Safe Appliance

Since 1983

CHAD-O-CHEF

Lifestyle products

DROP IN FLUELESS GAS FIREPLACE INSTALLATION & OPERATING INSTRUCTION MANUAL

Please read these instructions carefully before installation and operation. Retain these instructions for future reference.



VFDI800 / VFDI1000 / VFDI1200

These appliances conform to the requirements of SANS 1539

For permit number see: https://www.lpgas.co.za/safe-appliance-database/

STYLE • SAFETY



CONGRATULATIONS

on your purchase of a

CHAD-O-CHEF FIREPLACE

and WELCOME to the

CHAD-O-CHEF

family

QUALITY THAT LASTS

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GENERAL INSTRUCTIONS AND SAFETY NOTES

Thank you for purchasing your new CHAD-O-CHEF Gas Fireplace manufactured to the highest standards and compliant to SANS 1539.

1. This appliance may only be installed by a registered gas installer with the South African Qualification and Certification Committee for Gas (SAQCC Gas) for the applicable gas type. Registered Gas Installers can be found and verified on the LPGSA website.
   - For LPG, the appliance must be installed in accordance with the requirements of SANS 10087-1.
   - For Natural Gas (NG), the appliance must be installed in accordance with the requirements of SANS 827.

   Cognisance must be given to local fire authority regulations and/or local bylaws applicable to the area. Upon completion of the installation, the installer can explain and demonstrate the safe operation applicable to the appliance and the installation. You will be asked to sign acceptance of the installation and be provided with a Certificate of Compliance (COC) for safekeeping.

2. This appliance is designed to provide radiant heat both efficiently and safely. This requires that the appliance is installed correctly in an adequately ventilated area as the appliance consumes oxygen in its normal operation

   No permanent ventilation is required if the room volume (m^3) matches or exceeds the minimum requirement specified for the applicable appliance (see pg.6-7), although an opening window is recommended. Should the room size be smaller than the minimum room volume, permanent ventilation will be required. This volume may include 50% of adjoining rooms connected by permanent openings exceeding 1.5m^2 in floor size, but not rooms separated by a closable door.

3. Where permanent ventilation is required, two openings shall be installed, with one at high level and one at low level. Each opening shall have a free cross sectional area of not less than 6.5cm^2 per mJ/h of heat input. The heat input of other gas, wood, coal, paraffin, ethanol or similar appliances must be included in the calculations. It is the installer's responsibility to do these calculations on behalf of the homeowner.

4. The maximum room sizes specified on pg. 4-5 under specifications are recommended and may vary according to factors such as home insulation, materials, climate and so fourth.

5. DO NOT install in bathrooms, bedrooms, toilets or saunas.

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

7. Read more about LPG safety on our website: https://chad-o-chef.co.za/how-safe-is-lpg-in-your-home/

   Note: Upon initial light-up of your new fireplace, some fumes may be emitted from the unit. This is normal and should discontinue within a few hours of normal operation. Accordingly, the room should be well ventilated with all windows open during this period.

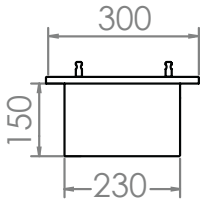
SPECIFICATIONS

Select the applicable size, model and gas type & follow the instructions appropriately:

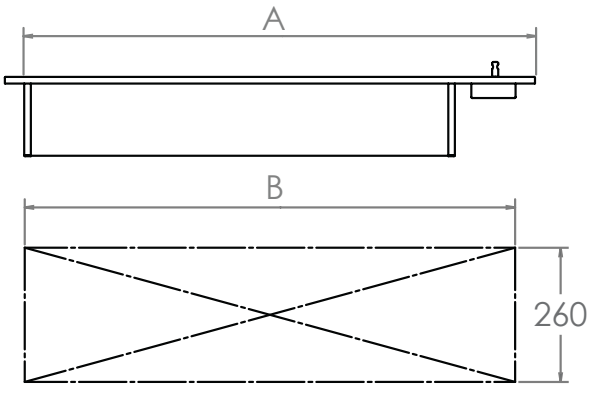
Model	VFDI800	VFDI800-N
Gas type	LPG	Natural Gas
Operating pressure	2,8 kPa	2.1 kPa
Min Regulator size to comply with SANS 1237	2 kg/hr	N/A
Max. gas consumption	0.64kg/hr	N/A
Max. mJ input	32 mJ/hr	N/A
Max. kW input	8.7 kWh	
Gas inlet connection	Ø8mm compression	
Ignition	Piezo Spark	
Oxygen depletion system (Pilot)	ODS min 18.5% O2	
Min Room size without permanent ventilation	160m³	
Max room size for effective usage	399m³ (108m²)	

Model	VFDI1000	VFDI1000-N
Gas type	LPG	Natural Gas
Operating pressure	2,8 kPa	2.1 kPa
Min Regulator size to comply with SANS 1237	2 kg/hr	N/A
Max. gas consumption	0.75kg/hr	N/A
Max. mJ input	37.5 mJ/hr	N/A
Max. kW input	10.2 kWh	
Gas inlet connection	Ø8mm compression	
Ignition	Piezo Spark	
Oxygen depletion system (Pilot)	ODS min 18.5% O2	
Min Room size without permanent ventilation	188m³	
Max room size for effective usage	416m³ (131m²)	

Model	VFDI1200	VFDI1200-N
Gas type	LPG	Natural Gas
Operating pressure	2,8 kPa	2.1 kPa
Min Regulator size to comply with SANS 1237	2 kg/hr	N/A
Max. gas consumption	0.84kg/hr	N/A
Max. mJ input	42 mJ/hr	N/A
Max. kW input	11.4 kWh	
Gas inlet connection	Ø8mm compression	
Ignition	Piezo Spark	
Oxygen depletion system (Pilot)	ODS min 18.5% O2	
Min Room size without permanent ventilation	210m³	
Max room size for effective usage	544m³ (163m²)	



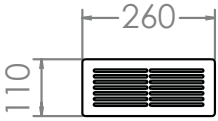
SIDE



CUT OUT SIZE

MODEL	SIZE (A)	SIZE (B)
VFDI800	780	720
VFDI1000	1040	980
VFDI1200	1180	1120

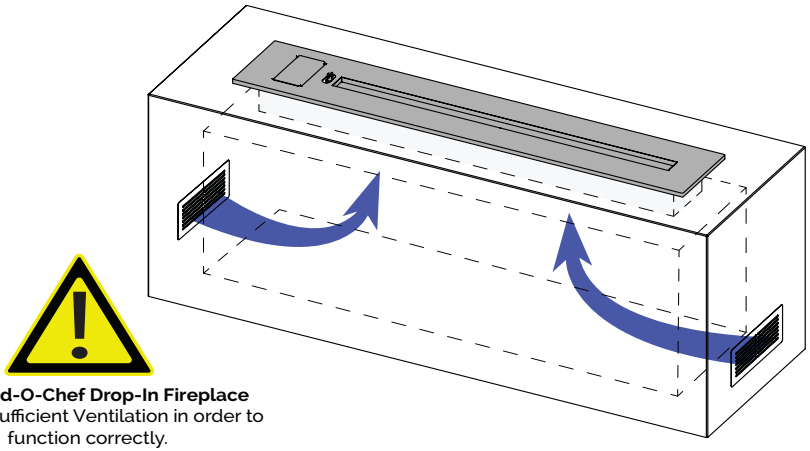
2 x VENT PANELS INCLUDED



INSTALLATION REQUIREMENTS

Your Drop-In Fireplace unit is designed to fit into an aperture constructed into a housing made from nonflammable materials, such as masonry.

For correct operation, the housing requires 2 x brick-sized ventilation holes to be cut into it below the unit as per the diagram below. The 2 x Vent Covers supplied can be used to cover these holes.



The **Chad-O-Chef Drop-In Fireplace** requires sufficient Ventilation in order to function correctly.
Inadequate oxygen supply to the unit will affect the clean burning nature of the fire-place and further, cause the ODS safety System to cut out the gas supply to the unit completely.

Choosing a site:

This fireplace may be installed in any room in your home except for bedrooms, bathrooms, toilets and saunas. Avoid areas where there are strong draughts, which may be generated by open doors. It is recommended that the fireplace should not be installed within 500mm of any air vent, as this could affect the working of the ODS.

Clearances:

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

into the same category.

Clearances to combustible materials:

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	1000 mm

A heat resistant masonry shelf may be fitted 800mm above the fireplace but under no circumstances should any electrical equipment such as a TV be positioned 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.

It is important that the clearances are adhered to, taking into account which Drop-In Fireplace variation you have purchased, as stipulated on pg.6-7.

Should these guidelines not be adhered to, your fireplace & surrounds will be at risk for damage, and the manufacturer will not be held liable.

INSTALLATION INSTRUCTIONS FOR QUALIFIED GAS INSTALLER

Unpacking

Carefully undo strapping to separate loose parts. Keep the plastic PVC protective sheeting on until installation is complete.

Positioning and Sizing

Confirm that the size of fireplace chosen is the right size for the room, and that the gas type is suitable for the installation (pg.4-5). 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 vents for the primary air to the burner by means of 2x brick-size holes, leading into the cavity below the unit. These vents can be covered with the 2 x vent covers supplied with the fireplace. (see diagram on pg.6)

Connect up according to SANS 10087-1 for use with LPG, or according to SANS 827 for use with Natural Gas.

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

Setting up

1. Insert the burner with the venturi facing the gas jet, and ensure the burner is seated correctly.
2. Fill the burner with the special **black** radiant ceramic ash or glass stones.
3. Spread the small white chips or glass stones evenly around the burner (do not use the white chips inside the burner).
4. Place the large coals if applicable in a single layer, double row, spread across the burner, allowing about 10mm gaps between them.
5. **Only use the type & qty of stones provided with the fireplace.**

Testing and Commissioning

Turn on the gas supply and test for leaks with soapy water.
Ensure that the **OPERATING PRESSURE is 2,8 kPa at the control valve for an LPG connection, or 2.1 kPa for a Natural Gas connection**.
(See Pressure Testing on pg. 9-10)

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.

NG6801 VALVE: OPERATING INSTRUCTIONS

The ODS pilot is situated on the side of the burner.

The gas control valve is accessible by removing the side cover, which lifts off.



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.

NG6801 VALVE: PRESSURE TESTING

The operating pressure should be according to the data set out in the SPECIFICATIONS on pg. 4. 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 following procedures.

(Continued on next page)

NG6801 VALVE: PRESSURE TESTING

1. Before conducting a pressure test, ensure that the in-line shut-off valve is closed.
2. Access the valve from the underside of the fireplace.
3. Remove the plastic valve cover by gripping both sides and pulling towards you.
4. Check your valve type before continuing further:
    - Diagram A - The inlet pressure testing point is provided by the gas installer. You will need to locate this to continue.
    - Diagram B - The inlet pressure testing point is provided by the manufacturer. This is located at the 'T' testing point at the valve.

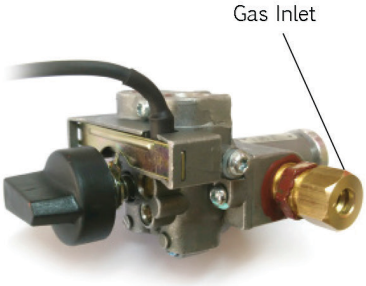


Diagram A

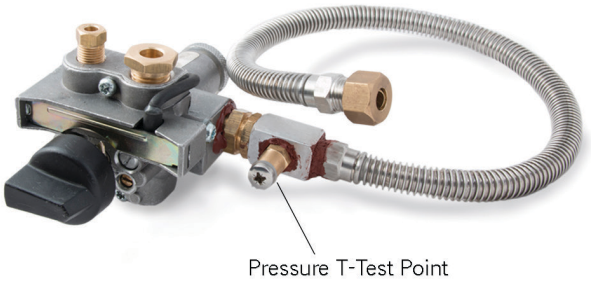


Diagram B

5. Open the testing point by removing the M5 screw & sealing washer.
6. Connect your pressure gauge to the open testing point.
7. Re-open the in-line shut-off valve and ignite the fireplace as per the operating instructions. Make sure to set to HIGH for the duration of this process.
8. Allow the fireplace to run for at least 5 minutes in order to stabilise the line pressure. Once stabilised, set the operating line pressure to 2.8kpa (for LPG or 2.1kPa (for NG). Do not set the pressure while the line is static, as this will result in inaccuracy.
9. Once set, close the shut off valve to extinguish the flame and stop the gas flow.
10. Ensure that the M5 screw & sealing washer are free of debris & replace tightly to close the testing point.
11. Conduct a leak test to ensure that there are no leaks at the testing point.

CHECKLIST FOR GAS INSTALLER

Before calling the manufacturer, ensure that all the checkpoints below conform. Refer to the latest SANS 1539:

- ☐ Check there is gas in the gas bottle (if bottle is nearing empty change over to new bottle)
- ☐ Check that the inlet operating pressure is 2.8 kPa for LPG or 2.1 kPa for NG (whilst running). **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 (if applicable) 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.
- ☐ The room must be bigger than the minimum room size specified for your fireplace (See Page 4) If not:
- ☐ Ensure that adequate ventilation requirements have been met. (See Page 2 & 6)

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 preset 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 relight 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.

WARNINGS

WARNING

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

For all surfaces, the fireplace can be wiped clean with a damp microfiber cloth. If a slightly more aggressive cleaning is required you can use a little sunlight liquid to remove finger marks. Should soot deposits appear on the sliver stainless steel, 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 any oil based cleaners, as the oil tends to discolour the stainless steel when heated.
- DO NOT use any abrasive cleaners or cloths, especially on the mirror finishes, as they can scratch very easily.
- See more about the care and maintenance of stainless steel on our website: https://chad-o-chef.co.za/chad-o-chefs-care-maintenance-guide-for-stainless-steel/

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.

GUARANTEE

Chad-O-Engineering (Pty) Ltd (COC) Guarantees cover all fireplaces manufactured by Chad-O-Chef for the duration of 2 years. Ts & Cs apply.

Refer to our website for more details on what is included in your guarantee & the appropriate steps to take when claiming:

https://chad-o-chef.co.za/guarantees/

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