

GD7

Installation Guide Operating Instructions Warranty

GD7 Installation Guide, Operating Instructions & Warranty

IMPORTANT!

Version: July 2019

This gas appliance must be installed to **AS/NZS 5601.1:2013** by a qualified person and in accordance with these instructions. Failure to install the appliance correctly will void your warranty and may cause a fire. This appliance should not be modified under any circumstances.

Under no circumstances should any combustibles such as paper, wood or coal be used in this appliance.

It is recommended that you have this appliance serviced annually by a qualified technician.

Warranty repairs must be carried out by a 'The Fire Dept.' authorised technician.

This appliance must ALWAYS terminate/flue outdoors.

Young children, elderly or infirm should be supervised to ensure that they are careful with the appliance.

Clothing and other flammable materials should never be placed near the appliance.

Please note that parts (near the flame) of this appliance, particularly the steel surrounding, all panels to the face or around the front, become extremely hot during operation and can result in serious injury and burns if touched. It is therefore recommended that a fireguard complying with BS 8423:2002 is used in the presence of young children, the elderly or infirm.

During the installation of this appliance, it may be necessary to manually handle heavy components (greater than 25kg). It is the installer's responsibility to ensure appropriate manual-handling techniques are employed.

NOTE: This GD7 appliance is fitted with an Oxyprotector (Oxygen depletion) pilot. Under NO circumstances should this pilot be replaced or removed.

The GD7 installation process consists of 8 steps

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Information in this installation guide may be subject to change without notice. Please ensure that you have the current version before beginning installation.

If you have any queries, please contact 'The Fire Dept.' on 0800 888 550

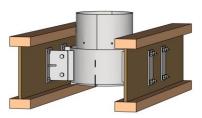


Step 1: Unpack and ensure all components are correct and undamaged

- Appliance
- Appliance flue
- · Top fixing bracket
- · Box of firebed mediums
- Flue kit

Step 2: Install top fixing bracket

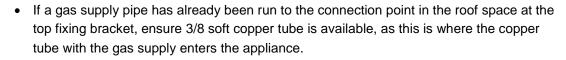
 Bolt the top fixing bracket into position, ensure it is capable of supporting a 350kg load. Please refer to the appropriate appliance specifications for all correct clearance requirements.



Gas and power supple holes to back

Step 3: Attach appliance flue to top fixing bracket

Before installation, confirm all minimum clearances from the outside surfaces of the
appliance flue to the surrounding enclosure are no closer than 25mm from
combustible materials and 5mm from non-combustible materials and the appliance flue is
set-up at the correct height and facing the correct direction. Please refer to the appropriate
appliance specifications for all correct clearance requirements.



- If an electrical supply cable has already been run to the connection point in the roof space at the top fixing bracket (must be a minimum of 1.0mm 4 core cable), ensure that the cable reaches the centre of the fixing bracket, as this is where it will enter the appliance.
- Ensure the appliance is level and adjust to suit where necessary.
- Fit the appliance flue into the top fixing bracket and bolt it into the correct position with 6 x 8mm bolts. Please refer to the appropriate appliance specifications for all correct clearance requirements.

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Remove the burner tray from the appliance by following the 'Burner Tray Removal Process' in this guide.

Flat panel to back of appliance



Burner Tray Removal Process

	Cover and end cap removal	
GD7 Burner end caps This model has two end cap covers, one at each side of the burner.	Remove the stainless steel burner end caps (3 x screws on each cap) at either end of the burner tray. Pilot burner end Non pilot burner end	

	LPG	Natural Gas
Input 25-35 MJ/h Two gas injectors one at the right and one at left hand sides of the burner tray.	 Remove the burner tray by carefully pushing it away from the pilot and lift the pilot end of the burner tray, lift the burner tray up and away from the pilot in one movement. Ensure that the gas injector at the left hand side is not damaged as the burner tray is lifted out. Stand the burner tray on its end and lean against a stable surface. 	On the pilot side gas injector, loosen and spin back the 12mm brass nut away from the burner tray. Pilot side Gas Injector On the non-pilot side injector, loosen both the 12mm brass nuts all the way to the end of the injector. The injector will need to be pushed away from the burner tray.
		Non-pilot side gas Injector Remove the burner tray by carefully pushing it away from the pilot and lift the pilot end of the burner tray, lift the
		burner tray up and away from the pilot in one movement. • Stand the burner tray on its end and lean against a stable surface.



Burner Tray Installation Process

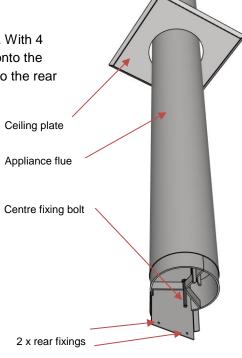
	LPG	Natural Gas
Input 25-35 MJ/h Two gas injectors one at the right and one at left hand sides of the burner tray.	 Install the burner tray by carefully lowering the end opposite from the pilot meanwhile holding up the pilot end, lower the burner tray down and move towards the pilot in one movement. Ensure the burner tray is located correctly into the burner bracket and the jets are aiming into the burner tube inlet holes. 	 Install the burner tray by carefully lowering the end opposite from the pilot meanwhile holding up the pilot end, lower the burner tray down and move towards the pilot in one movement. Ensure the burner tray is located correctly into the burner bracket and the jets are aiming into the burner tube inlet holes.
		 On the non-pilot side injector, gently tighten both the 12mm brass nuts. The injector will pull towards the burner tray. On both the non-pilot and pilot side gas injectors, gently tighten (do not over tighten) the 12mm brass nuts closest to the burner tray.
		Pilot side Gas Injector Non-pilot side Gas Injector

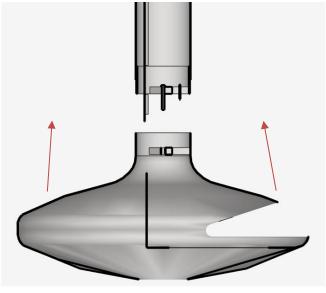
	Cover and end cap installation	
Oxygen Depletion Pilot	Under NO circumstances should the pilot be replaced or removed,	
		Oxygen depletion pilot
Burner end caps This model has two end cap covers, One at each side of the burner.	Replace the stainless steel burner end caps (3 x screws on each cap) at either end of the burner.	
	Pilot burner end	Non pilot burner end



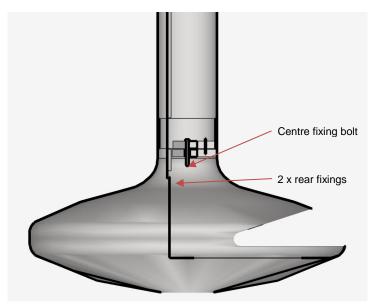
 Fix the appliance up onto the appliance flue and ensure that it complies with the minimum clearances required (100mm for combustibles). Fit the ceiling plate over the appliance flue and fix to the ceiling (4 x screws).

The appliance flue has a single center bolt and 2 x 5mm rear fixings. With 4 people lift the appliance into position - fit and tighten the centre nut onto the centre bolt. Once the centre nut is tight fit the 2 x 5mm cap screw into the rear panel.







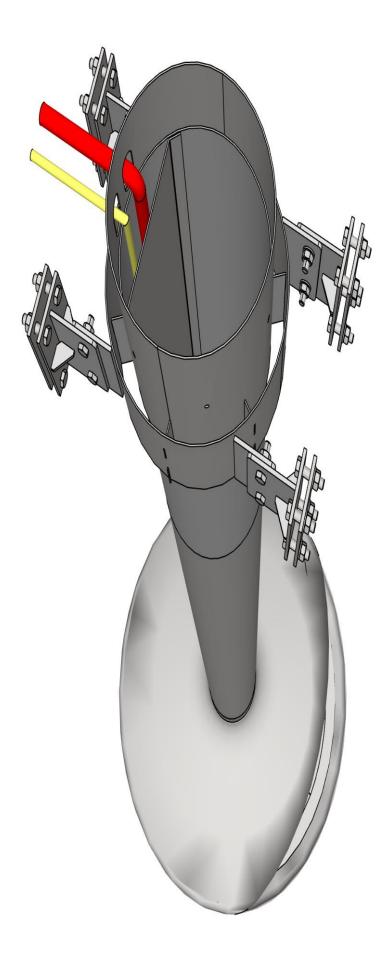


Fix appliance into position

Important Safety Note: It may be necessary to manually handle heavy components (greater than 25kg). It is the installer's responsibility to ensure appropriate manual-handling techniques are employed.



- Carefully run the gas and power (copper pipe and high temp 4-core cable supplied with the appliance) supply down the back of the appliance flue to the base of the appliance under the burner.
- The high temp electrical supply cable must run to the cavity under the burner (must be a minimum of 1.0mm 4-core cable), ensure that the cable reaches the centre of the cavity, as this is where it will enter the burner.
- The gas supply pipe must be run to the cavity under the burner, ensure 3/8 soft copper tube is available, as this is where the copper tube with the gas supply enters the burner.
- Replace the burner tray by following the 'Burner Tray Installation Process' in this guide.

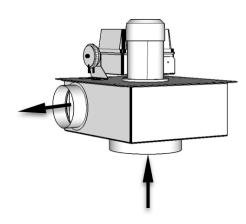




Step 4: Install flue and connect to appliance flue

- Flue installation must meet the requirements of AS/NZS 5601.1:2013 and comply with all local council requirements and be installed and certified by a suitably qualified person.
- Refer to appropriate 'The Fire Dept' product specifications for specific minimum requirements. Only follow
 the 'Wall cowl assembly details' (below) if the flue is to be terminated through a wall.
- A 25mm clearance from combustible materials, 75mm clearance from wiring and plastic pipes and a
 minimum of 5mm from non-combustible materials is required when installing a flue system for any appliance
 supplied by 'The Fire Dept.'.
- The flue installation requires a restriction free cavity from the top of the appliance flue (top fixing bracket) to the outside atmosphere.
- Air flow must be unobstructed from the appliance flue/fixing bracket to the outer casing allowing air to circulate from the fixing bracket to the atmosphere.

In-Line Fan assembly details



Step 1: Connect the flue and outer casing to the appliance

- 1. Make sure the In-line fan has adequate access for future maintenance.
- 2. Run the flue from the appliance to the location of the In-line fan.
- 3. Run the outer casing from the appliance to finish 50mm shorter than the flue.

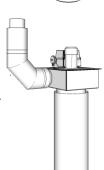
Step 2: Connect the in-line fan to the flue and outer casing

- 1. Fit the casing slip over the outer casing.
- 2. Fit the flue over the inlet spigot to the In-line fan.
- 3. Fix the flue to the inlet spigot at the in-line fan.

Step 3 Complete the flue installation

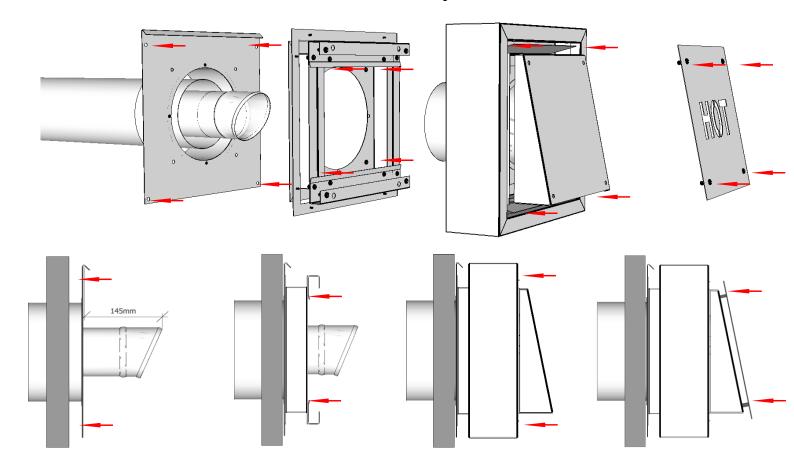
- 1. Finish the casing with a 50mm gap to the in-line fan.
- 2. Complete the flue installation. Refer to appropriate product specification for fixing details and specific minimum requirements.







Wall cowl assembly details



Step 1: Fix back panel to wall

- Back panel must be flashed in accordance with NZBC.
- Outer flue casing to finish flush 2. with front of back panel.
- 3. Flue to finish 145mm out from back panel.

Step 2: Fix cowl support to back panel

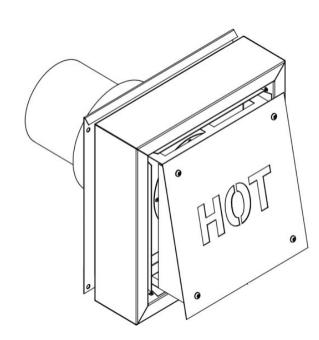
- Cowl support is fixed to back panel with 4 x 5mm cap screws
- Seal between cowl support. and back panel with heat proof sealer.

Step 3: Fix cowl to cowl support

- 1. Cowl is fixed to back panel with 4 x 5mm cap screws
- The outer casing spigot (attached to the cowl) will slide into the outer flue casing.

Step 4: Fix HOT panel to the cowl

 Hot panel is fixed to back panel with 4 x 5mm cap screws.





Step 5: Connect and test electrical supply

- All electrical connections must meet the requirements of AS/NZS 3000 standards and be installed and certified by a suitably qualified person.
- In order to access the electricals, it is necessary to first remove the burner tray.
- Remove the burner tray by following the 'Burner Tray Removal Process' in this guide.
- With the burner tray removed the electrical connections between the appliance and the switch can be seen, use the high temp 4 core (minimum 1mm) cable.
- Following these connection details, using the 4-core cable that has been run at site, connect the switch to the appliance.
- IMPORTANT: Before testing, ensure the gas valve is turned off.



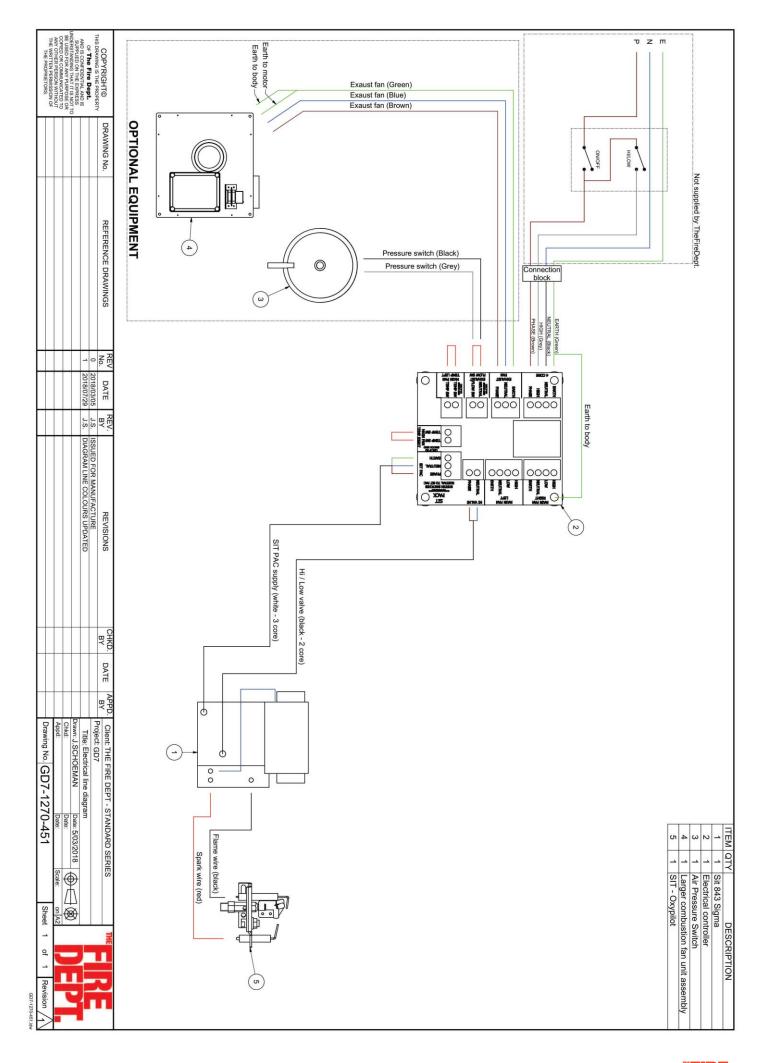


- Test electrical functions by switching the bottom High/Low switch to LOW, then switch the appliance ON using the top On/Off switch.
- After approximately five seconds, the pilot will spark. Because the gas supply is turned off, the pilot will spark for approximately five seconds then automatically switch off.

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- NOTE: GD7 models have both LOW and HIGH settings.
- Switch to HIGH setting. Ensure that a red light appears on the electrical connections block.
- Switch the appliance off. Electrical testing is complete.
- Replace the burner tray by following the 'Burner Tray Installation Process' in this guide.





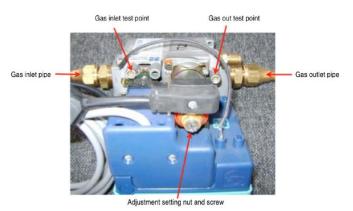


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Step 6: Connect gas supply and commission

- Gas installation, connection and commissioning must meet the requirements of AS/NZS 5601.1:2013 and be installed and certified by a suitably qualified person.
- In order to access the gas supply and testing area, it is necessary to first remove the burner tray.
- Remove the burner tray by following the Burner tray removal process' in this guide.
- Connect 3/8 soft copper pipe to main valve.
- · Leak test all joints.
- · Switch the appliance on.
- Test/adjust high first and then the low pressures against rating plate specifications.





- In the unlikely event that the rating plate is not attached, **Do Not** commission the appliance and contact 'The Fire Dept.' immediately.
- · Switch the appliance off.
- Replace the burner tray by following the 'Burner Tray Installation Process' in this guide.
- · Switch the appliance on.
- Note: due to lack of firebed, it may be necessary to manually light burners.



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- · Switch the appliance off.
- · Lay firebed in accordance with instructions in this guide.
- · Send gas certificate to the appropriate person.

FIRE DEPT.

Step 7: Lay the firebed

- The GD7 has three firebed options: River Rocks, Beach Driftwood & Forest Logs.
- Particular care should be taken when placing the chosen firebed mediums into the burner tray. Failure to place the medium correctly may result in the appliance performing inefficiently.
- Open the firebed cardboard box and identify firebox mediums.

River Rocks option has two firebed mediums:

Vermiculite - 1 bag

White rocks - large and small



Beach Driftwood option has three firebed mediums:

Vermiculite - 1 bag

White rocks - large and small

Driftwood - large and small



Forest Logs option has three firebed mediums:

Vermiculite – 1 bag

White rocks - large and small

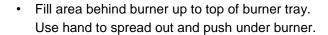
Logs - large and small





How to lay Vermiculite

- Beginning in the middle back of the burner tray, carefully empty the bags of vermiculite.
- Ensure not to spill any vermiculite in cavities in front of and behind burner tray.
- Do not pour vermiculite directly into burner slots.





 Fill up area in front of burner and gently pat down vermiculite to ensure it is spread evenly throughout the burner tray.



 Using a small Allen key (or similar), remove any vermiculite that may have fallen into burner slots.



· Vermaculite layer complete.



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How to lay River Rocks Firebed

Lay large rocks first, in these positions.



· Lay small rocks next, in these positions.



• Switch the appliance on at 'HIGH' setting to check how flame looks. The flame will take 10-20 seconds to light fully.



- IMPORTANT: the flame effect should look natural and non-uniform, running the entire length of the burner.
- · Common flame effect issues are:
 - o Flame touching edge of burner tray.
 - o Missing flames along length of burner.
- Both these issues can be resolved by switching the appliance off and slightly repositioning rocks and logs at the problem areas.
- · Repeat this switching on/off and repositioning until a natural and non-uniform flame effect is achieved.
- Once a natural and non-uniform flame effect is achieved, switch the appliance to 'LOW' setting and ensure the flame effect, although smaller, still looks good.

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· Switch the appliance off.



How to lay Beach Driftwood Firebed

Lay logs and large rocks first, in these positions.



· Lay rocks next, in these positions.



 Switch the appliance on at 'HIGH' setting to check how flame looks. The flame will take 10-20 seconds to light fully.



- IMPORTANT: the flame effect should look natural and non-uniform, running the entire length of the burner.
- · Common flame effect issues are:
 - o Flame touching edge of burner tray.
 - o Missing flames along length of burner.
- Both these issues can be resolved by switching the appliance off and slightly repositioning rocks and logs at the problem areas.
- Repeat this switching on/off and repositioning until a natural and non-uniform flame effect is achieved.
- Once a natural and non-uniform flame effect is achieved, switch the appliance to 'LOW' setting and ensure the flame effect, although smaller, still looks good.

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Switch the appliance off.



How to lay Forest Logs Firebed

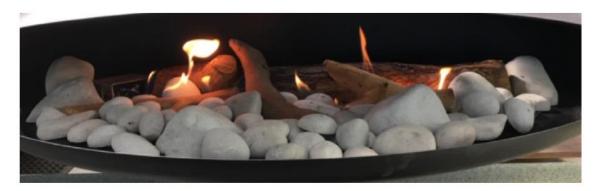
Lay logs and large rocks first, in these positions.



Lay rocks next, in these positions.



• Switch the appliance on at 'HIGH' setting to check how flame looks. The flame will take 10-20 seconds to light fully.



- IMPORTANT: the flame effect should look natural and non-uniform, running the entire length of the burner.
- · Common flame effect issues are:
 - o Flame touching edge of burner tray.
 - o Missing flames along length of burner.
- Both these issues can be resolved by switching the appliance off and slightly repositioning rocks and logs at the problem areas.
- Repeat this switching on/off and repositioning until a natural and non-uniform flame effect is achieved.
- Once a natural and non-uniform flame effect is achieved, switch the appliance to 'LOW' setting and ensure
 the flame effect, although smaller, still looks good.

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Switch the appliance off.



Step 8: Show owner how to operate appliance

- Following the GD7 Operating Instructions on the next page, show the owner how to switch the appliance on and off, and how to switch between high and low settings.
- If the owner is not available, leave this manual by the appliance.

NOTES:



GD7 OPERATING INSTRUCTIONS

The GD7 appliance has been designed to be simple to use. It is controlled by a wall switch, which must be installed by a qualified electrician.

To start appliance:

- Press the on/off switch to the ON position.
- Press the high/low switch to the HIGH position.
- The electronic solenoid pack will start to click.
- Gas will then be released and ignited at the pilot valve.
- The safety sensor will allow the main burner pipe to ignite and flames will appear. The whole process will take between 10-20 seconds.
- Once the flame appears, it can be turned down to the low setting by pressing the high/low switch to LOW.

To shut down appliance:

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- Press the on/off switch to the OFF position.
- The gas will automatically be shut off to the pilot and the burner. The flame will then extinguish.

TROUBLESHOOTING

Problem	Probable Cause	Action
Appliance shuts down after continuous running.	Low oxygen supply to the appliance	Do not attempt to restart the fire Open all doors and windows. Call gas-fitter
Appliance doesn't start	 No gas supply No power supply Low or poor pilot flame Signal from flame rectifier interrupted Signal to sparker electrode interrupted Incorrect sparker electrode gap 	 Check gas supply Check power supply Check flame size and pressure Check flame rectifier and wire to sit pack Check sparker gap and wire to sit pack Check sparker electrode gap is 3mm
Appliance shuts down	Low gas supply Low or poor pilot flame Signal to flame rectifier interrupted	Check gas supply Check flame size and pilot flame pressure Check flame rectifier and wire to sit pack
Flame in not running the full length of the burner	The firebed is not aligned to the burner	Re-lay the firebed to the specific model specifications detailed earlier in this guide
Flame is yellow and sooty	Primary aeration ports have a blockage (LPG models only) The firebed is not aligned to the burner	Check primary aeration ports for blockage and clear if required (LPG models only) Re-lay the firebed to the specific model specifications detailed earlier in this guide
No flame at the pilot	Primary aeration ports have a blockage	Check primary aeration ports for blockage and clear if required
(For models with an in-line flue fan) If the in-line fan is running and the appliance doesn't start or shuts down	Low air flow supply from the appliance	See 'Appliance doesn't start' above See 'Appliance shuts down' above Call gas-fitter

FIRE DEPT.

PRODUCT WARRANTY

IMPORTANT: Evidence of original purchase is required for warranty service.

WARRANTOR: 'The Fire Dept.' (Landscape Elements Ltd)

85 Newton Road Mount Maunganui

PO Box 10275, Bayfair, Mount Maunganui

ELEMENT OF WARRANTY

'The Fire Dept.' warrants to the original retail owner for the duration of this warranty, it's fireboxes, gas burner tray, lighters, (herein after referred to as the Product) to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WARRANTY

This warranty will be deemed invalid if the Product is;

- (A) Installed by someone other than an authorised Fire Dept agent.
- (B) Not operated appropriately or "over-fired" in a manner resulting in the firebox operating excessively hot.
- (C) Not serviced and maintained by a certified gas fitter every 12 months.
- (D) Damaged by accident, neglect or misuse.
- (E) Repaired by someone other than an authorised Fire Dept repair agent for a defect or malfunction covered by this warranty.
- (F) Modified, altered or used as part of any conversion kits, subassemblies, or any configurations not sold by 'The Fire Dept.'.
- (G) The product contains fire bricks and has not been subjected to the recommended first start-up and run-in procedure.
- (H) Used in conjunction with any equipment or parts or as part of a system not manufactured or supplied by 'The Fire Dept.'.
- (I) External powder-coating within 200m of the high tide mark and not lightly washed with warm soapy water every three months.

Indoor appliances (Gas & Wood)

'The Fire Dept.'. warrants the mild steel firebox, galvanised steel outer skin and RHS Duragal steel support frame against defective materials and workmanship which would render it unfit for normal domestic use, from the date of purchase by the original consumer, for a period of 5 (five) years. Beyond normal heat-induced staining, tarnishing and mild warping, if a firebox, outer skin or support frame defect occurs, contact 'The Fire Dept.' and the defect will be repaired or replaced at our discretion with all costs covered.

'The Fire Dept.' warrants the SIT Pack (Gas regulator and controller) against defective materials and workmanship which would render it unfit for normal domestic use, from the date of purchase by the original consumer, for a period of 2 (two) years.

Components including fire medium, fans, tiles, glass and glass trim are warranted for a period of 2 (two) years from the date of original purchase, against defective materials and workmanship.

Outdoor appliances (Gas & Wood)

'The Fire Dept.' warrants the Mild Steel firebox, galvanised steel outer skin and RHS Duragal Steel support frame against defective materials and workmanship which would render it unfit for normal domestic use, from the date of purchase by the original consumer, for a period of 2 (two) years. Beyond normal heat-induced staining, tarnishing and mild warping, if a firebox, outer skin or support frame defect occurs, contact 'The Fire Dept.' and the defect will be repaired or replaced at our discretion with all costs covered.

'The Fire Dept.' warrants the SIT Pack (Gas regulator and controller) against defective materials and workmanship which would render it unfit for normal domestic use, from the date of purchase by the original consumer, for a period of 2 (two) years.

Components including fire medium, fans, tiles, glass and glass trim are warranted for a period of 2 (two) years from the date of original purchase for domestic use, against defective materials and workmanship.

STATEMENT OF REMEDY

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In the event that the Product does not conform to this warranty at any time while this warranty is in effect, the Warrantor, at its discretion, will repair the defect or replace the part and return it to you without charge for parts or service. This warranty does not provide for reimbursement or payment of incidental or consequential damages.

This warranty does not in any way affect your rights under the Consumers Guarantee Act (New Zealand).

