

# escea.

## ST900 Direct Vent Gas Fireplace

# Installation Manual

NORTH AMERICA EDITION



**! WARNING**

**HOT GLASS WILL  
CAUSE BURNS.  
DO NOT TOUCH GLASS  
UNTIL COOLED.  
NEVER ALLOW CHILDREN  
TO TOUCH GLASS**

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.

**WARNING: FAILURE TO INSTALL THIS APPLIANCE CORRECTLY WILL VOID YOUR WARRANTY AND MAY CAUSE A SERIOUS HOUSE FIRE.**

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

**- WHAT TO DO IF YOU SMELL GAS**

- Do not try to light any appliance.
- Do not touch any electrical switch do not use any phone in your building.
- Immediately call your gas supplier from a neighbors phone. Follow the gas suppliers instructions.
- If you cannot reach your gas supplier, call the fire department.

- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

**INSTALLER:** Leave this manual with the appliance.  
**CONSUMER:** Retain this manual for future reference.  
*Ce manuel est disponible en Français sur demande.*  
[www.escea.com](http://www.escea.com)

This appliance may be installed as an OEM installation in a manufactured home (USA only) or mobile home and must be installed in accordance with the manufacturer's instructions and the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280*, in the United States, or the Standard for Installation in *Mobile Homes, CAN/CSA Z240 MH*, in Canada.

This appliance is only for use with the types of gas indicated on the rating plate. A conversion kit is supplied with the appliance.

This appliance may be installed in an aftermarket, permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes.

This appliance is only for use with the types of gas indicated on the rating plate. A conversion kit is supplied with the appliance.

## Important:

The appliance shall be installed in accordance with;

- This installation instruction booklet
- Local codes or, in the absence of local codes, with the *National Fuel Gas Code, ANSI Z223.1/NFPA 54*, or the *Natural Gas and Propane Installation Code, CSA B149.1*
- A manufactured home (USA only) or mobile home OEM installation must conform with the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280*, or, when such a standard is not applicable, the *Standard for Manufactured Home Installations ANSI/NCSBCS A225.1*, or *Standard for Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4*
- Any other relevant statutory regulations.
- Must be installed by a qualified installer, service agency or gas supplier
- Converting this appliance for use with other gasses must be done by a qualified installer, service agency, or gas supplier

### Warning:

- The area around the ST900 MUST be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- Any safety screen or guard removed for servicing the ST900 must be replaced prior to operating it.
- Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.
- Caution: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.
- Verify proper operation after servicing.

**YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME AREA AS THE APPLIANCE. TODDLERS, YOUNG CHILDREN AND OTHERS MAY BE SUSCEPTIBLE TO ACCIDENTAL CONTACT BURNS. A PHYSICAL BARRIERS IS RECOMMENDED IF THERE ARE AT RISK INDIVIDUAL IN THE HOUSE. TO RESTRICT ACCESS TO A FIREPLACE OR STOVE, INSTALL AN ADJUSTABLE SAFETY GATE TO KEEP TODDLERS, YOUNG CHILDREN AND OTHER AT RISK INDIVIDUALS OUT OF THE ROOM AND AWAY FROM HOT SURFACES.**

**CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURES, ESPECIALLY THE FIREPLACE GLASS, AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION.**

**DUE TO HIGH TEMPERATURES, THE APPLIANCE SHOULD BE LOCATED OUT OF TRAFFIC AND AWAY FROM FURNITURE AND DRAPERIES.**

**INSTALLATION AND REPAIR SHOULD BE DONE BY AN AUTHORIZED SERVICE PERSON. THE APPLIANCE SHOULD BE INSPECTED BEFORE USE AND AT LEAST ANNUALLY BY A PROFESSIONAL SERVICE PERSON. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIAL, ETC. IT IS IMPERATIVE THAT CONTROL COMPARTMENTS, BURNERS AND CIRCULATING AIR PASSAGEWAYS OF THE APPLIANCE BE KEPT CLEAN.**

**CLOTHING OR OTHER FLAMMABLE MATERIAL SHOULD NOT BE PLACED ON OR NEAR THE APPLIANCE.**

<b>PRODUCT SPECIFICATION</b>			
<b>MODEL NAME</b>		<b>ST900</b>	
Description of Appliance		Decorative Gas Fire	
Approved to:		221:88:2014	
Gas Type		Natural	Propane
Gas input	High	19500 BTU/h (20.6 MJ/h)	16000 BTU/h (16.9 MJ/h)
	Low	12500 BTU/h (13.2 MJ/h)	14600 BTU/h (15.40 MJ)
Inlet Pressure	Maximum	10.0 inch WC (2.5 kPa)	13.0 inch WC (3.25 kPa)
	Minimum	5.5 inch WC (1.37 kPa)	11.0 inch WC (2.75 kPa)
Operating Pressure	High	4.0 inch WC (1.0 kPa)	9.4 inch WC (2.34 kPa)
	Low	2.1 inch WC (0.52kPa)	4.8 inch WC (1.20kPa)
Injector Size		Ø1.9mm	1.2mm
Pilot injector		#37	#23
Appliance Dimensions (mm)	Width	35 ½" (902.4 mm)	
	Height	21 ½" (546.0 mm)	
	Depth	13 ¾" (352.2 mm)	
Weight	lbs (kg)	100 lbs (45 kg)	
Ignition System		Electronic Ignition to pilot system (Maxitrol GV60)	
Ignition Activation		10 secs (approx)	
Flame Safeguard		Thermocouple – magnetic cartridge	
Electrical Supply		6.0 V DC	
Consumption		2.3W @ 0.02A 110V	
Remote controls		Yes	
Timers		Yes	
Clock		Yes	
Function lock / child		Yes	
Temperature control		Yes	
Connections	Electric	6.0 V DC transformer and/or 4 x AA Cells	
	Gas	½ " NPT Male lower left of fireplace	
	Flue Type	Simpson Duravent (Balanced)	
	Flue Size	8"/205 mm Outer, 6"/125 mm Inner	
	Spigot Location	Rear and centre at 60° to vertical	
Data badge location		Lower left of fireplace	

## Note:

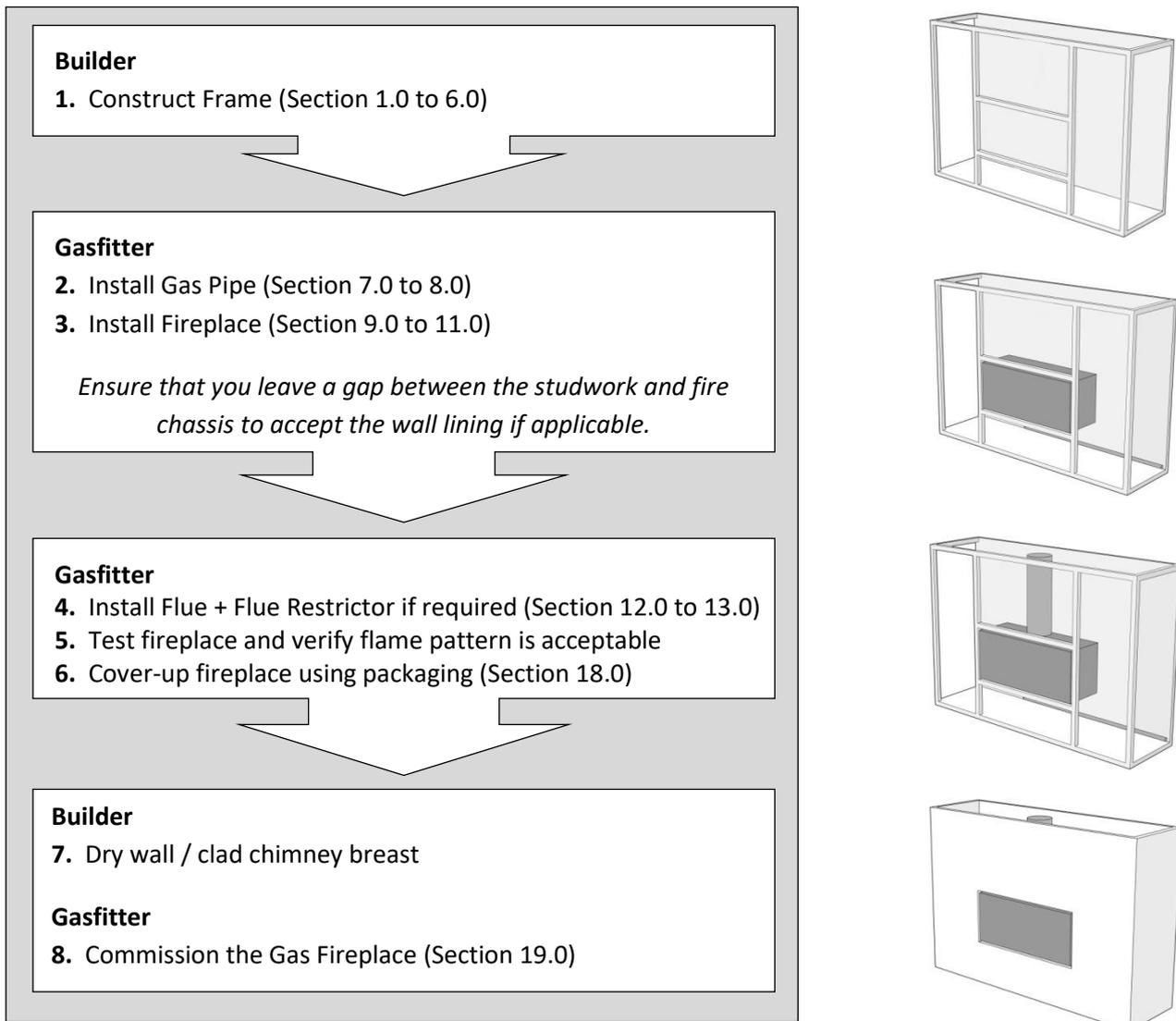
### THERE ARE A FEW THINGS TO CONSIDER BEFORE INSTALLATION

- Cavity Dimensions and Clearances
- **MUST** be installed a minimum of 4" above the floor or nearest horizontal surface.
- Coupling of flue to fireplace
- Gas pipe placement to the front left of the cavity.
- Coupling of gas lines to fireplace
- Fixing the fireplace to cavity
- Before installation, ensure that the local distribution conditions (identification of the type of gas and pressure) and the adjustment of the appliance are compatible.
- A list of replacement parts is in Appendix D at the end of this Installation Manual

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. Leave the installation of the fascia panels until the very end of the installation and commissioning to avoid damage to the fascia panels.

### Recommended Installation Process:

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



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<b>5.0</b>	—————	Vertical Clearances
<b>6.0</b>	—————	Corner Installations
<b>7.0</b>	—————	Laying Gas Pipe
<b>8.0</b>	—————	Connecting Gas Pipe
<b>9.0</b>	—————	Power Supply
<b>10.0</b>	—————	Fixing Fireplace to Wall
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**WARNING:**

Failure to follow these instructions could cause a malfunction of the fireplace, which, could result in death, serious bodily injury, and/or property damage. Failure to follow these instructions may also void insurance cover and/or product warranty.

**Installation:**

Installation must be carried out by a registered installer who, on completion of the installation, must issue a certificate of compliance, in accordance with national and/or local codes. If a certificate of compliance is not issued then the Escea warranty *may* be void.

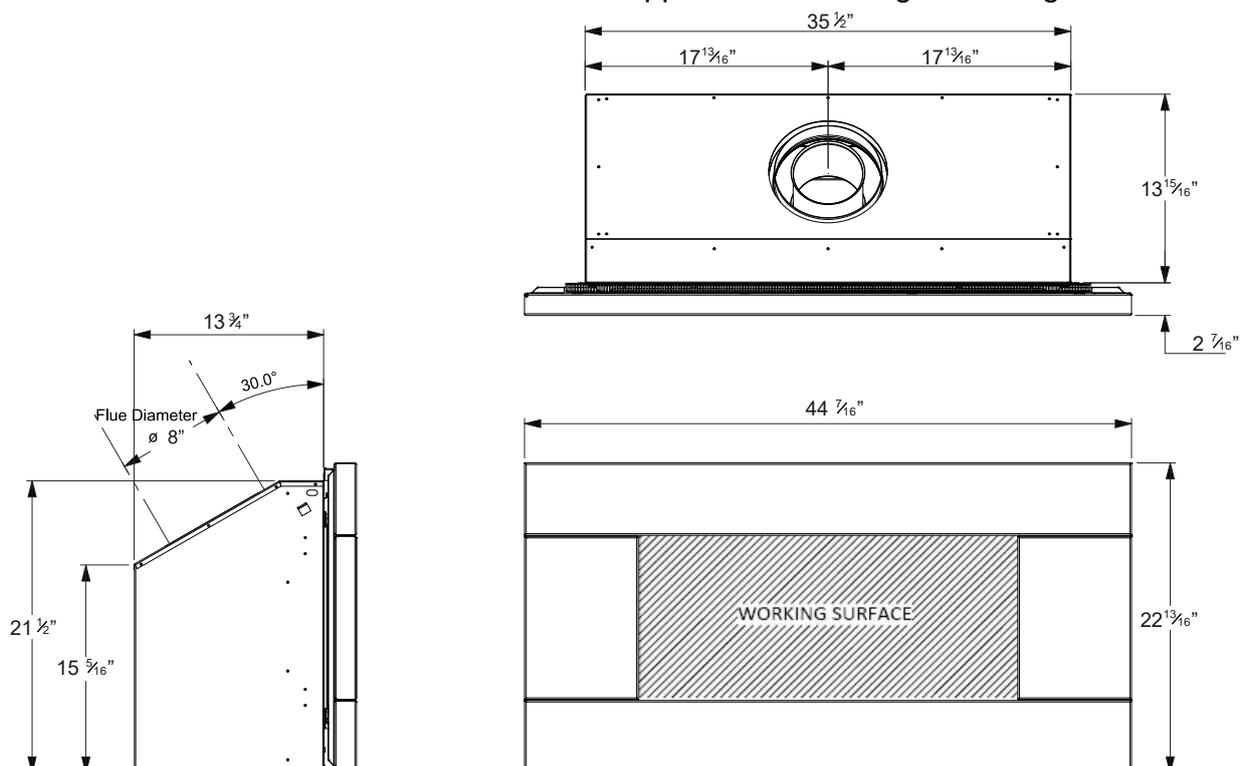
**Warranty Repair and Annual Servicing:**

Warranty repair work must be carried out by a recognised Escea gas fireplace service agency. It is recommended that recognised Escea Gas fireplace service agencies are also used to carry out annual servicing requirements (particularly during the warranty period). For contact details of authorised Escea service agencies in your area, please contact the retailer from whom the appliance was purchased.

This product must be installed according to these instructions and in compliance with all relevant building, gas fitting and other statutory regulations (eg. *ANSI Z223.1/NFPA 54*). 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.

**1.0 Product Description:**

The Escea ST900 decorative gas fireplace is designed to be built into a cavity. The appliance is flued via Simpson Duravent Direct Vent Pro 5" x 8" Flue, or compatible equivalent. The user will control their fireplace with the Radio Frequency (RF) remote. The glass on the front of the appliance is considered a working surface, and as such care should be taken not to touch this while the appliance is running as it will get hot.



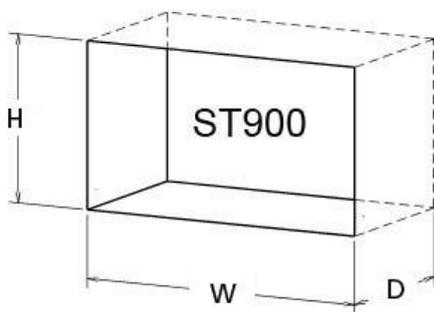
## 2.0 Creating the Cavity:

The dimensioned drawing below shows the size of opening that must be created to fit the ST900. The wall directly above the fireplace should be finished / clad / lined after the fireplace has been installed, unless there is an access hatch or the chase is open to the ceiling cavity, which allows the flue to be installed after the wall has been lined.

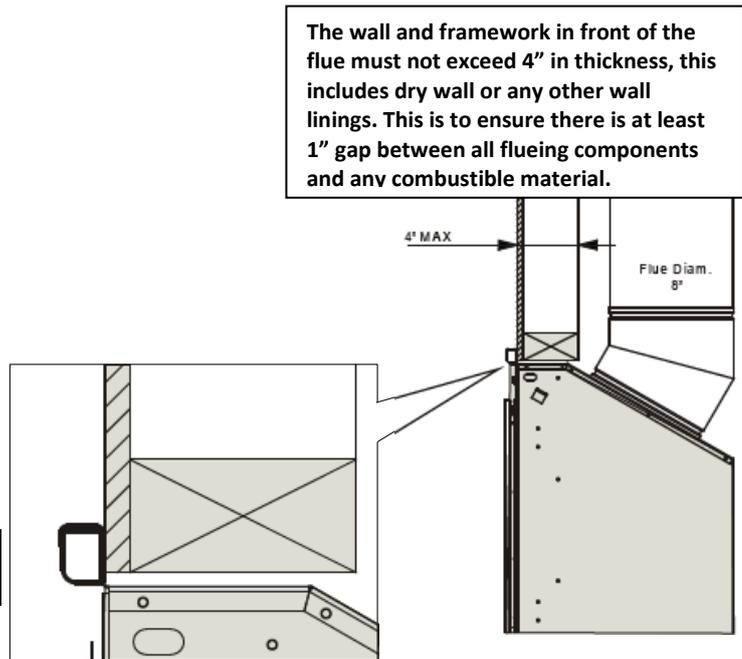
**See Appendix C** at the back of this installation manual for clearances to combustible materials.

If the ST900 is installed directly on carpeting, tile or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance.

**Note:** It is not necessary to line or vent the cavity, and it may be constructed with timber.



	H	W	D
Ferro	21 7/8"	35 7/8"	15"



## 3.0 Hearth and Floor Clearances:

There must be at least 4" clearance between the bottom of the ST900 fireplace and any horizontal surface below, for example hearths and floors.

### 3.1 Wall and Cabinet Clearances:

There must be a minimum of 4" clearance from the sides of the fascia to any protruding side walls or cabinetry.

## 4.0 Wall Linings:

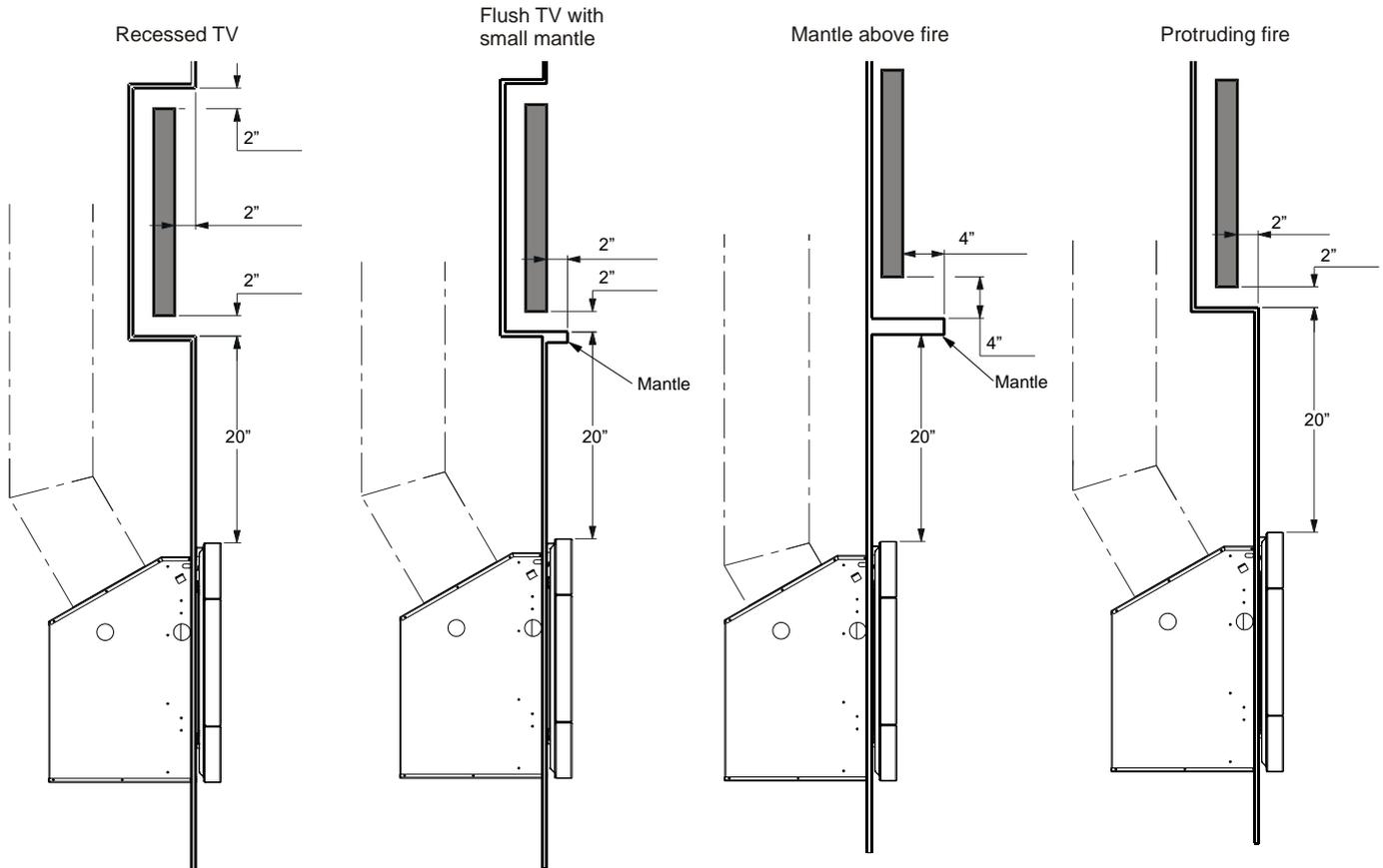
The wall board that lines the outside of this opening can be normal dry wall (Plaster Board) and does not need to be non-combustible providing that it does not come any closer to the fireplace than the dimensions shown in section 2.0. **Note:** The temperature of the wall lining directly above the fireplace does get warm and hence may discolour paint finishes that are susceptible to temperature damage or distort vinyl wall coverings.

## 5.0 Television Positioning Considerations:

It is becoming common practice for consumers to mount flat screen TV's above their gas fireplace.

Most TV manufacturers have specified in their instructions that the TV should not be installed on, near or above a heat source. For this reason TV location decisions rest solely with the householder and Escea will not be held liable for any adverse affects on a TV located near to an Escea fireplace that may be caused by heat.

The drawings below are suggestions that may be used as a GUIDE for those consumers who do decide to locate their TV above an ST900 gas fireplace. These drawings show ways to reduce the amount of warm air rising off the fireplace and onto the TV.

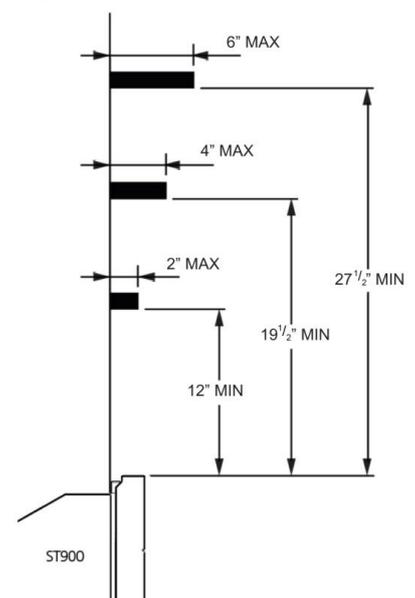


The material that the wall and mantle are made from will also affect the operating temperature of the TV so it is the customers responsibility to satisfy themselves that their TV mounting and mantle design will not exceed the listed maximum operating temperature of their electronic goods.

## 5.1 Combustible Mantle Clearances:

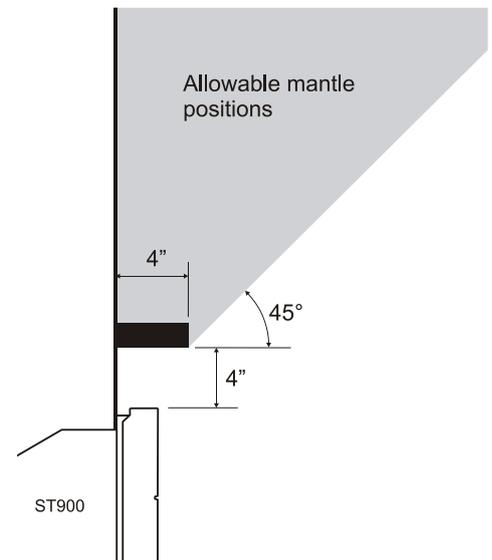
The diagram to the right shows the minimum and maximum allowable size for mantles or protruding surfaces mounted above the ST900.

*Note: Escea does not recommend placement of items on the mantles shown in the diagram to the right. This is because of the potential for items placed on or above the mantle to be affected by the heat rising from the appliance.*



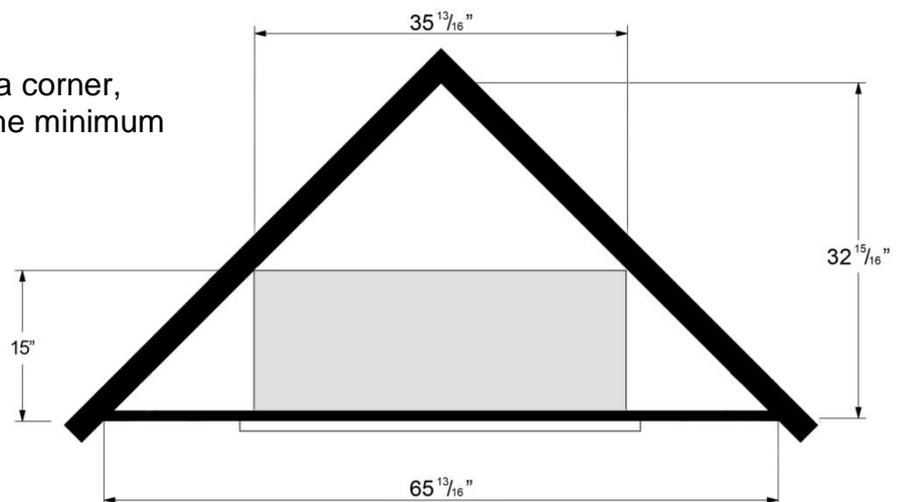
## 5.2 Non-Combustible Mantle Clearances:

If the entire installation (mantle, wall and cavity) is constructed from non-combustible materials, the clearances to mantles may be as shown in the shaded area.



## 6.0 Corner Installations:

If a cavity is to be created in a corner, the following drawing gives the minimum sizes.



## 7.0 Laying Gas Pipe:

Gas pipe should be sized as per the requirements of relevant local or national codes. The pipe sizing must be sufficient to deliver the following volume of gas to the fireplace with all other gas appliances in the home running at the same time;

**ST900 = 19,500 BTU/h max on Natural Gas**

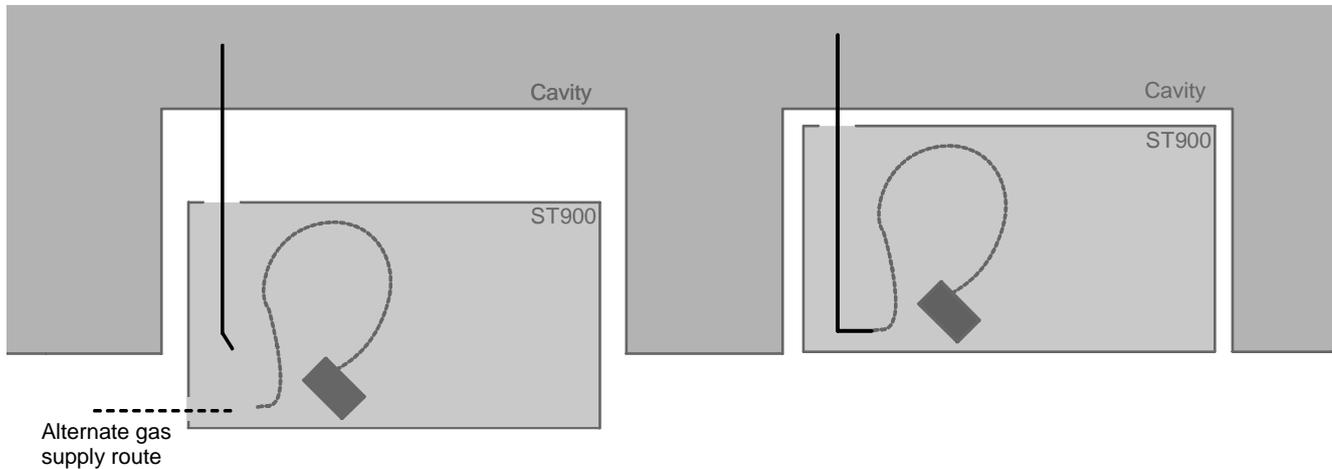
### High Altitude Installations

When installing this appliance at an elevation above 2000 feet, it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input rate should be reduced by 4% for each 1000 feet above a 2000 foot elevation in the U.S.A, or 10% for elevations between 2000 and 4500 feet in Canada. If the heating value of the gas has been reduced, these rules do not apply. To identify the proper orifice size, check with the local gas utility.

If installing this appliance at an elevation above 4500 feet (in Canada), check with local authorities.

## 8.0 Connecting the Gas Pipe:

An accessible inline isolation or service valve must be fitted and pipe run to the fireplace as shown below. An inlet pressure test point must also be fitted to the inlet side of the appliance valve. Copper should be run directly to the fireplace and connected onto the Dormont hose with a 1/2" NPT thread nut.



## 9.0 Power Supply:

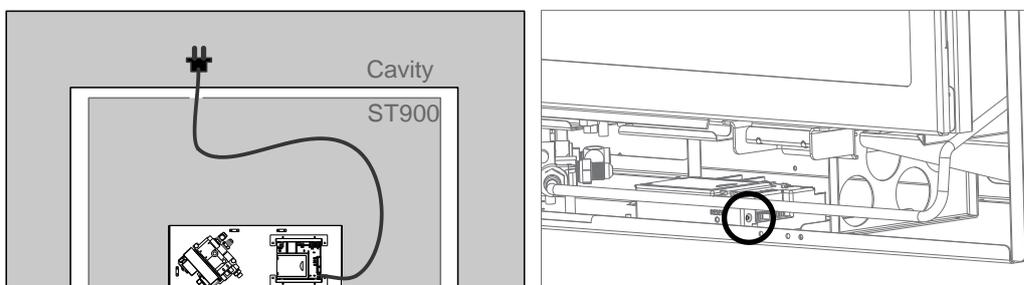
Your fireplace has been supplied with a transformer and a battery back-up provision- 4 x AA Cells; located in top of the receiver (control) unit.

### 9.1 If you are using a power transformer:

Whilst the cavity is being created consideration should be given to appropriate location of a standard 3 pin, 110V power outlet to accommodate the power transformer. This must be within **5ft** of the lower left hand side of the appliance.

Locating this plug within the cavity makes the installation very neat but the provision must be made to be able to switch the power supply off and on (electrical isolation switch) and must be accessible after the fire 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 service technicians to isolate the power supply before performing service work on the appliance.

The power transformer cord should be run, as shown below left, through the small hole in the rear of the fire and connected to the panel mounted plug pictured below right.



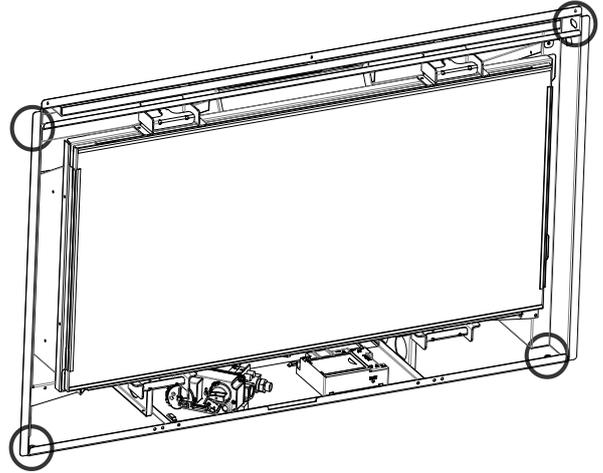
This appliance will draw a maximum of 0.2A from an 110V AC supply.

If a power transformer is plugged into the receiver, it will become the default power source. The batteries (if fitted) will only be consumed if there is a mains power outage.

## 10.0 Fixing the Fireplace to the base and wall:

It is a requirement that this fireplace be securely fastened to the wall and base. Once the fireplace has been pushed back into the correct position, use wood screws (or other suitable fasteners) to fix the fireplace to the cavity through each of the four holes in the corners, as shown in the diagram to the right. *Note: It may be necessary to use washers on the fasteners to securely fasten the fireplace to the wall.*

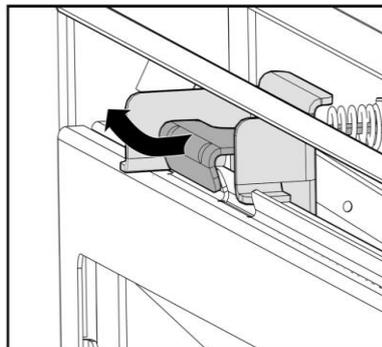
When fixing the fireplace in position ensure that you leave a gap between the fireplace flange and the framing timber for the wall lining, which will be added at a later stage.



## 11.0 Removing the Firebox Glass:

Pull the four hooks shown below towards you and then away from the glass to release the glass frame underneath the hook.

**Do not operate the appliance if the glass has been broken, damaged, or the glass is not properly positioned/hooked onto the appliance.**



**WARNING:** Do not operate appliance with the glass format removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.

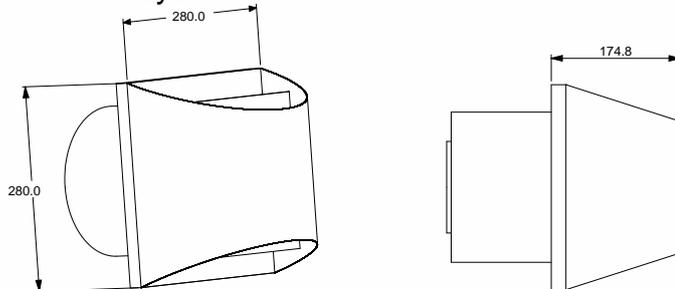
## 12.0 Installing the Flue System:

Ensure all flue components are Simpson Duravent Direct Vent Pro 5" x 8," or a compatible equivalent.

**Note:** Consult Appendix A at the end of this installation manual (section 24.0) to ensure correct length of flue is calculated.

There are two basic types of Balanced Flue System installations:

- Horizontal Termination



- Vertical Termination

Use the diagrams in sections 12.5, 12.6 & 12.7 to check if your proposed flue system is acceptable. Section 12.9 will also need to be used to determine whether the flue terminal location meets the requirements of ANSI Z21.88-2009 Vented Gas Fireplace Fireplaces. Then use Appendix A to work out the quantities of the flue components that are required.

**This gas appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance**

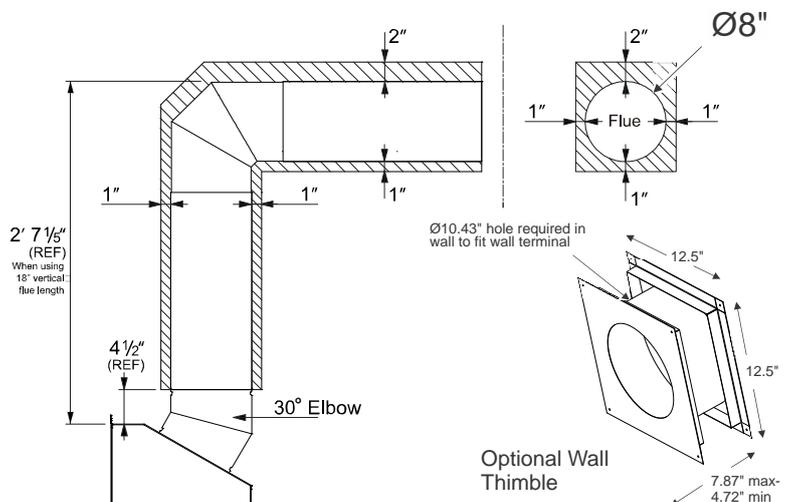
**12.1** Any offsets in your flue configuration should be 45° where possible.

**12.2** If your flue configuration has a horizontal run, there must be a minimum 1° inclination (3/4" vertical rise per 3' horizontal run) leading upwards towards the termination.

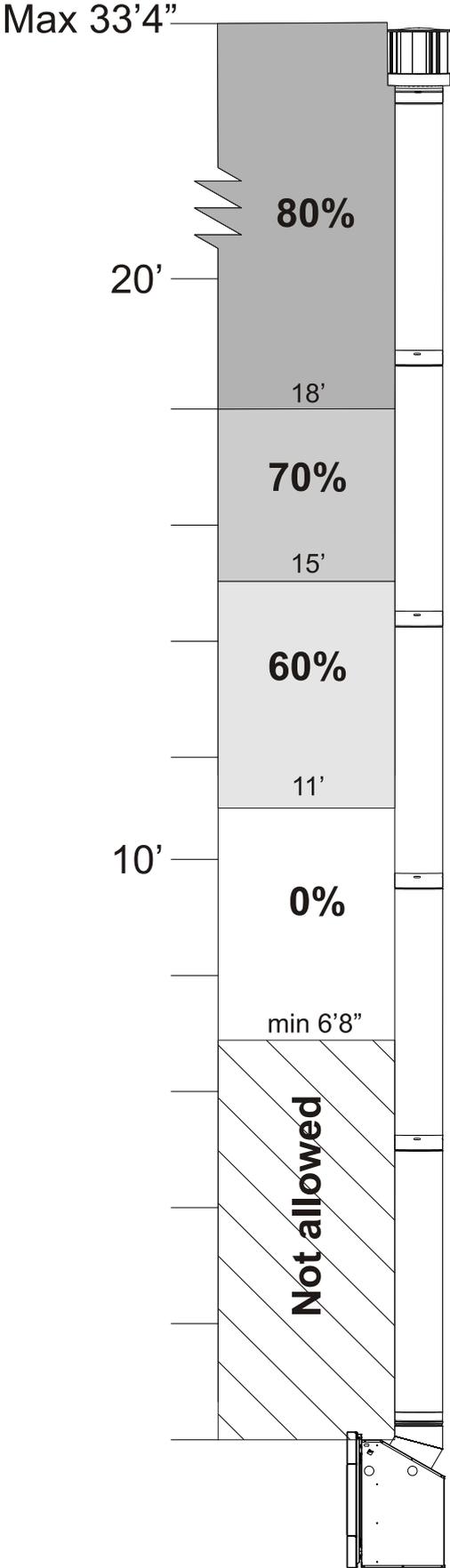
**Do not install the flue with horizontal sections sloping down towards the termination. This could cause the fireplace to operate incorrectly and possibly create an unsafe condition.**

**12.3** The flue must maintain the following clearances to combustible materials; 1" from all sides and bottom of the flue, and 2" from the top of the flue.

**12.4** If your flue configuration falls on or near a restriction zone boundary line in diagrams 12.5, 12.6 & 12.7, it may require the restriction value from either side of the boundary line to achieve the correct flame aesthetic, this may vary from installation to installation.



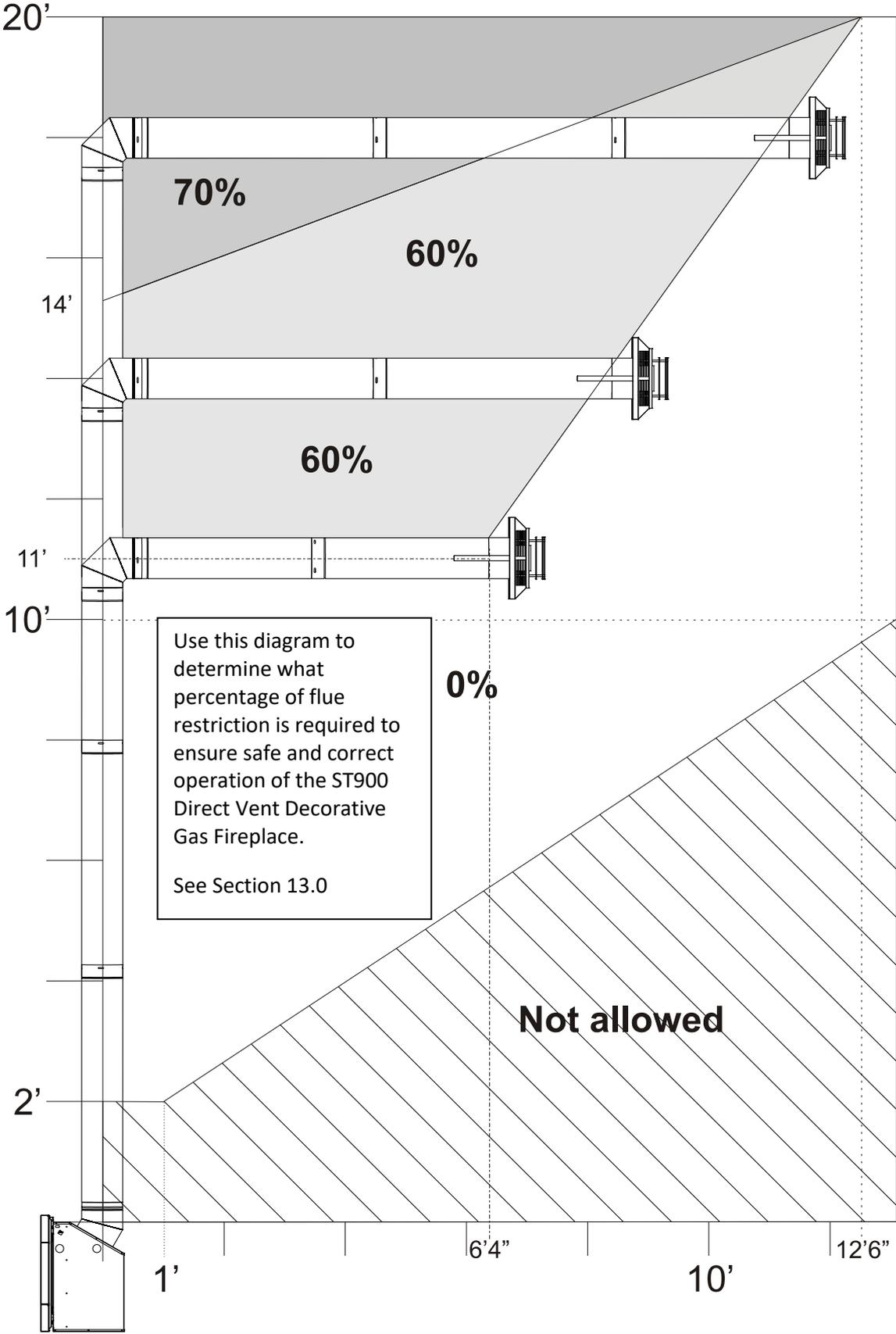
12.5 Vertical Only Flue Diagram:



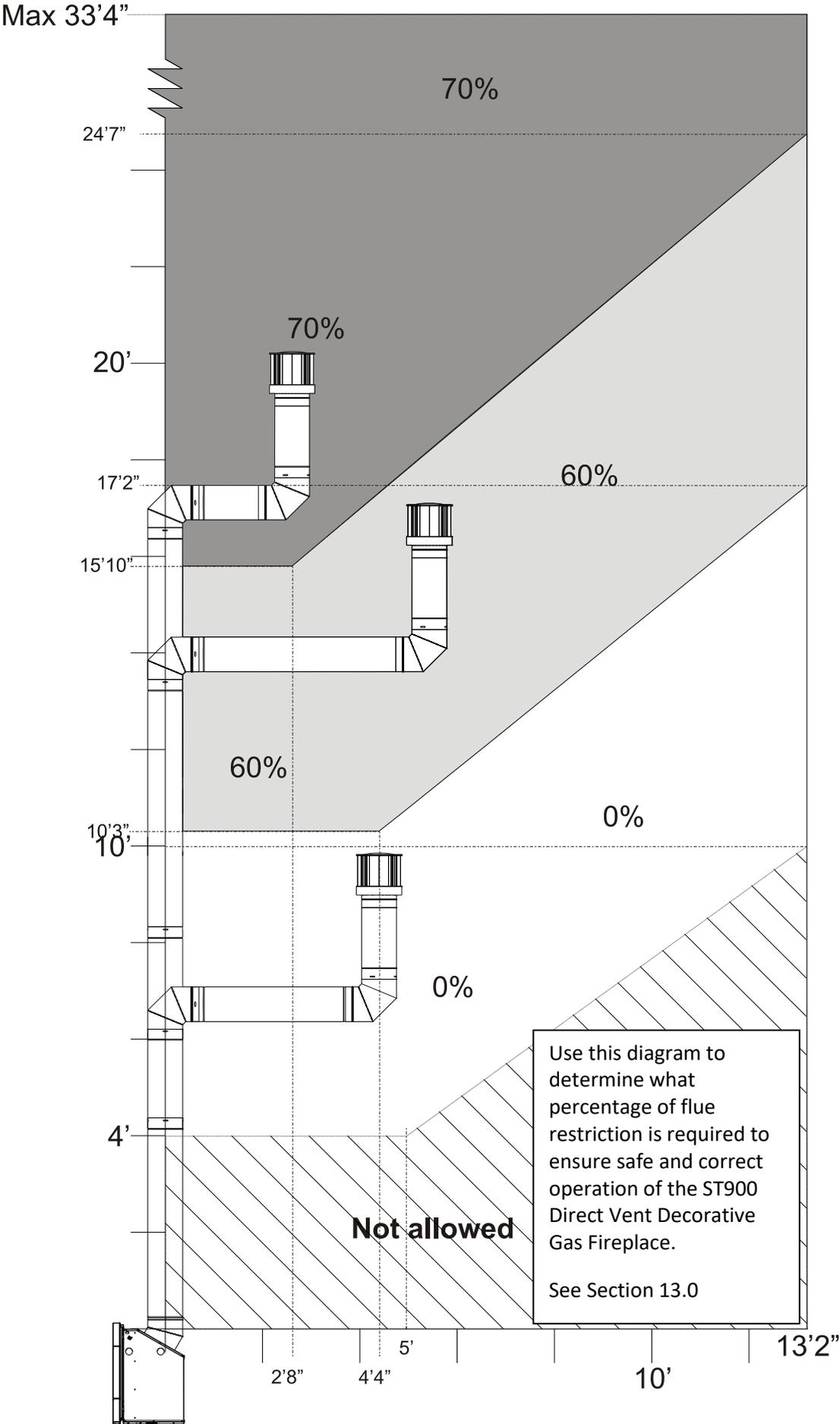
Use this diagram to determine what percentage of flue restriction is required to ensure safe and correct operation of the ST900 Direct Vent Decorative Gas Fireplace.

See Section 13.0

12.6 Horizontally Terminating Flue Diagram:

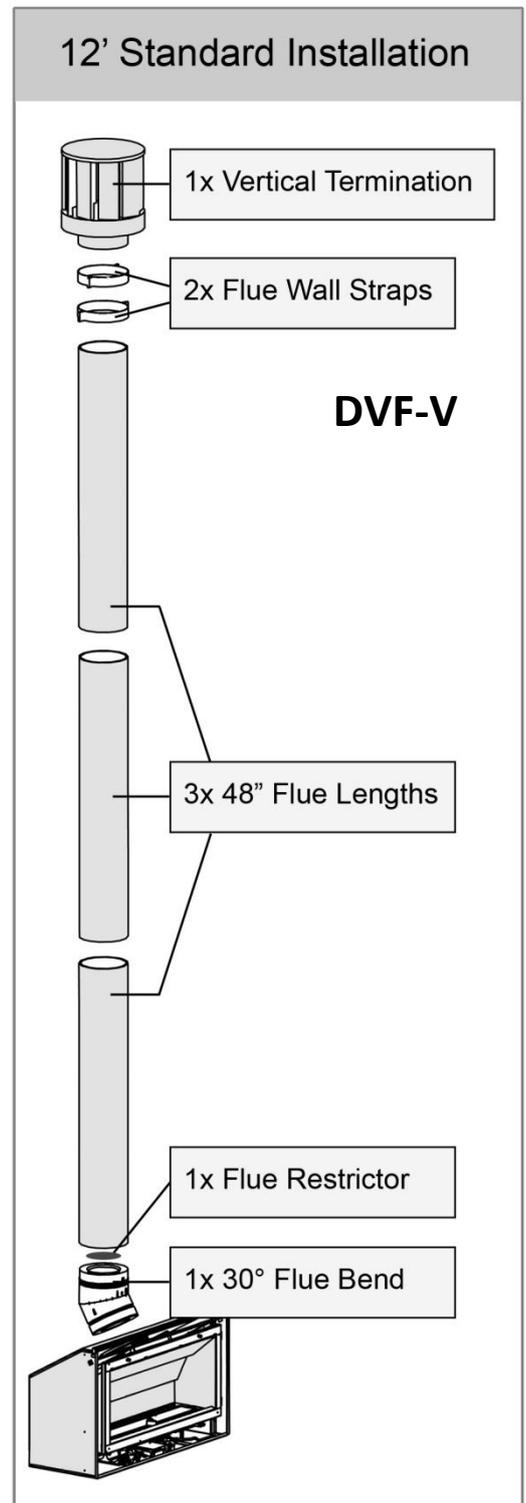
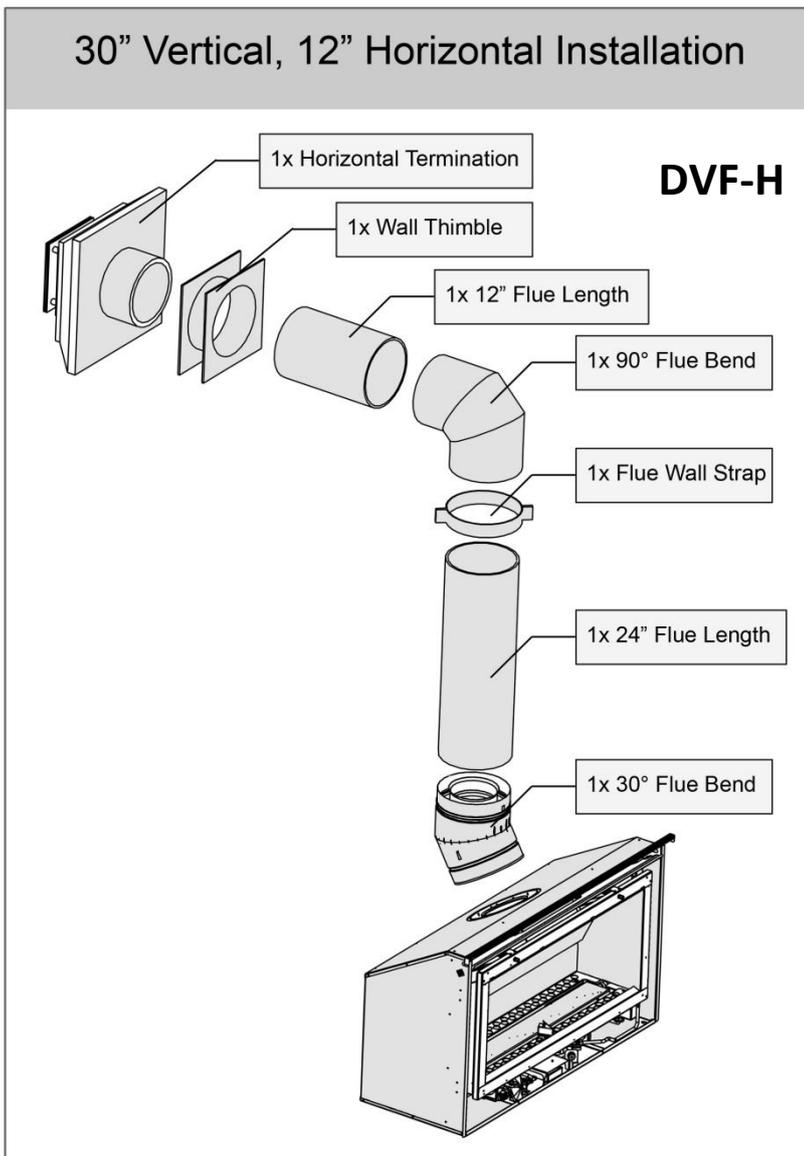


12.7 Vertically Terminating flue with a Horizontal Offset:



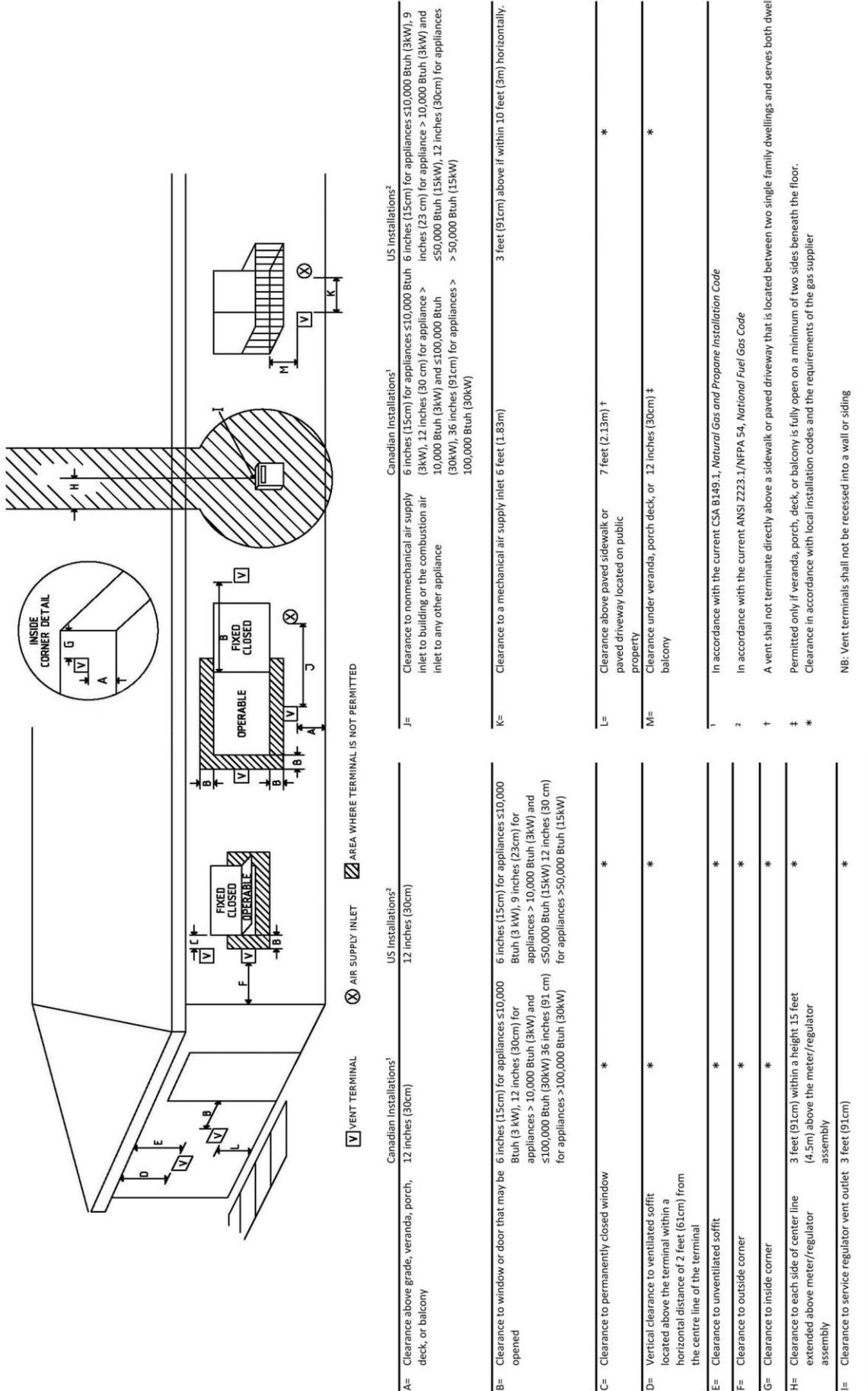
## 12.8 Standard Flueing Configurations:

The following flue components are available from your Escea distributor/retailer in kitset form.



## 12.9 Locating the Flue Terminal:

The flue terminal must be located using the information given in the following excerpt from ANSI Z21.88-2005 Vented Gas Fireplace Fireplaces.



## 12.10 Supporting the flue system:

Wall straps are required to fix the flue system in place for each installation. This will ensure that no undue strain is placed on flue components once installed.

For a flue offset or horizontal run, it is recommended that wall straps be used to the flue system with a spacing of 3' between straps. Plumbers strapping / tape can be used to connect the wall straps to the building structure where there are large distances between the support point and the anchor point.

For vertical flue runs it is recommended that wall straps be used to anchor the flue system with a spacing of 4' between straps.

## 12.11 Sealing 'through roof' and 'through wall' penetrations:

For 'through roof' penetrations, use a Decktite flashing or equivalent to create a weather-tight seal between the flue and the roof cladding.

For 'through wall' penetrations, this will require the use of a Wall Thimble. The Wall Thimble will ensure you have suitable clearance from combustibles as well as sealing the penetration. The section of the wall thimble installed on the external surface of the wall should be sealed to the wall using a high temperature sealant such as Mill-Pac High Temperature Sealant or equivalent. Additional sealant is required to seal the Terminal Cap to the external wall. A bead should be run along the edge of the Terminal that will be in contact with the wall once installed.

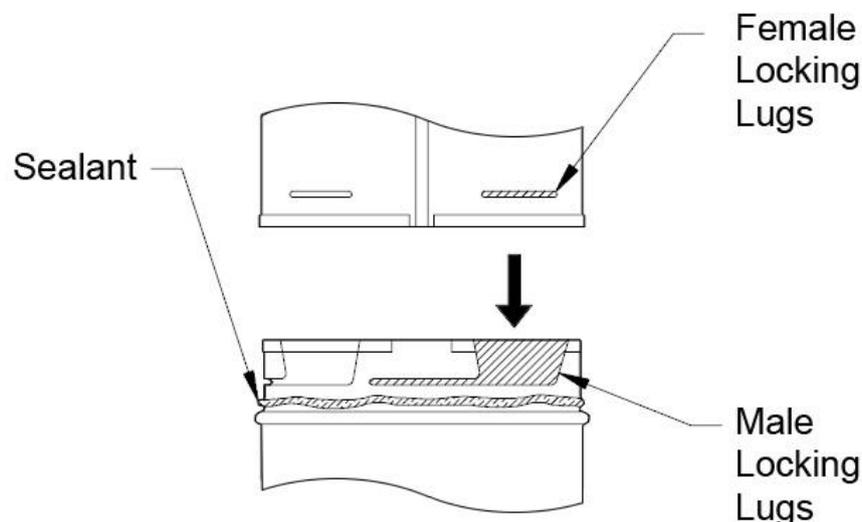
## 12.12 Twist locking procedure:

Before connecting flue components, to ensure an airtight seal run a single 1/8" wide bead of Mill-Pac High Temperature Sealant, or equivalent, on the 'male' end of the flue as shown in the diagram below.

The four indentations located on the female end of the flue are designed to slide straight onto the male ends of the adjacent flue length, by orienting the four flue indentations so they match and slide into the four entry slots on the male ends.

Push the pipe sections completely together, then twist-lock one section clockwise approximately one-quarter turn, until the two sections are fully locked.

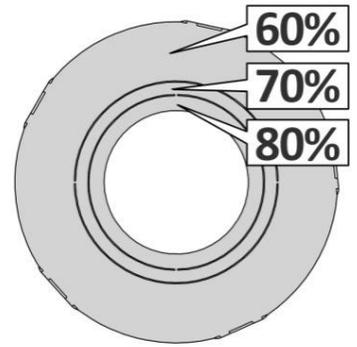
Wipe off any excess sealant from the exterior of the flue joint.



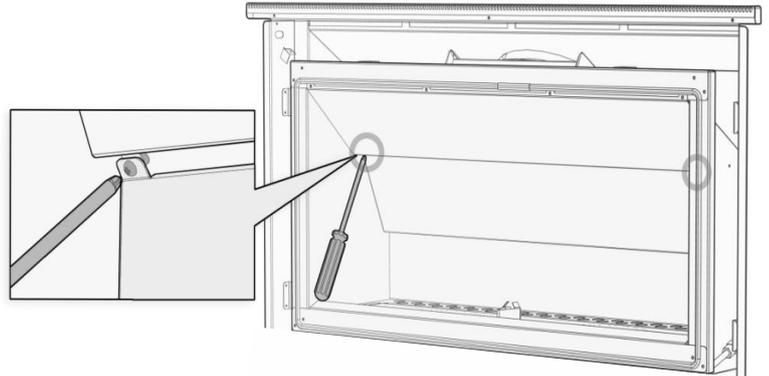
### 13.0 Fitting the Flue Restrictor:

If your flueing configuration requires that you fit a flue restrictor (see graph in section 12.5, 12.6, 12.7 of this manual to find out if your configuration requires a flue restrictor), follow the instructions below.

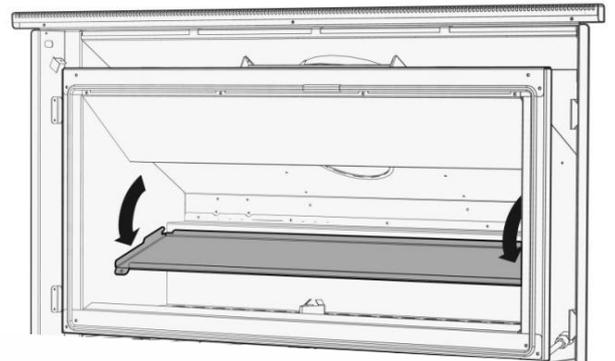
First, prepare the Flue Restrictor by removing and discarding the inner rings to achieve either 60% or 70% restriction as required and hand bending the five tabs 90°



Remove the firebox glass (if fitted), and using a Phillips / Pozi Drive screwdriver remove the two screws located inside the firebox as shown.

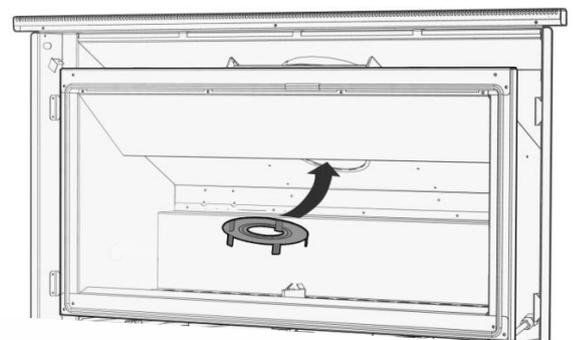


Once the two screws are removed the baffle will be free to slide down and out as pictured. Ensure the firebox paint is not scratched and that the baffle is not damaged.



Fit the flue restrictor by pushing it up into the flue with the tabs facing downwards as shown. Push it up into the flue until the tabs no longer protrude into the firebox and it is securely placed. If the restrictor is loose or will not stay in position manipulate the five tabs to suit.

Once the restrictor is in place, replace the baffle taking care not to damage or scrape the paint, and replace the two screws.



## 14.0 Converting to Propane Gas:

Where a conversion to propane gas is needed, the following steps should be followed

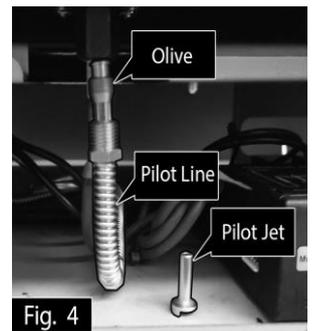
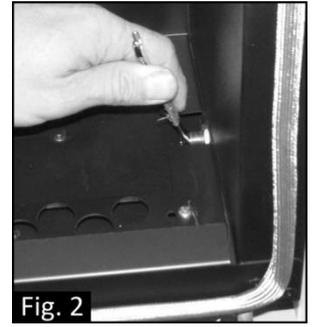
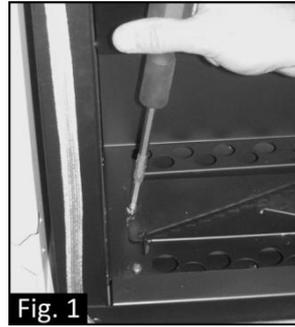
- 14.1** First you need to remove the burner by removing the screw holding it in place on the left hand side of the firebox (Fig. 1).

Then remove the 1.9mm burner jet (Fig. 2) and replace it with the 1.2mm jet supplied in the kit.

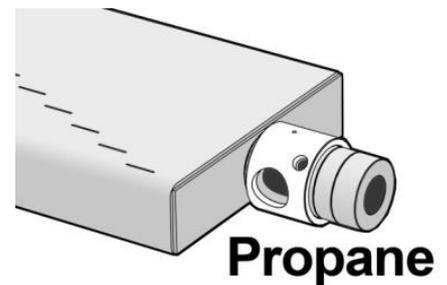
Now remove the gas pipe fitting under the pilot (Fig. 3) and remove the pilot Jet (Fig. 4) and replace it with the No.23 pilot jet supplied in the kit. No. 23 is used for Propane.

Replace pilot line.

Check the pilot line for leaks once assembled.



Set the Primary Aeration Collar on the burner to the Propane position as shown in the diagram by removing the screw in the side and then replacing it when the collar is in the correct position. NOTE: the collar is only able to be set to either NG or Propane positions. This is not an adjustable system. Place the burner back into the appliance and screw it in place.



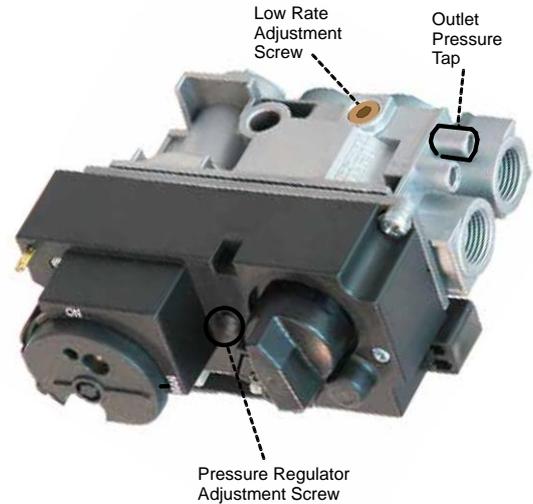
Set the pressure using the following instructions:

## 15.0 Changing Operating Pressure to Propane

To convert the operating pressure to Propane you must change the maximum and minimum pressures separately using the following instructions:

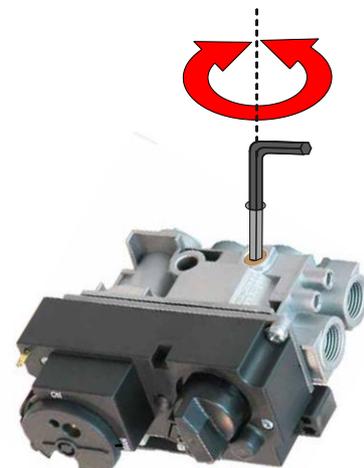
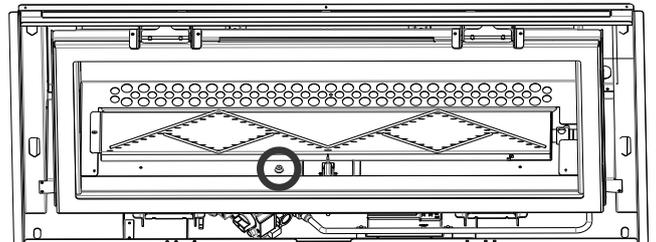
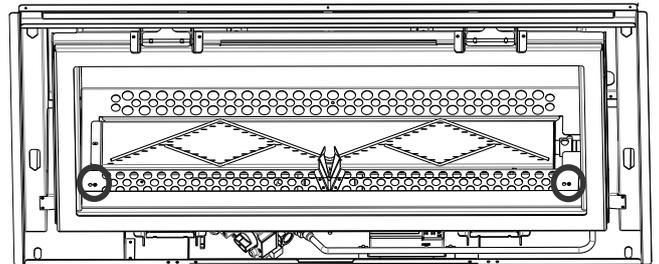
### 15.1 Setting Maximum pressure:

1. Connect a pressure manometer to the valve outlet pressure tap. Pressure tap is opened by turning the screw counter-clockwise. The pressure regulator can be reached by removing the domed-plug.
2. Turn the fireplace on and set to high flame.
3. Turn pressure regulator adjustment screw to set required burner pressure of 9.4 inch WC on high flame. Pressure is increased by turning the screw clockwise or decreased by turning the screw counter-clockwise.
4. After adjustment, replace the plug.



### 15.2 Setting Minimum Pressure:

1. Remove front infill by removing the two screws circled in the diagram to the right.
2. Remove the M6 machine screw circled in the lower right diagram.
3. Use 4mm long-reach Allen key to reach the low rate adjustment screw through the hole the M6 was removed from.
4. Turn low rate adjustment screw 1/3 turn clockwise.
5. Turn fire on low.
6. Confirm low rate pressure is at 4.8 inch WC.
7. If further adjustment is needed, turn off fire.
8. Increase low rate pressure by turning Allen key clockwise or decrease low rate pressure by turning Allen key counter-clockwise, until 4.8 inch WC is achieved.
9. 5. If no other adjustments are required, close the outlet pressure tap by turning the screw clockwise. Check all connections and pressure taps for leaks.
10. Finally, put the sticker supplied in the conversion kit in onto the existing dataplate of the ST900.

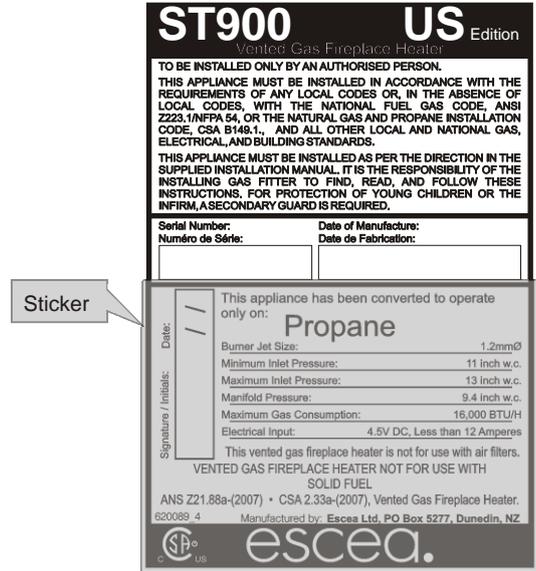


**Note:** The ST900 must be disconnected from the gas supply piping system using the inline shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to, or more than 1/2 psi.

The sticker must be signed and dated by the installer who has converted the fire.

The ST900 dataplate is located in the lower left of the fireplace, on a metal plate tethered to the fireplace.

**Note: This will need to be completed on the English language as well as the French language dataplates. (English language dataplate shown)**



Sticker

The conversion is only complete once the conversion label has been adhered to the available label plate and filled out by the tradesperson who has completed the gas type conversion.

This appliance was converted on  
*Cet appareil a été converti le* \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 day/jour month/mois year/année

to **Propane** gas with  
*pour fonctionner au gaz **Propane** à l'aide de la*

Kit No.  
*trousse n°* \_\_\_\_\_

by  
*par* \_\_\_\_\_

\_\_\_\_\_

(name and address of organization making this conversion), which accepts  
*(nom et adresse de l'organisme qui a effectué la conversion), qui accepte*

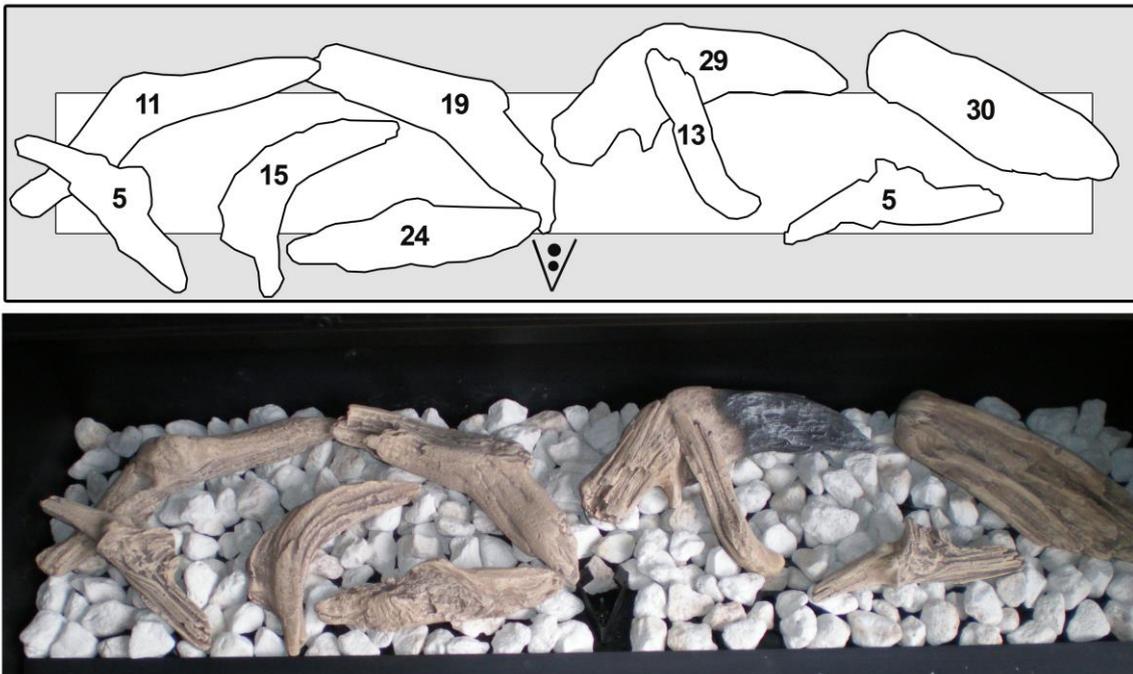
the responsibility that this conversion has been made properly.  
*l'entière responsabilité de la conversion.*

## 16.0 Placing the Fuel Bed Media:

Your ST900 Gas fireplace will be supplied with a Fuel Bed kit. Follow the instructions below for the Fuel Bed kit that applies to you.

### 16.1 Driftwood Fuel Bed:

First scatter one layer of the supplied white stones evenly across the base of the firebox, ensuring there are no stones or driftwood pieces inside the pilot flame surround guard. Arrange the supplied driftwood pieces exactly as shown in the diagram and photo below. Underneath each piece of driftwood a number is written which will help in correctly positioning it within the firebox.



### 16.2 Coal or Glass Fuel Bed:

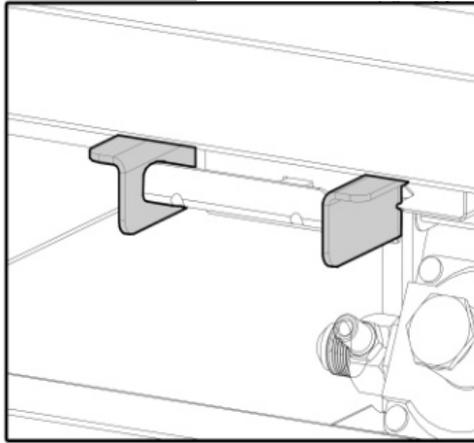
Scatter the supplied fuel bed media evenly across the base of the firebox, ensuring there are no coals, glass or media inside the pilot flame surround guard which may obstruct or impair the pilot assembly.



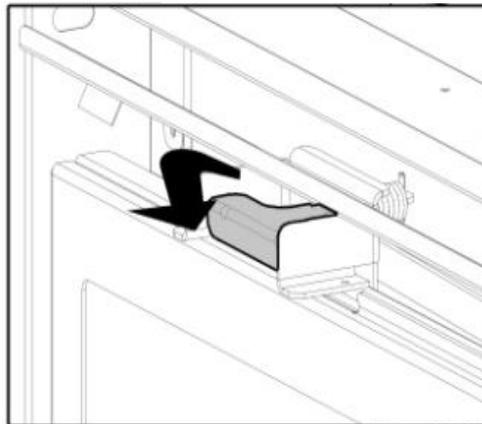
Ensure no coals, driftwood, or other material are inside the pilot flame surround guard, and the pilot flame is clearly visible. If any loose material is inside this guard it may interfere with the pilot and ignition system.

## 17.0 Refitting the Glass Assembly

To re-fit the glass assembly, place the bottom of the glass assembly onto the locating tabs on the front of the firebox.



Then fasten the 4 hooks onto the glass assembly by pulling them towards you and then down over the matching receptacles.



- 17.1** To clean the glass, remove it as described in section 11.0 and clean inside and out using standard window cleaner. Do not allow glass to become excessively dirty as this will be difficult to remove.

If you require a replacement glass assembly one is available through escea retailers or dealers using the product code: 802207

**WARNING:**

- DO NOT ATTEMPT TO CLEAN THE GLASS WHILE IT IS HOT.
- DO NOT OPERATE APPLIANCE WITH THE GLASS FRONT REMOVED, CRACKED OR BROKEN. REPLACEMENT OF THE GLASS SHOULD BE DONE BY A LICENSED OR QUALIFIED SERVICE PERSON.
- DO NOT CLEAN THE GLASS USING ABRASIVE CLEANERS.
- ONLY USE ESCEA GLASS, DO NOT USE ANY SUBSTITUTES.
- TAKE CARE NOT TO DAMAGE THE GLASS BY STRIKING OR DROPPING IT.

## 18.0 Covering up the Fireplace:

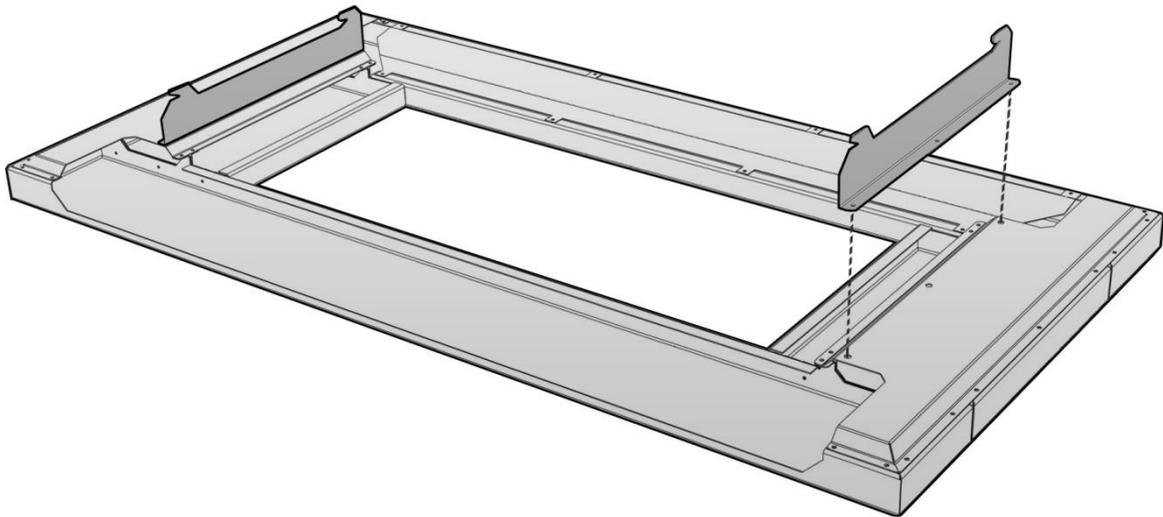
Before the wall surrounding the ST900 is lined, the fireplace must be covered up and sealed to prevent dry wall and construction dust from getting into the fireplace. It is recommended that the packaging supplied with the fireplace is used to achieve this.

## 19.0 Commissioning the Fire:

After the cladding and finishing processes are completed, the gasfitter must return to the site to fit the grill trim, run the fire for a minimum of 20 minutes and finally assemble and fit the fascia.

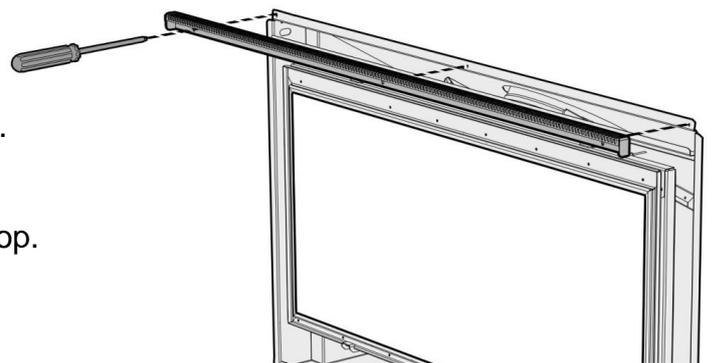
### 19.1 Assembling the Ferro fascia:

1. The ST900 Ferro fascia has two brackets supplied in the fascia box which have not been fully assembled. To assemble them use the 4x screws supplied to fasten the brackets to the fascia as shown below. Position the brackets with the flange facing outwards, and the hooks facing the bottom of the fascia [Identify the bottom of the fascia by the large cut-out shown below].



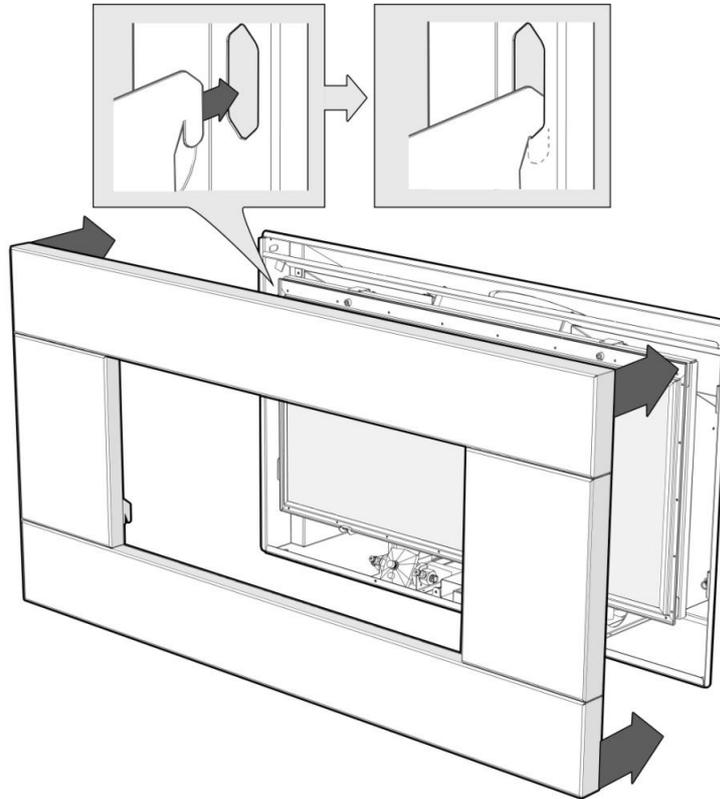
2. Fitting the Grill Trim:

Packed in with the fascia kit is the Grill Trim. Attach this to the fire using the 3 supplied screws in the positions shown to the right. The perforated surface (grill) should be on top.



3. The ST900 fascia uses these four hooks for attaching to the fire. Do this by lining up the fascia hooks with the receptacles on the sides of the fire. Lift the fascia so that the hooks are above the receptacles, and let it drop down into position until it is secure and free from movement. **Remove all protective plastic and packaging material before operating the fire.** Care should be taken when handling the fascia.

To remove the Fascia, lift it upwards briefly, and then pull towards you. Ensure the fascia is allowed to cool before attempting to remove it.



## 19.2 Cleaning the ST900 Fascia:

The fascia must be cold before starting any form of maintenance or cleaning.

If your Stainless Steel fascia requires cleaning, 3M Stainless Steel cleaner (or equivalent) is recommended.

If your Powder Coated (Painted) fascia requires cleaning, you must only use a damp non-abrasive cloth to give it a gentle wipe. Never ever rub the fascia

## FOR YOUR SAFETY READ BEFORE OPERATING

**DANGER:** If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life. Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owners information manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency or gas supplier.

- A. This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.
- B. BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- WHAT TO DO IF YOU SMELL GAS**
- ⚠ Do not try to light the appliance
  - ⚠ Do not touch any electrical switch; do not use any phone in the building.
  - ⚠ Immediately call your gas supplier from a neighbor's phone. Follow gas suppliers instructions.
  - ⚠ If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to press the remote handset buttons. Never use tools. If the remote handset buttons do not appear to work, change the batteries. If that doesn't help, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

**CAUTION:** Hot while in operation. Do not touch. Severe Burns may result. Due to high surface temperatures keep children, clothing and furniture, gasoline and other liquids having flammable vapors away. Keep burner and control compartment clean. See installation and operating instructions accompanying appliance.

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## OPERATING INSTRUCTIONS

1. **STOP!** Read the safety information below on this label. This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.
  2. **TO TURN OFF:** Press and hold the '⊕' (ON/OFF) button on the remote handset. This will turn the fire off and shut down the flow of gas to the fire. The display should now read 'OFF'; release button.
  3. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go on to the next step.
  4. The display should read 'OFF'. Press and hold the '⊕' button until a blinking series of lines appears on the display to turn the appliance ON.
  6. You can now adjust the flame setting using the '▼' button for lowering the flame height and the '▲' button for raising it.
  7. If the pilot burner does not light, wait ten (10) seconds and begin the ignition sequence again from step "2".
- If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier

620379\_1

## TO TURN OFF GAS TO APPLIANCE

1. Press and hold the '⊕' (ON/OFF) button on the remote handset. This will turn the fire off and shut down the flow of gas. The remote screen should now read "OFF".

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## 20.0 Remote Instructions

### 20.1 Pairing the Remote to the Control Unit:

The remote supplied is already paired with the receiver (control) unit in the factory. Use the following only when required:

1. Press and hold the receiver's reset button until you hear two beeps. The first beep is short and the second beep is long. After the second beep release the reset button.
2. Within the subsequent 20 seconds, press the down button on the handset until you hear two additional short beeps confirming the code is set. If you hear one long beep, this indicates the pairing has failed or the wiring is incorrect.

NOTE: Pairing is not required after changing the batteries of the remote or receiver.

## 20.2 Remote Operational Instructions (REFER TO USER MANUAL)

### 21.0 Sounds and Smells:

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

#### 21.1 Sounds:

It is possible that you will hear some sounds from your gas appliance. This is perfectly normal due to the fact that there are 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. 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 burner 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 "dull drumming" and "ticking" sounds being heard throughout the cycling process.

#### 21.2 Smells:

The first few times the unit is operated, the unit may release an odour and the flames may appear orange caused by the curing of the paint, the burning off of the starch in the gas coals and the oils in the metal and finishes. 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 coals may appear as a build up after several uses. If this film is not removed, it may bake on and may become difficult to remove. When the glass is cold, remove it (see section 14.0) and clean the inside with a non-abrasive cleaner.

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

## 22.0 Annual Service Check:

The ST900 Fireplace should be serviced annually to ensure it continues to operate in a safe manner. This annual service check should involve the following

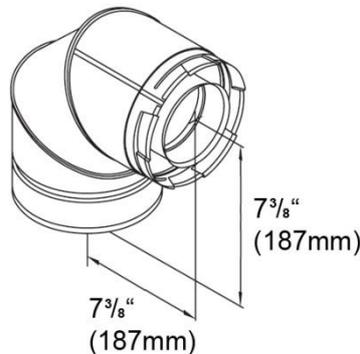
- Check thermocouple holds the cartridge
- Check glass assembly gasket
- Clean pilot and main burner jets
- Paint firebox [if required]
- Inspect flue system [if possible]
- General clean and inspection

## 23.0 Installation Check List:

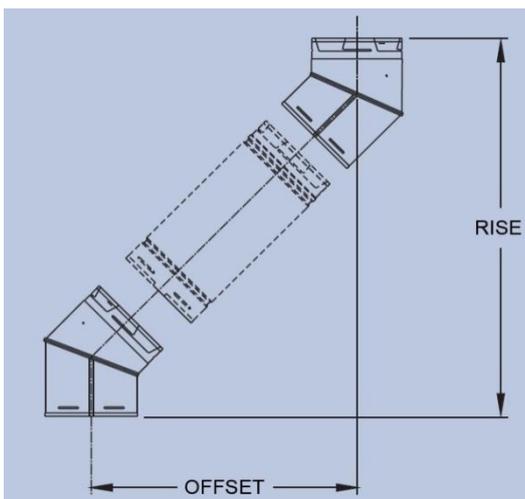
- |    |  |                          |
|----|--|--------------------------|
| 1  | Fuel bed correctly installed as per manual _____   | <input type="checkbox"/> |
| 2  | Operating pressure checked with fireplace running on full (high flame setting) and all other gas appliances in the house switched on. _____                            | <input type="checkbox"/> |
| 3  | Flue restrictor fitted if required, Flame picture verified 15 minutes After start-up. _____  | <input type="checkbox"/> |
| 4  | Ensure the pilot frame is clearly visible and free from loose material (coals). _____  | <input type="checkbox"/> |
| 5  | After dry wall installation and finishing, run fireplace on high for 60 minutes with house doors and windows open to clear smell of paint and oils initial burn. _____ | <input type="checkbox"/> |
| 6  | Fireplace and flue clearances comply with these instructions. _____  | <input type="checkbox"/> |
| 7  | Fireplace securely fixed to wall. _____  | <input type="checkbox"/> |
| 8  | Leak test all joints and pressure test points. Soapy water and drop test done on pipe work. _____  | <input type="checkbox"/> |
| 9  | Remote cradle screwed to wall. _____   | <input type="checkbox"/> |
| 10 | House holder has been shown how to operate fireplace. _____  | <input type="checkbox"/> |
| 11 | User manual + instructions have been left out for house holder, installer has filled in their own details and fireplace serial number into warranty card. _____        | <input type="checkbox"/> |
| 12 | Inform the customer that the fireplace may continue smelling for a while after installation depending on frequency & duration of use _____                             | <input type="checkbox"/> |
| 13 | Given House Holder Plumbing Industry Commission Compliance Certificate. _____  | <input type="checkbox"/> |

## 24.0 Appendix A: Points to note when planning the Installation of the Escea DV flue:

- This flue system cannot be cut to length. Correct lengths must be selected for each installation.
- The listed length of the flue pipe is not the installed length. 1 ½" needs to be subtracted for each joint to determine the installed length of each piece of flue pipe. E.g. 48" length has installed length of 45".
- All vertical measurements should be measured from the top surface of the fireplace casing itself (not the fascia).
- When using horizontal flue runs, vertical measurements should be measured to the centre line of the horizontal flue pipes.
- When using 90° elbows in the installation, use the diagram below to help calculate installations horizontal and vertical distances. 1½" will still need to be subtracted from each joint.

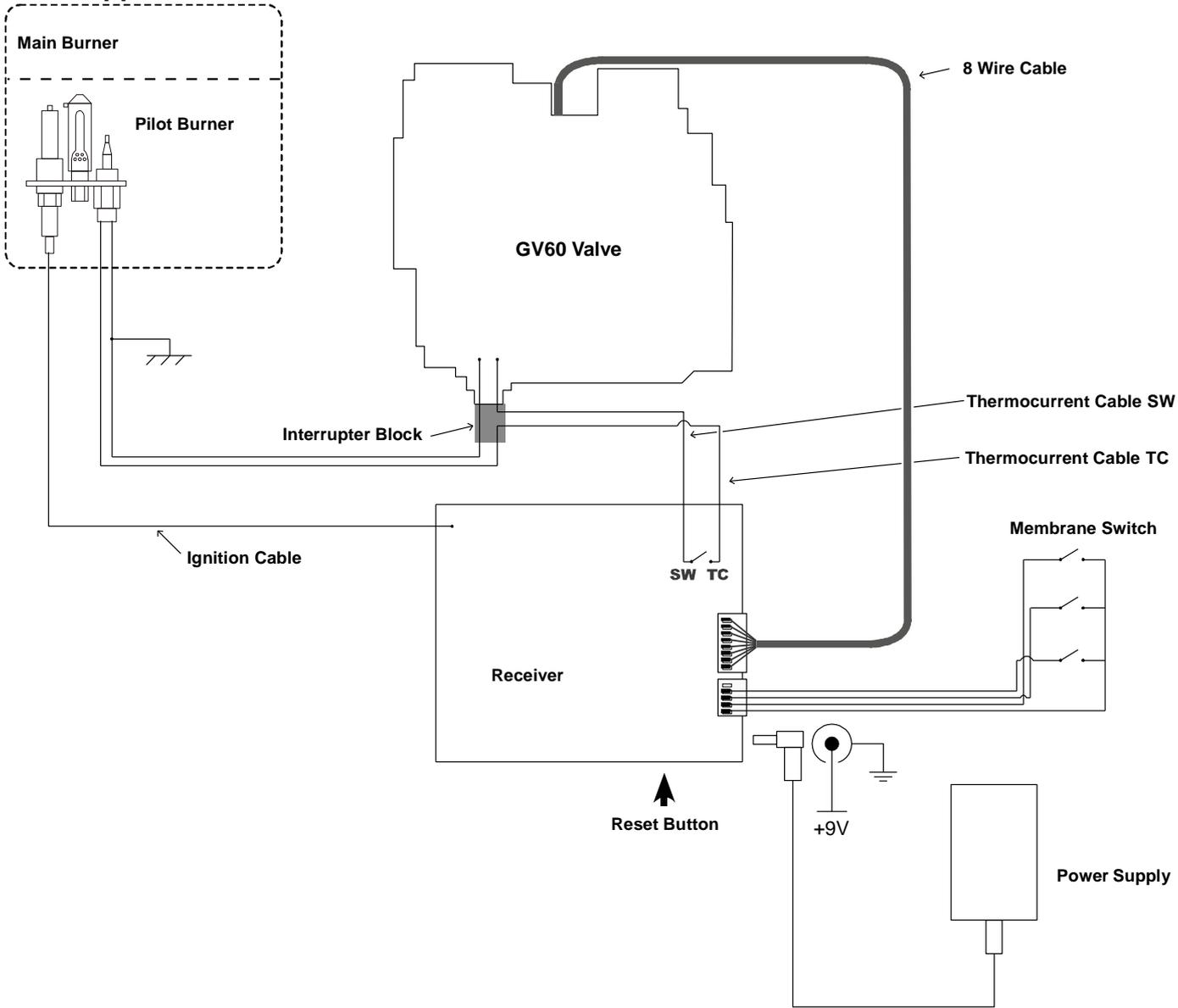


- If using a 45° offset in your installation, consult the chart below to select the required flue length to give the desired offset. 1½" will still need to be subtracted from each of the 45° bends to allow for the joints.

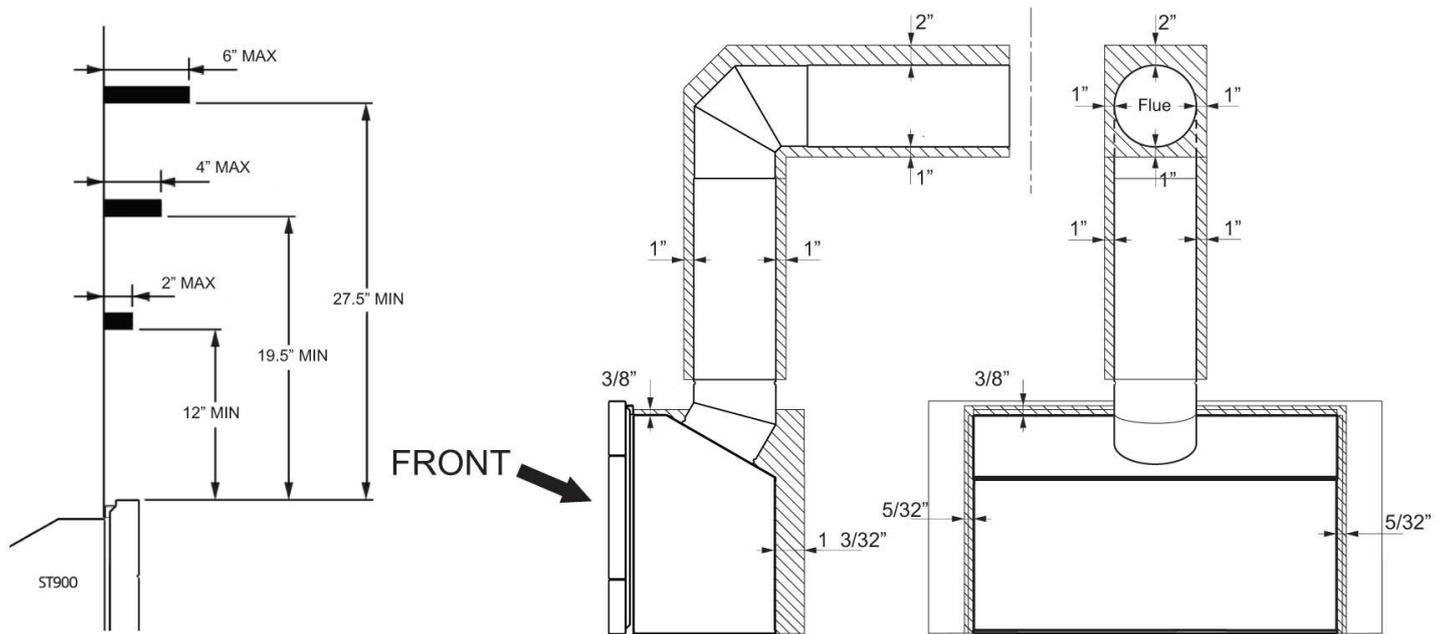


<b>Straight Flue Length:</b>	<b>Offset:</b>	<b>Rise:</b>
<b>0"</b>	5 5/8"	15 3/8"
<b>6"</b>	8 7/8"	18 3/8"
<b>9"</b>	10 7/8"	20 5/8"
<b>12"</b>	13"	22 5/8"
<b>24"</b>	21 3/8"	31 1/8"
<b>36"</b>	29 7/8"	39 3/8"
<b>48"</b>	38 1/4"	47 7/8"

24.1 Appendix B:



## 24.2 Appendix C: Clearances to Combustible Surfaces:



Mantle Clearances  
Éloignement supérieur autorisé

Clearances to combustibles  
Éloignement des parties combustibles autorisé

The left and right sides of the appliance are determined when facing the FRONT of the appliance.  
Le côté droit et le côté gauche de l'appareil sont déterminés quand on se trouve eu face de l'appareil.

## 24.3 Appendix D: Replacement Parts:

Replacement parts for the ST900 gas fireplace are available from all Escea retailers or distributors.

802056	ST Replacement remote controller (if lost or damaged beyond repair) - GV60
802207	ST900 Replacement glass Kit
802100	ST900 Gas Fireplace White Ceramic Stones Conversion Kit
802101	ST900 Gas Fireplace Black Ceramic Stones Conversion Kit
802104	ST900 Gas Fireplace Ceramic Driftwood & Coals Conversion Kit
802149	ST900 Ignition Tray NG (GV60)
802150	ST Series Controller Box (GV60)
802151	ST Series Valve (GV60)
802152	ST Series Controller Wires (GV60)
802153	ST Membrane Switch (GV60)
802154	ST Thermocouple (GV60)
802208	ST Pilot NG (GV60)
802209	ST Pilot Propane (GV60)
802210	ST Pilot Jet NG (GV60)
802211	ST Pilot Jet Propane (GV60)
802020	ST900 Burner

## 25.0 WARRANTY TERMS & CONDITIONS:

### 1. Express warrantee

- 1.1 This document sets out the warrantee that applies in respect of Escea products purchased in countries/regions administered by Escea Distributors listed in the appendix.
- 1.2 This warrantee is valid only within the country of purchase.
- 1.3 This warrantee applies to new Escea products purchased after January 1, 2014.

### 2. Nature of warrantee

- 2.1 Subject to the exclusions in section 3 and clauses 2.2 – 2.5, we undertake to put right any defects of materials or workmanship by Escea for the periods specified below:

Parts	Parts and Labor Warrantee	Parts Only Warrantee
Firebox	2 year *	5 year *
All other parts	2 year *	

\*From date of purchase

- 2.2 Where an Escea product is covered by a parts and labor warrantee, the warrantee covers both the repair by Escea of the defective part or the provision of a spare part to replace the defective part and the installation of that part.
- 2.3 Where an Escea product is covered by a parts only warrantee, the warrantee covers only the repair by Escea of the defective part or the provision of a spare part to replace the defective part and does not include costs associated with the removal of the defective part or the installation of the repaired or replaced part.
- 2.4 Due to ongoing product development, Escea reserves the right to change any specifications listed in this warrantee without notice.
- 2.5 Escea or Escea distributor must preauthorize all warrantee work.

### 3.0 Warrantee exclusions

- 3.1 This warrantee excludes:

- 3.1.1 Improper installation, failure to function due to accident, negligence or misuse, alteration or adjustment of the manufacturer's settings of components, any other alteration, lack of proper and regular maintenance, incidental or consequential damage, damage incurred while the appliance is in transit, and act of God.
- 3.1.2 Any repair and replacements of parts that are subject to normal wear and tear during the warrantee period, including paint, gaskets, batteries, and the discoloration of glass or the fuel bed.
- 3.1.3 Minor expansion, contraction, or movement of certain parts causing noise;
- 3.1.4 Changes in the interior/exterior surface finishes (e.g. any staining or soot/smoke damage caused by flue products);
- 3.1.5 Damage to surfaces caused by fingerprints, scratches, or melted items;
- 3.1.6 Damage caused by abnormally corrosive environments (e.g. sea salt corrosion);
- 3.1.7 The use of products, including flue systems, that are not specified by Escea;
- 3.1.8 Damage caused by the installation of indoor fires outdoors and outdoor fires indoors;

- 3.1.9 Cost of building work to access parts that need change or repair of wall afterwards;
- 3.1.10 Cost of travel if the fireplace is installed further than the distance from the nearest service centre as specified in the appendix.
- 3.1.11 Subjective factors (e.g. like noise or smell) that have been investigated by Escea (or their technicians) and confirmed to be within normal operational parameters;
- 3.1.12 Any differences in fireplace appearance from Escea promotional images that is due to printing limitations, environmental factors or gas type.
- 3.1.13 Damage caused by water entering the Escea indoor products;
- 3.1.14 Any consequential damage (refer to section 4);
- 3.2 No dealer, distributor, or similar person has the authority to warrant Escea products beyond the terms contained in this warrantee.
- 3.3 This warrantee is automatically voided if the appliance's serial number has been removed or altered in any way.

#### **4. LIMITATION OF REMEDIES:**

##### **4.1 TO THE EXTENT PERMITTED BY LAW:**

- 4.1.1 This limited warrantee, and the remedies set forth above, are exclusive and in lieu of all other warrantees, remedies and conditions, whether verbal or written, statutory, express or implied.
- 4.1.2 Escea specifically disclaims any and all statutory or implied warrantees and conditions, including, without limitation, warrantees of merchantability, fitness for a particular purpose and warranties against latent defects.
- 4.1.3 Except as provided herein, Escea is not responsible for direct, special, incidental or consequential loss or damages resulting from any breach of warrantee or condition, or under any other legal theory, including but not limited to the loss of any of the following: use; revenue; actual or anticipated profits (including loss of profits on contracts); use of money; anticipated savings; business; opportunity; goodwill; reputation; any or indirect or consequential loss or damage howsoever caused including the replacement or equipment and property.
- 4.1.4 Some states in Canada and in some States in the United States do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to buyer.

#### **5. How to make a warrantee claim**

- 5.1 To make a claim under this warrantee, follow the process outlined in the appendix.
- 5.2 To make a valid claim under this warrantee, you must:
  - 5.2.1 Lodge the claim with us as soon as you first become aware of the breakdown;
  - 5.2.2 Provide us with the Escea product serial number;
  - 5.2.3 Provide us with reasonable proof of purchase for the Escea product; and
  - 5.2.4 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).

#### **6. Warrantee claims**

- 6.1 If you make a valid claim under a parts and labor warrantee and none of the exclusions set out in section 3 and clauses 2.2-2.5 apply, Escea will, at Escea's election, either:
  - 6.1.1 Repair the relevant part of the Escea product; or
  - 6.1.2 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).

6.2 If you make a valid claim under a parts only warrantee and none of the exclusions set out in section 3 and clauses 2.2-2.5 apply, we will, at our election, repair or provide a replacement part at no cost. Installation of that part is not covered under a parts only warrantee.

#### **Escea Warrantee Conditions Appendix**

In this warrantee, the words “we”, “our”, and “us” refer to the Distributor listed below.

<b>Regions</b>	<b>Escea distributor</b>	<b>Filing a claim</b>
USA / Canada	Firebrands 13287 West Star Drive Shelby Township MI 48315 <a href="http://www.firebrands.biz">www.firebrands.biz</a> Phone: (866)343-3130	Visit the distributor website or call distributor directly

Where you make a claim under this warrantee, an authorized 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 miles from the nearest service centre to your location. You may obtain details on the location of service centres and service call fees by visiting the distributor website or calling distributor customer care line.









Use the following troubleshooting chart to diagnose and fault-find operational issues with the ST900 gas fireplaces.

## 15.0 Troubleshooting

Problem	Cause	Solution	
No response from the valve	Remote may not be paired	Follow instructions from section 19.1 of the Installation Manual	
	Batteries are dead.	Replace the batteries using the instructions from page 5 of the User Guide	
	8-pin connector has bent pins	Repair the motor wiring	
	Motor wiring is damaged	Replace the Remote and pair the remote using instructions from section 9.1 of the Installation Manual	
	Damaged Remote	Replace the receiver and pair the remote using instructions from section 9.1 of the Installation Manual	
	Damaged Receiver	Replace the receiver and pair the remote using instructions from section 9.1 of the Installation Manual	
	One long 5 second beep (might be 7 short beeps before the long 5 second beep)	8-pin connector has bent pins	Straighten the pins on the 8-pin connector
	Valve is damaged	Replace the control valve	Replace the control valve
	Air in the gas pipes	Purge the line using the outlet pressure tap or wait it out by attempting the ignition sequence several times	Connect the thermocouple wires correctly as per the diagram in section 23.0 of the Installation Manual
	Thermocouple wires are transposed	Thermocouple wires are transposed	Connect the thermocouple wires correctly as per the diagram in section 23.0 of the Installation Manual
No pilot flame (sparkling but no gas)	Pilot injector is blocked	Carefully clean the injector	
Ignitor is continually sparking while the burner is lit	Damaged Receiver	Replace the receiver and pair the remote using instructions from section 9.1 of the Installation Manual	
Pilot is burning correctly but the control valve closes after approximately 10 seconds or when the appliance gets too hot	Batteries are close to empty	Replace the batteries using the instructions from page 5 of the User Guide	
Multiple Short beeps but no response can be heard from the control valve and no spark is present.	Batteries are close to empty	Replace the batteries using the instructions from page 5 of the User Guide	
Pilot is lit but there is no gas flow to the main burner	The dial on the valve is set to MAN	Switch dial on the valve to ON	
Valve is damaged	Valve is damaged	Replace the control valve	
Pilot is burning correctly but the control valve closes after approximately 10 seconds or when the appliance gets too hot	Thermocouple is not functioning correctly	Use a multimeter to measure mV from the wires to the interruptor block. The voltage should read at least 5mV within a 20 second time period. Must not be lower than 5mV when the appliance is hot. If the voltage was under 5mV, the thermocouple should be replaced.	

### 13.0 Re-establish Power and Gas Connections

With all applicable service work completed and the fire fully assembled again the gas can be re-established and the batteries replaced.

Check gas inlet pressure against data plate at the inlet pressure tap using a manometer. Adjust gas pressure to specifications stated in the product specification page in the front of the Installation Manual.

Remove the manometer and replace the test point screw.

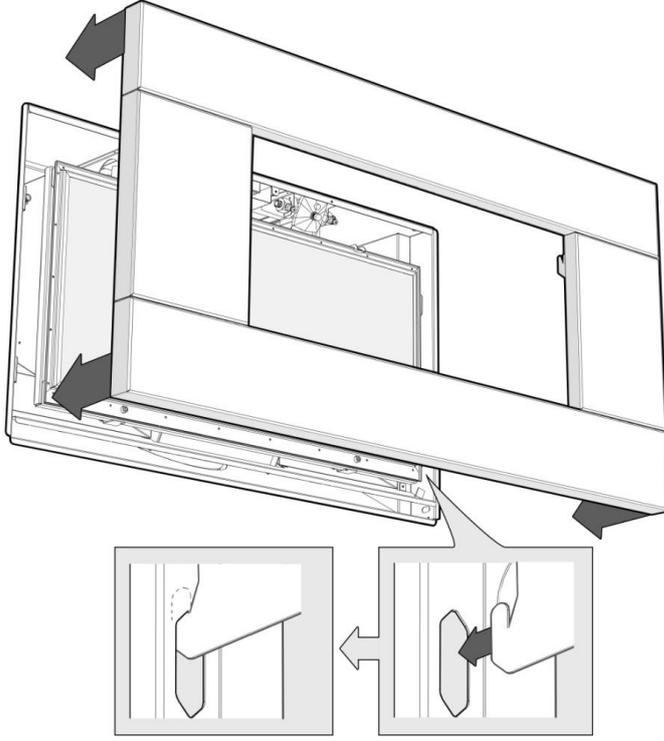
Leak test all test points and gas system joins/unions.

Check that the pilot flame correctly impinges on the flame failure device

(thermocouples should not glow red, as this indicates that the pilot flame is set too high and will reduce the life of the thermocouple).

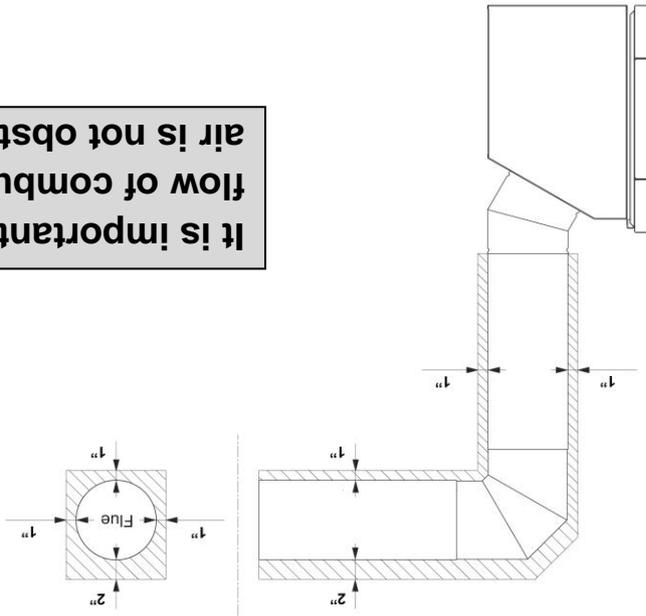
### 14.0 Re-fit the Fascia

The ST900 fascia uses four hooks for attaching to the fire. Do this by lining up the fascia hooks with the receptacles on the sides of the fire. Lift the fascia so that the hooks are above the receptacles, and let it drop down into position until it is secure and free from movement.



### 10.0 Inspect Flue System [if possible]:

If you have access to the flue system, inspect it for damage or potential blockages (including the cowl). Ensure each flue component is twist-locked into the adjacent components and that there are no combustible objects or materials within 1" of either side or below flue components or 2" above any flue components, as shown in the diagram below:



**It is important to ensure that the flow of combustion and ventilation air is not obstructed.**

### 11.0 General Clean and Inspection:

A general clean of the ST900 should be undertaken by wiping down or dusting all accessible areas and surfaces.

### 12.0 Re-assemble

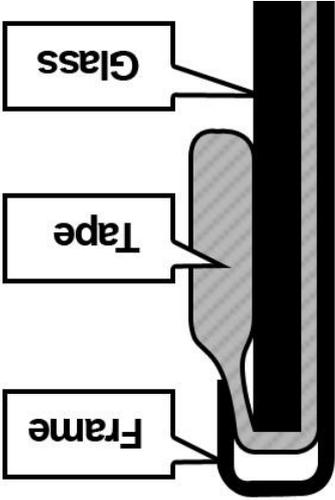
Once the service work is complete, the fire should be re-assembled by reversing the actions done in previous steps, replacing the Pilot Cover, Burner, Fuel bed media, Glass assembly, and Control Tray (if removed).

Other components on the control tray can be replaced when necessary while tray is separate from the fireplace.  
 When replacing the tray, make sure to reconnect all gas pipes tightly and using a sealant where required. A leak test should be done on all disturbed fittings using a soapy water solution.  
**NOTE:** When re-tightening the electrode nut, be sure not to over-tighten as this will damage the electrode's ceramic insulator.

**6.0 Check Glass Assembly:**

Check that the glass assembly (Removed in section 3.0) for damage to glass or sealing tape. If the glass has any visible damage it must be replaced before use.

Ensure the tape which seals the glass against the firebox is in the correct position (shown to the right) and that the glass is secure inside the metal frame and free from movement.



**7.0 Clean Pilot and Main Burner Jets:**

With the burner removed the burner jet is now accessible. Remove the jet and clean it using an appropriate method, such as using a micro drill or compressed air.

**8.0 Clean Thermocouple:**

With the Pilot Cover removed you now have access to clean the thermocouple. Do this by wiping it down with a rag or other appropriate cleaning tools in order to remove any soot from the surface.

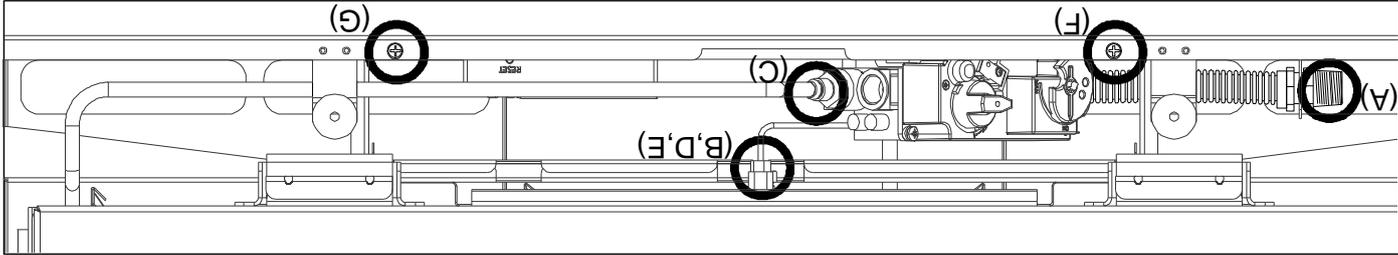
**9.0 Paint Firebox [if required]:**

If there are any scrapes or damage to the paint on the inside of the firebox you may wish to touch up the paint. To do this, use a suitable high temperature matt black paint. Do not put any paint on the burner, as there is a risk of blocking burner ports.

**5.0**

**Remove Control Tray [if required]:**

If the thermocouple needs to be replaced, or the control tray needs to be cleaned and/or repaired, it may be necessary to remove the control tray from the appliance.



1. First disconnect the main gas connection (A) at the appliance connection, the nut (B) connecting the pilot tube to the pilot assembly, and the nut (C) connecting the main burner pipe to the valve.

2. Remove the burner and the brass nut that retains the burner nozzle from the inside R/H face of the firebox. The main burner gas pipe may now be removed.

3. Then detach the electrode by pulling downwards on the grey wire attached to the pilot assembly and unscrew the electrode nut (D) and remove the electrode.

4. The thermocouple nut (E) attached to the pilot assembly (rear nut) should now be unscrewed, followed by carefully pulling the thermocouple downward to disengage from the pilot assembly.

5. Disconnect the touch pad (membrane switch) and the transformer from the receiver.

6. Once the two screws (F+G) pictured above are removed the tray is free to be lifted (ensuring that all wiring is clear from sheet metal) up 15mm to clear the metal edge and pulled towards you.

**If the thermocouple needs to be replaced**, unscrew from the interrupter block. It can then be replaced with the replacement thermocouple and tightened into the interrupter block.

**Note:** A stainless steel sleeve (highlighted red in lower left picture) must be present and situated as shown before installing the thermocouple. When installing the thermocouple, push the thermocouple upwards as far as possible during the tightening of the nut to achieve the correct height for the thermocouple to sit. Check that it is at the correct height by referring to the bottom right picture.



## 4.0

### Remove Firebox Contents:

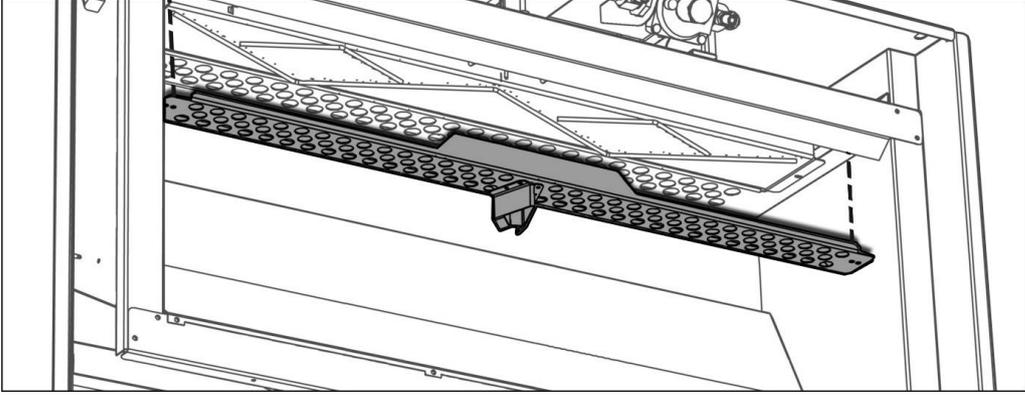
Ensure the firebox contents have cooled down completely before attempting to touch or remove any part.

First remove all fuel bed media (Driftwood and white stones or Coals) and place them carefully to the side somewhere they will not be damaged.

**The driftwood logs are very fragile – Use extreme care!**

Next remove the burner by removing the screw holding it in place as shown to the right, and then lifting the left side of the burner upwards and sliding the burner off the jet on the right hand side.

You will also need to remove the Pilot Cover (The long grill at the front of the firebox) in order to access and clean the pilot and thermocouple. To do this, remove the two screws on either side of the Pilot Cover and lift upwards, as shown below, taking care not to scrape or damage the firebox as shown below.



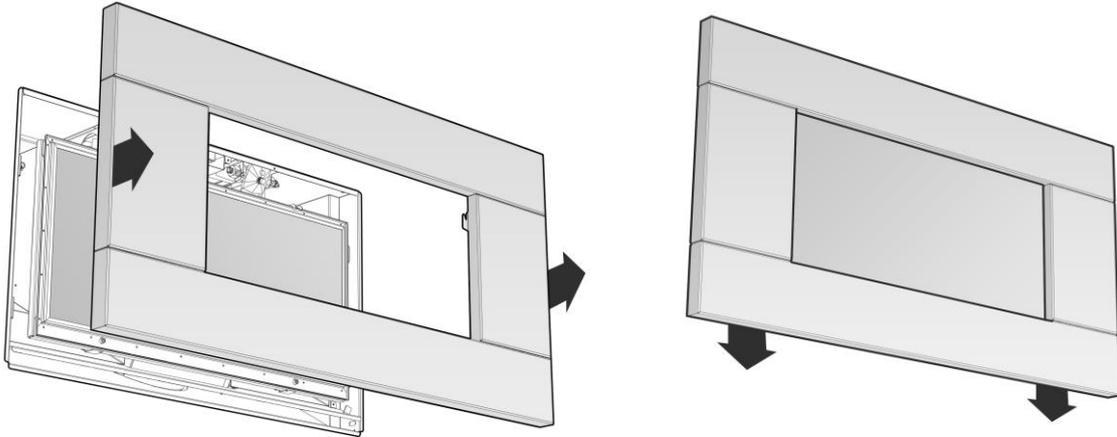
**1.0 Isolate Power and Gas Supply:**

Before any service and maintenance work is done on the ST900, the gas supply must be isolated or shut off. Gas can be isolated by either turning the gas off at the cylinders, at the meter or at the appliance isolation valve. Power can be isolated by removing the batteries from the battery pack and/or powering off the transformer.

**2.0 Remove the Fascia:**

Ensure the fascia has cooled before attempting to remove it.

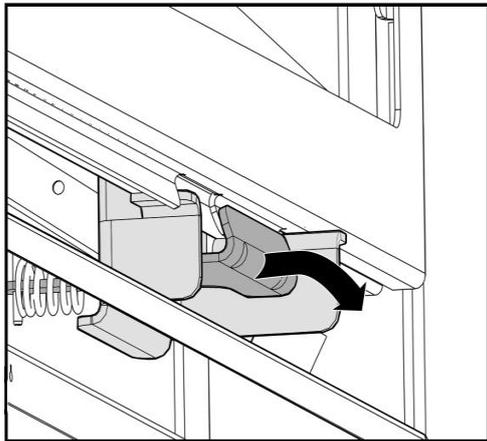
The ST900 fascia attaches to the fire by four hooks. To remove the fascia, simply lift it upwards 5/8"-3/4", and pull towards you. Care should always be taken when handling the fascia.



**3.0 Remove Glass Assembly:**

Ensure the glass assembly has cooled completely before attempting to remove it.

Pull the four hooks shown below towards you and then away from the glass to release the glass frame underneath the hook. Lift the glass assembly towards you to clear the locating supports and place it flat upon some newspaper or a sheet of cardboard to protect your floor coverings



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ST900 Direct Vent Gas Fireplace

# Service Guide

NORTH AMERICA EDITION



## Important

- It is recommended that this appliance be serviced every 12 months
- Any service operation should be carried out only by a suitably qualified and trained person.
- Gas supply MUST be isolated before any service operation is carried out on this appliance.

*Ce manuel est disponible en Français sur demande. [www.escea.com](http://www.escea.com)*

Manufactured By: Escea Ltd, 17 Carrforth Street, Green Island, Dunedin 9018, NZ. Ph: +64 3 4788220  
For distribution details see: [www.firebrands.biz](http://www.firebrands.biz)