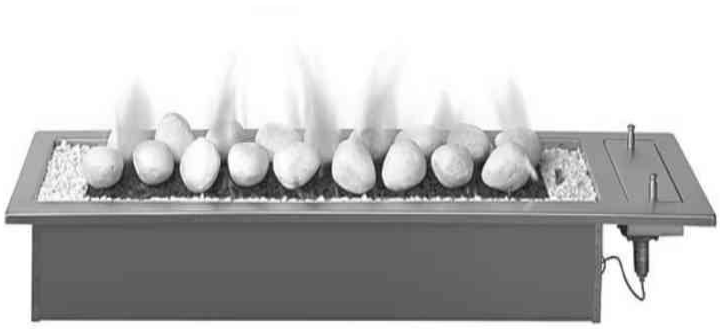
Safe Appliance
LP Gas Safety Association

CHAD-O-CHEF
Lifestyle products

VENTFREE / FLUELESS GAS FIRE INSTALLATION & OPERATING INSTRUCTIONS

Please read these instructions carefully before installation - use and retain them for future reference



NATURAL GAS
VFDI 800-N

These appliances conform to the requirements of SANS 1539.
LPGSA Permit Number:
Model VFDI800-N: Permit No:1013-30/1-RSA-12-A

CONGRATULATIONS

Thank you for purchasing your new CHAD-O-CHEF Gas Fireplace manufactured to high standards and tested for compliance with SANS 10087-1

The manufacturer and /or its agents and distributors will not be held responsible for injuries or damages caused by faulty or incorrect installation or use of the appliance.

1. This fireplace provides radiant and convection heat both efficiently and safely, using the latest technology, without the need of a flue. **This appliance consumes oxygen when in use and it is important that it is only used in a well ventilated area, for the efficient performance of the appliance and for the safety of the occupants of the area.**

2. No permanent ventilation is required if the room is 97m³ or larger, but an opening window is required. Should the room size be smaller than 97m³ then permanent ventillation will be required. This volume may include up to 50% of adjacent rooms connected by permanent archways, but not rooms separated by a closable door.

3. The fireplace must not be installed in a bathroom.

4. The fireplace must not be installed in a bedroom.

5. Where applicable, the min. free area of ventilation must be 13 cm² per mJ of heat input. The heat input of other gas, wood, coal or paraffin appliances must be included in the calculations. It is the installer's responsibility to do these calculations on behalf of the home owner.

6. **This appliance may only be installed by a registered LP Gas installer and must comply with the requirements of SANS 10087-1.** Ask to be shown the installer's card with his registration number, before allowing the installation work to commence and make a note of his QCC number. Upon completion of the installation, the installer is required to explain the operational details of the appliance together with the safety instructions. You will be asked to sign acceptance of the installation and be provided with a completion certificate. You should only sign for acceptance of installation, upon commitment from the installer, that it complies with SANS 10087-1 and is to your satisfaction.
Note that if the guarantee card is not signed by yourself and the installer and returned to the manufacturer, the product guarantee is invalid.

7. On initial lightup of your new fireplace, the "newness" will burn off within the first few hours of operation. During this period some smoke may be emitted from the unit, this should be no cause for concern. Accordingly, the room should be well vetilated with all windows open during this period.

8.Humidity levels will rise with the use of your fireplace, but with the usual dryness of winter, it will surely be welcomed. Should the humidity become overbearing, open the windows for a short period to ventilate the room.

SPECIFICATIONS

Model	VFDI800-N
Gas type	NG
Operating pressure	2,1 kPa
Min Regulator size to comply with SANS 1237	N/A
Max. gas consumption	N/A
Max. mJ input	N/A
Max. kW input	9 kW / h
Gas inlet connection	Ø8mm compression
Ignition	Piezo Spark
Oxygen depletion system (Pilot)	ODS min 18.5% O2
Coals	14
Pebbles	14
Min Room size without permanent ventilation	97m³

INSTALLATION REQUIREMENTS

Your VFDI800-N Fireplace is designed to **drop into a hole prepared in a masonry construction.**

In order to function correctly the unit needs adequate ventilation holes to be cut into the masonry construction housing the unit (2x 100mm holes)

Choosing a site

This fireplace may be installed in any room in a home except in bedrooms or bathrooms where the humidity levels are too high. (See page 2)

Avoid areas where there are strong draughts, which may be generated by outside doors. It is recommend that the fireplace **should not** be installed within 500mm of any air vent, as this could affect the working of the ODS.

An outside wall is most convenient for the gas installation.

Clearances to combustible materials

Combustible materials are defined as wood, fabrics, or other materials likely to burn when exposed to flame. Any other material which is likely to discolour ,melt, or lose shape when exposed to moderate heat, should fall into the same category.

Min clearance to the sides	100 mm
Min clearance to the sides for curtains & fabric	500 mm
Min clearance to the ceiling	800 mm
Min clearance to a floor (including carpet)	100 mm
Min clearance to combustible furniture in front	1000mm

A masonry shelf may be fitted 300mm above the fireplace but under no circumstances should any electrical equipment such as plasma screen TV sets be positioned on the wall above. Any ornaments positioned above the fireplace must be able to withstand the elevated temperatures and moisture. No combustible materials whatsoever must be used or placed above the fireplace.

INSTALLATION INSTRUCTIONS
FOR QUALIFIED GAS INSTALLER

Unpacking

Carefully undo strapping to separate loose parts and remove all plastic protective sheeting.

Positioning and Sizing

Confirm that the size of Fireplace chosen is the right size for the room.
Build up a masonry platform to the customers design, with a suitable hole to drop the fireplace into, so that it rests on the surrounding rim.
Provide a vent for the primary air to the burner by means of a hole, with a minimum size of 50 sq cm, leading into the cavity below the unit.

Connect up according to SANS 10087-1

Connect a copper pipe from the gas bottle via a regulator, complying with SANS 1237, to the Ø8 compression fitting on the control valve, taking into account the distance from the gas tank, to calculate the size of the copper pipe.

Setting up

1. Insert the burner with the venturi facing the gas jet.
2. Fill the burner with the special **black** radiant ceramic ash or glass chips.
3. Spread the decorative stone or ceramic evenly around the burner.

NOTE: Should the burner become dislodged, replace it making sure that it rests flat on the base plate, without any ceramic or stone coming between it and the plate.

4. Place **pebbles** in a single layer, double row, spread across the burner, allowing about 10mm gaps between them.
Or place **coals** in a single layer, double row, spread across the burner, adding a second row on top, allowing about 10mm gaps between them.
Use only the number of pebbles or coals supplied.

Testing and Commissioning

Turn on the gas supply and test for leaks with soapy water.
Ensure that the **WORKING PRESSURE is 2,1 kPa at the control valve**.
See checklist.

Briefing the customer

All instructions must be handed over to the user for safekeeping. Instruct the customer how to turn the gas on and off and how to light and control the fire. After commissioning the unit the customer should be instructed on the safe use of it and the need for regular servicing. Frequency of service depends on usage, but must be carried out at the first sign of malfunction and at least once in 2 years.

Identify the Valve of the Fireplace using the pictures on pages 5-7 and use the Operating and Pressure Testing Instructions as appropriate.

NG6801 VALVE

OPERATING INSTRUCTIONS

The ODS pilot is situated on the side of the burner.
The gas control valve is accessible by removing the lower door. Grip a knob in each hand and pull forward, to break the magnetic hold.

1. Push in and turn the control knob to the pilot position and hold it there for a few seconds to allow the gas to feed to the pilot.

2. Continue turning anti-clockwise through the PILOT to click at the SPARK position. Ensure that the pilot is lit. If not, return to OFF position and repeat.

3. When the pilot is lit, keep the knob depressed for approximately 10 to 15 seconds.

4. Now release the knob and the pilot should stay alight.

If the pilot is extinguished during use, wait 3 minutes before repeating the ignition procedure.

5. Continue turning the knob anticlockwise to the HIGH position and the main burner should light after a few seconds

6. Select the required HIGH or LOW setting.

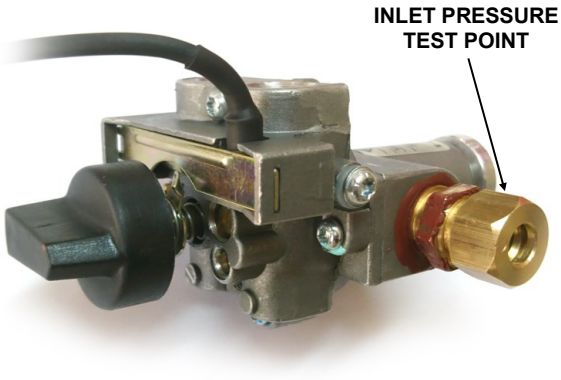
7. To turn the fire OFF, depress the knob and turn it clockwise to the OFF position and release. This will extinguish both the main burner and the pilot burner.

PRESSURE TESTING

1. Remove the valve cover by gripping both sides and pulling towards you.
2. Attach inline “Pressure Test Tee” into main inlet line.
3. Adjust line pressure to correct working pressure, whilst fire is set on high.

The pressure should be according to the data set out in the SPECIFICATIONS.
The fireplace is factory set to work at these pressures and any significant variation could indicate a supply problem.

If the pressure is too high or too low, then check the inlet pressure, by the above procedure only using the inlet pressure test point situated at the bottom RHS.



CHECKLIST FOR GAS INSTALLER

Before calling the manufacturer, ensure that all the checkpoints below conform.
Refer to the latest SANS 1539:2008 Annex A ,C & E

- Check there is gas feed to the unit
- Check that the inlet working pressure is 2.1 kPa. **If not correct:**
  - Check that the supply pipe is the correct diameter for the distance covered.
  - Check that the regulator is functioning correctly.
- The burner must be correctly positioned and sitting flush on the bottom plate,
- Jet is centrally aligned with the burner venturi.
- Check for spider webs in the venturi.
- The **black** ceramic ash or **Glass** supplied with *Chad-O-Chef* fireplaces must be inside the burner & the **white** decorative stone (if applicable) surrounding the burner.
- Ensure that the coals or pebbles supplied by *Chad-O-Chef* are placed as recommended with a 10mm gap between them.
- **DO NOT** use more coals or pebbles than recommended and supplied. (See Page 3)
- The room must be bigger than the *minimum* room size for that fireplace. (See Page 3)
- Ensure that there is adequate ventilation (See Page 2)

CAUTION

Do not tamper with jets, burners or regulator settings. NEVER MODIFY OR BEND THE THERMOCOUPLE TO MAKE THE PILOT STAY ALIGHT. CHAD-O-CHEF products are pre-set and tested to function efficiently and are approved by the LPGSA.

Should a burn back occur, i.e. the jet catching alight at the entry to the burner with a noticeable loud rushing sound: Turn the gas off immediately and re-light after 1 min. If condition persists, contact your gas installer.

Should a leak in the gas be detected, turn off the gas at the gas cylinder, and contact your installer immediately.

Should there be an unexplained shutdown, which could be the result of insufficient oxygen in the room, shut off the gas supply, then open windows and doors in the room, wait 5 min before attempting to restart. If condition persists, contact your gas installer.

WARNING

This appliance shall **not** be installed in separately enclosed bathrooms.

WARNING

This is an un-vented gas fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate ventilation must be provided.
Refer to the appropriate section of the user manual.

WARNING
CARBON MONOXIDE POISONING
CAN LEAD TO DEATH

Carbon monoxide poisoning: Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness or nausea. If you have these signs, the heater may not be working properly. Get fresh air at once. Have the heater serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

CLEANING

Should soot deposits appear on the stainless mosaic tiles, first clean with a dry cloth when cold, and follow up with a cloth dampened with methylated spirits and a final buffing with a dry cloth. **Do not use an oil based cleaner, as the oil tends to discolour the tiles when heated.**

The surrounding facia may be cleaned with any good stainless steel cleaner, whilst a damp cloth should clean any other surfaces.

SERVICING

Servicing must be carried out by a qualified gas installer.
Frequency of service depends on usage, but must be carried out at the first sign of malfunction and at least once in 2 years.

Spiders are the biggest pests, because they tend to occupy the smallest of holes which will be in the burner venturi or the pilot air holes. If spiders are a problem in the home, have your fireplace serviced just before the new season begins.

Suggested procedure for servicing:

1. Isolate the gas supply and work on a cold unit.
2. Remove the coals or pebbles.
3. Remove the burner and empty the black radiant ceramic ash into a container.
4. Clean the burner and venturi by vacuuming.
5. Remove the surrounding stone or ceramic ash and clean by vacuuming.
6. Inspect the ODS pilot and clean the airways. Check the spark gap.
7. Inspect and clean the main jet
8. Re-assemble the components.
9. Turn on the gas supply and leak test.
10. Check pilot and burner for good ignition.
11. Light the fire and check pressure settings.
12. Check the safe operation of the unit.

CHAD-O-CHEF
Lifestyle products

Guarantee Claim Form

Chad-O-Engineering(Pty)LTD
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Vat Reg No: 4690123031

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PO Box 986
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2040 South Africa
229 Short Road, Muldersdrift 1747

The Guarantee given by Chad-O-Engineering (Pty) Ltd covers the working components, on all Chad-O-Chef Fireplaces for the period of 2 Years, covering manufacturing defects caused in the manufacturing process. This does not cover component malfunction if the product is not installed by a registered Gas Installer, or the product is modified after leaving the factory.

Chad-O-Engineering (Pty) Ltd will not be held responsible in the event of rust or fatigue of components due to incorrect cleaning of the product.

Product Name: _____

Invoice No: _____

Serial No: _____

Describe the fault:

_____

_____

Contact Details:

_____

_____

Please attach a copy of the Gas Installation certificate and email to: services@chad-o-chef.co.za