system during completion of the wall lining.

Wall lining cutout dimensions around the glass must be adhered to.

Please refer to section **B7** for wall finishing dimensions surrounding glass.

Ensure the air inlet gap surrounding the glass is maintained. The glass frames must still be able to be removed after wall linings installed.



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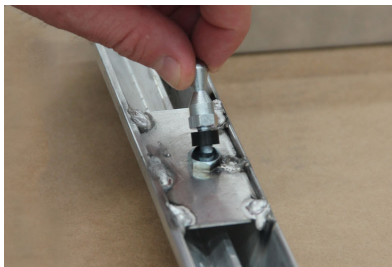
SERVICE

F3 Fitting the Fascia Panels

To avoid scratches or knocks to the fascia panels of this heater they must be fitted at the complete conclusion of the installation process, after wall linings are in place.

Note: Never ever rub the fascia.

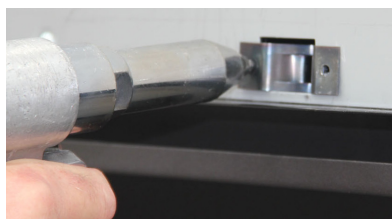
Step 1: Ensure the plastic spacer is placed on the thread of the studs.



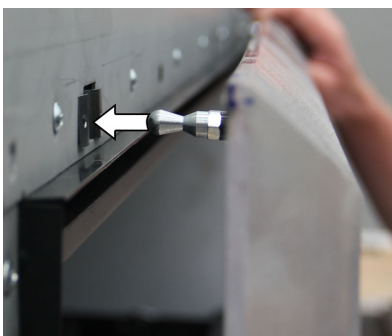
Step 2: Screw and tighten the 4 studs with spacers onto the back of the fascia



Step 3: Rivet the 4x spring clips onto the chassis of the appliance as shown



Step 4: After the 10mm thick wall has been finished, the fascia clips onto the appliance as shown.



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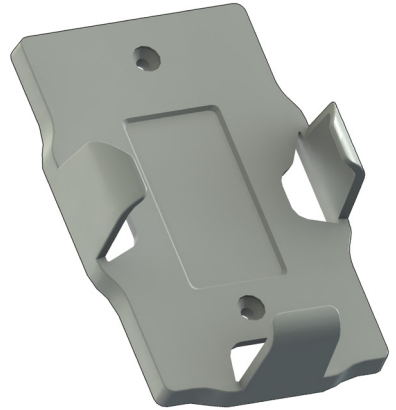
F4 Locating Wall Mount Cradle for Wireless Control

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, 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 between 5 and 15 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 cradle is screwed firmly onto the wall using the screws provided.

F5 Operating the Appliance

If you haven't done so already, insert the supplied "AA" size batteries, being careful of 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: The appliance begins its startup with a 15 second pre-start purge, where the combustion fan runs on its own to clear the firebox before it tries to ignite. During the pre-purge the remote will alternately show the remote's "Set" temperature and a rotating segment indicator to show that the fire is in start up mode and will try to ignite.

When the appliance has lit, set the room temperature by pressing the 'plus' or 'minus' buttons 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.

F6 Final checklist

- Run the appliance on full for an hour with the doors & windows open
- Dwelling owner shown how to operate the appliance correctly
- Warranty card filled in with installer details and appliance serial number
- User Guide made available for dwelling owner
- Plumbing Industry Commission Compliance Certificate given to dwelling owner

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F7 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 there various types of materials 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 should be 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 caused by 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.

A deposit on the inside of the 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 glass is cold, remove it (see section E5) and clean the inside with a non-abrasive cleaner.

DO NOT ATTEMPT TO CLEAN THE GLASS WHILE IT IS HOT.

UNDER NORMAL USE, NEVER OPERATE THE UNIT WITH THE GLASS REMOVED.

END OF SECTION F

By the end of this section, you should have:

- A completely 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 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 Powerflue Terminal with clearance as specified by AS/NZ5601
- If chosen, reasonable access to the outside face of the Horizontal Powerflue Wall Terminal for maintenance purposes and flue attached to the rear of the Horizontal Powerflue Wall Terminal leading back to the appliance (and similar for Vertical Powerflue Terminals)
- The electrical cable from the Powerflue Terminal attached correctly and run back to the appliance cavity in an electrically safe manner
- The appliance fixed to the cavity base
- The appliance plugged into a mains electricity supply
- All gas joints and pressure points leak tested, and suitable leak detection solution and drop tests completed on gas pipework
- Fuel bed correctly installed
- Glass correctly fitted
- Operated the fire and verified that it lights reliably and safely
- Appliance functions checked, including thermostat operation, Flame Effect and Fan Boost
- Data label marked up with correct gas type, and dated by installer if converted during installation

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S Service Manual

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SERVICE


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 wireless remote control in the form of a large letter "E" with a number beside it. Codes can normally be reset by turning the heater off then on again at the wall.

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 | <ul style="list-style-type: none">• Excess lint and dust build-up on the front of the controller tray.• Possibly fascia panels installed incorrectly resulting in restricted air flow.• Room air fans may be slowed or stalled. Remove firebox, check that fans are plugged in, cleaned, and free turning• (DX only) check that the duct fan is not reversed and blowing "into" the fireplace instead of out from the fireplace <p>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).</p> |



Flame Failure or
Power Flue trip

The fire has tried to light three times and failed.

- 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.
- Check correct gas pressure to the appliance with all other appliances running
- 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.
- Ensure the electrode is not contacting any metalwork including the burners and has the correct air gap.
- Check that the electrical power cable between the appliance and the power-flue wall terminal is connected and 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.



Appliance Over
Temperature
Sensor Trip

The bimetallic snap disk mounted on the exhaust collector box has tripped. The possible causes for this could include:

- Possibly fascia panels installed incorrectly resulting in restricted air flow at the top of the fire.
- Room air fans may be slowed or stalled. Check that fans are plugged in, cleaned, and free turning
- The gas regulator being set too high resulting in excess heat build-up.
- The inlet flue not being connected and the appliance drawing warm air from the cavity. Check flues are securely connected at both ends.



Valve Solenoid
Check Failure

The valve solenoids have failed the pre-ignition test. This is to detect a faulty valve solenoid. However, it is possible a wire has dislodged.

- Check that the connections to each solenoid are secure and in place. It may be that the connections on the ends of the wires need to be tightened a little (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.
- It could also be that one of the solenoids on the valve inside the fire has failed. If this is the case the valve will need to be replaced.



Remote Cannot
communicate
with fire

The remote cannot communicate with the fire. Reasons for this could include:

- The fire being 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 12m.
- 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.

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Duct Air Over-temp

The hot air duct temperature sensor has detected excessive heat at the duct outlet.

- Ensure that there are at least TWO air vents installed and open in the same room as the fireplace
- Ensure the duct fan is operating when the fireplace is running. If not check that the duct fan cord is plugged into the fireplace.



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 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 grey 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

S2 Cleaning the Log Set and Glass

ALWAYS USE GLOVES WHEN HANDLING THE FASCIA AND GLASS.
NEVER RUB THE FASCIA.

The outside of the fascias 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. Always clean when cold.

This is a service procedure that will need to be carried out whenever soot builds up on fuelbeds and/or inside of glass.

If soot build up becomes excessive or regular then one of the following actions may be required;

- Reset gas pressure, pressure may be too high;
- Reposition fuelbed, check with specific fuelbed instructions for details;
- Clear any blockage from primary aeration port of burner;
- Check flue tube is not damaged or disconnected.
- Check exhaust fan is operating and cowl is not blocked in any way.

Step 1: Remove fascia panel (if fitted) by pulling it from the wall.

Step 2: Removing the Glass

Using the supplied 3mm Allan Key (hex drive) unscrew the bolts around the glass retainer.



Take care that the glass and frame does not fall forward at this stage. Pull the top of the frame toward you slightly and lift the glass and frame out and away from the fire. Ensure to hold on the glass, and take care that the glass does not fall from the frame. Place the glass & frame carefully aside.

Step 3: Take out fuel bed and gently clean away any soot from fuelbed with a soft hearth brush. The burner tops and fuel media tray can be vacuumed to remove any excess material.

Step 4: Clean the inside and outside of glass with normal glass cleaning products. Use a CLEAN DRY cloth only. Stubborn marks may be cleaned with a ceramic glass cleaner.

Step 5: Reinstall fuel media and glass in opposite and test run heater.

S3 Checking 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.

By law, the original installer has supplied a test point prior to the appliance. With all gas appliances within the house running on full, including this DX1500, check the inlet pressure upstream of the appliance. It must be equal or greater than the table below indicates before going any further dismantling this appliance.

| Gas Pressure Table | Gas Type | |
|--|---------------------------|--------------|
| | Propane (AUS) or LPG (NZ) | Natural Gas |
| Minimum Inlet Pressure - pre appliance | 2.75 kPa | 1.13 kPa |
| Maximum Inlet Pressure - pre appliance | 5.0 kPa | 5.0 kPa |
| Operating Pressure @ jet | 1.96 kPa ±5% | 0.76 kPa ±5% |

To check the operating pressure, with one burner removed only place your Manometer hose onto the jet spigot as shown. Ensure you place the manometer well away from the other burner as this will get hot.



S4 Servicing the Horizontal / Vertical Powerflue

If the Powerflue needs servicing, the fan can be accessed from the outside of the installation for Horizontal termination, and accessed from within the roof space for Vertical termination.

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

Horizontal: Undo the ten screws holding the outer cowl in place and pull the whole plate and cowl directly outwards. Note: Be careful of any flashing that may have been installed above the terminal.

Vertical: Undo the screws on the outside of the Powerflue box and separate the two parts, giving you access to the fan inside.

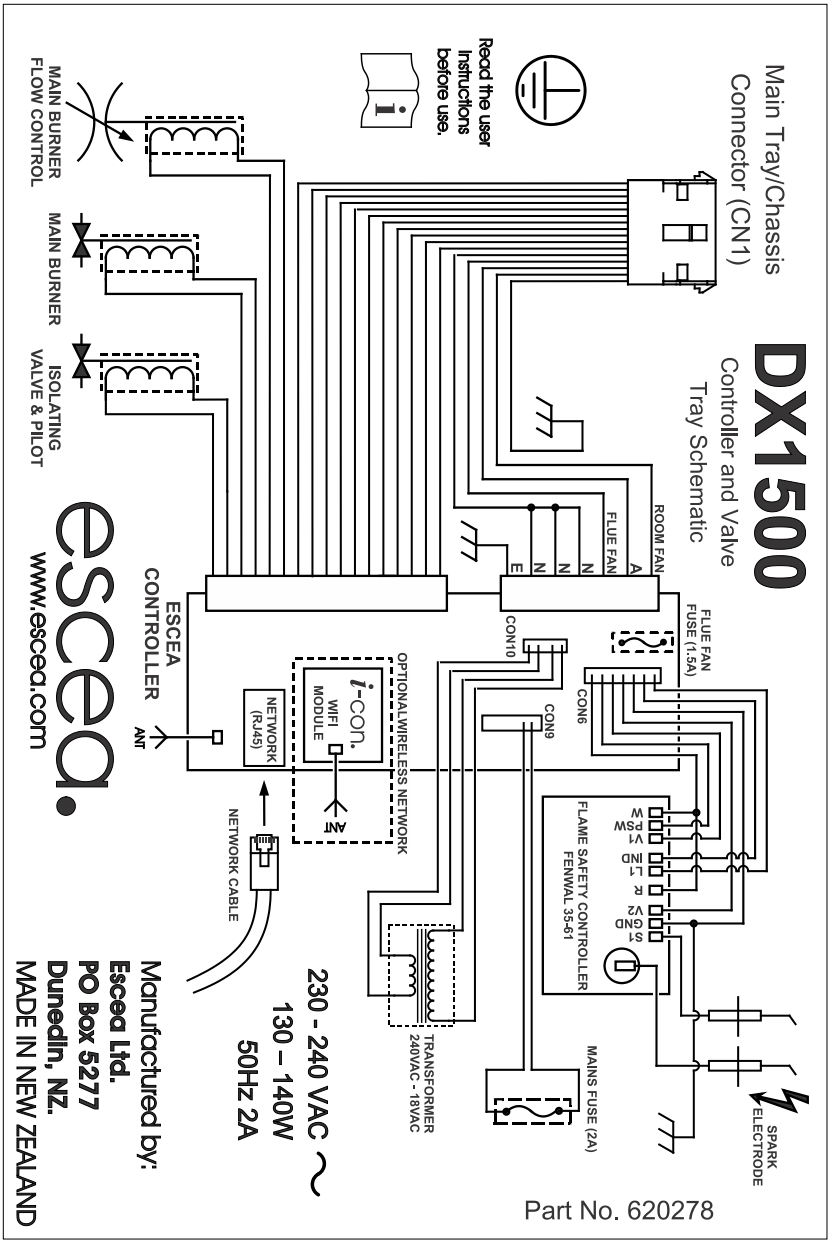
Removing this plate gives complete access to the fan for servicing or replacement. Check that all the seals are still intact. Check the fan electrical terminals, motor and impellor are not corroded. Ensure there is no signs of leakage in or around the terminal.

When reassembling the powerflue, 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.

S5 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 firebox 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. 2.75kPa LPG, 1.13kPa Natural Gas with burners running.
- 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.

56 Wiring Diagram



S7 Escea product warranty – Australia ONLY

1 This document sets out the express warranties that apply in respect of Escea products purchased in either:

(a) Australia with the exception of Western Australia, provided by Glen Dimplex Australia Pty Limited ABN 69 118 275 460 of Unit 2, 205 Abbots Road, Dandenong, Victoria 3175 (Phone number 1300 556 816) (we, us our).

(b) Western Australia, provided by Airgroup Australia of 28 Division Street, Welshpool, Perth, WA 6106 (Phone number 893 502 200) (we, us our).

The express warranties in this document apply to the particular Escea product which this warranty card has been included in the packaging for or otherwise supplied with (the Escea product).

2 Escea express warranty

Subject to the exclusions in section 3, we warrant under this express warranty that the below parts of the Escea product will be free from defects of materials or workmanship for the periods specified below (with each of the below periods commencing on the date the Escea product was purchased by you as a brand new product from a retailer located in the regions outlined in section 1):

| Part | Type of express warranty |
|----------------------------|--|
| Firebox and Heat Exchanger | 10 years parts and labour warranty* |
| All other parts | 1 year parts and labour warranty followed immediately by 1 year parts only warranty* |

* Where a Escea product is covered by a parts and labour warranty, the warranty covers both the repair of the defective part or the provision of a spare part to replace the defective part and the installation of that part.

** Where a Escea product is covered by a parts only warranty, the warranty covers only the repair of the defective part or the provision of a spare part to replace the defective part and does not include the removal of the defective part or the installation of the repaired or replaced part.

This express warranty is personal to the first person who acquires the Escea product from the relevant retailer and claims under this warranty cannot be made by anyone other than this person.

The benefits conferred by this express warranty are in addition to the Consumer Guarantees referred to in section 4 and any other statutory rights you may have under the Australian Consumer Law and/or other applicable laws.

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3 Warranty exclusions

This express warranty does not apply where:

- (a) the Escea product has been installed, used or operated otherwise than in accordance with the product manual or other similar documentation provided to you with the Escea product;
- (b) the Escea product requires repairs due to damage resulting from accident, misuse, incorrect installation, cleaning or maintenance, unauthorised modification, tampering or unauthorised repairs by any persons, use of defective or incompatible accessories or exposure to abnormally corrosive conditions;
- (c) the defective part relates to a consumable part of the Escea product which require routine replacement;
- (d) you are unable to provide us with reasonable proof of purchase for the Escea product;
- (e) the breakdown occurs after the expiry of the express warranty period set out in section 2; or
- (f) the Escea product was not purchased in any of the regions outlined in section 1 as a brand new product.

4 Consumer Guarantees

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

5 How to make a claim

You may make a claim under this warranty by contacting us by:

For Australia with the exception of Western Australia, visiting www.glendimplex.com.au, contacting our customer care line (1300 556 816) or visiting a Glen Dimplex service centre.

For Western Australia, visiting www.airgroup.com.au, contacting us on 8 9350 2200.

To make a valid claim under this warranty, you must:

- (a) lodge the claim with us as soon as possible and no later than 14 days after you first become aware of the breakdown;
- (b) provide us with the Escea product serial number;
- (c) provide us with reasonable proof of purchase for the Escea product; and
- (d) if required by us, provide us (or any person nominated by us) with access to the premises at which the Escea product is located at times nominated by us (so that we can inspect the Escea product).

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6 Warranty claims

If you make a valid claim under a parts and labour warranty and none of the exclusions set out in section 3 apply, we will, at our election, either:

- (a) repair the relevant part of the Escea product; or
- (b) replace the relevant part of the Escea product with a product of identical specification (or where the product is superseded or no longer in stock, with a product of as close a specification as possible).

We will also arrange for the relevant repaired or replacement part to be installed at no charge to you.

If you make a valid claim under a parts only warranty and none of the exclusions set out in section 3 apply, we will, at our election, repair or replace the relevant part. You acknowledge that installation is not covered under a parts only warranty, however, we may, for a fee, install the repaired or replacement part for you. We will, on request, provide you with a quote for the installation of the repaired or replacement part.

Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods. Escea products are designed and supplied for normal domestic use. We will not be liable to you under this warranty for business loss or damage of any kind whatsoever.

7 Costs of warranty claim in Australia (excluding Western Australia)

Where you make a claim under this warranty, an authorised repairer may need to attend your premises to inspect the Escea product. We may charge you a service call fee if a repairer will be required to travel more than 30 kilometers from the nearest Glen Dimplex service centre to your location. You may obtain details on the location of our service centres and our service call fees by visiting our website (www.glendimplex.com.au) or calling our customer care line (1300 556 816).

S8 Escea product warranty – New Zealand ONLY

WARRANTY TERMS & CONDITIONS:

If, and only if, the Product is installed as per ESCEA's installation manual and the step by step warranty procedure has been followed as per instructions issued by ESCEA, (documented in the agent manual), and that the product is operated and maintained in accordance with ESCEA operating and maintenance instructions, then for the first period of 12 months from the date of purchase ESCEA will pay the cost of repairing or replacing any part of the Product that is deemed by ESCEA to be faulty. For the second period of 12 months from the date of purchase ESCEA will supply replacement parts only, without charge.

Parts and Labour for the first 12 months:

a) ESCEA at its discretion may modify, adjust, repair or replace the faulty products. The warranty period on parts and labour shall be for 12 months from the acceptance date of the Products by the ESCEA retailer.

b) Labour costs will only be reimbursed when ESCEA specified procedure has been followed, and ESCEA has authorised service work before it was carried out.

Parts for the second 12 months ONLY:

a) ESCEA at its discretion will provide replacement parts to the retailer or service agent. Faulty parts **MUST** be returned to ESCEA. The parts only warranty period shall be for 12 months and will commence 12 months after the acceptance date of the Products by the ESCEA retailer.

General Terms:

1.All repairs made within the warranty period shall be covered by warranty for a period of 3 months from the date of completion of the repair, or for the remainder of the overall product warranty, whichever is the longer.

2.If the buyer or any other party modifies any part of the Product within the warranty period without the written consent of ESCEA then the warranty shall be void. ESCEA may, at their sole discretion, decide that the warranty is void in relation to any part of the product, which has been modified.

3.Escea must be notified of all warranty claims as soon as possible, but in any event not later than 2 weeks of becoming aware of the circumstance giving rise to the claims.

4.Escea's liability in this warranty is limited to the repair and replacement of faulty parts or workmanship by escea. No other resultant direct or indirect costs or expenses can be claimed.

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