

These SAfire Flueless Fireplaces have been designed and manufactured in South Africa to suit the requirements of the South African climate and conditions. They have been tested in South Africa and fully comply with the local standards. See the front cover of this booklet for details of the LPGSASAVerification permits for your specific model.

It is important to note that the fireplace may only be installed by a Registered LP Gas Installer. The installation must be carried out in compliance with the requirements of SANS 10087-1 and any applicable local bye laws that may be in place. Failure to adhere to this requirement will make the installation illegal and will also invalidate the manufacturer's warranty. When complete the installer is required to issue you with a Certificate of Conformity. Make sure that you get this document as your insurance company may request a copy. The certificate of conformity must fully describe the installation and show the physical address of the installation site. It must also carry the name, registration number and contact details of the installer.

1. Technical specifications

All models:

Gas Type: LPG

Operating Pressure: 2,8 kPa

Note: These appliances require a gas pressure of 2,8 kPa at the appliance when the fireplace is at the maximum heat setting. **It is important for the correct functioning of the appliance that this requirement is proven by carrying out a pressure test after installation.**

Model Number	Gas Consumption per hour	Jet size
	g/h	1,7 mm
	g/h	mm

2. General safety information

- The gas supply will require at least one 48 kg LPG cylinder for efficient performance. This cylinder may not be installed inside the premises. (see installation instructions)
- Keep young children away from the appliance when in use and always use a fireguard in front of the appliance when in use if children or animals are in the room.
- In the event of a burnback, where the flame burns back to the jet, immediately turn off the gas supply at the control valve on the front panel. After ensuring the flame is extinguished, re-light the appliance in the normal manner. Should the appliance again burn back, close the control valve and call a service technician to examine the appliance. Do not use the appliance again until the service technician has declared that it is safe to do so.
- If a gas leak is suspected e.g you can smell gas, close the control valve of the fireplace. Check that there are no open flames or other sources of ignition within 5 metres of the appliance and then carry out the checks described below.
- Never check for gas leaks with an open flame e.g a lit match or lighter as this is extremely dangerous.
- To check for a gas leak, use a brush dipped in a 50/50 mix of water and dishwashing liquid apply this to all the joints in the system starting at the cylinder connections . If there is a leak then bubbles will form. If this happens turn off the gas supply at the isolation valve which the installer will provide as a part of the installation. Call a service technician to examine the cylinder, regulator and appliance, and do not use the gas system until the service technician has declared that there are no leaks and that the gas system is safe to use.
- Ensure that the appliance is used away from flammable materials. If installing in an open area without a firebox ensure that the surrounding area is clear of flammable materials for a minimum of 1 metre all round the appliance.
- This appliance is fitted with an Oxygen Depletion Sensor for your safety (See Fig 3). Its function is to shut down the gas supply to the appliance in the event of a burner flame out or other malfunction. **Do not interfere with or remove or modify this device.**

Fig. 1

3. Installation instructions

- This appliance is a fuelless appliance. Note carefully the ventilation requirements indicated in section 6 of this booklet as well as the specific requirements in SANS 10087-1. Do not install the appliance if the ventilation requirements are not met. Failure to adhere to this requirement will make the complete installation non compliant, will invalidate the manufacturer's warranty and more importantly place the occupants at risk.
- This appliance requires an operating pressure of 2,8 kPa at the appliance. A suitable LPG regulator that complies with the requirements of SANS 1237 must be installed outside.
- Ensure that the flow capacity of the installed regulator is sufficient to drive the gas grate model to be installed.
- If installing in an existing masonry fireplace, always make sure that the chimney has been properly cleaned before the SAFire fireplace is placed into the opening.
- If a damper is installed in the fireplace, make sure that it is in the closed position.
- It is particularly important to ensure that the SAFire fuelless fireplace is placed on a flat level surface. Failure to take note of this may lead to performance problems.
- Before finally placing the SAFire fireplace into position examine the appliance connection configuration so that you are aware of the position of the gas inlet point and are able to plan the pipe access through the firebox wall in the most suitable position. There are several pre-punched access holes in the firebox which does give some alternative options to achieve the best pipe layout.
- Place and secure the supplied insulation material around the back top and sides of the firebox to prevent the transfer of excessive heat to the surrounding area.
- Do not connect the gas supply to the appliance using flexible hose as the heat from the gas grate may damage the hose. It is recommended that flexible copper pipe according to the requirements of SANS 10087-1 be used. Follow the notes in section 4 to prepare the Gas Grate for use. The Gas Grate is supplied with the correct amount of vermiculite and the required number of pebbles to suit each model.
- Before lighting the appliance for the first time ensure that there are no gas leaks and that a pressure test is done. **Always check the line pressure at the appliance. The minimum required line pressure at the appliance is 2,8 kPa. This is vitally important to ensure that the appliance meets its designed efficiency and combustion safety levels. To assist in this it is strongly suggested that a test point be installed in the line as close to the appliance connection as possible.**
- You are required to light the burner in the presence of the owner/user and to instruct that person in the safe operation of the appliance and the complete installation.
- It is particularly important to show the user the position of the isolator valve.
- Installers are required to provide the owner/user with a completion certificate which must be dated and signed by both parties. Ensure that your name, Registration number and contact details appear on the certificate.

4. Fireplace preparation

- Randomly place the decorative pebbles or chips in the burner tray to that they fill the tray but do not cover the burner; (see Fig. 5)

5. Lighting and shutting down the appliance

- The appliance is fitted with a Piezo Ignitor built into the control valve which automatically ignites the gas grate when the control valve knob is turned to the ignite position and does not require the use of a lighter or matches to light it. (see Figs. 3 & 4)
- After checking that the gas supply to the gas grate is turned on, Push the control knob in and turn it anticlockwise to the ignite position whilst holding the knob pushed in. This should ignite the pilot burner. If the pilot burner does not ignite the first time repeat the above step by turning the control knob back to the off position and try again.
- Once the pilot burner is lit, hold the knob in the pushed in position for approx. 15 to 20 secs to ensure that the pilot burner remains alight.
- Now adjust the main burner flame by turning the control knob in an anti-clockwise manner to the required level of heat output. When the control knob is turned fully anticlockwise, the gas grate is at its highest heat setting.
- To reduce the heat output turn the control knob in clockwise direction.
- To light the appliance manually first light a match or barbecue lighter. Push the control knob in and turn it anticlockwise to the ignite position whilst holding the knob pushed in. Whilst still holding the knob in, offer the lit match or barbecue lighter up to the pilot light (see Fig. 2). This will ignite the pilot. Once the pilot is lit follow the instruction above to ignite the fireplace burner and adjust the heat setting.
- To shut down the appliance push in and turn the control knob in a clockwise direction to the off position.

6. Ventilation requirements

- There are certain important safety guidelines to be followed with regards to the provision of adequate permanent ventilation for fuelless appliances. These guidelines must be noted and the installation is required to follow the recommendations. These are covered in SANS 10087-1 and your installer is required to install the appliance in accordance with the requirements of that code.
 - **Do not install this appliance in bedrooms or bathrooms.**
 - Take specific note of the minimum room requirements with regarding the installation in rooms where the minimum room volume requirements are not met. The adding of the volume of a directly adjoining room in order to calculate the ventilation requirements may only be applied if there is not a closeable door or partition between the room in which the appliance is to be installed and the adjoining room.
 - The strict rule to be applied is that if the installed heat input is greater than 0,25 MJ per m³ of room volume then permanent ventilation is required.
 - **An open-able window or door is not permanent ventilation**
 - The table below gives the minimum living room sizes per model that the appliances may be installed in without the addition of permanent ventilation. In the case of open plan layouts, and providing there are no interleafing doors, it is permissible to combine the total volume of the combined areas in determining if the minimum room volume has been met. **If the room does not meet the minimum sizes listed below it is a requirement that permanent ventilation be added to the room.**
 - Where permanent ventilation openings are required they shall be at floor and ceiling levels and be of not less than the sizes indicated above per opening. **These should never be blocked.** The openings shall be directly to the outside in order to ensure the provision of fresh air into the room in which the appliance is installed.
 - If the room volume is less than indicated below, then permanent ventilation is required. **No exceptions may be made in this regard.**
 - Where permanent ventilation is required the ventilation openings are prescribed in SANS 10087-1. The ² minimum ventilation opening dimensions are based on the requirement of 13cm per MJ of heat input. Fuelless appliances add moisture to a room and apart from the fact that it is dangerous to use such appliances without adequate permanent ventilation, doing so may cause mildew to form on wallpaper and furnishings. Should this happen it indicates that there is insufficient ventilation in the room. The installer should be requested to re-examine the installation with specific regards to the provision of adequate ventilation.
- ### 7. Care and Maintenance
- There are no user service points on this appliance.
 - It is recommended that the appliance be serviced by a qualified technician on an annual basis.
 - Before undertaking any cleaning or maintenance work on the appliance, make sure that it is not hot and that the isolation valve is turned off.
 - Where the appliance is not going to be used for extended periods it is recommended that the pebbles either be covered with a cloth or removed and stored in a clean dry and dust free environment. The purpose of this is to ensure a trouble free start up at the beginning of the next winter season. If dust does collect on the pebbles the fireplace will take a while to settle down to its normal burn pattern as the dust is burned off.
 - To clean the pebbles simply brush the surface of each pebbles with a soft brush e.g. a paintbrush.
 - Never immerse the pebbles in water as this may cause them to crack or split open when next used. There are no user service points on this appliance.
 - It is recommended that the appliance be serviced by a qualified technician on an annual basis.
 - Before undertaking any cleaning or maintenance work on the appliance, make sure that it is not hot and that the isolation valve is turned off.

8. Using the appliance

- When in use make sure that there are no flammable materials close to the front or sides of the appliance.
- Users should become familiar with the normal flame patterns of the pilot burner and the main burners.
- Be aware that the knob on the control valve may become hot when the gas grate is in use.