

Paloma

UNFLUED PORTABLE GAS RADIANT (INFRARED) ROOM HEATER

To suit Paloma Models: PG-451S, PG-651S & PG-851S

Gas Types: Natural Gas (NG) or Propane (LPG)

CUSTOMER INSTALLATION AND OPERATING INSTRUCTIONS



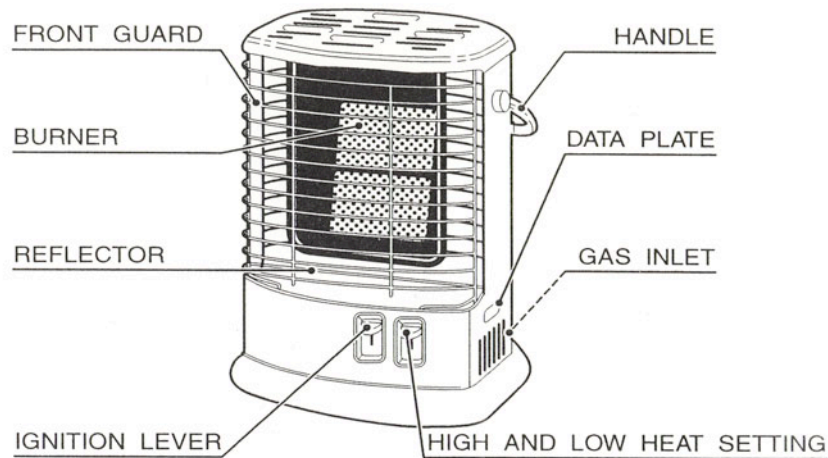
Thank you for purchasing a Paloma Radiant Gas Space Heater

1. To operate and maintain this appliance safely and correctly, please read these instructions thoroughly.
2. This appliance must be installed in accordance with:
 - a. Local Gas Fitting Regulations
 - b. Municipal Building Codes
 - c. Australian Standard for Gas Appliance Installations AS/NZS5601.1:-2010
 - d. Any other relevant Statutory Regulation
 - e. Manufacturer's installation instructions
3. This appliance must be serviced by a qualified person.
4. **Room heater application:** This unflued gas portable convection heater is designed for use in a single family domestic dwelling for the purpose of room heating. Its use in an application other than this may shorten its life.

Contents

Product Overview.....	3
Features.....	3
Specifications.....	4
Preparation.....	5
Safety Instructions.....	5
Danger.....	5
Warnings.....	6
Caution.....	7
Installation.....	8
Regular Care & Maintenance.....	10
Operating Instructions.....	11
Trouble Shooting Guide.....	12
Warranty.....	13
Service & Spare Parts.....	16
Approval.....	16

Product Overview



Features

- Easy lever-type control.
- AS4553 Energy Performance Rating of 5.9 Stars.
- Two heat settings – Hi and low settings for comfort and economy.
- Reliable Piezo ignition with quick sensor device.
- Speedy heating through immediate and direct effect of infrared radiant heat.
- Wide base for stability.
- Portability – these heaters can be moved from room to room and stored away over the summer months.
- Manufactured in Japan

Safety Features:

- Anti-tilt Safety Switch automatically shuts off gas flow if the heater is knocked or bumped.
- Oxygen Depletion Safety System automatically shuts off gas flow if the oxygen level in the room drops below a safe level.
- Flame Failure Device prevents flow of gas to burner if ignition fails or flame goes out.

Specifications

MODEL	PG-451S	PG-651S	PG-851S
Type	Radiant Heater	Radiant Heater	Radiant Heater
Gas Input			
High (MJ/h)	8	11	14
Low (MJ/h)	4	4	7
Heater Output (kW)	2	2.8	3.5
Approx. Heating Capacity (Sq.M)			
Very Cold Climate	18	23	31
Cold Climate	20	28	35
Cool Climate	27	37	47
Mild Climate	31	42	54
AS4553-2008 Emission Star Rating			
NG (Emission Star Rating)	2.7	2.8	2.7
LPG (Emission Star Rating)	2.2	2.0	1.8
AS4553-2008 NO2 Emission Performance (ng/J)			
NG (Emission Performance)	3.3	3.2	3.3
LPG (Emission Performance)	3.8	4.0	4.2
Emission Class			
Emission Class	2	2	2
AS4553-2008 Efficiency Star Rating			
AS4553-2008 Efficiency Star Rating	5.9	5.9	5.9
AS4553 Annual Energy Consumption			
AS4553 Annual Energy Consumption	2655	3319	4646
Minimum Room Sizing (Cu.M)			
Minimum Room Sizing (Cu.M)	40	55	70
Gas Types			
Gas Types	NG & LPG	NG & LPG	NG & LPG
Test Point Pressures (kPa)			
Test Point Pressures (kPa)	0.96(NG)/2.55(LPG)	0.96(NG)/2.55(LPG)	0.96(NG)/2.55(LPG)
Upper Burner Injector Size (mm)			
Upper Burner Injector Size (mm)	0.9 (NG)/0.55(LPG)	1.2(NG)/0.72(LPG)	1.2(NG)/0.72(LPG)
Lower Burner Injector Size (mm)			
Lower Burner Injector Size (mm)	0.9 (NG)/0.55(LPG)	0.88(NG)/0.55(LPG)	1.2(NG)/0.72(LPG)
Pilot Injector Size (mm)			
Pilot Injector Size (mm)	0.54 (NG)/0.35(LPG)	0.54 (NG)/0.35(LPG)	0.54 (NG)/0.35(LPG)
Safety Pilot Injector Size (mm)			
Safety Pilot Injector Size (mm)	0.27 (NG)/0.20(LPG)	0.27 (NG)/0.20(LPG)	0.27 (NG)/0.20(LPG)
Hose Connections (mm)			
Hose Connections (mm)	Φ 9.5	Φ 9.5	Φ 9.5
Gas Hose Length (M)			
Gas Hose Length (M)	1.5	1.5	1.5
Colour			
Colour	Off White	Off White	Off White
Heater Dimensions: (mm) (Approx: Height x Width x Depth)			
Heater Dimensions: (mm) (Approx: Height x Width x Depth)	410 × 340 × 265	458 × 340 × 265	506 × 340 × 265
NET WEIGHT (KGS)			
NET WEIGHT (KGS)	5	5.5	6

Preparation

- (1) Remove heater from carton.
- (2) Please ensure that the gas specified on the rating plate matches your gas supply.
⚠ WARNING:
Using a different type of gas may cause an explosive ignition resulting in injury, damage to heater or malfunction of the oxygen depletion safety system. Do not install heater if it is the wrong gas type. Please contact your place of purchase immediately.
- (3) Check room sizing – refer specifications. Do not install if the actual room size is less than the specified minimum room size requirements as the heater may shut down due to oxygen depletion.

Notice to Victorian Customers: This appliance must be installed by a licensed person as required by the Victorian Building Act 1993. Only a licensed person will give you a compliance certificate showing that the work complies with all relevant standards. Only a licensed person will have insurance protecting their workmanship for 6 years. Make sure you use a licensed person to install this heater and ask for a compliance certificate. – Message from the Victorian Plumbing Commission.

Safety Instructions

To ensure safe and proper use of this heater, please read these instructions carefully.

Danger – Indicates an immensely hazardous situation which, if not avoided, will result in serious injury or death in the most extreme situations.

Warning – Indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death in the most extreme situations.

Caution – indicates a potentially hazardous situation which, if not avoided, may result in minor injury.

Danger

If a gas leak is detected:

- Do not turn power switches on or off.
- Do not plug or unplug electrical appliances.
- Do not use the telephone.

Flame or sparks may ignite the gas and cause a fire:

- Cease operation immediately by closing the gas valve.
- Open windows and doors for ventilation.
- Contact your gas supplier, a licensed plumber or Rheem Service on 131 031.

Warnings

- **DO NOT PLACE ARTICLES ON OR AGAINST THIS APPLIANCE.**
- **DO NOT USE OR STORE FLAMMABLE MATERIALS NEAR THIS APPLIANCE.**
- **DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILST IN OPERATION.**
- **DO NOT MODIFY THIS APPLIANCE.**
- **THIS HEATER IS NOT INTENDED FOR USE AS A FIREPLACE INSERT.**
- **NOT TO BE CONNECTED TO AN LPG GAS CYLINDER LOCATED INDOORS.**
- **PLEASE ENSURE THAT THE GAS SPECIFIED ON THE RATING PLATE MATCHES YOUR GAS SUPPLY. USING A DIFFERENT TYPE OF GAS MAY CAUSE AN EXPLOSIVE IGNITION RESULTING IN INJURY, DAMAGE TO HEATER OR MALFUNCTION OF THE OXYGEN DEPLETION SAFETY SYSTEM. DO NOT INSTALL HEATER IF IT IS THE WRONG GAS TYPE. PLEASE CONTACT YOUR PLACE OF PURCHASE IMMEDIATELY.**
- For information on the gas consumption and gas type please see data plate.
- Use only the gas hose supplied with the heater to avoid risk of gas leakage.
- Ventilation and room sizing must comply with local regulations.
- Ensure your room is correctly ventilated while unit is operating. Continuous use decreases the oxygen level in the room which activates the oxygen depletion safety system.
- Do not allow curtains or flammable materials or aerosol cans to come into contact with the heater. It may cause a fire or the pressure in the aerosol-can may increase resulting in an explosion.
- Do not post or allow children to post articles such as paper, cloth or any other foreign material into the heater.
- Do not leave the heater unattended or alight when you leave the house. Turn off heater before going to bed.
- Do not sit, stand or sleep directly in front of the heater. Receiving direct heat continuously may cause low temperature burns. The aged, children, a very tired person, a person with sensitive skin or an intoxicated person must be supervised at all times.
- Do not use for any purpose other than heating.
- If your heater fails to operate correctly or you detect any unusual odours during its operation, cease operation immediately and close the gas valve. Refer to the trouble shooting section of these instructions and if the problem cannot be fixed please contact Rheem service.
- This heater must be repaired or serviced by a qualified person. Repairs carried out by an unqualified person may cause abnormal operation.
- This heater must be inspected and serviced at least once every 12 months.
- Do not use this heater in areas where spray painting is taking place or in areas such as hairdressers where there may be lots of fluff and dust or where aerosols may be used.
- All replacement parts must be approved Paloma spare parts.

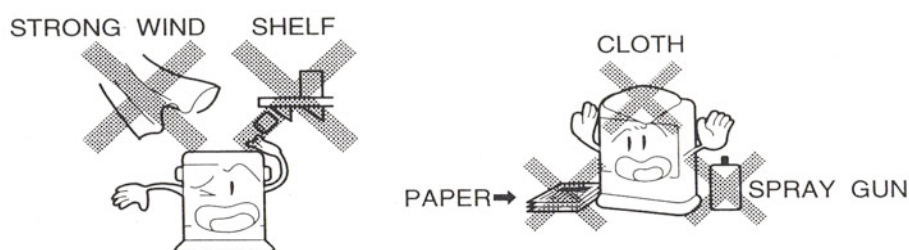
Caution

- Do not move the heater during operation.
- Do not use for any other purpose other than for heating. Must only be used as a space heater.
- Supervise young children or infirm persons near the heater. Also ensure that children do not play with this appliance.
- Do not sit, stand or lean on the heater.
- Do not place the heater near an opening door. The heater could be knocked over.
- Place a flat board for stability when placing the heater on soft or thick carpet. Placing directly on to a carpet may discolour the carpet.
- Ensure that recommended clearances are maintained at all times.
- This heater is designed for use in a single family domestic dwelling for the purpose of room heating. Its use in an application other than this may shorten its life.
- Do not use sprays containing silicon in the vicinity of the heater. It damages the oxygen depletion safety device.
- Do not install in a place where the heater may be affected by wind. The flame could be blown out by a strong wind.
- If the heater is shut off by the oxygen depletion safety system, please ensure you ventilate the room immediately for satisfactory combustion.
- Ventilate room occasionally (every 30 minutes) with window or ventilating fan when heater is used continuously or in a closed room.
- If burner surface becomes dark, check hose and make sure it is properly connected and not kinked.
- If there is any strong gas odour, or any unusual conditions are observed on burner, shut off Main Gas Valve immediately and contact Rheem service.
- In case the heater is shut off by Anti-tilt Safety Switch be sure to check Gas Inlet Connection after you set Ignition Lever back to "OFF" position and level the heater.
- Do not spray aerosols in the vicinity of this appliance while it is in operation.
- Prior to operation of the unit please ensure that the gas hose is removed from the holding clips, uncoiled and installed without any kinks in the hose.
- This 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 at all times to ensure that they do not play with the appliance.

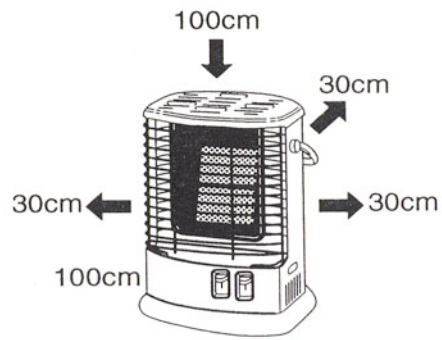
Installation

- This room heater must be installed in accordance with this advice to be covered by the Paloma warranty.
- This room heater is suitable for indoor installation only.
- This appliance must be installed in accordance with:
 - Local Gas Fitting Regulations
 - Municipal Building Codes
 - Australian Standard for Gas Appliance Installations AS/NZS5601.1:-2010
 - Any other relevant Statutory Regulation
 - Manufacturer's installation instructions
- This heater must be installed within the minimum clearances (Refer to page 9). These clearances must be maintained at all times.
- Do not install in a room with inadequate ventilation – refer to Australian Standard AS/NZS5601.1:-2010.
- Do not install on an uneven surface or a vibrating floor.
- Do not install directly on to carpet, timber floor, vinyl floor or cork floors. Heat emanating from these appliances may discolour the carpet or damage your floor. It is recommended that a mat or flat board be placed in front of this appliance extending at least 800mm in front of it.
- Do not install near a door or windy location or under shelves or in a confined space. E.g.: fireplace.
- Do not install in a bedroom, bathroom, combined living/sleeping areas, toilets or sauna.
- Do not install where flammable materials are likely to come into contact with the heater.
- Do not install where water may splash or near another heat source.
- Do not install in a caravan, mobile home or recreational vehicle.
- Do not connect to a Propane (LPG) gas cylinder **indoors**.
- This appliance is not designed to be built into walls or cupboards.
- If you move house check the gas type in the house where you are moving to.
- The bayonet plug on the factory fitted flexible hose simply plugs into your bayonet fitting.
- Do not place heater against wall or on a shelf.
- Always place heater on flat surface and away from strong draughts.
- Do not move the heater while it is in operation.
- When the heater is operated for the first time or after long periods of non use a slight odour may be emitted, this is normal. However if odours persist switch off the heater and contact Rheem Service.

Keep heater away from curtains or any inflammable materials as illustrated below.

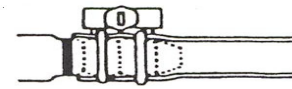


Minimum clearances - 30 cm from rear and sides, 100 cm from top and front are required from heater



Hose Connection

Be sure to correctly fasten the hose to the bayonet connection. Check the condition of the gas hose. Old or decayed rubber/PVC hoses should not be used. Only use hose supplied with the heater or supplied by Rheem spare parts.



Decayed rubber hose

Regular Care & Maintenance

It is the responsibility of the owner to carry out all regular care and organise maintenance and/or service work on this convection heater. All service work must be carried out by a qualified person.

Before carrying out any maintenance or service work turn heater off and disconnect hose.

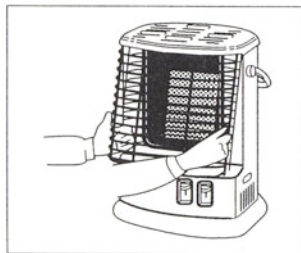
- Be sure to carry out daily inspection and maintenance.
- Do not use the heater if you believe something is wrong.
- It is recommended that your heater be serviced every 12 months.

Points to check:

- There are no flammable materials in the vicinity of the heater.
- The hose is correctly connected without kinking or twisting.

Maintenance

- Always wear gloves and be careful of any sharp edges.
- Do not use cleaning cloths, benzene, acid, or alkaline detergents as this could discolour the paint and plastic components.
- Remove Front Guard and wipe Reflector with soft and dry cloth.
- How to remove front guard - lift up the guard and pull out low end.
- How to install Front Guard - reverse procedure.



- Wipe parts with soft dry cloth. If cleaning agent is used to take off stubborn stains, wipe again with soft dry cloth.
- Metal parts are hot during or just after use. Do not touch the heater while hot.
- Remove accumulated dust inside heater with vacuum cleaner without touching inner parts.
- The guard on the appliance conforms to AGA requirements. It is designed to prevent risk of fire or injury. It does not give full protection for young children or the infirm.

Servicing Your Heater

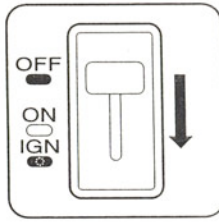
Any repair or service work must be carried out by a qualified person.

We recommend that this convection heater be inspected and serviced every 12 months or prior to every winter season.

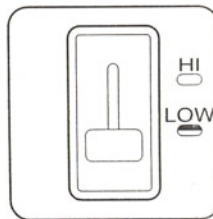
For repairs and service please contact Rheem Service on 131 031. Rheem Service can carry out repairs and service on site.

Operating Instructions

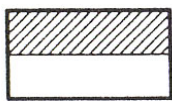
1. Make sure that the ignition lever is in the "OFF" position. Open Main Gas Supply Valve fully.



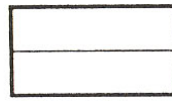
2. Push down Ignition Lever until a sharp "click" is heard. Keep holding lever down for about 3 seconds after pilot burner lights (until Safety Device locks in).
 - When using for the first time, burner will not light until air in pipe is completely discharged.
 - If burner fails to light, repeat ignition procedure.



3. Regulate heat according to room size. Pushing down Heat Settings Lever decreases heat to half capacity. Do not keep lever at intermediate position.
 - Burner Surface:



At half capacity
(Low Position)



At full capacity
(High Position)

4. To turn off burner, lift ignition lever up to "OFF" position.
 - Shut off Main Gas Supply Valve for absolute safety when heater is not in use for long periods of time.
 - *Note:* Air Mixture is adjusted at factory, no further adjustment is necessary.

Trouble Shooting

Please check the following points before calling for a service technician:

CONDITION	PROBABLE CAUSE	POSSIBLE REMEDY
Pilot fails to light	Main Gas Valve is closed	Open Main Gas Valve
	Insufficient gas	Call your gas supplier or licensed plumber
Strong Gas Odour	Gas Leakage	The hose is not securely connected
		The hose is damaged
		Turn off heater and call a licensed plumber
Incomplete Combustion	Type of Gas used does not match specifications of appliance	Contact the place of purchase
Strange noise	Burner is clogged	Clean the burner with vacuum cleaner
Heater smells or smokes when using first time	The smell or smoke comes from oil used during manufacture	Operate the heater for a while in a ventilated room
The heater creaks at the time of lighting or switching off	The sound is caused by expansion and contraction of metallic parts when the product is heated or cooled	No action required
Heater smells during use	The heater will give out a strong odour if the room has been recently painted or the floors have been waxed or polished.	Ventilate room properly before use
Flame is extinguished during operation	Insufficient ventilation (Oxygen Depletion Sensor has been activated)	Open windows slightly or install ventilation points and operate again. If problem persists call for service.
	Actual Room Size is less than the specified minimum room size requirements.	Open windows slightly or install ventilation points and operate again. If problem persists call for service.

1. **FLAME FAILURE SAFETY DEVICE**

It closes the gas valve automatically in the event of a flame failure.

2. **OXYGEN DEPLETION SAFETY DEVICE**

If the oxygen levels drop below a safe level, the oxygen depletion device will cut off the supply of gas to the heater.

3. **TILT SWITCH**

If the heater is knocked over, the tilt switch will cut off the supply of gas to the heater. The tilt switch may also operate if the heater is jolted whilst in operation.

Paloma Unflued Gas Radiant Heater Warranty - Australia Only -

Convactor Heater Models:

PG-451SL &, PJC-451SN,
PG-651SL &, PJC-651SN,
PG-851SL &, PJC-851SN,

1. THE PALOMA WARRANTY - GENERAL

- a. This Warranty is given by Rheem Australia Pty Ltd ABN 21 098 823 511 of 1 Alan Street, Rydalmere New South Wales.
- b. Rheem offer a trained and qualified national service network who will repair or replace components at the address of the radiant heater subject to the terms & conditions of the Paloma warranty. Rheem Service, in addition can provide preventative maintenance and advice on the operation of the convection heater. Rheem Service contact number is available 7 days a week on 131 031 with Service personnel available to take your call from 8am to 8pm daily (hours subject to change).
- c. For details about this warranty, you can contact us on 131 031 or by email at warrantyenquiry@rheem.com.au (not for service bookings).
- d. The terms of this warranty are set out in section 2 and apply to products manufactured after 1st November 2011.
- e. If a subsequent version of this warranty is published, the terms of that warranty will apply to the convection heaters manufactured after the date specified in the subsequent version.

2. TERMS OF THE PALOMA WARRANTY AND EXCLUSIONS TO IT

1. The decision of whether to repair or replace a component or full replacement of the radiant heater is at Paloma sole discretion.
2. Where a failed component is replaced under this warranty, the balance of the original warranty period will remain effective. The replacement does not carry a new Paloma warranty.
3. Where the heater is installed outside the boundaries of a metropolitan area as defined by Rheem or further than 25km from either a regional branch office or an Accredited Rheem Service Agent's office, the cost of transport, insurance and travelling between the nearest branch office or Rheem Accredited Service Agent's office and the installed site shall be the owner's responsibility.
4. If the radiant heater is not sized to provide heating in accordance with the guidelines in Paloma's portable gas heating literature, any resultant fault may not be covered by Paloma warranty.
5. Terms of this warranty are effective from date of purchase and the attending service technician reserves the right to verify this date by requesting a copy of the purchase invoice prior to commencement of any warranty work.
6. No parts must be modified or removed from the unit
7. This warranty only applies to the original and genuine Paloma radiant heater and any genuine Paloma replacement parts.
8. We reserve the right to transfer functional components from defective appliances if they are suitable.
9. We reserve the right to have the installed product returned to the factory for inspection and repair.
10. Please note: general cleaning, maintenance, operation and wear & tear are not covered by this warranty. Calls of this nature will be chargeable.

11. Paloma/Rheem's warranty does not cover faults that are a result of:
- a. Accidental damage to the product or any component (for example: (i) Acts of God such as floods, storms, fires, lightning strikes and the like; and (ii) third party acts or omissions).
 - b. Misuse or abnormal use of the convection heater.
 - c. Installation not in accordance with the "Customer Operating and Installation Manual" or with relevant statutory and local requirements in the State or Territory in which the convection heater is installed.
 - d. Repairs, attempts to repair or modifications to the convection heater by a person other Rheem Service or a Rheem Accredited Service Agent.
 - e. Faulty plumbing or faulty power supply.
 - f. Failure to maintain the convection heater in accordance with the 'Customer Operating and Installation Manual'.
 - g. Transport damage
 - h. Fair wear and tear from adverse conditions.
 - i. Cosmetic defects
 - j. Where it is found that there is no fault with the appliance and the issue/s are related to the installation or is due to the failure of electric or gas supplies.
12. If you require a call out and we find that the fault is not covered by Paloma warranty, you are responsible for our standard call out charge. If you wish to have the relevant components repaired or replaced that service will be at your cost.
13. Subject to any statutory provisions to the contrary, this warranty excludes any and all claims for damage to furniture, carpet, walls, foundations or any other consequential loss either directly or indirectly caused by incorrect installation or misuse of product or other modes of failure.

3. WHAT IS COVERED BY PALOMA WARRANTY FOR THE PRODUCT DETAILED IN THIS DOCUMENT

Rheem will repair or replace a faulty component of your radiant heater if it fails to operate in accordance with its specifications as follows:

What Components are covered	The period in which the fault must be appear in order to be covered	What coverage you receive
All Components (only if the radiant heater is installed in a single-family domestic dwelling)	Year 3	Repair and/or replacement of the faulty component, free of charge, including labour. If the heater is not repairable, full replacement free of charge.
All Components (if the radiant heater is not installed in a single-family domestic dwelling)	Year 1	Repair and/or replacement of the faulty component, free of charge, including labour. If the heater is not repairable, full replacement free of charge.

4. ENTITLEMENT TO CLAIM UNDER THIS WARRANTY

To be entitled to make a claim under this warranty you need to:

- A. Be the owner of the radiant heater or have consent of the owner to act on their behalf.

- B. Contact Rheem Service without undue delay after detection of the defect and, in any event, within the applicable warranty period.

You are not entitled to make a claim under this warranty if your product:

- i. Does not have its original serial numbers or rating label
- ii. Is not installed in Australia
- iii. Do not possess a copy of the original invoice.

5. HOW TO MAKE A CLAIM UNDER THIS WARRANTY

If you wish to make a claim under this warranty, you need to:

- 1) Contact Rheem on 131031 and provide owners details, address of radiant heater, a contact number, date of purchase (require proof of purchase) and serial number (from the rating label on the radiant heater).
- 2) Rheem will arrange for the radiant heater to be tested and assessed on-site.
- 3) If Rheem determines that you have a valid warranty claim, Rheem will repair or replace the radiant heater in accordance with this warranty.

Any expenses incurred in the making of a claim under this warranty will be borne by you.

6. THE AUSTRALIAN CONSUMER LAW

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 acceptable quality and the failure does not amount to a major failure.

Paloma/Rheem warranty (set out above) is in addition to any rights and remedies that you may have under the *Australian Consumer Law*.

Service & Spare Parts

Rheem Australia has a service and spare parts network in all states. Our service network personnel are fully equipped to give the best service on your Paloma gas heater.

**If your heater requires a repair or service please contact Rheem Service on 131 031.
Repairs and Service can be carried out on site.**

If you have any difficulty with this convection heater, instead of taking it back to the retailer, try the following:

- (1) Please read these instructions carefully.**
- (2) Refer to trouble shooting guide (page 12).**
- (3) Contact Rheem Service.**

Approval

**These Paloma models have been certified by the Australian Gas Association under
Certificate Number: 5766**

In keeping with our policy of continuous progress and product improvement, we reserve the right to make changes without notice.



Revision Nr: 05-38566-007 ①
November 2011

Rheem Australia Pty Ltd
ABN 21 098 823 511
www.paloma.com.au

FOR SERVICE TELEPHONE
131 031 Australia

Sales Tel: 1300 653 014 or 1300 729 725
Sales Fax: 03 9212 8940