



# VFC Radiant & Convector

Fire Range

With Upgradeable Control Valve



## Instructions for Use, Installation and Servicing

For use in GB, IE (Great Britain and Republic of Ireland)

### IMPORTANT

**THIS PRODUCT HAS A NAKED FLAME. IT IS IMPORTANT TO ENSURE THAT ADEQUATE PRECAUTIONS ARE TAKEN TO ENSURE THAT NO OBJECTS COULD COME INTO CONTACT WITH THE NAKED FLAME. UNDER NO CIRCUMSTANCE SHOULD RUBBISH BE THROWN INTO OR BURNT ON THIS APPLIANCE.**

**PARTS OF THIS APPLIANCE WILL BECOME HOT DURING OPERATION; IT IS THEREFORE RECOMMENDED THAT A SUITABLE GUARD SHOULD BE USED FOR PROTECTION OF YOUNG CHILDREN, THE ELDERLY OR INFIRM.**

These Instructions must be left with the appliance for future reference and for consultation when servicing the appliance. Please make the customer aware of the correct operation of the appliance before leaving these instructions with them.

The commissioning sheet found on Page 3 of this Instruction manual must be completed by the Installer prior to leaving the premises.

# Contents

## VFC Radiant & Convector - Fire Range

Covering the following models:

VFC Radiant		VFC Convector	
8300UC	16"	8420UC	16"
P8300UC	16"	P8420UC	16"
8301UC	16"RD	8421UC	16"RD
P8301UC	16"RD	P8421UC	16"RD
		8430UC	22"
		P8430UC	22"

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To receive your Extended Warranty your Gazco appliance must have been purchased from our Expert Retailer Network and registered within one month of purchase or installation. Please note that all warranties are effective from the date of purchase. Any Gazco product purchased outside of our Extended Retailer Network, or not registered within the stated time will carry a standard 12 month warranty.

It is a condition of the Extended Warranty that the installation complies with the relevant Building Regulations and is carried out by a suitably trained and qualified individual (GasSafe in the UK or equivalent in other countries) with the certificate of installation and the Commissioning Report on Page 3 completed and retained by the end user.

Full terms and conditions are detailed in the Warranty Statement on the Gazco website [www.gazco.com](http://www.gazco.com). In the event of any conflict of information the wording on the website shall prevail.

Important Note: Should any problems be experienced with your product, claims must first be submitted to the Expert Retailer where the appliance was purchased from who will offer immediate assistance or contact Gazco on your behalf.



It is a requirement of the Building Regulations 2010 that the installation of this appliance is notified to the Local Authority. It is the responsibility of the GasSafe registered installer to carry out this notification to the Local Authority via the GasSafe register Competent Persons Scheme in England and Wales (different rules apply in Scotland and Northern Ireland).

When the installation has been notified, GasSafe will send a Building Regulations Compliance Certificate to you containing details of the work completed. Please ensure that the person responsible for the installation of this appliance completes this notification and records it in the Appliance Commissioning Checklist on page 3.

**IT IS YOUR RESPONSIBILITY TO COMPLY WITH THE BUILDING REGULATIONS AND BE ABLE TO PRODUCE THIS CERTIFICATE SHOULD IT BE REQUIRED IN THE FUTURE.**

# Appliance Commissioning Checklist

To assist us in any guarantee claim please complete the following information:-

## IMPORTANT NOTICE

Explain the operation of the appliance to the end user, hand the completed instructions to them for safe keeping, as the information will be required when making any guaranteed claims.

FLUE CHECK	PASS	FAIL
1. Flue Is correct for appliance		
2. Flue flow Test		
3. Spillage Test		
GAS CHECK		
1. Gas soundness & let by test		
2. Standing gas pressure	mb	
3. Appliance working pressure (on High Setting) NB All other gas appliances must be operating on full	mb	
4. Gas rate	m <sup>3</sup> /h	
5. Does Ventilation meet appliance requirements		
6. Have controls been upgraded (Upgradeable models only) 8455 Standard	YES	NO
BUILDING CONTROL NOTIFICATION	YES	NO
1. Installer notified GasSafe/Local Authority of installation via Competent Persons Scheme?		

## RETAILER AND INSTALLER INFORMATION

Retailer .....

.....

.....

Contact No.....

Date of Purchase .....

Model No. ....

Serial No.....

Gas Type .....

Installation Company.....

.....

.....

Engineer.....

Contact No.....

GasSafe Reg No. ....

Date of Installation .....

# User Instructions

## Welcome

*Congratulations on purchasing your VFC fire, if installed correctly Gazco hope it will give you many years of warmth and pleasure for which it was designed.*

*The purpose of this manual is to familiarise you with your appliance, and give guidelines for its installation, operation and maintenance. If, after reading, you need further information, please do not hesitate to contact your Gazco retailer.*

## WARNING



**In the event of a gas escape or if you can smell gas, please take the following steps:**

- **Immediately turn off the gas supply at the meter/emergency control valve**
- **Extinguish all sources of ignition**
- **Do not smoke**
- **Do not operate any electrical light or power switches (On or Off)**
- **Ventilate the building(s) by opening doors and windows**
- **Ensure access to the premises can be made**

**Please report the incident immediately to the National Gas Emergency Service Call Centre on 0800 111 999 (England, Scotland and Wales) , 0800 002 001 (N. Ireland) or in the case of LPG, the gas supplier whose details can be found on the bulk storage vessel or cylinder.**

**The gas supply must not be used until remedial action has been taken to correct the defect and the installation has been recommissioned by a competent person.**

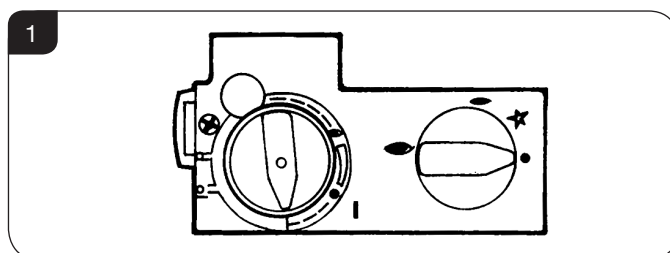
## 1. General

- 1.1 Installation and servicing must only be carried out by a competent person whose name appears on the GasSafe register. To ensure the engineer is registered with GasSafe they should possess an ID Card carrying the following logo:
- 1.2 In all correspondence, please quote the appliance type and serial number, which can be found on the data badge located adjacent to the control knob or on the Commissioning Checklist on Page 3.
- 1.3 Do not place curtains above the appliance: You must have 300mm (1') clearance between the appliance and any curtains at either side.

- 1.4 No furnishings or other objects should be placed within 1 metre of the front of the appliance.
- 1.5 The decorative front will become hot during normal use and should be treated as a working surface. It is recommended that a suitable fireguard be used for the protection of young children and the infirm.
- 1.6 This product is guaranteed for 5 years from the date of installation, as set out in the terms and conditions of sale between Gazco and your local Gazco retailer. Please consult with your local Gazco retailer if you have any questions. In all correspondence always quote the Model Number and Serial Number.

## 2. Operating the Appliance

- 2.1 Locate the control valve on the appliance. It has two controls, see Diagram 1:
  1. The right-hand knob controls the pilot ignition.
  2. The left-hand knob controls the main burner.



- 2.2 Refer to separate instructions if your appliance is upgraded to include battery remote control. The instructions below apply whether or not you have the remote upgrade.

### Lighting the Pilot

- 2.3 To start the left-hand and right-hand control knobs must both point to off (●):
- 2.4 Press in the right-hand control knob and rotate anti-clockwise until a click is heard. Continue to press in. The knob points to the pilot (☞).

The pilot is lit.

- 2.5 Keep the knob depressed for 10 seconds before releasing. The pilot remains lit.

Repeat the above steps if the pilot does not stay lit.

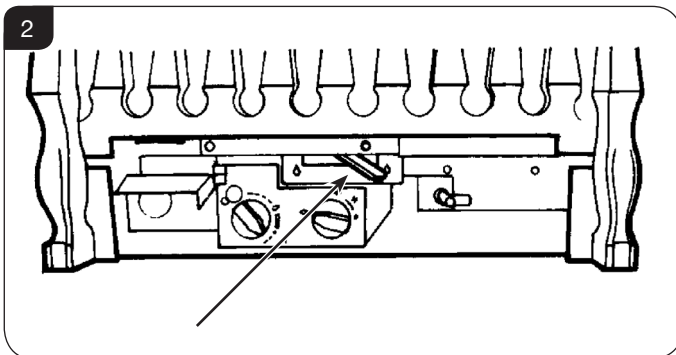
**NOTE: If the pilot goes out, the Interlock system prevents you lighting again for a short period.**

- 2.6 If, after repeating the above steps the pilot does not light, contact your Retailer or Installer.
- 2.7 Turn the right-hand knob to the left to main burner setting (☞).

# User Instructions

## Adjusting the Flame height

- 2.8 The flame height and temperature can now be adjusted using the left-hand control knob.
- 2.9 Turn the left-hand knob anti-clockwise to increase the flame height.
- 2.10 Turn clockwise to decrease the height.
- 2.11 The flames can be varied from blue to a yellow effect by moving the aeration lever to the desired position, see Diagram 2.



**i** **IMPORTANT: YELLOW FLAMES TYPICALLY APPEAR WHEN THE APPLIANCE HAS REACHED NORMAL OPERATING TEMPERATURE. THIS CAN TAKE UP TO 30 MINUTES.**

**!** **WARNING: IF THE APPLIANCE FAILS TO LIGHT OR BECOMES EXTINGUISHED IN USE, WAIT 3 MINUTES BEFORE ATTEMPTING TO RELIGHT.**

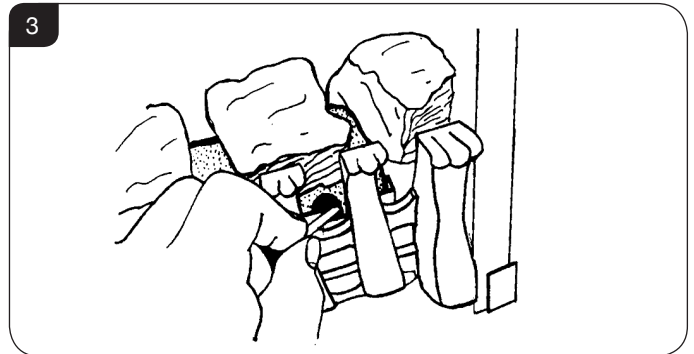
## 3. Turning OFF the Appliance

- 3.1 To turn the main burner off turn the left-hand knob until it points to off (●). Just the pilot remains lit.
- 3.2 Press in and turn the right-hand knob until it points to off (●). The pilot goes out.

## 4. Lighting the Appliance with a match

If the pilot does not ignite as described in Section 2, please consult your GAZCO Retailer to rectify the problem. However, the appliance may be lit as a temporary measure using the following procedure:

- 4.1 Press in the right hand control knob and rotate it anti-clockwise until a click is heard (keep pressing in) and the knob is pointing to pilot (→), apply a lighted match to the pilot hood, see Diagram 3.



## 5. Upgrading the Appliance

- 5.1 The appliance is fitted with a control valve that can easily be upgraded to battery powered remote control. This upgrade can be obtained through your local Gazco retailer. There is no requirement for this upgrade to be carried out by an approved GasSafe engineer. However Gazco recommend that this task is undertaken by a suitably competent person.
- 5.2 This upgrade can be fitted before or after installation but if side clearances are limited then it will be easier to upgrade the appliance before installation. Full instructions are included with the kit.

### Standard Remote Control (PART NUMBER 8455)

- 5.3 This remote control can control the gas appliance after the pilot has been lit. It can turn the main burner on and regulate it from low through to high and back again. It can turn the main burner off leaving the pilot burning.

**IMPORTANT** - there is a thermostatic version of the upgrade but this is **NOT SUITABLE** for open flame appliances like the VFC.

# User Instructions

## 6. Cleaning the Appliance



**WARNING: NEVER CLEAN THE APPLIANCE WHILE IT'S HOT. THE APPLIANCE STAYS HOT FOR A LONG TIME AFTER SHUTDOWN.**

- 6.1 Remove the ceramic coals and place on a dry, clean surface. Remove the front coal ceramic, please handle with care.
- 6.2 The ceramic components should not require cleaning. Do not use a vacuum cleaner or brush to clean these parts, any large pieces of debris may be removed by hand.
- 6.3 Ensure any debris is removed from the burner ports.
- 6.4 Replace the ceramics, see Section 7.

## 7. Arrangement of Fuel Bed

### Advice on handling and disposal of fire ceramics



The fuel effect and side panels in this appliance are made from Refractory Ceramic Fibre (RCF), a material which is commonly used for this application.

Protective clothing is not required when handling these articles, but we recommend you follow normal hygiene rules of not smoking, eating or drinking in the work area and always wash your hands before eating or drinking.

To ensure that the release of RCF fibres are kept to a minimum, during installation and servicing a HEPA filtered vacuum is recommended to remove any dust accumulated in and around the appliance before and after working on it. When servicing the appliance it is recommended that the replaced items are not broken up, but are sealed within heavy duty polythene bags and labelled as RCF waste.

RCF waste is classed as stable, non-reactive hazardous waste and may be disposed of at a licensed landfill site.

Excessive exposure to these materials may cause temporary irritation to eyes, skin and respiratory tract; wash hands thoroughly after handling the material.

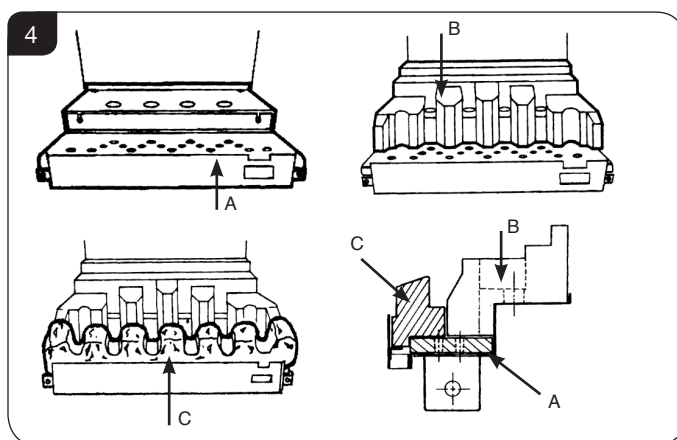
## 8. Coal Layout

**NOTE: CERAMIC PARTS ARE FRAGILE. HANDLE WITH CARE.**

**ONLY USE THE CERAMIC COALS SUPPLIED BY GAZCO - DO NOT USE REAL COALS.**

**COALS MUST BE POSITIONED ACCORDING TO THE FOLLOWING INSTRUCTIONS TO GIVE THE CORRECT FLAME EFFECT.**

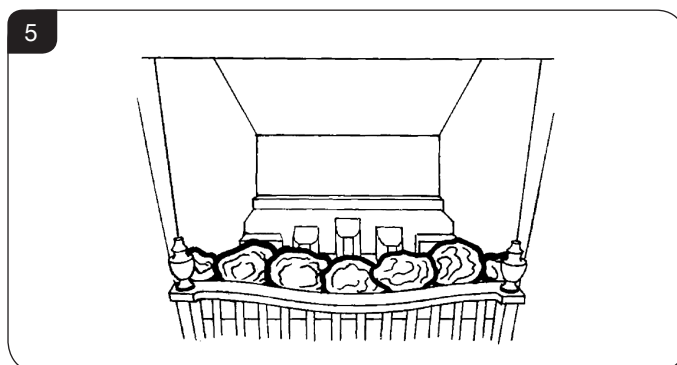
- 8.1 Position the flame baffle (B) on the rear of the tray (A), see Diagram 4.
- 8.2 Position the front coal (C), make sure it sits flat onto the burner tray (A), see Diagram 4.



- 8.3 Place the coals following the appropriate diagrams and instructions.

### 8a. 16" and Reduced Draught Coal Layout

- 8a.1 **Curved fronts (Holyrood and Richmond)**  
Place 5 large coals onto the front coal moulding ensuring that they rest against the front. Place 2 small coals on to the front coal, 1 at each end, see Diagram 5.

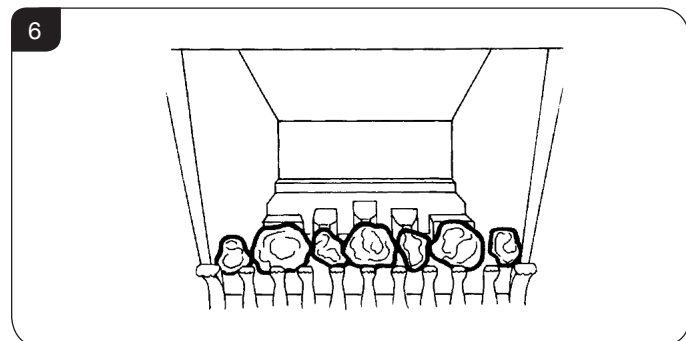




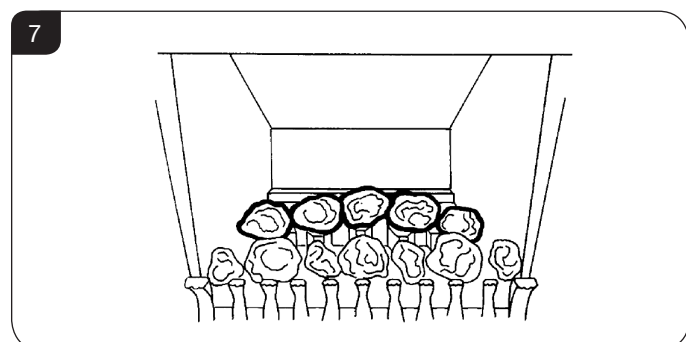
# User Instructions

## 8a.2 **Flat fronts (All others)**

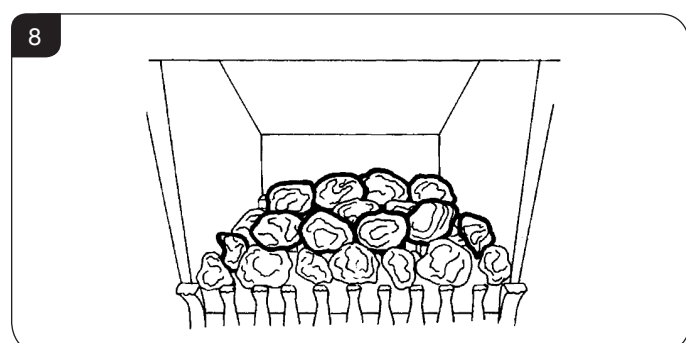
Place 3 large coals and 4 small coals onto the front coal moulding ensuring that they rest against the decorative front, these should run intermittently small, large, small, see Diagram 6.



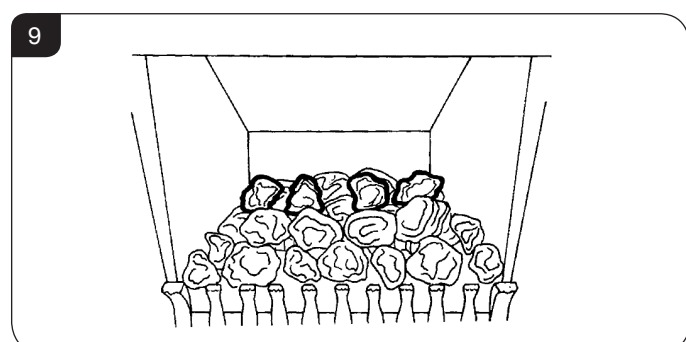
8a.3 Place 5 large coals onto the flame baffle fingers, see Diagram 7.



8a.4 Place 4 large coals so that they form a bridge between the other 2 rows, and 2 small coals, 1 at each end. Place 4 large coals at the back of the fire, see Diagram 8.



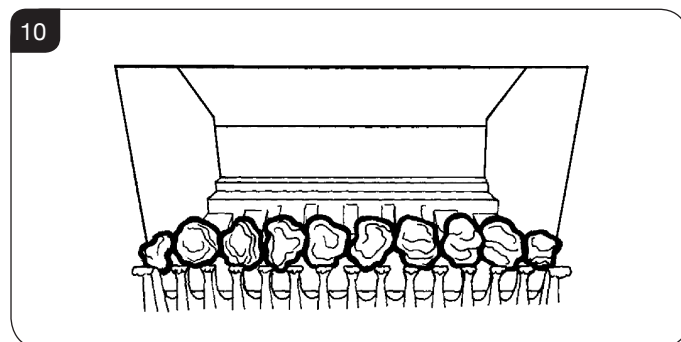
8a.5 Place the remaining 4 small coals on top of the others so that they form a bridge between the second and third rows, see Diagram 9.



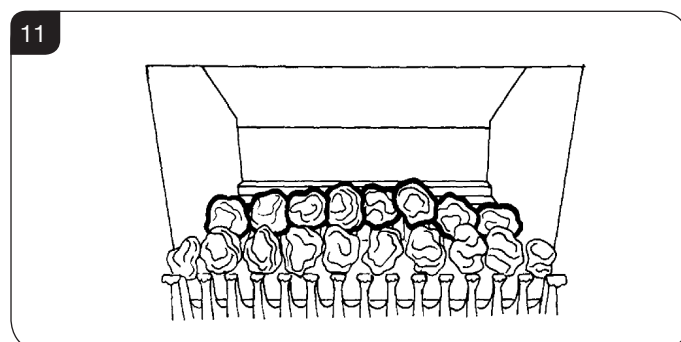
## 8b. 22" Coal Layout

### 8b.1 **All fronts**

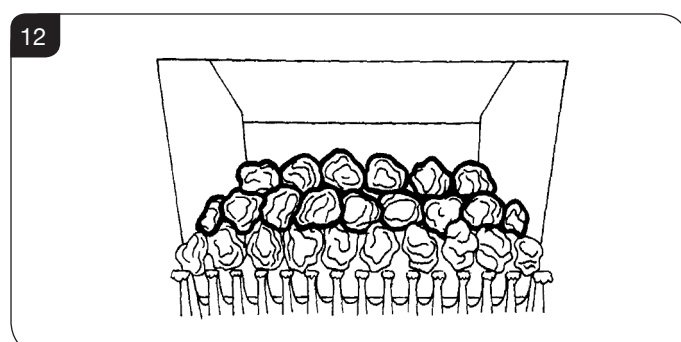
Place 8 large coals onto the front coal moulding ensuring that they rest against the front. Place 2 small coals on to the front coal, 1 at each end, see Diagram 10.



8b.2 Place 8 large coals onto the flame baffle fingers, see Diagram 11.

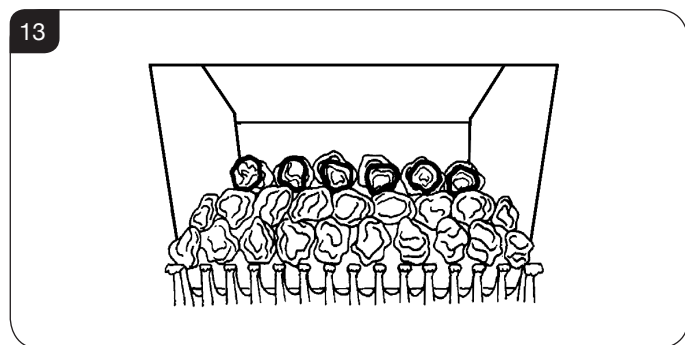


8b.3 Place 7 large coals so that they form a bridge between the other 2 rows, and 2 small coals, 1 at each end. Place 6 large coals at the back of the fire, see Diagram 12.



# User Instructions

- 8b.4 Place the remaining 6 small coals on top of the others so that they form a bridge between the second and third rows, see Diagram 13.



## 9. Oxygen Depletion Sensor

- 9.1 The appliance is fitted with an oxygen sensitive pilot system which acts to cut off the gas supply to the appliance should the oxygen in the room fall below its normal level. If the appliance is turned off by this device, it usually indicates that there is a problem with the flue system, and this should be inspected by a qualified engineer. **Do not attempt to use the appliance until an engineer says it is safe to do so.**

**This device is not a substitute for an independently mounted carbon monoxide detector.**

## 10. Flame Failure Device

- 10.1 This is a safety feature incorporated on this appliance which automatically switches off the gas supply if the pilot goes out and fails to heat the thermocouple.

**IF THIS OCCURS DO NOT ATTEMPT TO RELIGHT THE APPLIANCE FOR 3 MINUTES.**

## 11. Running In

- 11.1 During initial use of a new Gazco appliance a strong odour will be encountered as various surface coatings become hot for the first time. Although these odours are harmless it is recommended that the appliance is operated on maximum for 4 to 8 hours in order to fully burn off these coatings. After this period the odours should then disappear.

If the odours persists, please contact your installer for advice.

- 11.2 During the first few hours of burning there may be discolouration of the flames. This will also disappear after a short period of use.

## 12. Servicing

- 12.1 The appliance must be serviced every 12 months by a qualified GasSafe Engineer. In all correspondence always quote the Model number and the Serial number which may be found on the Commissioning Checklist (Page 3).

## 13. Ventilation

- 13.1 Any purpose provided ventilation should be checked periodically to ensure that it is free from obstruction.

## 14. Installation Details

- 14.1 Your installer should have completed the commissioning sheet at the front of this book. This records the essential installation details of the appliance. In all correspondence always quote the Model number and Serial number.

## 15. Hot Surfaces

- 15.1 Parts of this appliance become hot during normal use.

Regard all parts of the appliance as a working surface, except for the control area.

- 15.2 Provide a suitable fire guard to protect young children and the infirm.



# Installation Instructions

## Technical Specification

Covering the following models:

VFC Radiant		VFC Convactor	
8300UC	16"	8420UC	16"
P8300UC	16"	P8420UC	16"
8301UC	16"RD	8421UC	16"RD
P8301UC	16"RD	P8421UC	16"RD
		8430UC	22"
		P8430UC	22"

Model	Gas CAT	Gas Type	Working Pressure	Aeration	Injector	Gas Rate m <sup>3</sup> <sub>h</sub>	Input kW (Gross)		Max Flue Temp	Country
							High	Low		
16" RD	I <sub>2</sub> H	Natural (G20)	20 mbar	12N	400	0.653	6.85	3.0	160°C	GB,IE
	I <sub>3</sub> +	Propane (G31)	37 mbar	RDL	180	0.250	6.65	2.8		
		Butane (G30)	29 mbar			0.190				
16"	I <sub>2</sub> H	Natural (G20)	20 mbar	12N	600	0.900	9.45	3.7	190°C	GB,IE
	I <sub>3</sub> +	Propane (G31)	37 mbar	9L	260	0.358	9.50	4.2		
		Butane (G30)	29 mbar			0.272				
22"	I <sub>2</sub> H	Natural (G20)	20 mbar	9N	850	1.172	12.30	5.2	210°C	GB,IE
	I <sub>3</sub> +	Propane (G31)	37 mbar	0L	360	0.478	12.70	5.35		
		Butane (G30)	29 mbar			0.363				
Efficiency Class 2										
Flue Outlet Size 178 mm (7") ø										
Gas Inlet Connection Size 8 mm ø										
Minimum flue specification T260 / N2 / O / D / 1										

# Installation Instructions

## Site Requirements

**The flue must be installed in accordance with all local and national regulation and the current rules in force.**

### 1. Flue & Chimney Requirements

- 1.1 The chimney or flue system must comply with the rules in force, and must be a minimum of 178mm in diameter. (7").
- 1.2 The minimum effective height of the flue or chimney must be 3m (10ft).
- 1.3 The chimney or flue must be free from any obstruction. Any damper plates must be removed or secured in the fully open position, and no restrictor plates fitted.
- 1.4 The chimney should be swept immediately prior to the installation of the appliance - unless it can be seen to be clean and unobstructed throughout its entire length.
- 1.5 Ensure that there is a smooth taper transition from the fireplace opening into the chimney or flue.
- 1.6 The European chimney standards now describe chimneys and flues by their temperature, pressure and resistance to corrosion, condensation and fire. To identify the correct flue system, the minimum flue specification is shown in the Technical Specification. Existing chimneys are not covered by this system.
- 1.7 The flue pull should be checked prior to installation of the appliance. Apply a smoke pellet to the flue or chimney opening and ensure that the smoke is drawn into the opening. If there is not a definite flow, pre-heat the chimney for a few minutes and re-test the flow.

**IF THERE IS STILL NO DEFINITE FLOW, THE CHIMNEY MAY REQUIRE ATTENTION- SEEK EXPERT ADVICE.**

### 2. Gas Supply

**THIS APPLIANCE IS INTENDED FOR USE ON A GAS INSTALLATION WITH A GOVERNED METER.**

- 2.1 Before installation, ensure that the local distribution conditions (identification of the type of gas and pressure) and the adjustment of the appliance are compatible.
- 2.2 Ensure the gas supply delivers the required amount of gas and is in accordance with the rules in force.
- 2.3 Soft copper tubing and soft soldered joints can be used but must not be closer than 50mm (2") to the underside of the firebox.
- 2.4 A means of isolating the gas supply to the appliance must be provided independent of any appliance control.
- 2.5 All supply gas pipes must be purged of any debris that may have entered prior to connection to the appliance.

### 3. Ventilation

**It is important to ensure that any national ventilation requirements are taken into account during the installation of this appliance.**

- 3.1 Ventilation requirements differ according to the model. Minimum permanent effective free air requirements - if this is the sole gas appliance in the room - are as follows:

Model No.	Description	Min. vent cm2
8300UC, P8300UC 8310UC, P8310UC	16" VFC Radiant 22" VFC Radiant	100 See note b.
8301UC, P8301UC	RD VFC Radiant	NONE
8421UC, P8421UC	RD VFC Convactor	NONE See notes a & b
8420UC, P8420UC	16" VFC Convactor	15
8430UC, P8430UC	22" VFC Convactor	30 See note b

**Note a:**  
Gas input is less than 7kW and flue products clearance under 70 m3/hr. Some countries call for 100cm2 ventilation. Check local standards.

**Note b:**  
It is essential to check for flue clearance, see Commissioning Section, Diagrams 1 & 2. If spillage is detected, it may be necessary to provide additional ventilation.

- 3.2 The above table is in addition to any openable window, and although the vent must be to outside air, it can also pass to an adjacent room provided if that room has a similar sized vent to the outside.

**AIR VENTS MUST NOT BE RESTRICTED.**

**FOR THE REPUBLIC OF IRELAND REFER TO THE RULES IN FORCE FOR VENTILATION REQUIREMENTS.**

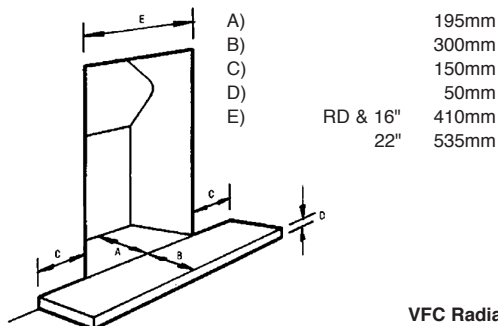
# Installation Instructions

## Site Requirements

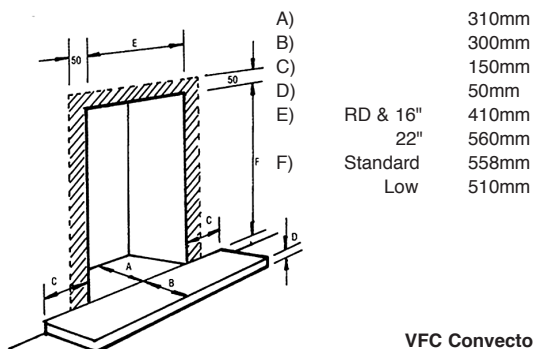
### 4. Appliance Location

- 4.1 This appliance must stand on a non-combustible hearth that is at least 12mm thick.
- 4.2 It must be fitted into a non-combustible opening.
- 4.3 These appliances must be hearth mounted into a fireplace opening conforming to National Standards. The minimum dimensions should be as shown in Diagram 1A for VFC Radiant appliances or Diagram 1B for VFC Convactor appliances. (The shaded area must be flat and square).

1A



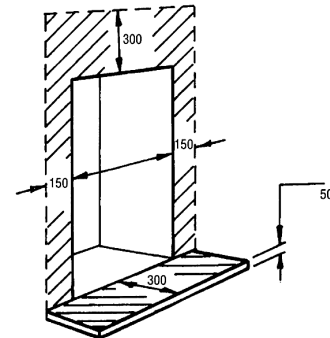
1B



- 4.4 The appliance must be firmly fixed to the hearth. Fasteners are provided for this purpose.
- 4.5 Ensure that no naked flame or incandescent part of the fire bed projects beyond the vertical plane of the fireplace opening.
- 4.6 The appliance must not be installed in any room that contains a bath or shower.

- 4.7 Ensure clearances to combustable materials, see Diagram 2.

2



# Installation Instructions

## 1. Safety Precautions

- 1.1 For your own and other's safety, you must install this appliance according to local and national codes of practice. Failure to install the appliance correctly could lead to prosecution. **Read these instructions before installing and using this appliance.**
- 1.2 These instructions must be left intact with the user.
- 1.3 Do not attempt to burn rubbish on this appliance.
- 1.4 Keep all plastic bags away from young children.
- 1.5 Do not place any object on or near to the appliance and allow adequate clearance above the appliance.

**IF THE APPLIANCE IS EXTINGUISHED OR GOES OUT IN USE, WAIT 3 MINUTES BEFORE ATTEMPTING TO RELIGHT THE APPLIANCE.**

**DO NOT USE THE APPLIANCE UNTIL AN ENGINEER SAYS IT IS SAFE TO DO SO.**



**IMPORTANT: REFER TO DATA BADGE AND TECHNICAL SPECIFICATION AT THE FRONT OF THE MANUAL TO ENSURE THE APPLIANCE IS CORRECTLY ADJUSTED FOR THE GAS TYPE AND CATEGORY APPLICABLE IN THE COUNTRY OF USE.**

**FOR DETAILS OF CHANGING BETWEEN GAS TYPES REFER TO SERVICING, SECTION 8, REPLACING PARTS.**

## Unpacking

- 1.6 Remove the appliance from its packaging, and check that it is complete and undamaged.
- Put the loose ceramic parts to one side so that they are not damaged during installation.

## 2. Upgrading the Appliance

- 2.1 The appliance is fitted with a control valve that can easily be upgraded to battery powered remote control. This upgrade can be obtained through your local Gazco retailer. There is no requirement for this upgrade to be carried out by an approved GasSafe engineer. However Gazco recommend that this task is undertaken by a suitably competent person.
- 2.2 This upgrade can be fitted before or after installation but if side clearances are limited then it will be easier to upgrade the appliance before installation. Full instructions are included with the kit.

## Standard Remote Control (PART NUMBER 8455)

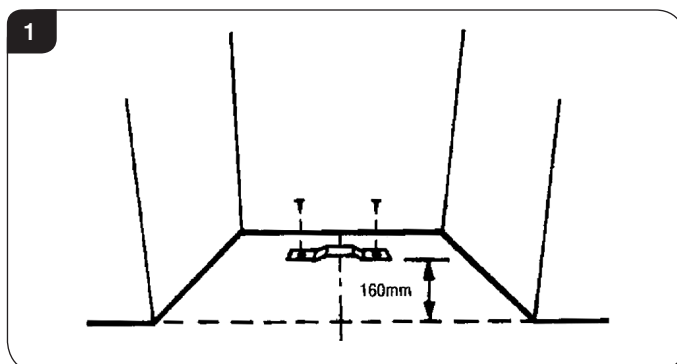
- 2.3 This remote control can control the gas appliance after the pilot has been lit. It can turn the main burner on and regulate it from low through to high and back again. It can turn the main burner off leaving the pilot burning.

**IMPORTANT** - there is a thermostatic version of the upgrade but this is **NOT SUITABLE** for open flame appliances like the VFC.

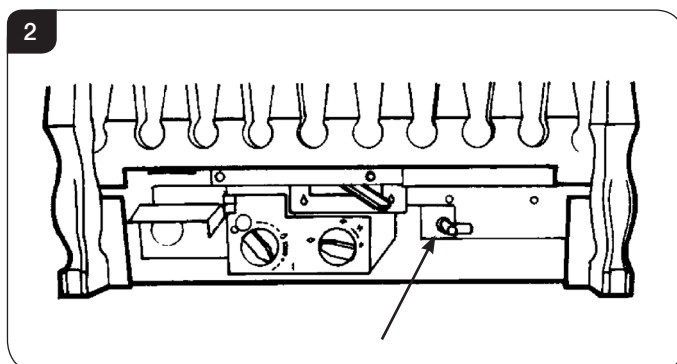
## 3. Installation of the Appliance

### 3a. Radiant

- 3a.1 Fix the rear leg strap, see Diagram 1.

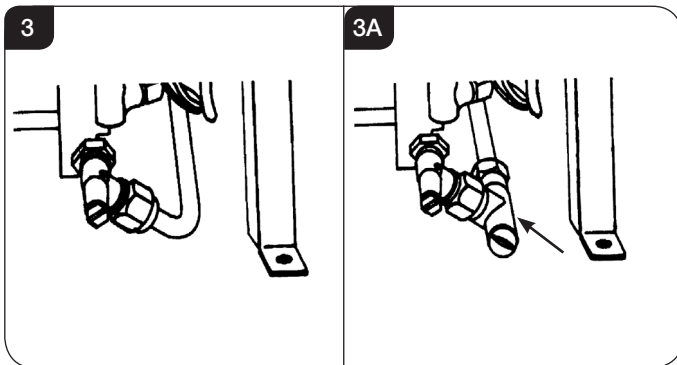


- 3a.2 Position the appliance with the rear leg fully engaged under the rear leg strap. Fasten the front legs using the fixings supplied.
- 3a.3 **PURGE THE SUPPLY PIPE.**  
This is essential to expel any debris that can block the valve assembly.
- 3a.4 Connect the 8mm gas supply pipe to the appliance, see Diagrams 2 & 3.

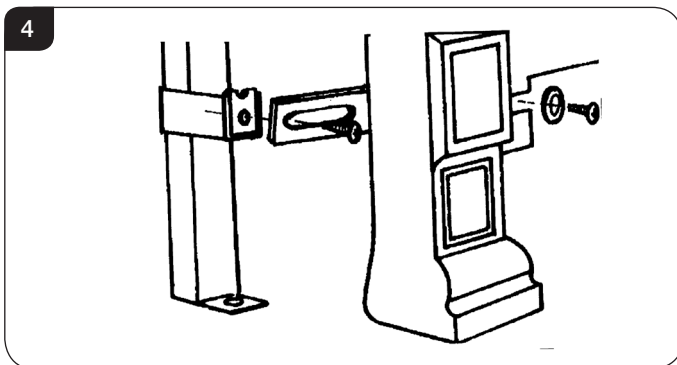


# Installation Instructions

- 3a.5 If the isolation tap is to be fitted under the appliance, the GAZCO GC0060 provides a neat and easy solution, see Diagram 3A.

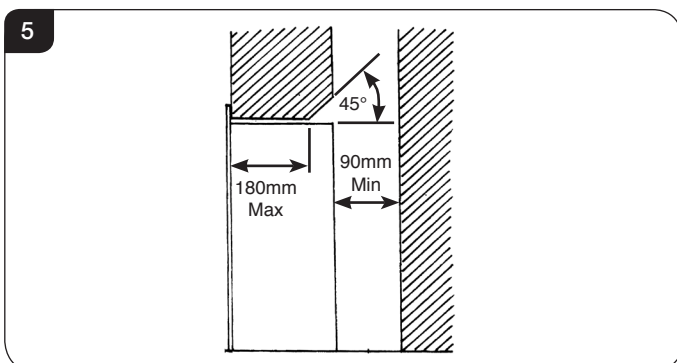


- 3a.6 Check the gas connections to the appliance are sound. Light the appliance and check all joints for leaks.
- 3a.7 Check the appliance running pressure is correct, see the databadge.
- 3a.8 Fit the fret to the appliance using 2 screws, see Diagram 4.

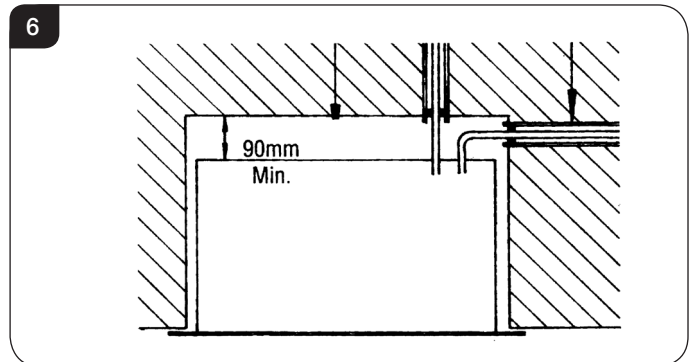


## 3b. Convector

- 3b.1 Make any necessary alterations to fireplace opening. Ensure that the lintel does not obstruct the flue outlet into the flue, and that there is a clear space for debris of at least 90mm, see Diagram 5.

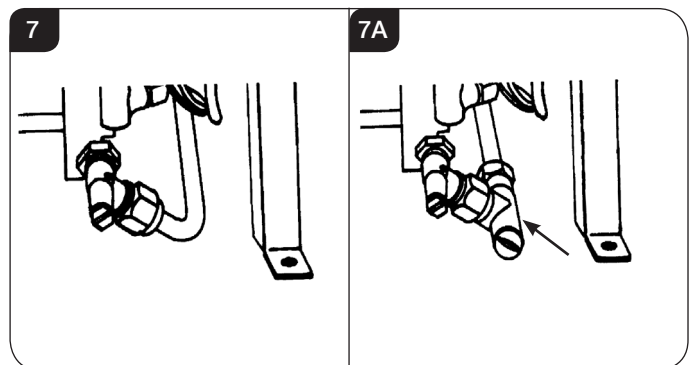


- 3b.2 The gas pipe entry must be through one of the holes in the rear of the convector box, see Diagrams 6 & 7.

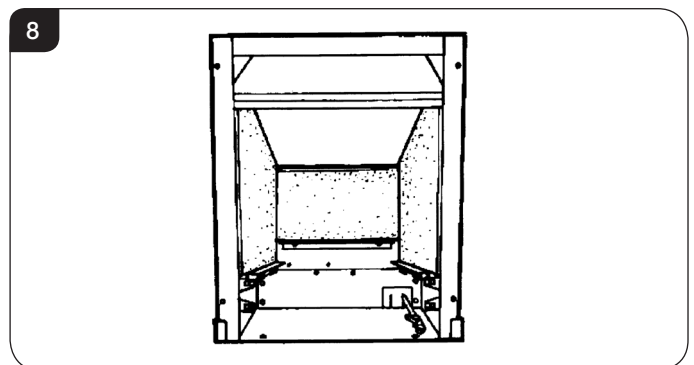


**Note: Gas pipes passing through masonry must be protected.**

- 3b.3 If the isolation tap is to be fitted under the appliance, the GAZCO GC0060 provides a neat and easy solution, see Diagram 7A.



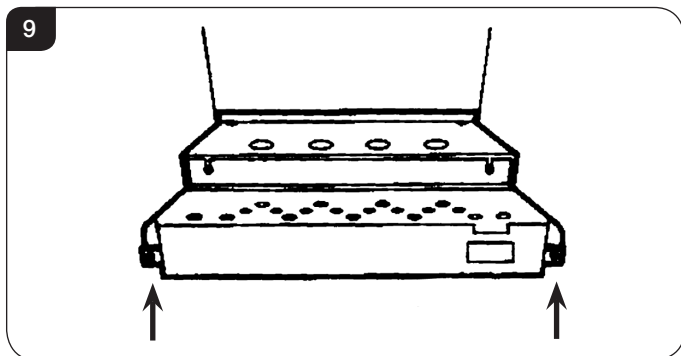
- 3b.4 Remove the Main Burner, see Diagram 9, and offer the convector box into the opening, checking that it fits squarely. Mark the fixing holes and the gas pipe entry positions, see Diagram 8.



- 3b.5 Fit the gas pipe into position, ready for passing into the convector box, ensuring enough remains to connect to the appliance.
- 3b.6 Carefully fit the convector box, feeding the piping through into the box. Secure the box to the wall, through the flange or base ensuring that the box is square in the opening. Any undulations or gaps between the convector box and the wall should be filled with a non-combustible material. Silicon may be used to seal the gap but give consideration to the removal of the convector box during the annual service to inspect the cavity for build up of debris. Alternatively a self-adhesive silicone foam strip may be used.

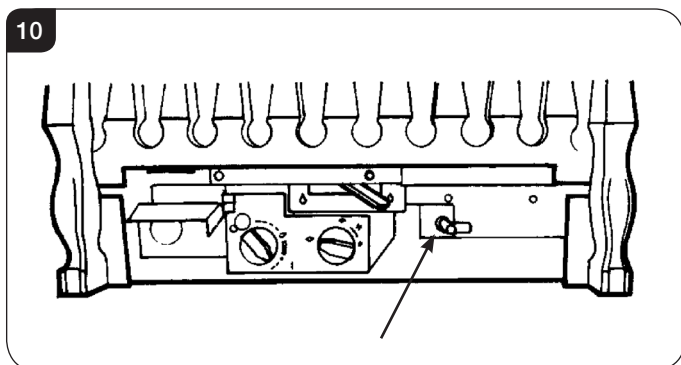
# Installation Instructions

- 3b.7 Refit the Main Burner and front air guide into the convector box, see Diagram 9.

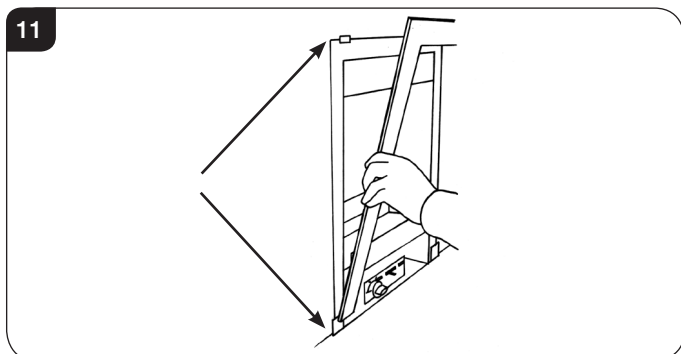


- 3b.8 **PURGE THE SUPPLY PIPE.**  
This is essential to expel any debris that can block the valve assembly.

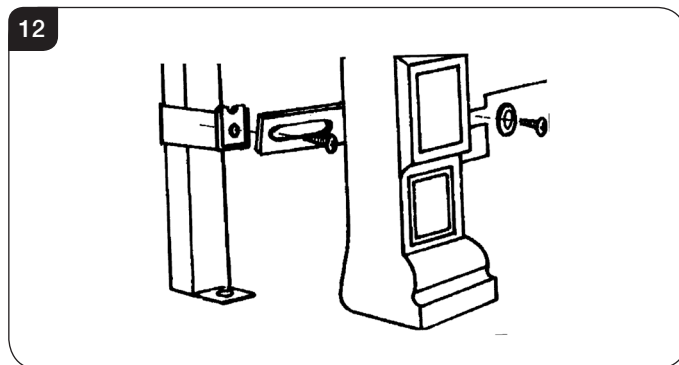
- 3b.9 Connect the 8mm gas supply pipe to the appliance, see Diagram 10.



- 3b.10 Check the gas connections to the appliance are sound. Light the appliance and check all joints for leaks.
- 3b.11 Check the appliance working pressure is correct, see databadge.
- 3b.12 Fit the appliance trim to the convector box, see Diagram 11.



- 3b.13 Fit the fret to the appliance front using the 2 screws, see Diagram 12.



- 3b.14 If the appliance is fitted with an alternative Gazco front please refer to the separate leaflet supplied with the front.

## 4. Arrangement of Fuel Bed

### Advice on handling and disposal of fire ceramics



The fuel effect and side panels in this appliance are made from Refractory Ceramic Fibre (RCF), a material which is commonly used for this application.

Protective clothing is not required when handling these articles, but we recommend you follow normal hygiene rules of not smoking, eating or drinking in the work area and always wash your hands before eating or drinking.

To ensure that the release of RCF fibres are kept to a minimum, during installation and servicing a HEPA filtered vacuum is recommended to remove any dust accumulated in and around the appliance before and after working on it. When servicing the appliance it is recommended that the replaced items are not broken up, but are sealed within heavy duty polythene bags and labelled as RCF waste.

RCF waste is classed as stable, non-reactive hazardous waste and may be disposed of at a licensed landfill site.

Excessive exposure to these materials may cause temporary irritation to eyes, skin and respiratory tract; wash hands thoroughly after handling the material.



# Installation Instructions

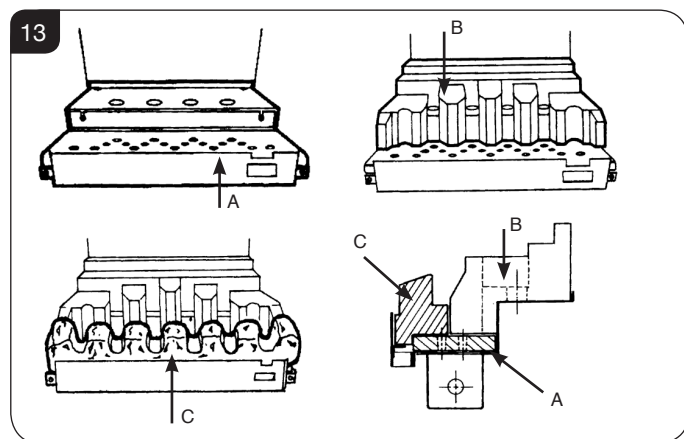
## 5. Coal Layout

**NOTE: CERAMIC PARTS ARE FRAGILE. HANDLE WITH CARE.**

**ONLY USE THE CERAMIC COALS SUPPLIED BY GAZCO - DO NOT USE REAL COALS.**

**COALS MUST BE POSITIONED ACCORDING TO THE FOLLOWING INSTRUCTIONS TO GIVE THE CORRECT FLAME EFFECT.**

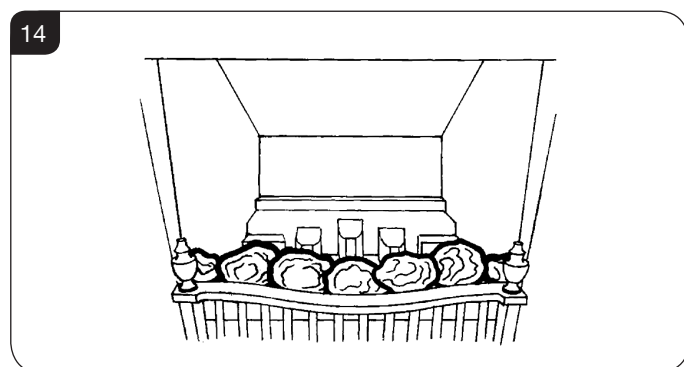
- 5.1 Position the flame baffle (B) on the rear of the tray (A), see Diagram 13.
- 5.2 Position the front coal (C), make sure it sits flat onto the burner tray (A), see Diagram 13.



- 5.3 Place the coals following the appropriate diagrams and instructions.

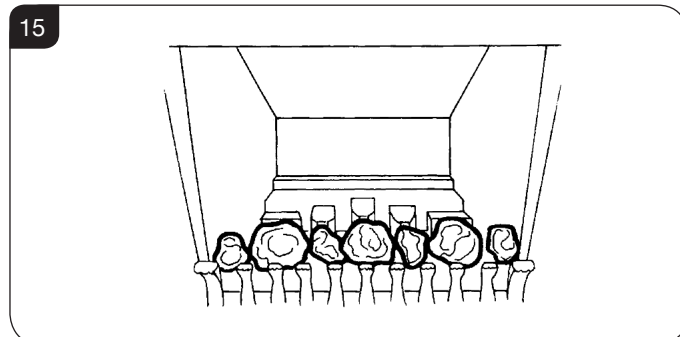
### 5a. 16" and Reduced Draught Coal Layout

- 5a.1 **Curved fronts (Holyrood and Richmond)**  
Place 5 large coals onto the front coal moulding ensuring that they rest against the front. Place 2 small coals on to the front coal, 1 at each end, see Diagram 14.

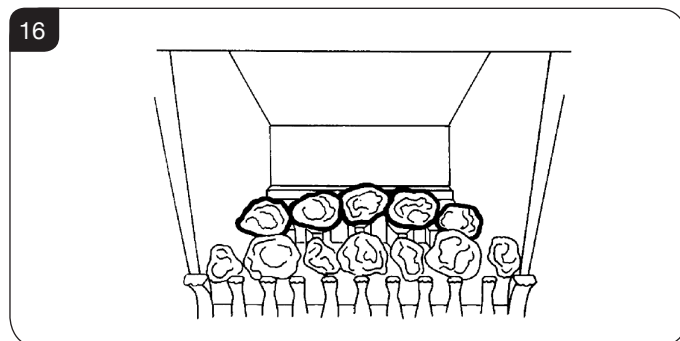


#### 5a.2 Flat fronts (All others)

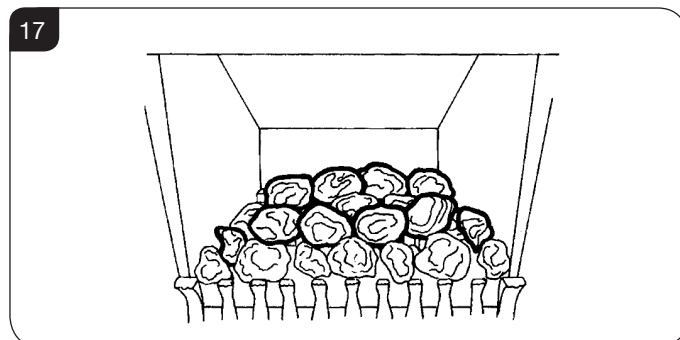
Place 3 large coals and 4 small coals onto the front coal moulding ensuring that they rest against the decorative front, these should run intermittently small, large, small, see Diagram 15.



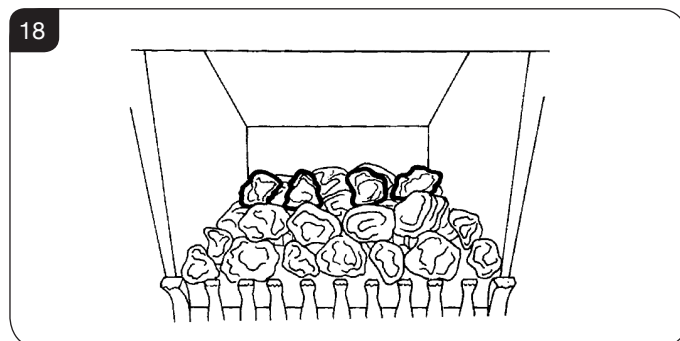
- 5a.3 Place 5 large coals onto the flame baffle fingers, see Diagram 16.



- 5a.4 Place 4 large coals so that they form a bridge between the other 2 rows, and 2 small coals, 1 at each end. Place 4 large coals at the back of the fire, see Diagram 17.



- 5a.5 Place the remaining 4 small coals on top of the others so that they form a bridge between the second and third rows, see Diagram 18.

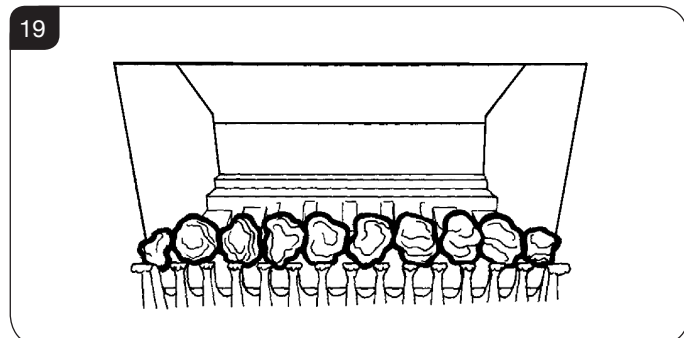


# Installation Instructions

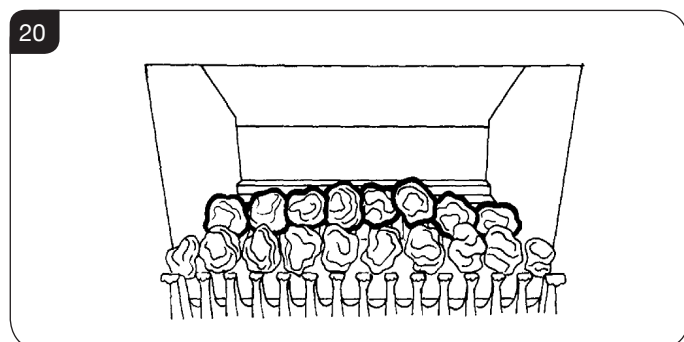
## 5b. 22" Coal Layout

### 5b.1 All fronts

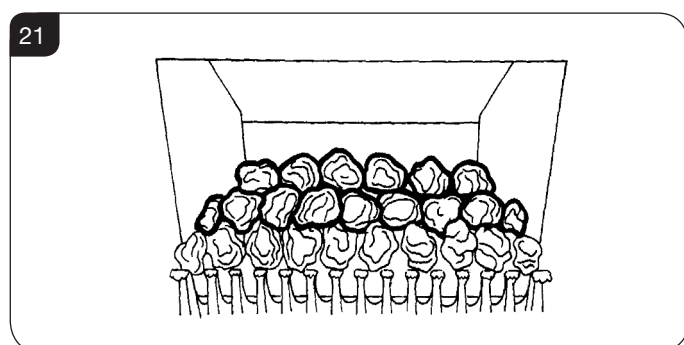
Place 8 large coals onto the front coal moulding ensuring that they rest against the front. Place 2 small coals on to the front coal, 1 at each end, see Diagram 19.



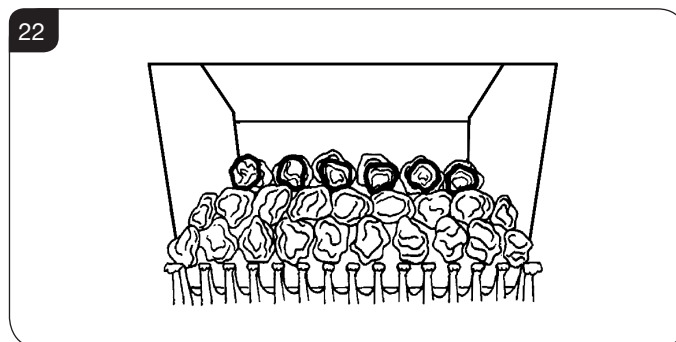
5b.2 Place 8 large coals onto the flame baffle fingers, see Diagram 20.



5b.3 Place 7 large coals so that they form a bridge between the other 2 rows, and 2 small coals, 1 at each end. Place 6 large coals at the back of the fire, see Diagram 21.



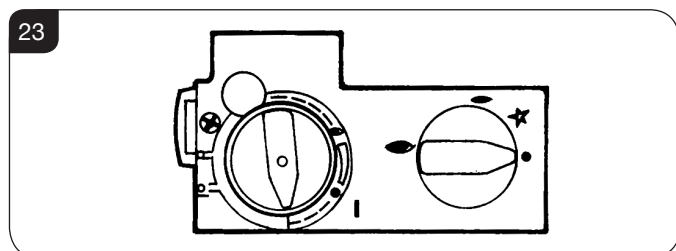
5b.4 Place the remaining 6 small coals on top of the others so that they form a bridge between the second and third rows, see Diagram 22.



## 6. Operating the Appliance

6.1 Locate the control valve on the appliance. It has two controls, see Diagram 23:

1. The right-hand knob controls the pilot ignition.
2. The left-hand knob controls the main burner.



6.2 Refer to separate instructions if your appliance is upgraded to include battery remote control. The instructions below apply whether or not you have the remote upgrade.

### Lighting the Pilot

- 6.3 To start the left-hand and right-hand control knobs must both point to off (●):
- 6.4 Press in the right-hand control knob and rotate anti-clockwise until a click is heard. Continue to press in. The knob points to the pilot (—).  
The pilot is lit.
- 6.5 Keep the knob depressed for 10 seconds before releasing. The pilot remains lit.

Repeat the above steps if the pilot does not stay lit.

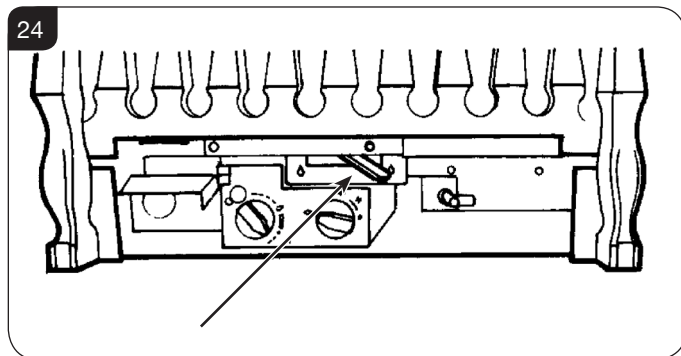
**NOTE:** If the pilot goes out, the Interlock system prevents you lighting again for a short period.

# Installation Instructions

- 6.6 If, after repeating the above steps the pilot does not light, contact your Retailer or Installer.
- 6.7 Turn the right-hand knob to the left to main burner setting (●).

## Adjusting the Flame height

- 6.8 The flame height and temperature can now be adjusted using the left-hand control knob.
- 6.9 Turn the left-hand knob anti-clockwise to increase the flame height.
- 6.10 Turn clockwise to decrease the height.
- 6.11 The flames can be varied from blue to a yellow effect by moving the aeration lever to the desired position, see Diagram 24.



**i** **IMPORTANT: YELLOW FLAMES TYPICALLY APPEAR WHEN THE APPLIANCE HAS REACHED NORMAL OPERATING TEMPERATURE. THIS CAN TAKE UP TO 30 MINUTES.**

**!** **WARNING: IF THE APPLIANCE FAILS TO LIGHT OR BECOMES EXTINGUISHED IN USE, WAIT 3 MINUTES BEFORE ATTEMPTING TO RELIGHT.**

## 7. Turning OFF the Appliance

- 7.1 To turn the main burner off turn the left-hand knob until it points to off (●). Just the pilot remains lit.
- 7.2 Press in and turn the right-hand knob until it points to off (●). The pilot goes out.

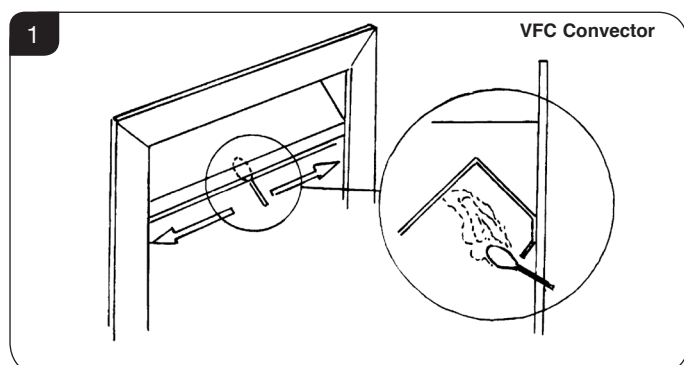
# Commissioning

## 1. Commissioning

- 1.1 Close all windows and doors to the room.
- 1.2 Check all controls, and allow appliance to burn on maximum for 5 minutes.
- 1.3 Test for spillage of flue products using a smoke match.

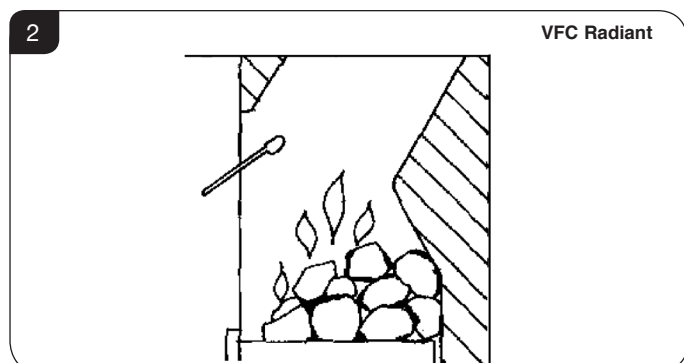
### Standard VFC fires

Pass the lighted smoke match along the top front edge just inside the opening or canopy, see Diagram 1.



### VFC Radiant only

Hold the lighted smoke match centrally inside the flue opening, see Diagram 2.



- 1.4 If the fire spills, run for a further 10 minutes and re-check.
- 1.5 If there are extractor fans in the room or adjacent rooms, the spillage test must be repeated with the extractors running on maximum.
- 1.6 **For RD VFC:** If spillage is detected and no air vent is fitted in the room, re-check for spillage with a window slightly open. If this cures the spillage, it will be necessary to fit a vent.

**IF SPILLAGE PERSISTS, DISCONNECT THE APPLIANCE AND SEEK EXPERT ADVICE.**

- 1.7 Complete the Commissioning Checklist at the front of this manual covering:
  - Flue checks
  - Gas checks
  - Log layout - flame picture
- 1.8 Upon completion of the commissioning and testing of the installation and correct operation of the appliance, the installer must instruct the user how to operate the appliance.
- 1.9 Guide the user through the User Instructions paying particular attention to:
  - a) Regular servicing (Section 12 of the User Instructions).
  - b) Ventilation (Section 13 of the User Instructions) - point out the ventilation positions where applicable.
  - c) Hot surfaces (Section 15 of the User Instructions).

# Servicing Instructions

## 1. Servicing Requirements

This appliance must be serviced at least once a year by a competent person.

All tests must be serviced by best practice as described by the current GasSafe recommendations.

### 1.1 Before Testing:

- Conduct a gas soundness test for the property ensuring there are no leaks before servicing.
- Check the operation of the appliance before testing.

### 1.2 Special checks:

- Clean any lint or fluff from the pilot - pay particular attention to the aeration hole in the side of the pilot.
- Clean away any fluff or lint from under the burner
- Check that the spark gap on the pilot is correct, see Diagram 1.

### 1.3 Correct any faults found during the initial test.

### 1.4 Re-commission the appliance in accordance with Commissioning Procedures.

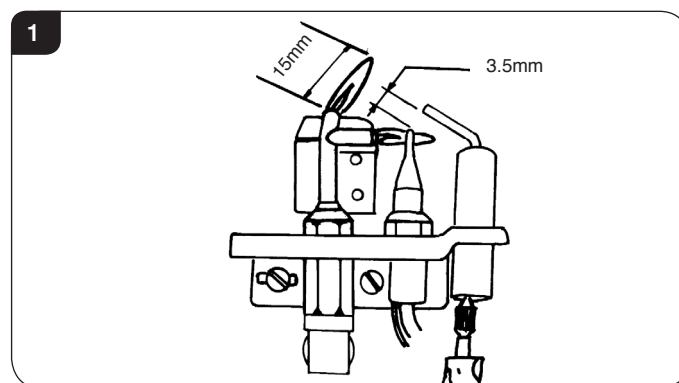
### 1.5 Advise the customer of any remedial work undertaken.

### VFC Convector only

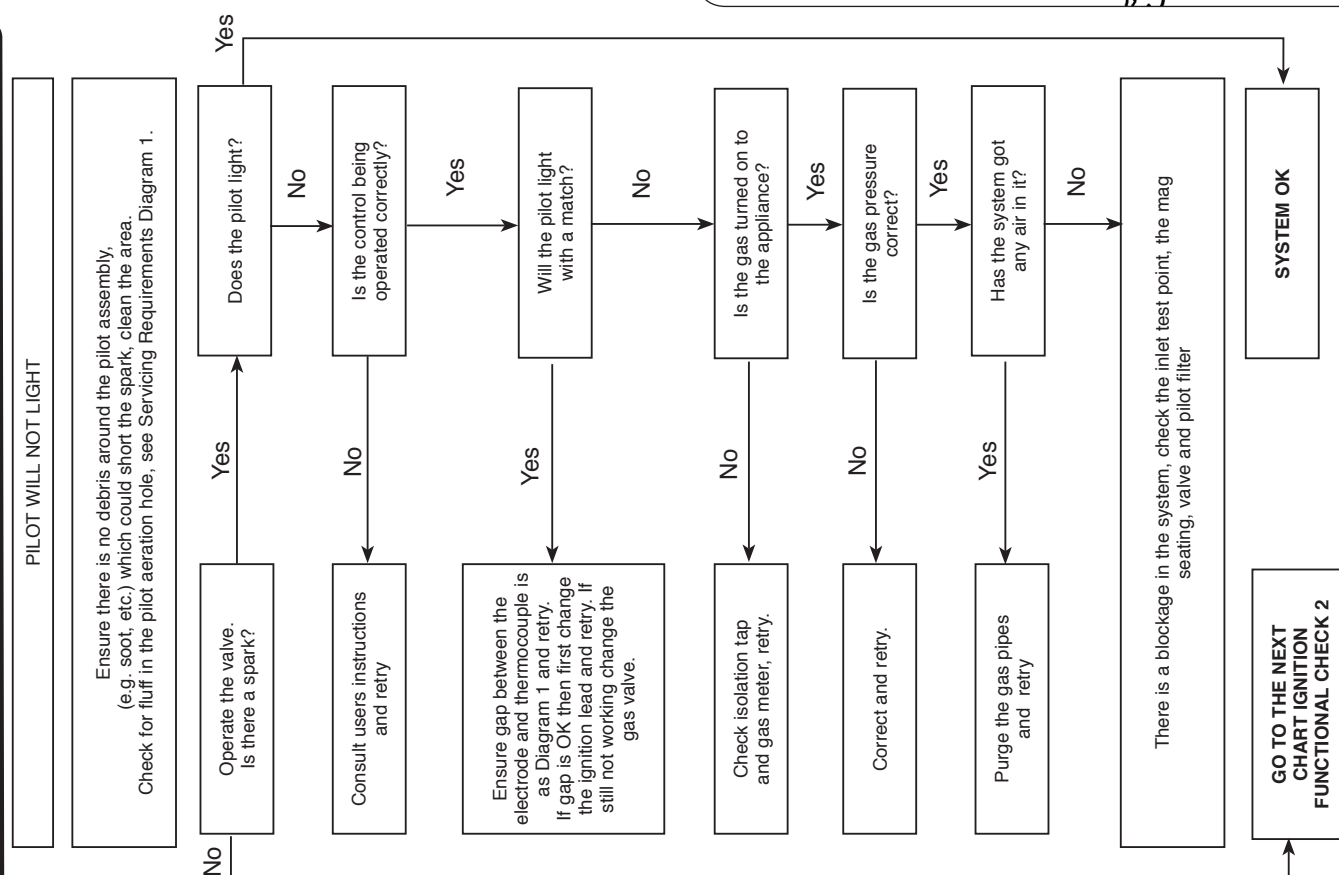
- As part of the annual service, the space behind the Convector must be inspected for any debris, which may have fallen down the chimney.
- Remove the Main Burner from the Convector Box, see Servicing Instructions - Replacing Parts Section 3.
- Remove the Convector box from the wall, see Installation Section 3B.
- Inspect the space behind the firebox for debris and the condition of the chimney, the flue flow test should be carried out now. Remove any debris and carry out any necessary remedial work.

### All Models

Note: Many problems can be attributed to poor pilot flame length caused by blocked jets as the orifice is very small. If the flame length is much shorter than that shown in the diagram, the pilot may have to be changed, see Diagram 1.



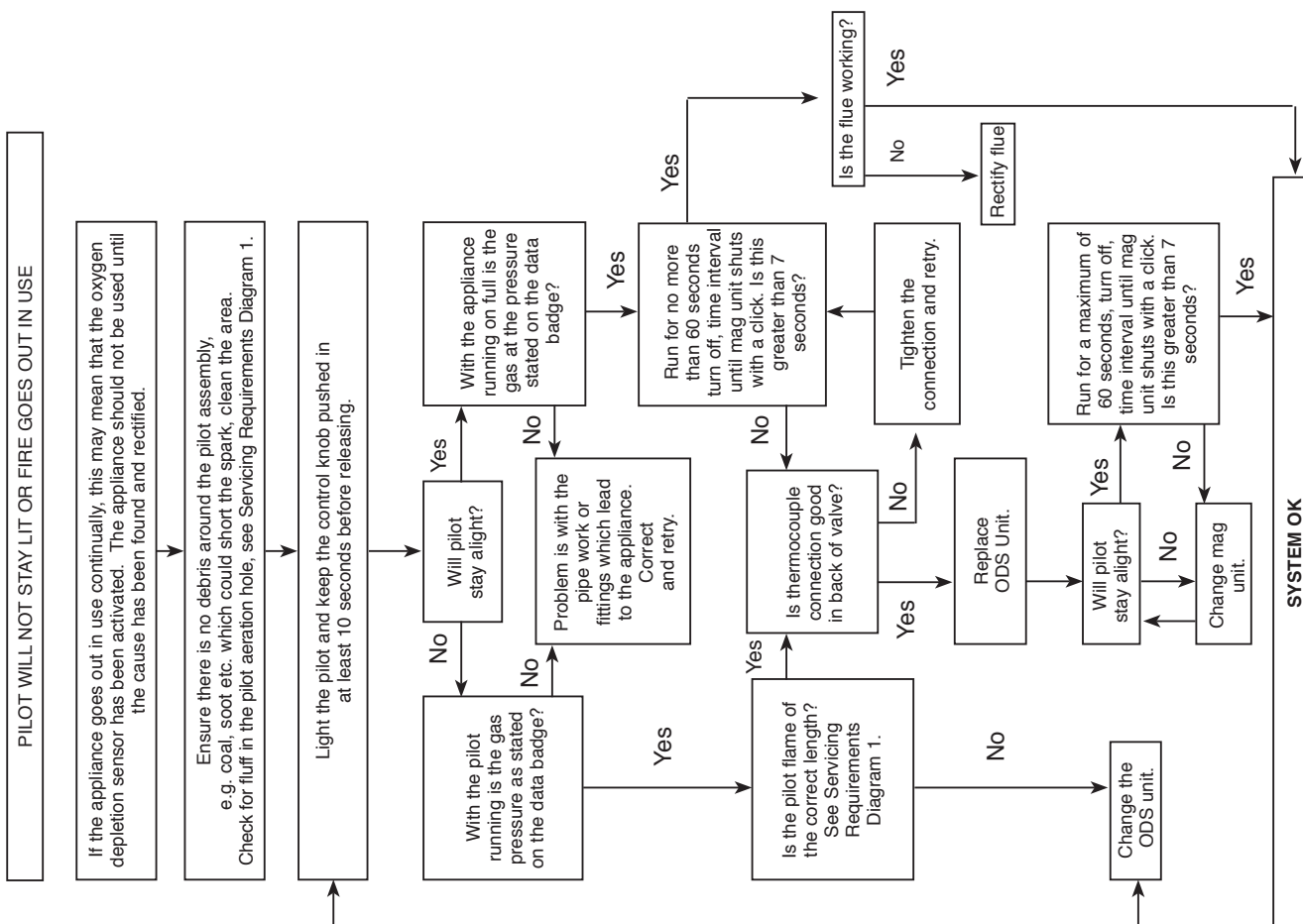
## IGNITION FUNCTIONAL CHECK 1



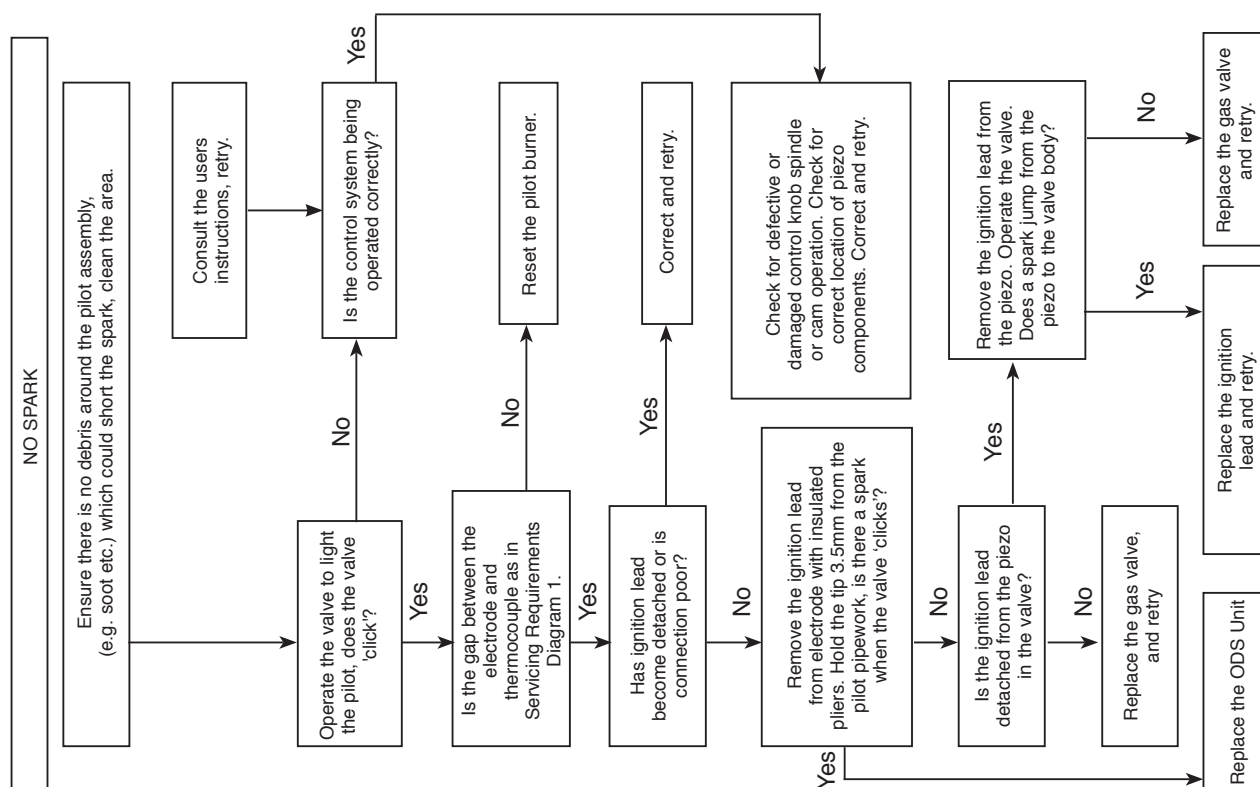
# Servicing Instructions

## Fault Finding Charts

### FLAME FAILURE FUNCTIONAL CHECK 3



### IGNITION FUNCTIONAL CHECK 2





# Servicing Instructions - Replacing Parts

## Important



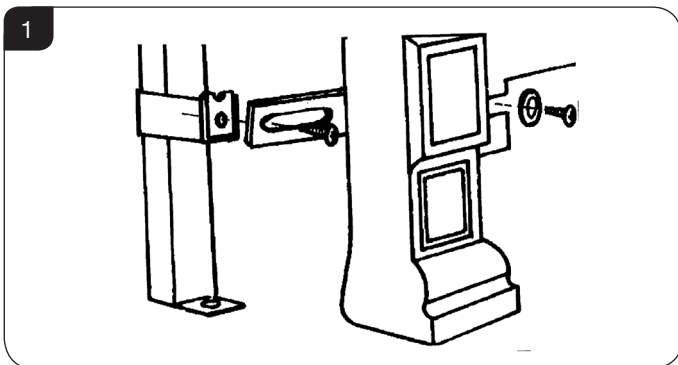
The following parts can be serviced without removing the main burner.

Ensure the appliance and surrounds are cool before servicing.

## 1. Ignition Lead

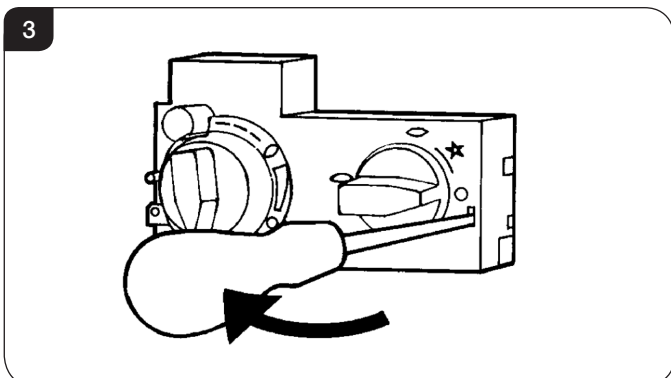
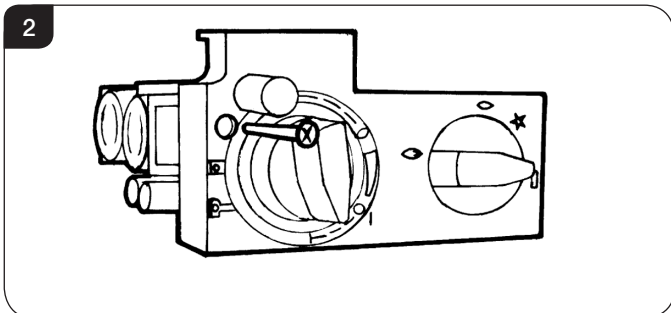
1.1 Turn off the gas supply at the isolation device.

1.2 Remove the fret, see Diagram 1.

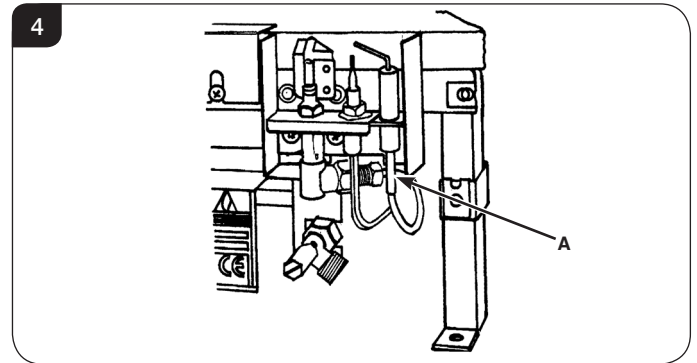


1.3 Remove the front cover from the control valve by removing the retaining screw, see Diagram 9 and gently levering clear with flat bladed screwdriver, see Diagram 10.

**NOTE:** There is a small cylindrical metal spacer inside the cover, this must be kept and replaced on the fixing screw on re-assembly



1.4 Disconnect the ignition lead from the gas valve and the pilot, see Diagram 4 arrow A.



1.5 Replace with a new ignition lead following the same route as the old one.

Replace the valve cover and the pilot assembly.

1.6 Check operation of the new ignition lead.

1.7 Replace the fret.

## 2. Piezo

2.1 The piezo assembly used on this appliance is not serviceable and is unlikely to fail.

## Important



To service any of the following parts of the appliance, it will be necessary to remove the main burner from the Convactor box

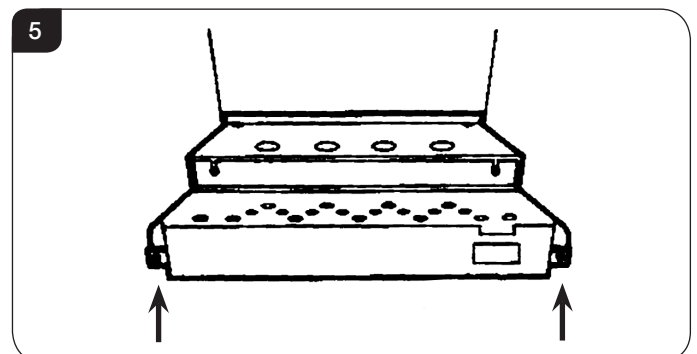
## 3. Main Burner

To remove the Main Burner:

3.1 Turn the gas supply off at the isolation device.

3.2 Disconnect the gas supply pipe from the pressure test elbow on the appliance.

3.3 Undo the screws securing the Main Burner, see Diagram 5.



3.4 Remove the Main Burner for servicing.

# Servicing Instructions - Replacing Parts

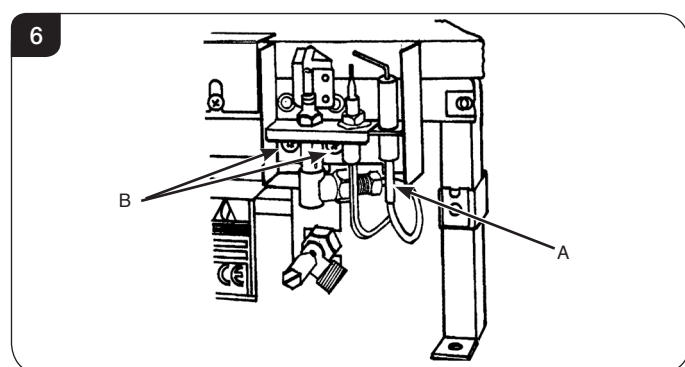
## 4. ODS Pilot Unit

Note: The pilot unit on the appliance is a non serviceable unit due to the complex nature of its manufacture.

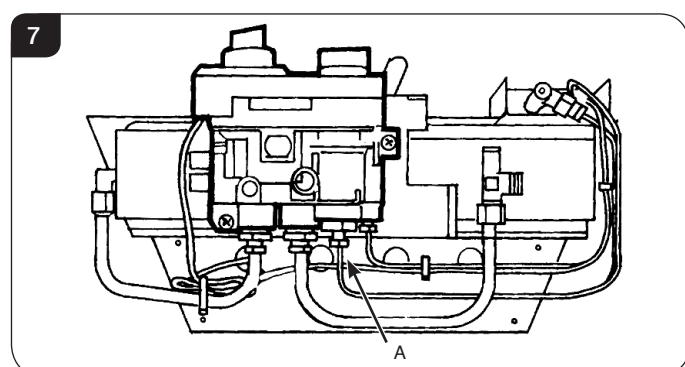
Replacement of the complete unit must be carried out when one of the following items becomes faulty:

Pilot injector  
Ignition electrode  
Thermocouple

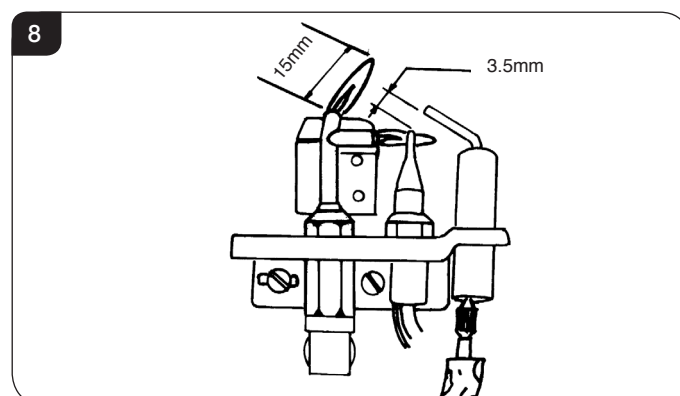
- 4.1 Remove the Main Burner, see Section 3.
- 4.2 Gently pull the ignition lead off the electrode, see Diagram 6 arrow A.



- 4.3 Remove the 2 screws securing the pilot assembly, see Diagram 6 arrow B.
- 4.4 Undo the thermocouple connection at the back of the gas valve, see Diagram 7 arrow A.



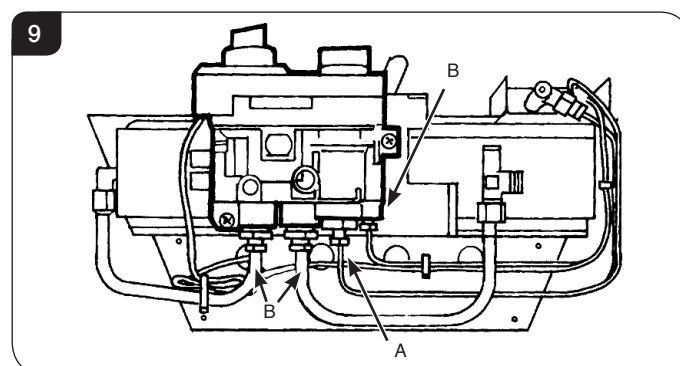
- 4.5 Replace with a new pilot assembly and set the spark gap, see Diagram 8.



- 4.6 After reassembly, check for gas soundness and carry out a flame failure functional check details in the flow chart, especially the time it takes for the mag unit to close.

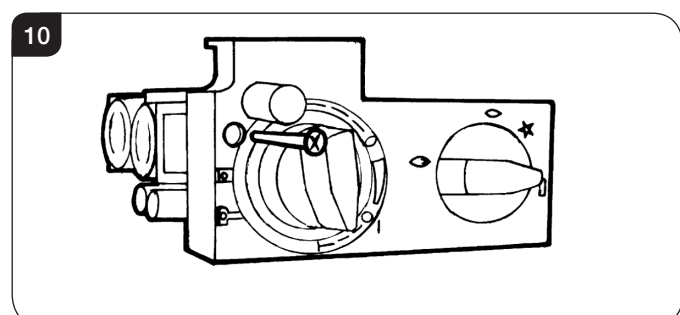
## 5. Gas Valve

- 5.1 Remove the Main Burner, see Section 3.
- 5.2 Disconnect the 2 x 8mm and 1 x 4mm gas pipe fittings at the back of the gas valve.
- 5.3 Disconnect the thermocouple, see Diagram 9 arrow B.



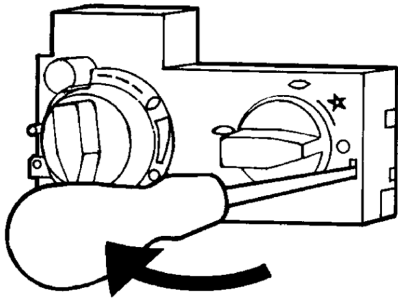
- 5.4 Remove the front cover from the control valve by removing the retaining screw, see Diagram 10 and gently levering clear with flat bladed screwdriver, see Diagram 11.

**NOTE:** There is a small cylindrical metal spacer inside the cover, this must be kept and replaced on the fixing screw on re-assembly



# Servicing Instructions - Replacing Parts

11

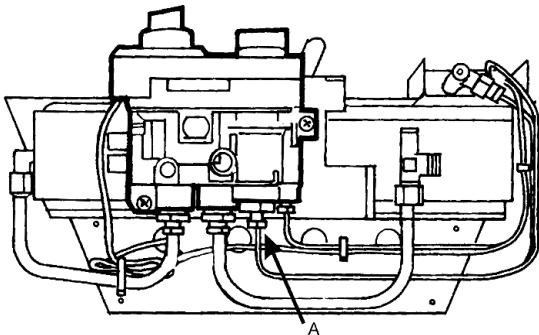


- 5.5 Disconnect the ignition lead from the gas valve, see Section 1.
- 5.6 Undo the 2 bolts securing the gas valve to the appliance and remove the valve.
- 5.7 Replace in reverse order.
- 5.8 Check all joints for gas leaks, check operation of the thermocouple and ignition lead.

## 6. Magnetic Safety Valve

- 6.1 Remove the Main Burner, see Section 3.
- 6.2 Undo the mag unit retaining nut at the back of the control valve, see Diagram 12 arrow A.

12

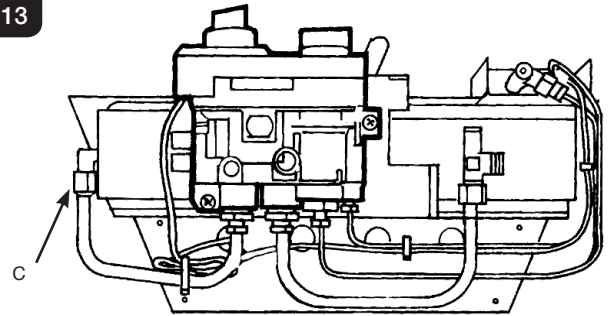


- 6.3 Gently tap out the magnetic valve and replace with a new unit.
- 6.4 Replace the retaining nut and tighten.  
Note - this is a gas-tight seal.
- 6.5 Replace the thermocouple and check for gas leaks.
- 6.6 After reassembly, carry out the flame failure functional check as detailed in the flow chart, especially the mag unit drop out time.

## 7. Main Injector

- 7.1 Remove the Main Burner, see Section 3.
- 7.2 Undo the injector compression nut, see Diagram 13 arrow C and pull the pipe clear of the injector body.

13



- 7.3 Rotate the injector until it is fully removed.
- 7.4 Replace with the correct replacement injector. When ordering, always state the model, gas type and serial number.
- 7.5 Reassemble and turn the gas supply on, check for any leaks

## 8. Changing Between Gas Types

The following parts must be changed when converting an appliance from one gas type to another:

- Main injector
- Pilot assembly
- Aeration adjuster
- Control valve
- Data Badge

Contact Gazco for a Conversion Kit.

Note: The control valve will be set for the particular Appliance. In addition a new databadge will need to be ordered. In all instances, when ordering new parts always quote the appliance type and serial number.

**Use only genuine Gazco replacement parts. Non-standard components will invalidate the guarantee and may be dangerous.**

## 9. Control Upgrade

See Installation Instructions, Section 2.

# Servicing Instructions - Replacing Parts

## 10. Spares Part Lists

CERAMICS	RD	16	22
FRONT COAL LH	CE0151		CE0153/54
FLAME BAFFLE	CE0119		CE0121
BURNER SKIN	CE0155		CE0157
COAL SET	CE0394		CE0396
CONVECTOR SIDE CHEEK LH	CE0158		
CONVECTOR SIDE CHEEK RH	CE0159		
NATURAL GAS PARTS			
MAIN INJECTOR	IN0007	IN0005	IN0042
PILOT ASSEMBLY		PI0036	PI0044
AERATION ADJUSTER	GZ3461		GZ3464
GAS VALVE	GC0088 - Preset for Nat Gas*		
LPG PARTS			
MAIN INJECTOR	IN0025	IN0001	IN0023
PILOT ASSEMBLY		PI0037	PI0045
AERATION ADJUSTER	GZ3465	GZ3466	GZ3467
GAS VALVE	GC0088 - Preset for LPG Gas*		
MISCELLANEOUS			
IGNITION LEAD	GC0090		
MAG UNIT	GC0166		
CONTROL COVER	GC0087		
UPGRADE KIT	8455		

\*Please note: The gas value is factory preset. Please consult Gazco for advise, stating the model number and gas type.

# Service Records

## 1ST SERVICE

Date of Service .....

Next Service Due .....

Signed .....

Retailer's Stamp/GasSafe Registration Number

## 3RD SERVICE

Date of Service .....

Next Service Due .....

Signed .....

Retailer's Stamp/GasSafe Registration Number

## 5TH SERVICE

Date of Service .....

Next Service Due .....

Signed .....

Retailer's Stamp/GasSafe Registration Number

## 7TH SERVICE

Date of Service .....

Next Service Due .....

Signed .....

Retailer's Stamp/GasSafe Registration Number

## 9TH SERVICE

Date of Service .....

Next Service Due .....

Signed .....

Retailer's Stamp/GasSafe Registration Number

## 2ND SERVICE

Date of Service .....

Next Service Due .....

Signed .....

Retailer's Stamp/GasSafe Registration Number

## 4TH SERVICE

Date of Service .....

Next Service Due .....

Signed .....

Retailer's Stamp/GasSafe Registration Number

## 6TH SERVICE

Date of Service .....

Next Service Due .....

Signed .....

Retailer's Stamp/GasSafe Registration Number

## 8TH SERVICE

Date of Service .....

Next Due .....

Signed .....

Retailer's Stamp/GasSafe Registration Number

## 10TH SERVICE

Date of Service .....

Next Service Due .....

Signed .....

Retailer's Stamp/GasSafe Registration Number







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