



# WONDERFIRE AF18 OF MANUAL VALVE

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## INSTALLATION & OPERATING MANUAL

Wonderfire fire boxes are approved to be installed as a Type 1 installation into a masonry fireplace or into an approved prefabricated firebox and are designed to operate on Natural Gas.  
Approval Number: AGA 4464 G

**Installed primarily as a decorative appliance. Not certified as a Space Heater.**

VERSION R2.1

## WARRANTY INFORMATION

The benefits provided to you under the following warranty are in addition to any other rights and remedies available to you under the law.

### 1. Warranty

If:

- (a) during the first 10 years from the date of purchase (Firebox Warranty Period), there is a defect in the firebox of the Gas Burner; or
- (b) during the first 2 years from the date of purchase (Parts Warranty Period), there is a defect in the gas valves or other parts of the Gas Burner,  
due to improper workmanship or material, Glen Dimplex will replace or repair the Gas Burner without charge. Any replacement product is warranted only for the time remaining on the original Firebox Warranty Period or the Parts Warranty Period as relevant.

### 2. Registration

All in and out of warranty claims and service requests are to be emailed to: [service@glendimplex.com.au](mailto:service@glendimplex.com.au)

The email should include the following information:

- Proof of purchase—A copy of the customer's invoice.
- Store details and contact person. (Please ensure ALL details are correct)
- All relevant customer details, if not on the proof of purchase
- Detailed report of the issue with pictures where possible showing any damage or technical issue.

### 3. Exclusions

Glen Dimplex is not obliged to replace or repair the Gas Burner under clause 1 if:

- (a) it has been improperly stored, installed, connected, used, operated or repaired, or damaged, abused, tampered with, altered (without our written approval), or not maintained in strict accordance with our installation and operating instructions; or
- (b) it has been installed in an outdoor setting.

### 4. Limit of Liability

The warranty provided under this warranty is limited to replacement or repair of the Gas Burner only, at our option. To the extent permitted by law, Glen Dimplex excludes liability for consequential loss or any other loss or damage caused to property or persons arising from any cause whatsoever, and damage arising from normal wear and tear.

### 5. Claiming under the Warranty

In order to claim under this warranty you must, within the Firebox Warranty Period or the Parts Warranty Period (as relevant), contact Glen Dimplex, providing the original proof of purchase and the details below:

Supplier Name \_\_\_\_\_

Date Of Purchase / settlement of property if new home \_\_\_\_\_

Model / Serial Number \_\_\_\_\_

This warranty does not cover the cost of claiming under the warranty or transporting the Real Flame Gas Burner to and from the supplier.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

If you would like to speak to someone about your Gas Burner or claiming under this warranty, please contact the Service Warranty Desk on 1300 554 155.

Glen Dimplex Australia Pty Ltd ACN 69 118 275 460  
 Head Office: 8 Lakeview Drive, Scoresby, VIC 3179  
 Telephone: 1300 554 155 Facsimile: (03) 8706 2001

## INSTALLATION NOTICE

- The installation of this appliance is only to be carried out by an authorised person in accordance with the Manufacturer's Instructions, local gas fitting regulations, AS/NZS5601.1-2013 installation code for gas burning appliances and any other relevant statutory regulations.
- In all cases the installation of this appliance shall meet the requirements as set out in AS/NZS5601.1-2013

- NOTE: A slight smell may be apparent for the first few hours of use. This is due to the heat resistant paint curing. It is recommended to open windows in the room for the first lighting of the fire. In some instances a slight discolouration may occur inside the firebox. This is a normal condition and is not covered by warranty.

## IMPORTANT SAFETY NOTICES

- DO NOT PLACE ARTICLES ON OR AGAINST THIS APPLIANCE.
- DO NOT USE OR STORE FLAMMABLE MATERIAL NEAR THE APPLIANCE.
- DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILST IT IS IN OPERATION.
- CARE MUST BE TAKEN TO ENSURE THAT ANY RETURN AIR REGISTER OR EXHAUST SYSTEM DOES NOT ADVERSELY AFFECT THE OPERATION OF THE APPLIANCE OR DRAUGHT OF CHIMNEY OR FLUE.
- DO NOT MODIFY THIS APPLIANCE.
- THIS APPLIANCE IS DESIGNED TO OPERATE WITH LUMINOUS FLAMES. THIS MAY EXHIBIT SLIGHT CARBON DEPOSITS.

## VENTILATION REQUIREMENTS

Permanent ventilation of the room where the fire is to be situated is essential while fire is in operation. The room must have a minimum cross sectional area of 40,000sq mm of effective ventilation.

It is recommended that you service your gas fire every 2 years.

## WARNING

This firebox has a naked flame, care should be taken when it is operating if children or the infirm are in close proximity. For protection of young children or the infirm, a secondary guard is required. A safety screen is recommended if constant supervision is not possible. It is recommended that a secondary guard complying with AS-NZS2286 be installed.

The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

**THIS IS PRIMARILY A DECORATIVE APPLIANCE AND IS NOT CERTIFIED AS A SPACE HEATER.**

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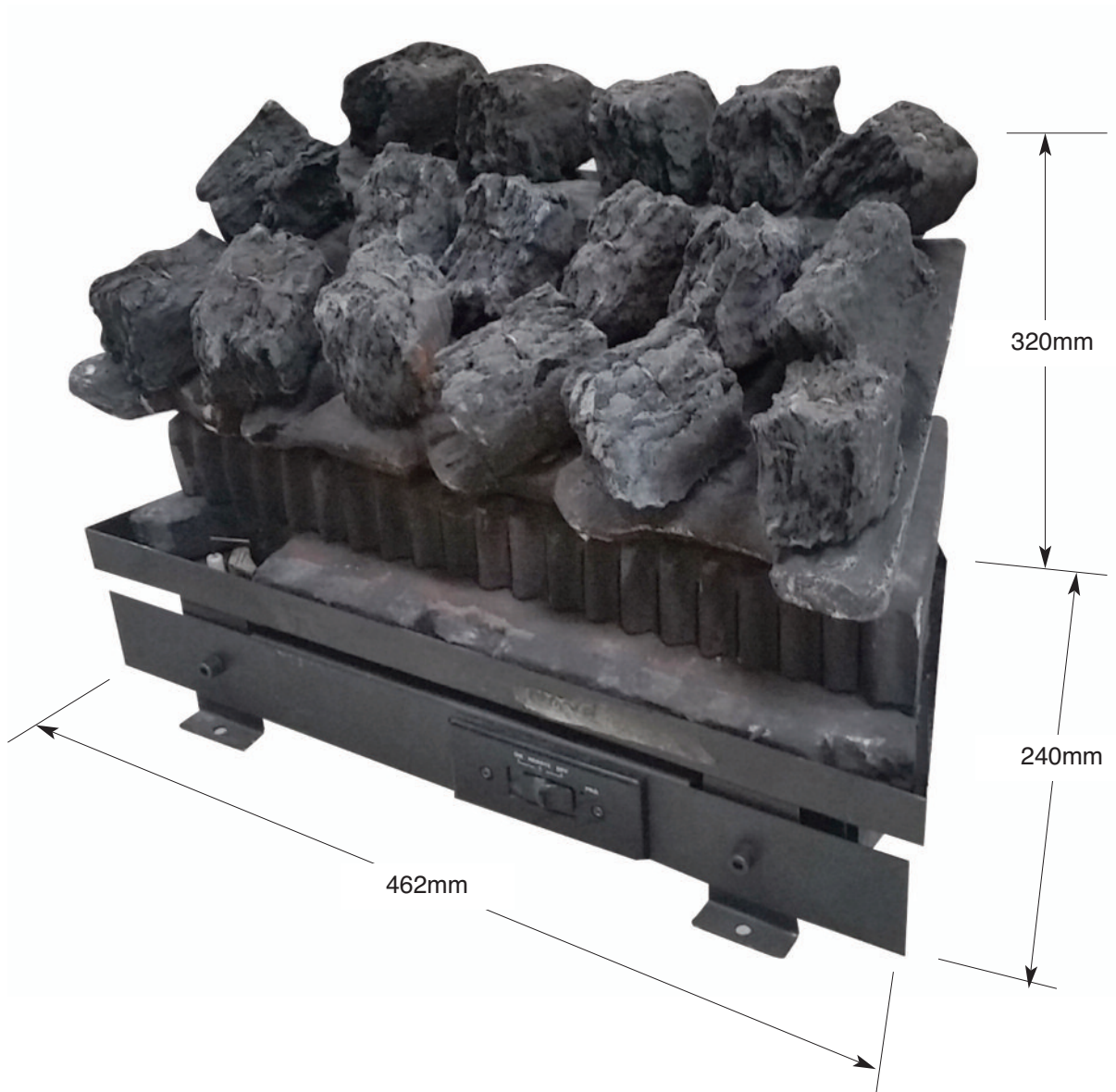
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**DATA PLATE** (Affixed to the base of the unit for reference to gas pressure & consumption)

AF18 OF Manual valve (Eurosit 630)

| Gas         | Injector Size (mm)                    | TPP                     | N.G.C. (Mj/Hr) |
|-------------|---------------------------------------|-------------------------|----------------|
| Natural Gas | 1 x injector multiport 7 ports x 1.25 | 0.5kPa high/0.35kpa Low | 35 high        |

**DIMENSIONS**



# INSTALLATION INSTRUCTIONS

## **IMPORTANT**

This product is fitted with an **OXYGEN DEPLETION SYSTEM** which is an **INTEGRAL PART OF THE PILOT**. You must maintain the correct pressure for the oxygen depletion system to operate correctly

When checking gas pressure at the appliance **ALL OTHER GAS APPLIANCES IN PREMISES MUST BE OPERATING AT THE SAME TIME**.

Failure to have correct pressure may result in unit cutting out intermittently.

## **TYPE OF INSTALLATIONS**

**TYPE 1.** The appliance must be installed in a fire resistant fireplace with approved draft.

**TYPE 2.** Installed in conjunction with a prefabricated firebox into an existing fireplace using the firebox flue system to remove waste products.

## **LOCATION REQUIREMENTS FOR TYPE 1 INSTALLATIONS**

1. The fireplace must be built in accordance with the building regulations for masonry chimneys.
2. The fireplace must be sufficiently deep enough to fully accommodate either the Gas Log/Coal Set or a firebox fitted with a Gas Log/Coal Set in order that no fumes can escape into the room. **DO NOT** ignore the depth of the lintel over the fireplace opening.
3. It is imperative that the chimney or flue operates correctly and also does not subject the living area to spillage of combusted products. The flue or chimney should be tested and proven to have an adequate updraught sufficient to remove all waste products of combustion. (Refer to Commissioning Procedure).
4. Chimney dampers, baffles or restrictive plates must be removed or permanently fixed open.
5. Permanent ventilation of the room where the fire is to be situated is essential while fire is in operation. The room must have a minimum cross sectional area of 40,000sq mm of effective ventilation.
6. Packaging and transit protection must be removed from the appliance prior to installation. This includes pallet, plastic wrap, temporary labels and foam protection.

**THIS APPLIANCE REQUIRES FRESH AIR TO OPERATE SAFELY. THE ROOM WHERE THIS APPLIANCE IS INSTALLED MUST HAVE PERMANENT VENTILATION FROM OUTDOORS, IN ACCORDANCE WITH THE VENTILATION REQUIREMENTS OF AS/NZS 5601**

## USER INSTRUCTIONS

- **ALWAYS USE A FIREGUARD WHEN OPERATING THE FIRE IN THE PRESENCE OF CHILDREN OR THE INFIRM**
- **ENSURE THAT CURTAINS CANNOT BLOW ACROSS THE FIRE OPENING ENSURE THAT THE CHIMNEY OR FLUE IS NOT BLOCKED**
- **WASH HANDS AFTER HANDLING COALS AND ENSURE CHILDREN DO NOT HANDLE THEM AS THE COLOURING MAY CONTAIN TOXIC DYES**

### **GAS FITTING REGULATIONS**

The installation of gas appliances is covered by gas fitting regulations in most States which specify that any gas appliance shall only be installed by authorised personnel. Installation by an unauthorised person is an offence under these regulations and could lead to cutting off of gas supply and prosecution.

### **LIGHTING**

**Please read carefully before attempting to light your fire for the first time.**

Your fire is fitted with a safety gas tap, Piezo igniter, pilot, flame failure and oxygen depletion device. To turn the fire on, ensure that the gas supply is on, turn the gas knob to (\*), depress the gas knob and while still depressing the knob, push the Piezo igniter button until the pilot is alight. Keep the gas knob depressed for 20 seconds after the pilot has lit. (The first time that the unit is used it may take longer for the pilot to light as you will have to wait for gas to fill the line). Release the gas knob and check that the pilot stays alight. If it does not, repeat the above procedure. If the pilot does not stay alight contact the supplier. Once the pilot is alight you may turn the gas control knob to the high setting (7) . The fire will ignite from the pilot. If required you may now turn the gas control knob back to the pilot setting (\*). The fire will extinguish leaving only the pilot on. Take care not to turn the pilot off as well. A slight resistance is felt before the fully off position. If the pilot is turned off do not try to light it for about a minute as a safety interlock times until unit has cooled down.

It is advisable that if the fire is to be left for extended periods, the gas control knob should be turned back to the off setting. To relight, follow the procedure from the beginning.

PLEASE NOTE: do not operate your fire at the maximum setting for more than a few minutes in the first eight hours following installation. This will avoid thermal shock to the coals and burner surface. The new coals may give off a burnt odour during this period. Any minor surface cracking of the burner or the coals is normal and is not a cause for concern. If you think that the burner may have been damaged by misuse or accident at any time, please call your supplier/installer for service. Before removal of any part of the fire, ensure that the fire is cold.

### **SERVICE**

The appliance should require little maintenance. Periodically check that the chimney is drawing properly and that no debris has fallen into the appliance. If the flames are very small or the pilot not functioning, it may be due to dirt in the lines, but this must be serviced by an authorised gas fitter.

**THIS APPLIANCE REQUIRES FRESH AIR TO OPERATE SAFELY. THE ROOM WHERE THIS APPLIANCE IS INSTALLED MUST HAVE PERMANENT VENTILATION FROM OUTDOORS. THIS VENTILATION MUST NOT BE MODIFIED.**

# INSTALLATION INSTRUCTIONS

## Location

Installation must meet Australian gas codes AS/NZS 5601.

INSTALLATION CLEARANCES (where FFB is used)– Clearances from combustible materials

|              |      |
|--------------|------|
| Floor        | 0mm  |
| Sides        | 80mm |
| Top / gather | 50mm |
| Flue outer   | 25mm |
| Back         | 25mm |

## PRELIMINARY

- This appliance must be installed by an Authorised person.
- This appliance must be installed in accordance with the Gas Installation Code AS5601 Clauses 5.12.13.2 to 5.12.13.5.
- Installation must be in accordance with municipal Building codes, any other relevant statutory regulations as well as these instructions
- The Wonderfire Gas Fire is only to be used with Natural Gas.
- It is recommended that a secondary guard complying with AS 2286 be installed.
- Ensure that loose fabrics such as curtains and furniture cannot touch the appliance. It is recommended that a fire guard be used with the appliance.
- The guard is fitted to this appliance to reduce the risk of fire or injury from burns and no part of it should be permanently removed. For protection of young children or the infirm, a secondary guard is required.
- The overall dimensions of the fire is 465mm wide (front), 325mm wide (rear) x 240mm Deep x 320mm high. (See below for minimum fire place dimensions).
- The appliance may be installed in an existing open fireplace (as a Type 1 appliance), in an existing fireplace with the Wonderfire FFB fan assisted convector box (as a Type 1 appliance) or in a purpose built enclosure with the Wonderfire FFB fan assisted convector (zero clearance) box (as Type 2 appliance).
- If fitting the Wonderfire with the FFB firebox, please also refer to the Instructions for the “Wonderfire FFB”
- There must be a minimum of 50mm gap between the gather and any combustible materials if FFB firebox is used.
- Packaging and transit protection must be removed from the appliance prior to installation. This includes pallet, plastic wrap, temporary labels and foam protection

**THIS APPLIANCE REQUIRES FRESH AIR TO OPERATE SAFELY. THE ROOM WHERE THIS APPLIANCE IS INSTALLED MUST HAVE PERMANENT VENTILATION FROM OUTDOORS, IN ACCORDANCE WITH THE VENTILATION REQUIREMENTS OF AS/NZS 5601**

## **INSTALLATION INSTRUCTIONS** (continued)

### **FITTING TO AN EXISTING OPEN FIREPLACE**

If installing the Wonderfire Manual Valve (WMC) burner into an existing fireplace (without other options such as the Fan-Forced Convector Box), this is classed as a Type 1 appliance.

If the WMC burner is fitted into a Fan-Forced Convector Box (FFB), please refer to the Installation and Operating Manual for the FFB as there are additional installation requirements.

The fireplace enclosure must be fire resistive and must have a proved draught/working chimney.

The chimney must be swept and inspected to see if it is in sound condition.

The chimney must be a minimum area of 22,000mm<sup>2</sup> (i.e. a minimum of 150x150mm if square or 150mm diameter if round), and must extend to a height of at least 2.4m.

The flue or chimney of an open gas fire must be kept clear at all times. Devices which close or temporarily close the flue or chimney are not permitted. (e.g. a damper must be removed or securely disabled in the fully open position.)

If these conditions are met the chimney should usually provide satisfactory draw. In any event, the chimney and final installation must be tested for spillage into the room. This can be done by lighting a paper fire in the fireplace (before the appliance is installed) and holding a smoking twist of paper or a smoking match by the front of the fireplace. Air conditioning vents near the fireplace may also cause spillage.

The fireplace must be at least 470mm wide (front), 325mm wide (rear) x 240mm Deep x 400mm high to suit the WMC burner.

The room must have total fixed ventilation equal to the chimney / flue area.

## INSTALLATION INSTRUCTIONS (continued)

### Fitting the unit

- The unit should be fixed to the base of the fireplace with a screw to each front corner of the burner.

### Gas

- Gas connection is to a ½” compression fitting connected to the RHS of the valve. It is located 100mm from front, 45mm up from floor and 170mm in from front RH corner of the appliance
- Thoroughly blow out the supply pipe to clear any dust and debris.
- Ensure all connections are gas tight.
- Note: Do not bring the gas supply down the active chimney.

### Coals

The WONDERFIRE has ceramic coals and a burner designed to appear like a coal fire.

- The unit is supplied with the ceramics assembled ready for operation.
- When the unit is unpacked check that no damage has occurred in transport.
- Carefully place the ceramic coal assembly on top of the burner making sure that it sits in place correctly.
- No other coals should be added as this will adversely affect the performance of the fire.
- Wash hands after handling the ceramic base or coal assembly.

### Commissioning

- Once the fire is fitted and connected to the gas, test the unit's operation.
- After 10 minutes operation from cold, test for fireplace spillage, i.e. all products of combustion are entering the flue, by traversing the perimeter of the opening or canopy, using a smoke generator (E.g. a smoking twist of paper or smoke match).

## SERVICING DETAILS

- The following notes are to assist a serviceman in the event of a malfunction.
- Servicing must only be carried out by authorised personnel.
- Spare parts and advice are available from Glen Dimplex on 1300 554 155.
- See also the Fault Finding chart.

### To Check Burner Pressure

- Gas consumption is 35 MJ/hr - Natural Gas ONLY.
- Appliance Test point pressures: High: Natural Gas 0.50 kPa
- The burner pressure test point is on the valve to the left. The rear test point is the supply or inlet pressure and the front point is the appliance test point.
- Remove test point plug and connect manometer. Switch the gas and appliance on. Take pressure reading once the unit is running and it should be within tolerance. Turn the unit and gas off, disconnect the manometer and replace the test point plug.
- The pilot runs off the inlet pressure and needs a minimum of 1.135 Kpa to stay alight.

### To Make Pressure Adjustments

- The regulator adjusts the burner pressure. The adjusting screw is on the right hand side of the valve under the plastic front cover.

### GAS CONTROL

- The SIT gas control and valve is situated under the burner tray. To access; remove the coals and disconnect the gas supply. Remove the burner and place upside down on a flat surface covered with old newspaper.

### BURNER

- To access the burner remove the coals. The burner is glued in to the burner tray. Examine it for any damage and check the venturi at the rear for lint and dust. Carefully clean as required.
- Ensure that the main injector is located centrally with respect to the venturi.
- Minor cracking of the ceramics is normal and will not affect the operation of the appliance.

### FAN (if the appliance is fitted in a FFB convector box)

- To remove the fan, ensure that the fan has been unplugged from the power supply, unscrew the 4 screws holding the fan to the front of the fire box. Carefully lift the fan assembly forward.
- The fan's wiring diagram is located next to the terminal block. The fuse is a 1 amp fuse.

## WARNING

Improper use of this gas fire could be hazardous to health. This fire is to be used either in a WONDERFIRE FFB convector box properly installed and flued in accordance with its instructions, or a non-combustible fireplace with the chimney or flue free of any obstruction or damper.

The fireplace, hearth, chimney, flue, canopy or any other part associated with the fireplace must conform with the relevant building regulations for domestic type solid fuel burning appliances.

**We strongly recommend the use of an approved fireguard whenever young children or the infirm are in the presence of a working fire.**

## FAULT FINDING CHART

| <b>Fault</b>                                 | <b>Possible Cause</b>   | <b>Corrective Action</b>   |
|--|---|--|
| <b>Igniter Sparks but no Ignition</b>        | No Gas  | Check supply<br>Purge lines  |
| <b>Gas Ignites but goes out</b>              | Thermocouple cable loose<br>Thermocouple Faulty<br>Oxypilot Air inlet blocked<br>Gas pressure too low | Tighten at rear of valve<br>Replace Oxypilot<br>Blow/clean out<br>Pilot runs off mains pressure which must be at least 1.135 Kpa |
| <b>Gas will not ignite After turning off</b> | Time safety lock in operation   | Wait over a minute and retry   |
| <b>Flame Abnormality</b>                     | Incorrect Pressure<br>Dirt in jets or burner  | Check and reset pressures<br>Clean Jet and Burner  |
| <b>Low Flame</b>                             | Incorrect Pressure  | Check and reset pressures  |



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