

Rinnai

Patio Heater - Model No: PATPAL CUSTOMER OPERATING MANUAL



This appliance shall be installed in accordance with

- These Instructions
- AS5601 / AG601 - 'Gas Installations'
- Any other local relevant Statutory Regulations.
- Service must be performed by an authorised person.

Do not operate this appliance before reading this Customer Operating Manual.



- DO NOT** OPERATE IN AN ENCLOSED AREA.
DO NOT OPERATE IN AN UNVENTILATED AREA.
DO NOT OPERATE INDOORS.
DO NOT PLACE ARTICLES ON OR AGAINST THIS APPLIANCE.
DO NOT OPERATE THIS APPLIANCE BEFORE READING THE INSTRUCTION BOOKLET.
DO NOT STORE CHEMICALS OR FLAMMABLE MATERIALS, OR SPRAY AEROSOLS NEAR THIS APPLIANCE.
DO NOT OPERATE WITH PANELS, COVERS OR GUARDS REMOVED FROM THIS APPLIANCE.



WARNING

This heater is for **OUTDOOR USE ONLY**

Keep this heater at least 1000mm to the side of and 1000mm below combustible materials.

Turn gas off at cylinder valve after use.

Disconnect and remove cylinder before storing this heater indoors.

FOR YOUR SAFETY

IF YOU SMELL GAS:

1. Shut off gas to the appliance.
2. Extinguish any open flame.
3. If odour continues, immediately call your gas supplier or fire department.

STORAGE:

1. Do not store or use petrol or other flammable vapours and liquids in the vicinity of this or any other appliance.
2. A gas cylinder not connected for use must not be stored in the vicinity of this or any other appliance.



The Australian Gas Association
All Rinnai gas products are AGA certified.



Quality Endorsed Company

ISO 9001 Lic 4983
SAI Global

Head Office Certified

Distributed and serviced in Australia under a Quality System certified as complying with ISO 9001 by SAI Global

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Rinnai Australia Pty Ltd.*

*Rinnai Australia reserves the right to make modifications and change specifications
without notice.*

**Read and follow all instructions before attempting to operate your PatioPal.
These instructions should be retained by you for future reference.**



• Failure to comply with these instructions may result in fire or explosion which could cause property damage, serious bodily injury or death.

RINNAI GUARANTEE OF QUALITY

We understand your desire to protect an investment of this nature. As such this booklet has been designed to assist you in operating your new PatioPal, along with important safety information, helpful maintenance tips and trouble shooting. We thank you for choosing our product and trust that you enjoy years of outdoors entertainment.

WARRANTY

The benefits conferred by this warranty are in addition to all other rights and remedies in respect of the product which you have under the Trade Practices Act and similar State or Territory Laws. Given installation and operation is in accordance with this Customer Operating Manual, this appliance is warranted by Rinnai for the cost of labour and components in the event of defects arising from faulty materials and/or workmanship with the ensuring warranty conditions.

Rinnai warrants to the original consumer-purchaser that this product shall be free from defects in workmanship and materials under normal and reasonable use and correct assembly as follows:

- For a period of one (1) year from the date of purchase. Rinnai will, at its option, refinish or replace any part found to be defective during the warranty period. You will be required to return the part(s) claimed to be defective, for its inspection, freight or postage prepaid.

Rinnai may require reasonable proof of purchase and we suggest you keep your receipt. This warranty does not include the cost of any inconvenience or property damage due to failure of the product and does not cover damage due to misuse, abuse, accident, damage arising out of transportation of the product, or damage incurred through commercial use of this product. All implied warranties, including the implied warranties of merchantability and fitness for particular purpose, are limited in duration to the express warranty periods specified above for the parts described therein. Neither dealers nor the retail establishment selling this product has any authority to make any warranties or to promise remedies in addition to or inconsistent with those stated above. The company maximum liability, in any event, shall not exceed the purchase price of the product paid by the original consumer-purchaser.

For Warranty Claims, Service or Spare parts contact 1300 366 388.

Please note: General cleaning, maintenance and wear and tear are not necessarily covered by guarantee. Calls of this nature may be chargeable.

Your Rinnai PatioPal is Certified by the Australian Gas Association, the Approval Number and Serial Numbers are stamped on the data plate on this appliance.

Please keep these instructions in a safe place for future reference.

RECORD THE FOLLOWING INFORMATION FOR YOUR OWN RECORDS:

Your Retailer:

Name:

Address:

Telephone No:

Serial Number:

Model Number:

Date of Purchase:

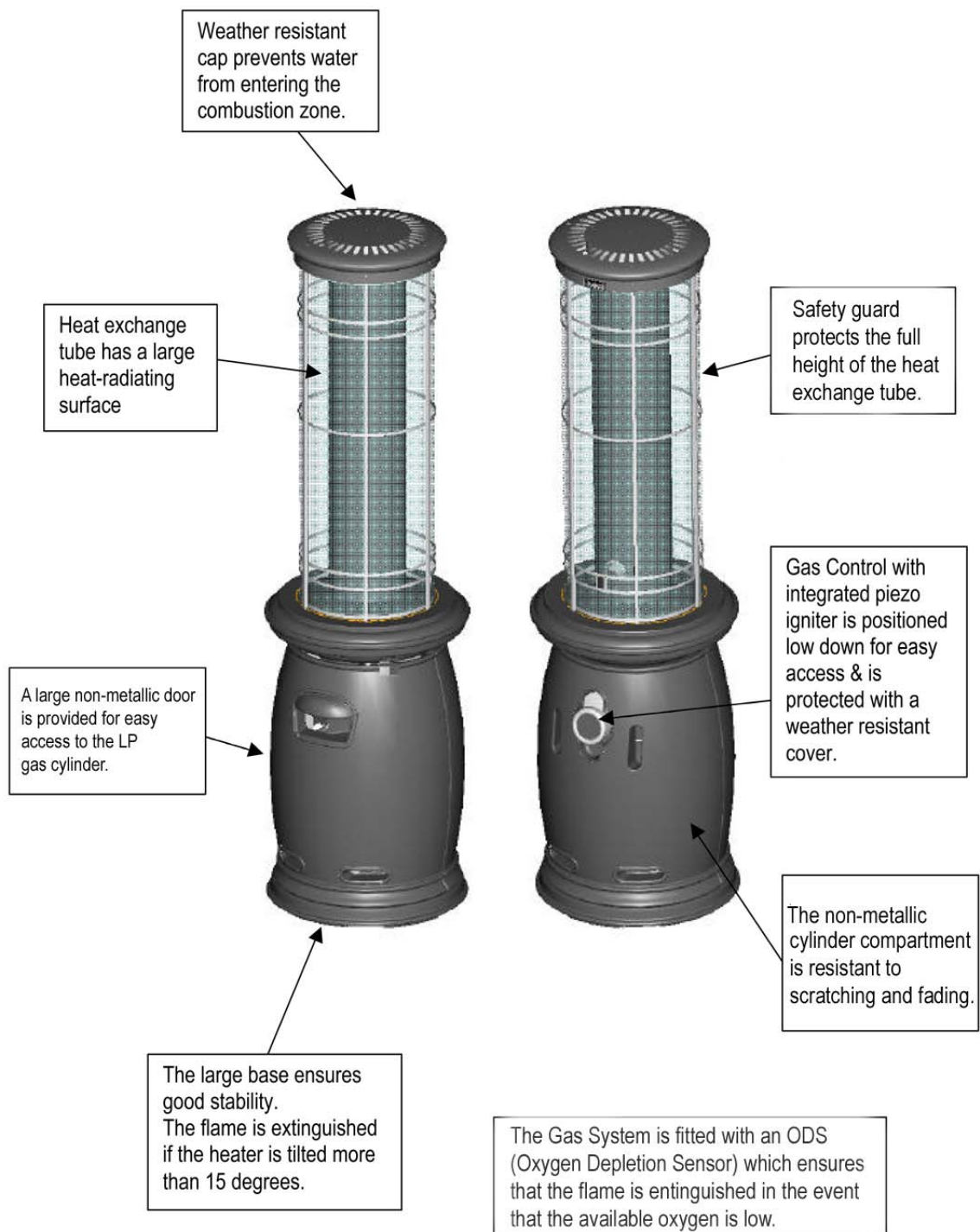
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Please remember to send in your Warranty Card

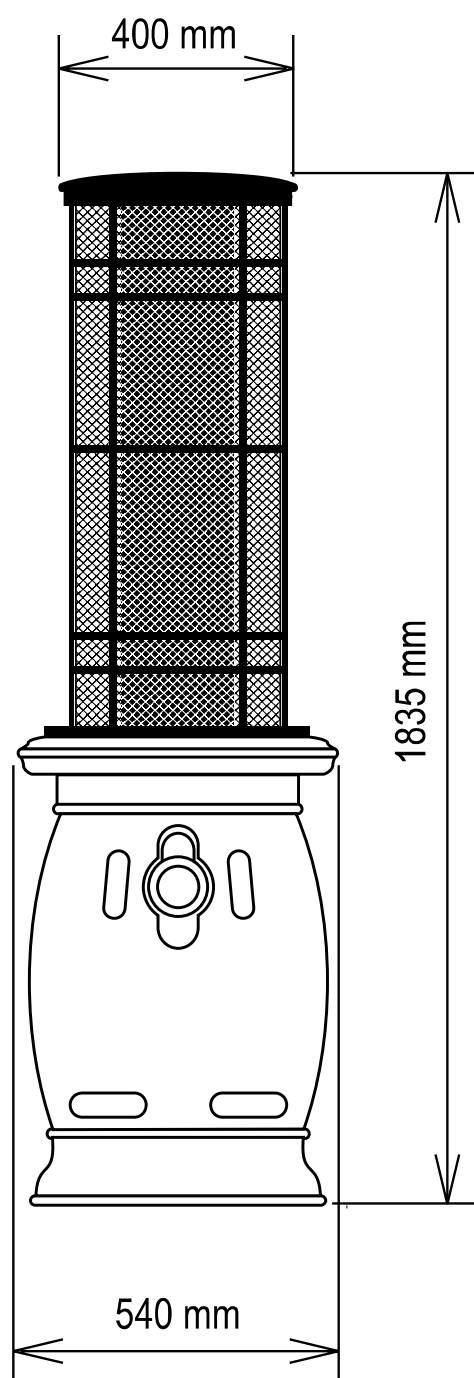
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PATIOPAL FEATURES



DIMENSIONAL DRAWING



IMPORTANT SAFETY INFORMATION

GAS LEAK SAFETY



If you smell gas but don't hear a loud 'hissing' noise there may be a minor gas leak.

- Shut the gas valve on the gas cylinder if possible.
- Extinguish any open flames.
- Perform the gas leak check procedure in Section 'Assembly and Operation Information' on page 13.



If you hear a loud 'hissing' noise in the vicinity of the gas cylinder - there may be a major gas leak.

- Keep clear from the gas cylinder.
- Do not attempt to correct the problem yourself.
- Call the Fire Department
- **DO NOT** make the call near the gas cylinder. Your telephone is an electronic device and could produce a spark.



- Never test for gas leaks with a flame.

LOCATION



- This heater is for **OUTDOOR** use only.
 - **DO NOT** operate in an enclosed area.
 - **DO NOT** operate in an unventilated area.
 - **DO NOT** install or use indoors.
- Refer page 11 for details.

1. This appliance shall not be installed or used indoors
2. Keep this heater away from combustible materials. Maintain clearances shown on page 12.
3. This appliance must only be placed on a level and stable surface.
4. This appliance is not suitable for use on recreational vehicles such as boats, caravans or motor homes.
5. Do not store or use petrol or other flammable vapours and liquids in the vicinity of this or any other appliance.
6. Do not store empty or full spare gas cylinders under or near this or any other appliance.
7. Certain materials or items, which stored near the heater, will be subject to radiant heat and could be seriously damaged. Keep these items well away from the heater.

IMPORTANT SAFETY INFORMATION



- **Never operate this heater without a Regulator.**

BEFORE USE

1. Your PatioPal is designed to be used with a 9 kg LP Gas cylinder. Do not connect your heater to a gas cylinder of any other capacity. Ensure your cylinder conforms with the requirements of Australian Standards AS5601, AS2030.1 and AS 1596.
2. Your PatioPal must only be used with the hose and regulator supplied or identical replacement components supplied by Rinnai.
3. Install gas cylinder in accordance with the instructions on page 13.
4. Connect hose and regulator in accordance with the instructions on page 13.
5. Check for gas leaks in accordance with the instructions on page 15.

DURING USE

1. Light the burner in accordance with the instructions on page 15.
2. The guard is fitted to this appliance to reduce the risk of fire or injury from burns and no part of it should be removed or tampered with.
3. Never use for any purpose other than heating (for example do not use for drying clothes, cooking food, etc). Clothing or other flammable material must never be hung from or placed on or near the heater.
4. Do not move PatioPal whilst in operation or still hot.
5. Keep children away from the heater during use and until the heater has cooled after it has been turned off. Do not allow children to operate.
6. Do not place articles on or against this appliance.
7. Do not lean or sit on this appliance.
8. Do not spray aerosols in the vicinity of this appliance whilst it is in operation.

AFTER USE

1. Extinguish the burner in accordance with the instructions on page 17.
2. Ensure the gas cylinder valve is closed.
3. Confirm the flame has gone out before leaving the appliance unattended. Disconnect the regulator hose at the cylinder end only.
4. Allow to cool fully before moving.
5. If the appliance is stored indoors, remove the gas cylinder and store outside. See page 17 for full instructions.

IMPORTANT SAFETY INFORMATION

REPAIRS, MAINTENANCE AND INSPECTION

1. There are no user serviceable parts in this appliance.
2. Repair, maintenance and inspection must be carried out by an authorised person.
This appliance should be inspected at least annually. Rinnai Australia has Service and Spare Parts Departments.
3. Clean the appliance in accordance with the instructions on page 17.

STANDARDS AND REGULATIONS

Your PatioPal is Certified by the Australia Gas Association. The approval number is stamped on the dataplate on the appliance.

This appliance must be connected and used in accordance with:

- These instructions
- AS5601/AG601 'Gas Installations'.

Any other local relevant statutory Regulations.

CLEARANCES AND LOCATION

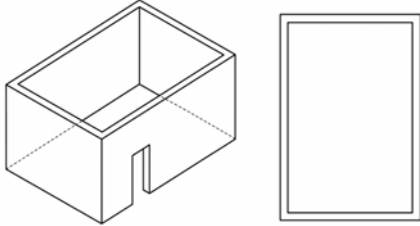
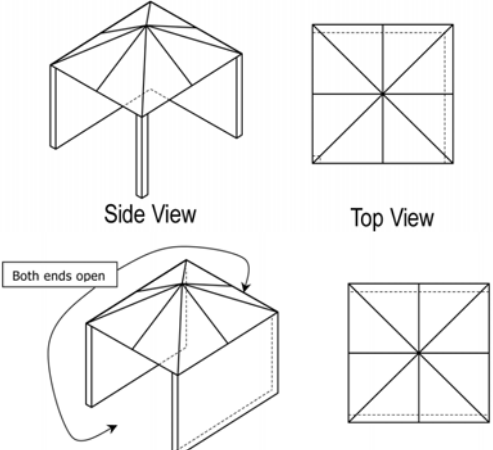
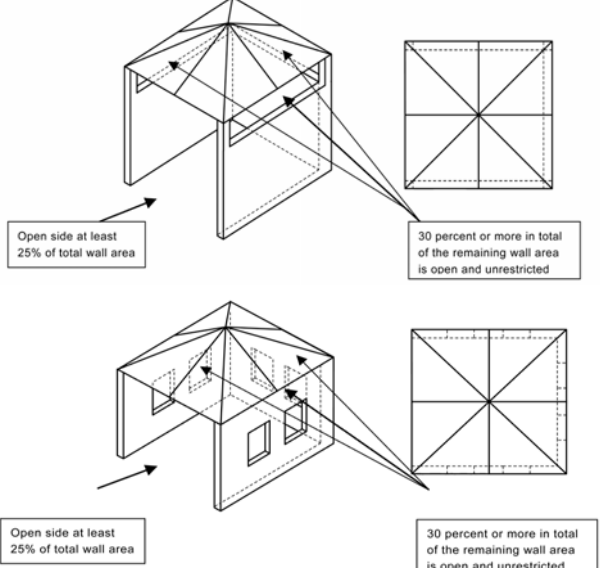


- This heater is for **OUTDOOR** use only.
- **DO NOT** operate in an enclosed area.
- **DO NOT** operate in an unventilated area.
- **DO NOT** install or use indoors.

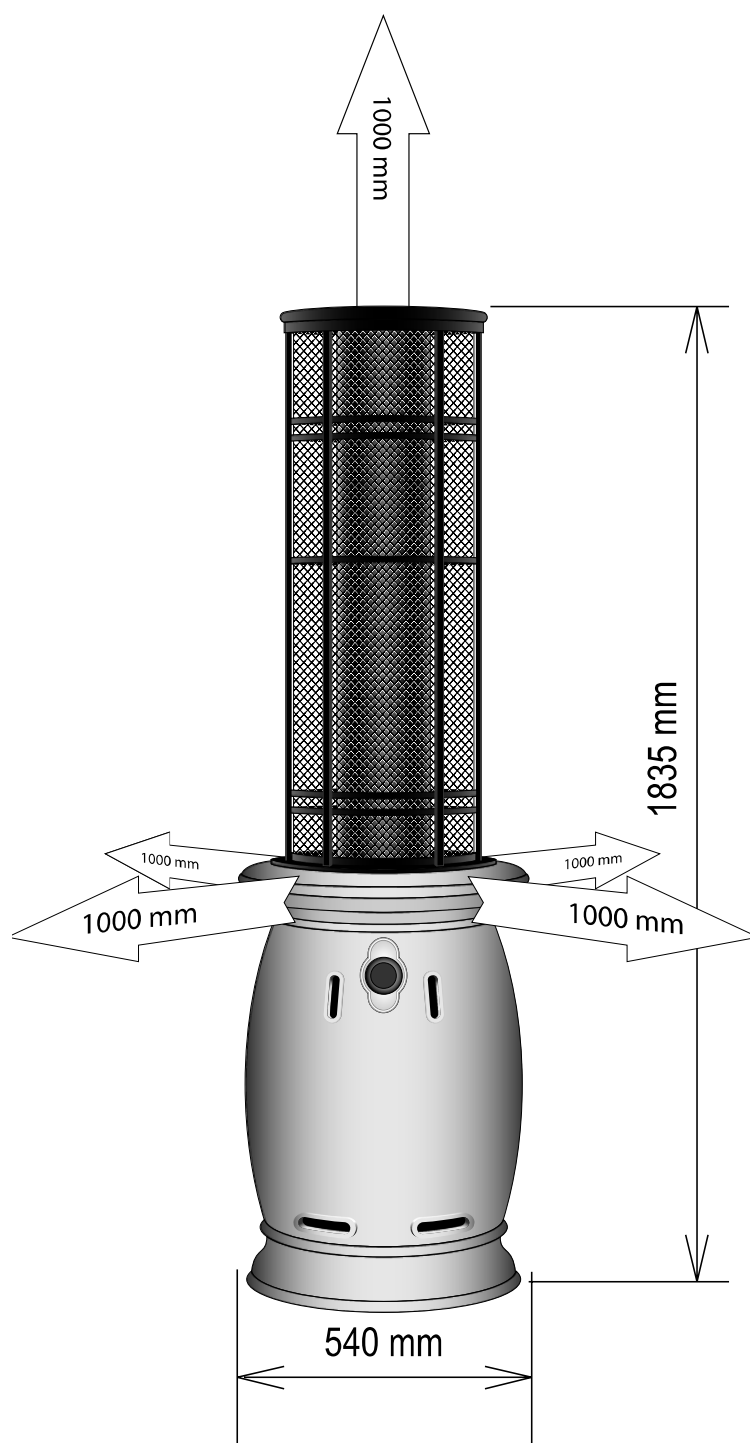
Location

'Outdoor Use' is defined as use in an above ground, open air situation with natural ventilation, without stagnant areas and where gas leakage and products of combustion are rapidly dispersed by wind and natural convection.

The following figures are diagrammatic representations of 'Outdoor Use' as defined:

<p>An enclosure with walls on all sides, but at least one permanent opening at ground level and no overhead cover.</p>	 <p>Side View Top View</p>
<p>Within a partial enclosure that includes an overhead cover and no more than 2 walls.</p>	 <p>Side View Top View</p> <p>Both ends open</p>
<p>Within a partial enclosure that includes an overhead cover and more than 2 walls the following shall apply:</p> <ul style="list-style-type: none"> • At least 25% of the total wall area is completely open and • At least 30% of the remaining wall area is open and unrestricted. <p>In the case of balconies at least 20% of the total wall area shall be and remain open and unrestricted.</p>	 <p>Open side at least 25% of total wall area</p> <p>30 percent or more in total of the remaining wall area is open and unrestricted</p> <p>Open side at least 25% of total wall area</p> <p>30 percent or more in total of the remaining wall area is open and unrestricted</p>

CLEARANCES AND LOCATION



Keep this heater away from combustible materials.

Your PatioPal must be located at least 1000 mm from any wall or surface and 1000 mm from any overhead structure.

GAS SAFETY

HOSE AND REGULATOR



- **Never operate this heater without a Regulator.**

1. The pressure regulator and hose assembly supplied with the heater are suitable for use on bottled LP gas only.
2. The pressure regulator and hose assembly supplied with the appliance **MUST** be used.
3. The pressure regulator supplied has been adjusted to have an outlet pressure of 2.75 kPa.
4. Replacement pressure regulators and hose assemblies must be those specified by Rinnai for use with this appliance.
5. When connecting the hose and regulator assembly to the gas cylinder take care to avoid unnecessary twisting of the hose.
6. Inspect the gas hose when replacing the gas cylinder, or once a year, whichever is more frequent. If the hose is cracked, cut, abraded or damaged in any way, the appliance must not be operated. The hose must be replaced if damaged or when statutory regulation requires this. Contact your supplier if uncertain.
7. When the appliance is not in use, the hose and regulator should be disconnected from the cylinder end only. Do not disconnect the hose from the appliance.

GAS CYLINDER



- **Never connect this heater directly to the gas cylinder.**
- **Always use the hose and regulator supplied.**
- **Never store your gas cylinder indoors.**

1. This heater is designed for use with a 9 kg LP Gas cylinder. This cylinder should conform to AS5601, AS2030.1 and AS 1596.
2. Do not connect this heater to a gas cylinder less than or exceeding the capacity of 9 kg.
3. For storage and when refilling / exchanging cylinders, disconnect the hose and regulator at the cylinder end only. Do not disconnect the hose from the appliance.
4. The gas cylinder should be refilled by a reputable gas dealer, or exchanged at a reputable gas cylinder exchange outlet. Gas cylinders should be inspected and re-qualified periodically in accordance with local statutory regulations.
5. Do not subject the gas cylinder to excessive heat. Always keep the gas cylinder in an upright position.
6. Always close the cylinder valve when the heater is not in use.
7. If you store your heater indoors after use, always disconnect and remove the gas cylinder.
8. Gas cylinders must be stored outdoors in a well ventilated area out of reach of children and must not be stored in a building, garage or any other enclosed area.

ASSEMBLY AND OPERATION INFORMATION

UNPACKING

Ensure heater package is in an upright position.

Carefully remove the packing and discard for recycling.

Take care not to damage the safety guard during removal of packaging.

ASSEMBLY

Before first use, at the beginning of each new usage season and whenever the gas cylinder is refilled / changed over you must check the cylinder, regulator and hoses for gas leaks.

CONNECTION / DISCONNECTION OF HOSE AND REGULATOR

1. Front view of the PatioPal heater.



2. Remove rear gas Cylinder chamber door, by lifting and pulling on the centrally located handle.



ASSEMBLY AND OPERATION INFORMATION

CONNECTION / DISCONNECTION OF HOSE AND REGULATOR

3. a) Connect the regulator to the gas cylinder by turning the coupling nut anti-clockwise to tighten to a full stop (left hand thread). The seal has now engaged. An additional one half to three quarter turn is required to complete the connection.

Tighten by hand only. Do not use tools.

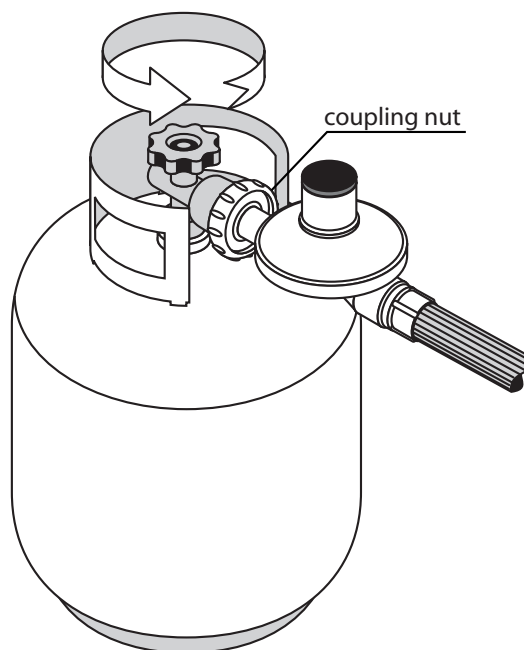
b) Make a soapy solution by mixing one part liquid detergent (such as dish-washing liquid) and one part water.

c) Ensure the burner controls are switched 'OFF', then open the gas valve on the cylinder by turning it anti-clockwise.

d) Apply the soapy solution to all visible and accessible gas connections. Growing bubbles will appear in the soap solution if connections are not properly sealed. Tighten connections by hand as necessary.

If the leak cannot be alleviated by tightening the connections, close the gas valve on the cylinder, disconnect the regulator and hose and contact the distributor or Rinnai for assistance.

ON

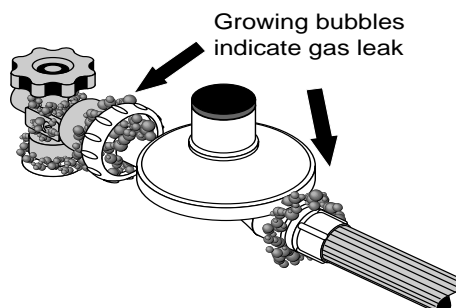


4. Fit the cylinder into the chamber taking care not to damage regulator, hose and other components. Fit the restraining chain around the cylinder.

If the appliance is not going to be lit at this stage, refit the rear gas cylinder chamber door.

If the appliance is going to be lit, proceed to the next section, lighting the burner.

5. Removal of the hose and regulator is the reverse of the connection procedure.



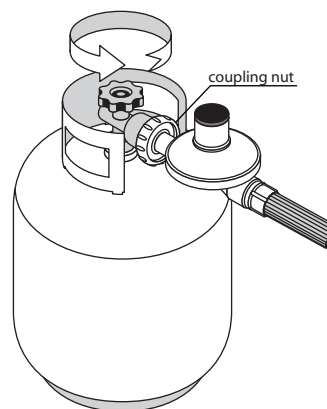
ASSEMBLY AND OPERATION INFORMATION

LIGHTING THE BURNER

1. Remove the gas cylinder chamber door. Check regulator is correctly attached to LP gas cylinder and ensure a leak test has been carried out.

2. Turn LP gas cylinder valve to fully open position with chamber door open.

3. Replace chamber door cover.



4. Depress control knob and turn 'counter clockwise' until an audible 'click' is heard.

5. Continue to depress control knob while observing if pilot has ignited.



6. Pilot viewing port is on the lower edge of the heat tube - approximately 300 mm above control knob.



If pilot is alight - continue to depress control knob for 20 seconds.

7. Release control knob slowly and check pilot continues to stay alight.

8. Turn control knob to desired setting.
Low - High.



9. If the pilot failed to ignite or failed to stay alight - turn control knob to the 'OFF' position and **wait 5 minutes** for any unburnt gas to disperse.

10. Re-try pilot ignition sequence from step 4.

11. When unused or unattended, the pilot light should always be turned 'OFF'.

ASSEMBLY & OPERATION INFORMATION

MANUAL IGNITION (Using a match)

If for some reason the ignition system is unable to produce a spark at the electrode on your PatioPal, heater can be lit carefully with a match as detailed below.



- If the ignition system(s) fails to produce a spark and the problem cannot be rectified, please contact Rinnai for service and/or repair.
- Manual Ignition should only be performed on a temporary basis whilst waiting for the service and/or repair to the Ignition System(s) to take place.
- Keep your face and body at a safe distance from the manual lighting.

1. Place a match onto the wire match holder.



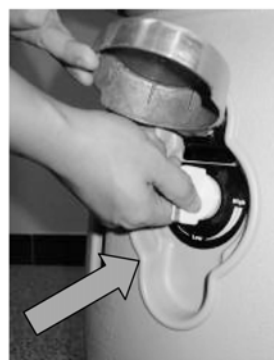
2. Observe the pilot nozzle, depress and turn the knob to 'PILOT' position and keep depressed for a few seconds to allow the pilot to light up, release and return the knob to the 'OFF' position, wait for a few seconds and retry.



3. Light up the match and place close to the pilot nozzle.



4. When the pilot lights, keep the knob depressed for at least 10 seconds to hold the pilot flame. Then release the knob. The pilot should stay 'ON'. If not, wait for 5 minutes for gas to clear before re-trying.



ASSEMBLY AND OPERATION INFORMATION

EXTINGUISHING THE BURNER

To turn PatioPal 'OFF', depress the control knob and turn knob clockwise to the 'OFF' position. When the PatioPal is unused or unattended, the pilot light should always be turned 'OFF'.

AFTER USE

Confirm the flame has gone out before leaving the appliance unattended.

Disconnect the regulator hose at the cylinder end only by turning the coupling nut clockwise (left hand thread).

The gas cylinder must be removed before the appliance is moved. Allow to cool fully before moving.

The gas cylinder must also be removed if the appliance is stored indoors. Gas cylinders must be stored outdoors in a well ventilated area out of reach of children and must not be stored in a building, garage or any other enclosed area. Allow to cool fully before moving.

STORAGE

Exposure to the elements should be minimised. Durability is improved if the appliance is well protected from the weather and regular cleaning is carried out.

TROUBLE SHOOTING

If the appliance pilot or burner will not light, or if the flame goes out during operation it could be that there is insufficient gas in the gas cylinder. To rectify:

1. Follow the procedures on page 13 to remove the hose and regulator and gas cylinder.
Refill / change-over.
2. Follow the procedures on page 15 to leak test, assemble the hose and regulator to the new gas cylinder and fit the gas cylinder to the cylinder compartment.
3. Follow the procedure on page 15 to light the burner.

If the appliance still fails to light or the flame goes out during operation after the gas cylinder has been filled, the heater should be attended to by an authorised person.

REPAIR, MAINTENANCE AND INSPECTION

There are no user serviceable parts in this appliance.

- Repair, maintenance and inspection must only be carried out by an Authorised person.
- This appliance should be inspected at least annually.
- Rinnai Australia has Service and Spare Parts Departments.

CLEANING

Clean the gas cylinder chamber, appliance guard and cap with a solution of mild soapy water.

SPECIFICATIONS

Model Name:	PatioPal
Model Number:	PATPAL
Gas Supply:	Propane
Gas Cylinder Size:	9 kg (not supplied) Certified to AS 1596 / AS 2030.1
Height:	1835 mm
Maximum heater diameter:	Ø 540 mm
Burner Injector pressure:	2.75 kPa
Burner Injector Size:	0.95 mm x 4
Weight: (without gas cylinder) (with filled gas cylinder)	43 kg 54 kg
Pilot lighting method:	Piezo igniter (integral with control valve)
Burner lighting method:	Pilot flame (from ODS)
Gas Consumption:	High: 43.9 MJ/h Low: 7.9 MJ/h
Burner:	4 atmospheric Burners
Burner material:	0.3 mm thick 304 Grade Stainless Steel Outer Plate: 0.8 mm thick Zinc Plates steel. Inner Reflector Plate: 0.6 mm thick 304 Stainless Steel
Heat Exchanger Baffle material:	Type 304 stainless steel painted externally with high temperature matt black paint.
Heat Exchanger area:	Approx. 0.45 m ²
Heat Tube material:	Stainless Steel (painted with high temperature matt black paint)
Cylinder enclosure and access door material:	High Density Polyethylene blow moulding
Guard material:	Mild Steel (primed and painted)
Heat Exchanger length & diameter:	907 mm x 200mm
Flame safety devices	1. Flame Failure Sensor 2. ODS (Oxygen Depletion System) - Flame is extinguished if available oxygen level is low. 3. Tilt switch - opens when tilted beyond 20°- 50° in any direction. Returns at less than 15°. Above devices are electronically coupled to shut the solenoid valves of the gas control.
Gas Hose length:	600 mm
Minimum distance from all wall or surface and any overhead structure.	Horizontal - 1000 mm Vertical - 1000 mm
End user assembled components:	None (except LPG Cylinder, Hose and Regulator)

Notes

CONTACTS

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