

# Paloma



## UNFLUED PORTABLE GAS CONVECTION ROOM HEATER

To suit Paloma & Rheem Models:  
PJC-W18FR & PJC-S18FR  
PJC-W25FR, PJC-S25FR & PJC-C25FR  
RAC-W25FR, RAC-S25FR & RAC-C25FR

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

### CUSTOMER INSTALLATION AND OPERATING INSTRUCTIONS

Thank you for purchasing a Paloma/Rheem Convection 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.

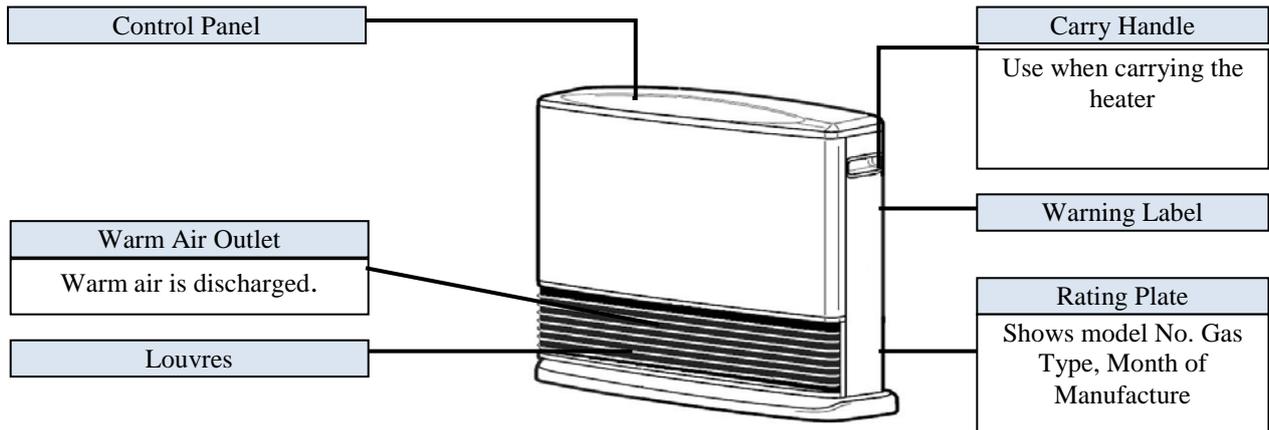
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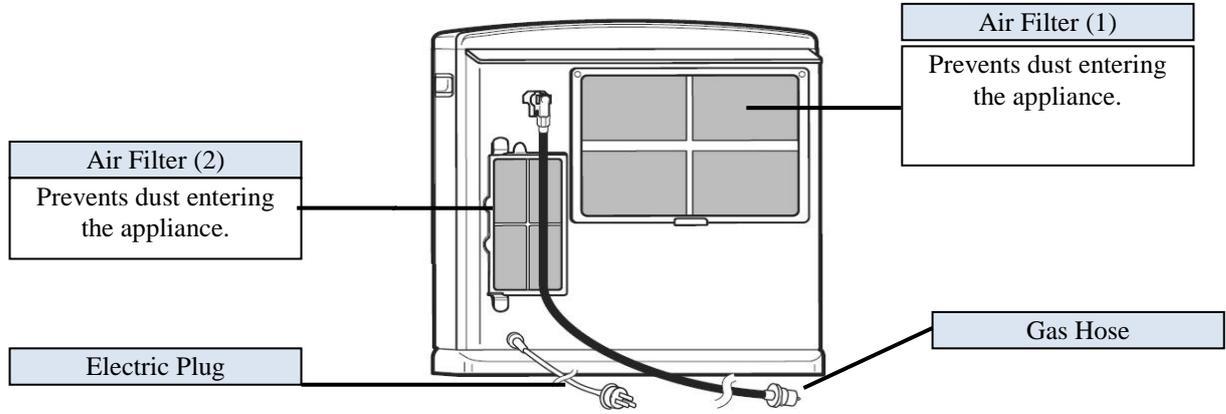
# Product Overview

## General Design Layout

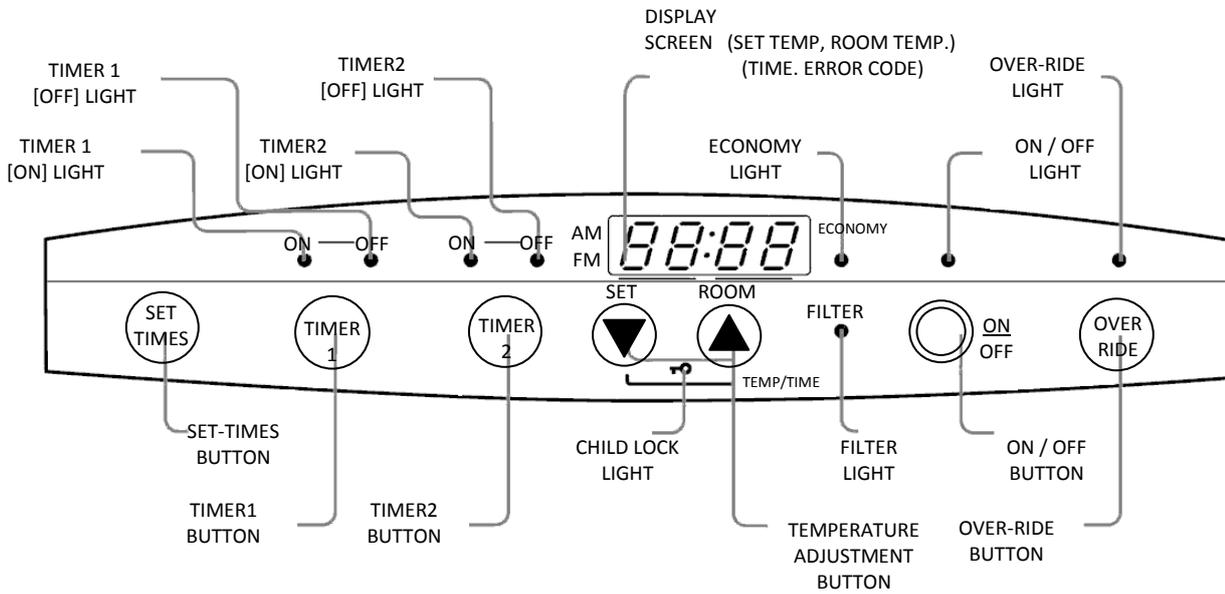
### << FRONT VIEW >>



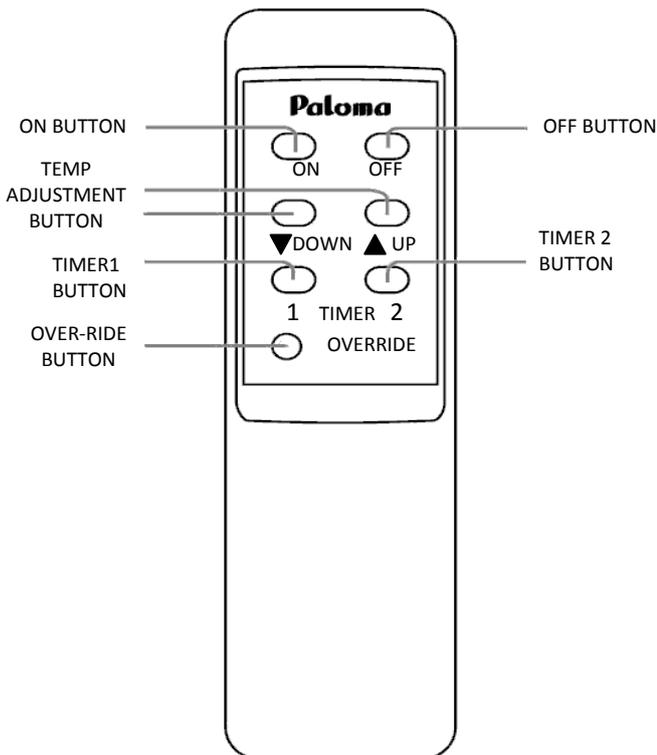
### << REAR VIEW >>



## Control Panel

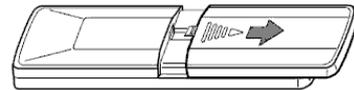


## Infrared Remote Controller

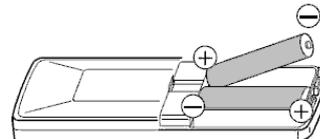


### Battery replacement (AAA size 1.5V 2 pieces)

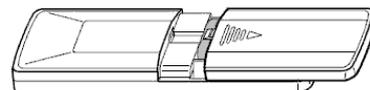
(1) Remove access panel.



(2) Ensure that batteries are correctly fitted.



(3) Replace access panel and gently push into position.



## Features

- AS4553 Efficiency Star Rating of 5.9 Stars.
- One touch ON / OFF button.
- Electronic ignition.
- Adjustable room temperature - you can adjust the room temperature by pressing the up and down arrows on the control panel.
- Dual timers – the heater can be set to operate automatically at two separate periods of the day.
- Remote control operation – ON / OFF, temperature control (up/down), timer 1 & 2, override.
- Child lock function prevents accidental operation as well as children interfering with the controls.
- Automatic Economy function – when the room reaches the required temperature the heater automatically decreases room temperature by 1 deg C for every 30 minutes up to 2 deg C.
- Preheat function allows the heater to automatically operate one hour prior to the programmed starting time.
- Override function allows the user to manually override the preset program and operate the heater.
- Low Emission Technology – Class 1 Appliance AS4553:2008. Less than half the emissions of the Australian Standard.
- Energy efficient 7 stage modulating gas valve.
- Manufactured in Japan.

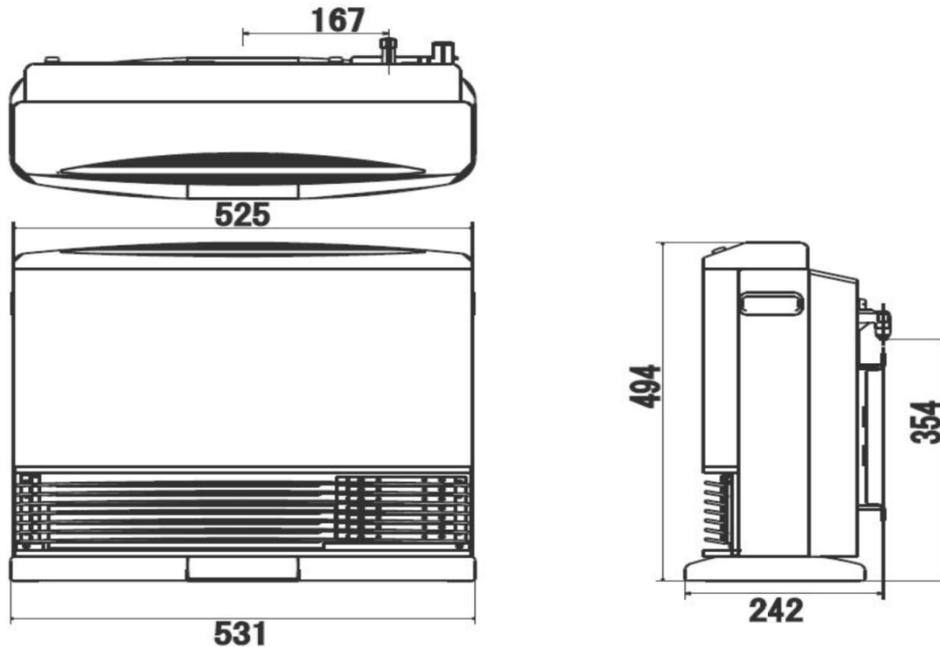
### **Safety Devices**

- Filter Clean Warning Device - When the air filter is clogged or hot-air outlet is blocked, the filter safety device will switch off the heater and the filter light will flash.
- 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.
- Power Failure Device prevents flow of gas to burner if there is a power failure.
- Overheat Safety Device – if the fan stops rotating for any reason the overheat switch shuts off the gas supply.
- Over Current Safety System.
- Back Burner Protection.
- Unattended Appliance Shut Off Device – the heater shuts off after 8 hours continuous operation.
- Air Volume and Combustion Control.

## Specifications

MODEL	PJC-W25FR, PJC-S25FR, PJC-C25FR RAC-W25FR, RAC-S25FR, RAC-C25FR	PJC-W18FR, PJC-S18FR
<b>Space Heater Type</b>	Convection Heater	Convection Heater
<b>Gas Input - NG</b>		
High (MJ/h)	25	18
Low (MJ/h)	9	9
<b>Gas Input - LPG</b>		
High (MJ/h)	23	18
Low (MJ/h)	8.2	8.2
Output (kW)	6.1	4.7
<b>AS4553 Efficiency Star Rating</b>	5.9	5.9
<b>AS4553 Annual Energy Consumption</b>	6790	5596
<b>AS4553 Emission Star Rating - NG</b>	3.9	4.4
<b>AS4553 NO2 Emission Performance (ng/J) - NG</b>	2.08	1.65
<b>AS4553 Emission Star Rating - LPG</b>	3.6	3.6
<b>AS4553 NO2 Emission Performance (ng/J) - LPG</b>	2.36	2.44
<b>Approx. Heating Capacity - Maximum (Sq.m)</b>	97	70
<b>Minimum Room Sizing (Cu.M)</b>	62.5	45
<b>Test Point Pressure</b>		
NG (kPa)	0.86	0.47
LPG (kPa)	2.0	1.2
<b>Test Point Pressure at Turndown</b>		
NG (kPa)	0.13	0.13
LPG (kPa)	0.3	0.3
<b>Injector Sizes</b>		
NG (mm)	2.4	2.4
LPG (mm)	1.45	1.45
Number of Injectors	1	1
Temperature Settings	16°C to 26°C	16°C to 26°C
Ignition	Continuous Direct Spark	Continuous Direct Spark
Hose Connections (mm)	Φ 9.5	Φ 9.5
Gas Hose Length (M)	3.0	1.5
Electricity Consumption (high/low)	31/18	27/18
Electrical Cord length	3.0	1.5
Electrical Supply	240V/50Hz/1Phase	240V/50Hz/1Phase
Standby Electrical Consumption (watts)	1	1
Colours	Off White, Silver & Charcoal	Off White
Heater WEIGHT (KGS)	13.1	13.1
Heater External Dimensions HxWxD	494 x 531 x 242	494 x 531 x 242

## EXTERNAL DIMENSIONS (mm)



## 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 (showing Error Code 12 refer page 24).
- (4) A dedicated 240V Earthed 10 Amp power point must be used with this heater.

**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

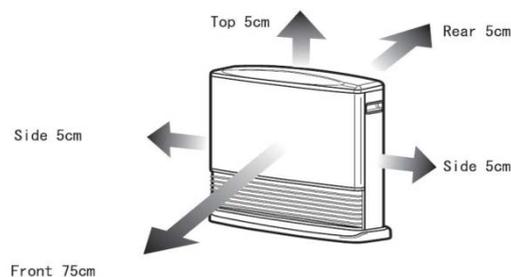
- **DO NOT PLACE ARTICLES ON OR AGAINST THIS APPLIANCE.**
- **DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILST IT IS IN OPERATION.**
- **DO NOT USE OR STORE FLAMMABLE MATERIALS NEAR THIS APPLIANCE.**
- **DO NOT MODIFY THIS APPLIANCE.**
- **THIS HEATER IS NOT INTENDED FOR USE AS A FIREPLACE 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.
- Electrical supply must be 240v, 50 Hz.
- 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 other 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 use or store gasoline, benzene, aerosol or any other flammable material near this appliance. It may result in a fire.
- Do not post or allow children to post articles such as paper, cloth or any other foreign material into the louvres or air inlet of the heater. Do not block the louvres or the air inlet of the heater. This may cause a fire or overheat the appliance.
- Do not leave the heater unattended or alight when you leave the house.
- 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.
- 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. The heater must be serviced at least once every twelve (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.
- This heater may circulate large volumes of air. If the air in the room contains any cigarette smoke or cooking vapours, it may affect the appearance of carpets, furniture and drapes, etc.
- Clean the air filter regularly (at least once a week).

## 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.
- Do not touch the warm air outlet during operation. Supervise young children or infirm persons near the heater.
- Do not sit, stand or lean on the heater.
- Do not insert your fingers into the louvres or the air inlet of the heater.
- Do not cut the electrical cord to extend the lead. Install the heater where the original electrical cord reaches a wall socket. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Do not unplug or shut down during operation. This may cause overheating.
- Do not place the heater near an opening door. The heater could be knocked over.
- Do not touch the electric plug with wet hands as this could cause an electric shock.
- Do not pull the electrical cord to unplug as this could break the cord and start a fire.
- 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.
- In case of thunderstorms, cease operation and unplug the electrical cord.
- 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.
- Do not place articles on or against or in front of warm air outlet or air filter of this appliance.
- If the heater is shut off by the oxygen depletion safety system, please ensure you ventilate the room immediately for satisfactory combustion.
- Prior to operation of the unit please ensure that the gas hose is removed from the holding clips, uncoiled and installed into your bayonet fitting 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/Rheem 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 appliance must be serviced by a qualified person.
- This heater must be installed with a minimum clearance of 50mm (5cm) from the rear and sides. These clearances must be maintained at all times.
- There must be a minimum clearance of 750mm (75cm) from the hot air outlet.



- 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, vinyl 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, sauna or hallways.
- 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.
- It is recommended that a dedicated 240V 10Amp power point be used with this appliance. Do not use power boards or double adaptors to operate this appliance. Heater must not be located adjacent to a power socket – outlet.
- Turn the heater off after use. Do not unplug the heater while it is in operation or while the fans are still cycling.
- 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.
- Do not install in a room smaller than the recommended minimum room size.

## 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. After the heater is turned off the convection fan will continue to operate for up to 4 minutes. This is to lower the temperatures inside the heater and is normal. Do not unplug the heater while the fan is still operating. Unplug the power cord only when the fan has stopped and wait until the heater cools down.

- 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

1. There are no flammable materials in the vicinity of the heater.
2. Air filter is fitting correctly and is not dirty.
3. The hose is correctly connected without kinking or twisting.
4. There is no damage to the electric cord.

### Maintenance

#### ⚠ Caution

Wear gloves

- Be careful of sharp edges.

#### ⚠ Warning

Do not use cleaning cloth, thinner, benzene, acid or alkaline detergent. This will avoid discoloration of the paint and plastic components.

### Maintenance of Heater Outer Casing

It is recommended that the heater be cleaned once a month. Always keep the heater clean

- Use damp soft cloth to wipe.
- Use mild soapy water for severe dirt.

### Maintenance of the Louvre

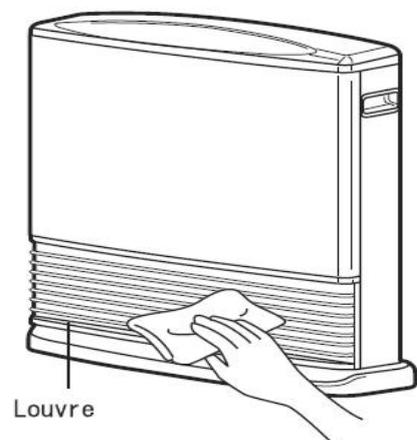
Use a vacuum cleaner to remove dirt from the louvre.

Make sure that the fan is not working before cleaning. White powder may form on the louvre. Wipe off with soft cloth.

#### ⚠ Caution

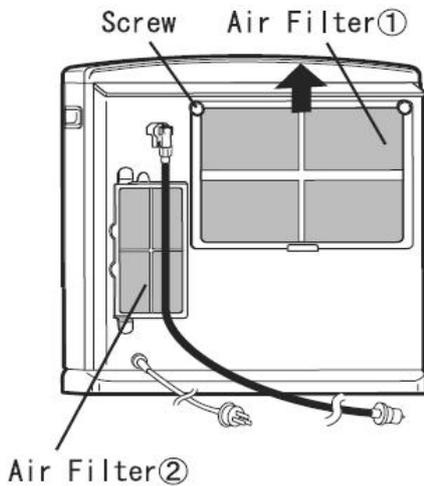
Do not press the louvre heavily. Do not apply strong pressure to the Louvre.

- The louvre may break causing discoloration of the floor or carpet due to the change in heat discharge.



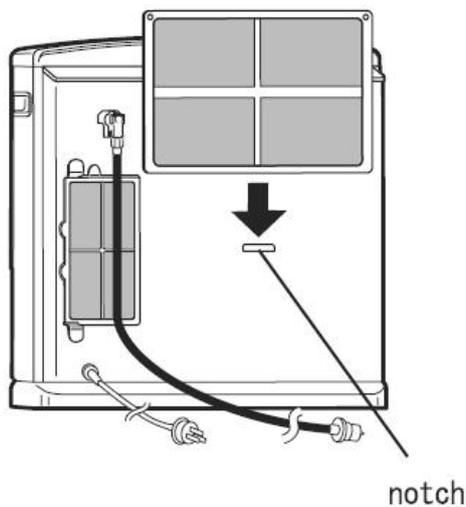
## WEEKLY MAINTENANCE OF THE AIR FILTER

- If the Air Filter lamp flashes, clean Air Filters (1) and (2)
- Use a vacuum cleaner to remove dirt on the Air Filters.
- Air Filter (1) could be taken off to clean. Use mild soapy water for severe dirt and refit after drying. If Air Filter is wet, the heater may not operate correctly.
- Do not remove Air Filter (2)



### REMOVE THE FILTER

1. Remove the screw.
2. Hold the upper side of Air Filter (1) and pull upward. (Do not hold and pull strongly. It may cause the air filter to break).



### REFIT THE FILTER

1. Hold the upper side of the Air Filter (1) and place the filter onto the notch
2. Tighten the screw

#### Warning

The heater must not be operated without the filter. Please refit filter correctly.

## Servicing Your Heater

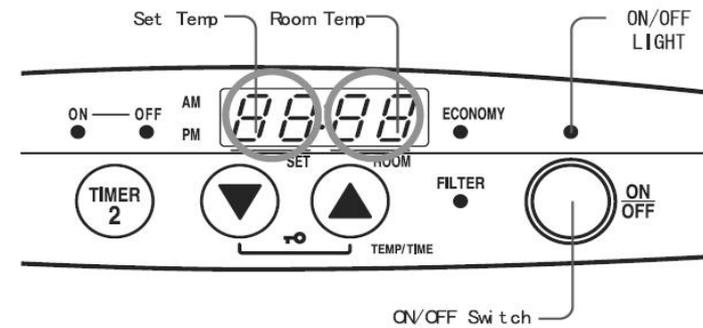
Any repair or service work must be carried out by a qualified person.

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

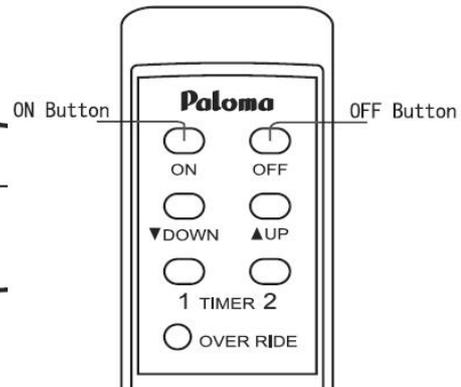
For repairs and service please contact Rheem Service on 131 031. Rheem Service can carry out repairs and service on site.

## Operating Instructions

【Control Panel】



【Remote Control】



Before you begin ensure that the gas hose is connected to your bayonet gas point and electrical cord is plugged in correctly.

### START UP – TURNING HEATER ON

- Press and release the **ON/OFF** Button once to start the heater and the operation light (green) will light up.
- After a short delay the combustion light (red) will light up, this indicates proper ignition has been achieved and the burner is on.
- Set temperature and room temperature are displayed on the screen.

Note: When the **ON/OFF** light is glowing green the heater can be switched on by pressing the Remote Control button.

### TURNING HEATER OFF

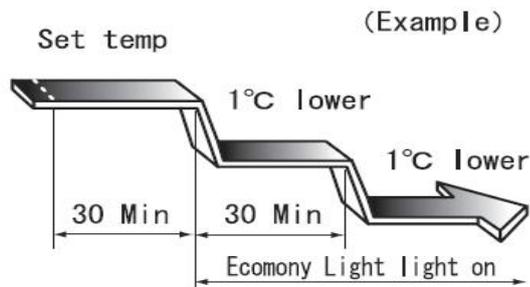
- The appliance can be turned off by pressing and releasing the **ON/OFF** button. The green (or red) **ON/OFF** operation LED will immediately extinguish and the digital display will revert to the time (if set). Then press the OFF button on Remote Controller.
- After the heater is turned off the convection fan will continue to operate for up to 4 minutes. This is to lower the temperatures inside the heater and is normal.
- Do not unplug the heater while the fan is still operating.

#### **Important Information:**

- When using the heater for the first time or after long periods of disuse, ignition may not occur the first time it is operated as there may be air within the pipes.
- The unit may make noises after igniting or extinguishing the heater. This is due to expansion and contraction of the heater components and is normal.
- If the heater fails to light, repeat the procedure after first pressing the **ON/OFF** button to turn the unit off.
- Do not start then stop immediately. This may cause the heater to overheat or the filter light to come on.
- The economy operation will not function if the set temperature reaches a temperature in excess of the room temperature.
- For safety reasons the heater will automatically stop after 8 hours of continuous operation.

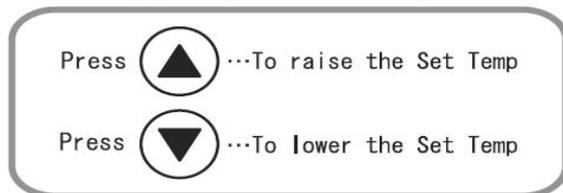
## AUTOMATIC ECONOMY OPERATION

- The **ECONOMY** mode is automatically operated and designed to increase efficiency of the appliance.
- The **ECONOMY** operation allows the heater to heat the room to the set temperature and after a period of 30 minutes it allows the temperature to automatically reduce by one degree. After another 30 minutes the temperature is reduced by a further one degree to a maximum of two degrees.
- This subtle reduction in temperature is not noticed by the user.



## ROOM TEMPERATURE ADJUSTMENT

- When the heater is operational the display screen will show the **[SET]** temperature and the **[ROOM]** temperature:
- **[SET]** indicates your desired temperature and **[ROOM]** indicates current room temperature.
- You can pre-set the **[SET]** temperature by raising or lowering the temperature selection buttons. For Eg; Select 22 Degrees C as your desired temperature and this temperature is then memorised into the control system.
- **[SET]** temperature selection can range from 16 Degrees C (low) – 26 Degrees C (high).
- **[ROOM]** temperature is indicated as follows:
  - {L} – lower than 0 Degrees C
  - {1} – {30} Degrees C
  - {H} – Higher than 31 Degrees C



### **Important Information:**

- Please assume the **ROOM** temperature is not an exact temperature.
- Your room may not arrive at the **[SET]** temperature or may exceed the **[SET]** temperature due to the size of room, construction of room, location of the heater or external temperature. If this occurs please switch heater OFF and then ON again. In the case of immediate re-operation the **[ROOM]** temperature shown on the display screen may be higher than the actual **[ROOM]** temperature for at least 3 to 4 minutes.
- Please note for the heater to ignite the **[SET]** temperature must be higher than the **[ROOM]** temperature.

## TIMER OVER-RIDE FUNCTION

The **VERRIDE** function allows the user to manually over-ride the preset timer program to operate the heater



[Press **OVER-RIDE** button]

If a timer(s) is selected and the heater is operating within a timer programmed 'time period' or 'pre-heat period' (burner on), the timer may be over-ridden and the burner turned off by pressing and releasing the **VERRIDE** button once. The **VERRIDE** LED will illuminate, the timer LED's will stop flashing and the **ON/OFF** LED will change from red to green after the heater has turned off.

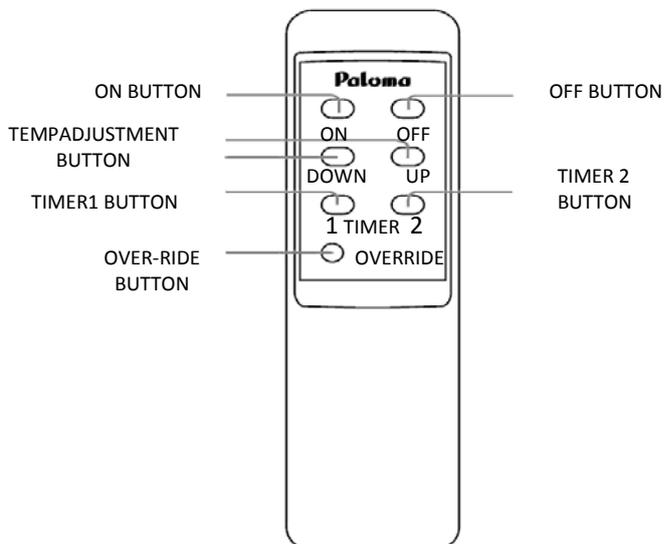
If the **VERRIDE** button is pressed and released once again, the **VERRIDE** LED will extinguish and the unit will operate provided the current time is within the programmed 'on period' of the selected timer including pre-heat period.

If a timer(s) is selected and the heater is operating outside a timer programmed time period (burner off), the timer may be over-ridden and the heater turned on by pressing and releasing the **VERRIDE** button once. The **VERRIDE** LED will illuminate; the timers LED's will remain on and the unit will operate.

If the **VERRIDE** button is pushed and released once again, the **VERRIDE** LED will extinguish and the heater will turn off provided the current time is not within the 'on period' of the selected timer including pre-heat time.

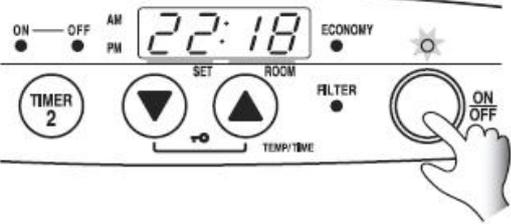
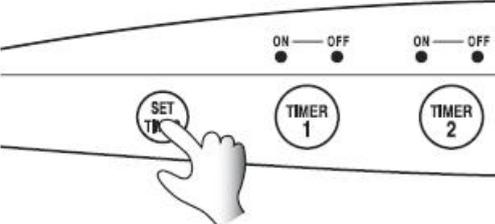
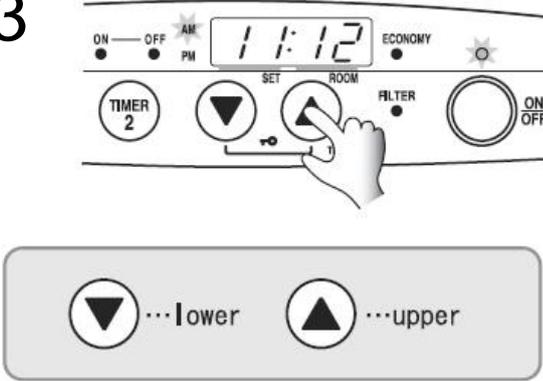
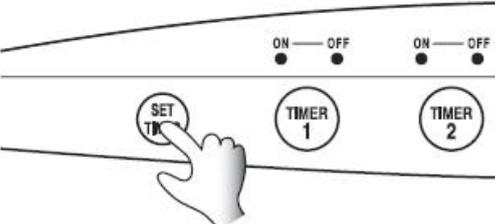
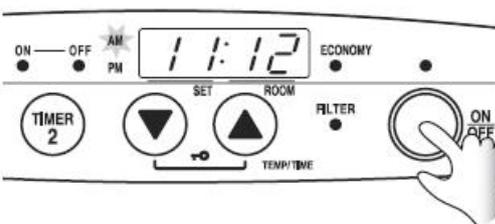
## REMOTE CONTROL OPERATION

The remote controller cannot be used for any programming however it can be used to turn the appliance **ON** and/or **OFF** provided the **ON/OFF** button on the heater control panel has been turned **ON** first. The remote controller can be used to adjust set point up or down or activate or de-activate **TIMER 1** and/or **TIMER 2**. Operation of the timer override function can also be performed or cancelled.



## SETTING THE CLOCK

When the unit is first plugged in and switched on at the power point the digital display will show flashing bars indicating that the time is required to be set. The appliance will operate without the time being set however timer function(s) will not operate. Set or change the time as follows:

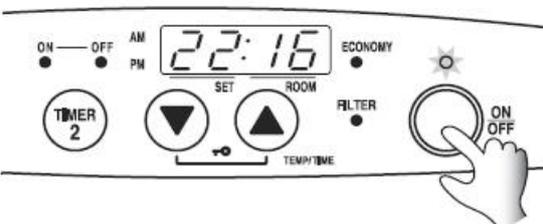
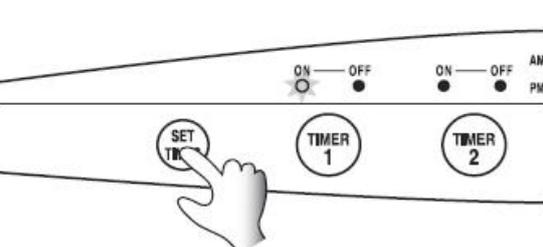
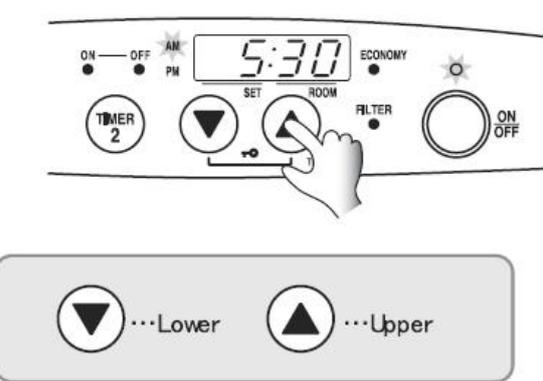
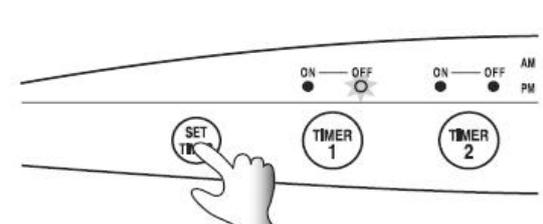
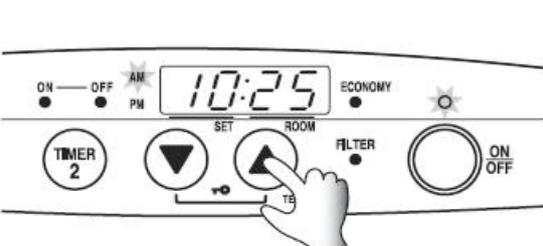
<p><b>1</b></p> 	<p>Press and release the <b>ON/OFF</b> button.</p> <ul style="list-style-type: none"> <li>• <b>ON/OFF</b> Light glows</li> <li>• The Set temp and Room temp are displayed on the screen.</li> </ul>
<p><b>2</b></p> 	<p>Press and release <b>SET TIMES</b> button</p> <ul style="list-style-type: none"> <li>• 12.00PM (or a previously entered time) will appear on the digital display.</li> </ul>
<p><b>3</b></p> 	<p>Adjust the time</p> <ul style="list-style-type: none"> <li>• To adjust the time of day press the ▼ down or ▲ up button until the correct time is reached.</li> </ul> <p>[Example] To set clock for 11:12am</p> <ol style="list-style-type: none"> <li>(1) Adjust the hour. Keep pressing the adjustment button until 11.00am is displayed.</li> <li>(2) Adjust the minute. Press the adjustment button again until 11:12am is displayed.</li> </ol>
<p><b>4</b></p> 	<p>Press and release the <b>SET TIMES</b> button five times to accept the setting.</p> <ul style="list-style-type: none"> <li>• The screen goes back to Set temperature and Room temperature mode.</li> </ul>
<p><b>5</b></p> 	<p>Press <b>ON/OFF</b> button to exit clock setting mode.</p> <ul style="list-style-type: none"> <li>• <b>ON/OFF</b> Light goes out.</li> <li>• Clock will be shown on the screen.</li> </ul>

### **Important Information:**

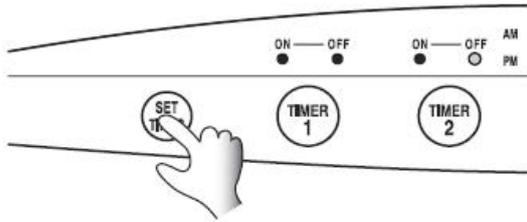
If the heater is unplugged or if there is a power failure please reset the clock.

## PROGRAMMING THE TIMER(S)

Two timers are available – **TIMER 1** and **TIMER 2**. Each **TIMER** can be programmed to turn the appliance **ON** and **OFF** at predetermined times. For a **TIMER** to operate the actual time must be set, the timers **ON** and **OFF** times must be programmed, the heaters **ON/OFF** button must be turned on and the **TIMER/S** must be turned on (selected). Before programming the **TIMER/S**, please ensure that the correct time is set

<p><b>1</b></p> 	<p>Press and release <b>ON/OFF</b> button to <b>turn the heater ON</b></p> <ul style="list-style-type: none"> <li>• <b>ON/OFF</b> Light glows.</li> <li>• The Set temp and Room temp are displayed on the screen.</li> </ul>
<p><b>2</b></p> 	<p>Press <b>SET TIMES</b> button twice to enter timer programming mode.</p> <ul style="list-style-type: none"> <li>• The <b>TIMER 1</b> “ON” LED light flashes and the <b>TIMER 1</b> ‘on time’ is displayed on the screen.</li> </ul>
<p><b>3</b></p> 	<p>Adjust <b>TIMER 1</b> “ON” or start up time as required.</p> <ul style="list-style-type: none"> <li>• To set the <b>TIMER 1</b> “ON” time press the ▼ down or ▲ up button until the correct time is reached.</li> </ul> <p>[Example] To set the <b>TIMER 1</b> “ON” time to 5:30AM.</p> <ol style="list-style-type: none"> <li>(1) Adjust the hour</li> <li>(2) Keep pressing the adjustment button until 5:00AM is displayed.</li> <li>(3) Adjust the minute.</li> <li>(4) Press the adjustment button until 5:30AM is displayed.</li> </ol>
<p><b>4</b></p> 	<p>Press and release the <b>SET TIMES</b> button once.</p> <ul style="list-style-type: none"> <li>• <b>TIMER 1</b> “OFF” LED light flashes and the <b>TIMER 1</b> ‘off time’ is displayed on the screen.</li> </ul>
<p><b>5</b></p> 	<p>Adjust <b>TIMER 1</b> “OFF” or shut off time as required.</p> <ul style="list-style-type: none"> <li>• To set the <b>TIMER 1</b> “OFF” time press the ▼ down or ▲ up button until the correct time is reached.</li> </ul> <p>Example] To set the <b>TIMER 1</b> “OFF” time to 10:25AM.</p> <ol style="list-style-type: none"> <li>(1) Adjust the hour</li> <li>(2) Keep pressing the adjustment button until 10:00AM is displayed.</li> <li>(3) Adjust the minute.</li> <li>(4) Press the adjustment button until 10:25AM is displayed.</li> </ol>

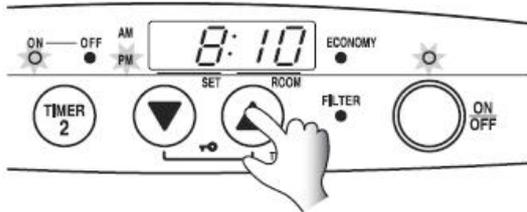
6



Press and release **SET TIMES** button once to Set **TIMER 2**

- **TIMER 2** "ON" LED light flashes and the **TIMER 2** 'on time' is displayed on the screen.

7



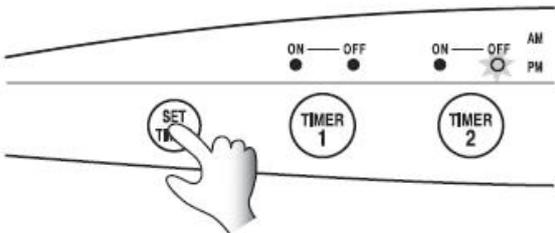
Adjust **TIMER 2** "ON" time as required

- To set the **TIMER 2** "ON" time press the ▼ down or ▲ up button until the correct time is reached.

Example] To set the **TIMER 2** "ON" time to 8:10PM.

- (1) Adjust the hour
- (2) Keep pressing the adjustment button until 8:00PM is displayed.
- (3) Adjust the minute.
- (4) Press the adjustment button until 8:10PM is displayed.

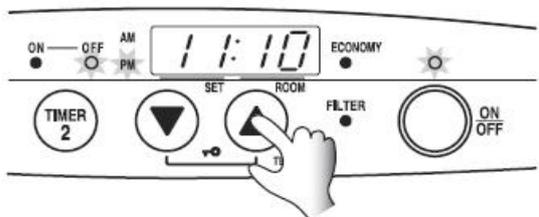
8



Press and release **SET TIMES** button once

- **TIMER 2** "OFF" LED light flashes and **TIMER 2** 'off time' is displayed on the screen.

9



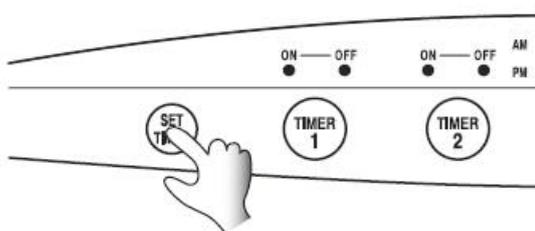
Adjust **TIMER 2** "OFF" time as required

- To set the **TIMER 2** "OFF" time press the ▼ down or ▲ up button until the correct time is reached.

Example] To set the **TIMER 2** "OFF" time to 11:10PM.

- (1) Adjust the hour
- (2) Keep pressing the adjustment button until 11:00PM is displayed.
- (3) Adjust the minute.
- (4) Press the adjustment button until 11:10PM is displayed.

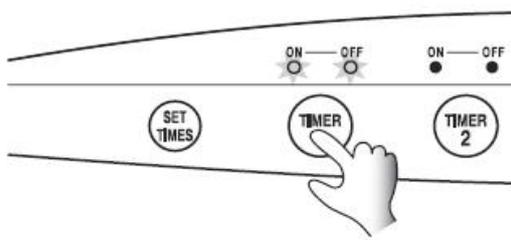
10



Press **SET TIMES** button to exit **SET TIMES** mode.

- The screen goes back to **SET** temperature and **ROOM** temperature mode.

# 11



To complete the process

- Press and release **TIMER 1**. The selected **TIMER 1 [ON] [OFF]** lights will glow.
- Repeat operation for **TIMER 2**. The selected **TIMER 2 [ON] [OFF]** lights will glow.
- Your **TIMER**'s have now been set.

Note: The **TIMER** operation is not set and will not function if the **TIMER 1** &/or **TIMER 2** "ON" and "OFF" lights are not glowing.

### **Important Information:**

1. The operation and shut down times for the timers are stored in memory. If the requested operation and shut down times for the timers are the same it is not necessary to set up anew.
2. If you program **TIMER/S** outside of the selected or programmed times the heater will shut off and automatically turn itself on once the 'on time, of the selected time is reached. When the 'off time' of the selected or programmed time is reached the heater will automatically turn itself off.
3. To deselect a timer, press and release the selected timer button (**TIMER 1** or **TIMER 2**). The relevant timers ON and OFF indication LED's will extinguish and the burner will turn on (as the **ON/OFF** button is in the ON position).
4. It should be noted that the **TIMER** times are not required to be programmed and the timer programming mode can be exited at any stage by pressing and releasing the **SET TIMES** button repeatedly until all timer ON and OFF indication LED's are extinguished.

## **PRE-HEAT FUNCTION**

This heater has a pre-heat function which operates the heater one hour prior to the programmed starting time of the timer. This function will warm the room before the programmed starting time of the timer. This is an automatic function and cannot be cancelled.

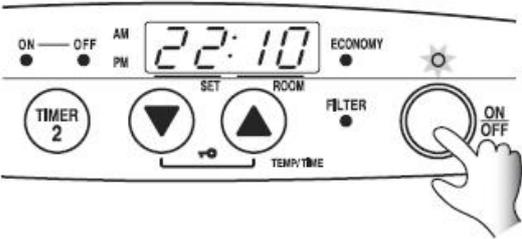
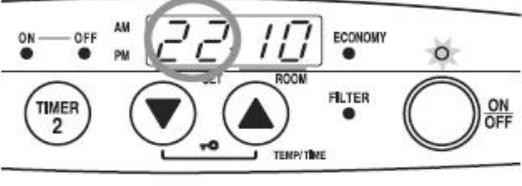
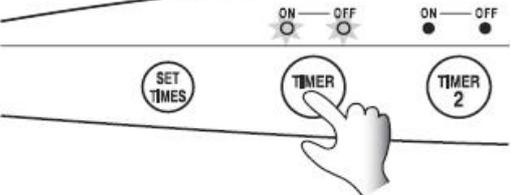
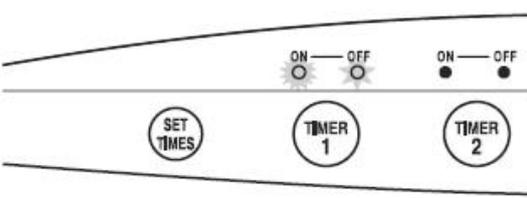
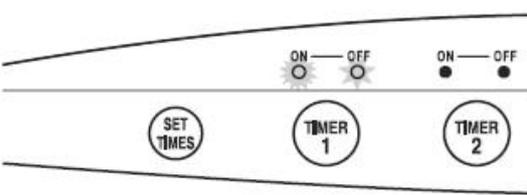
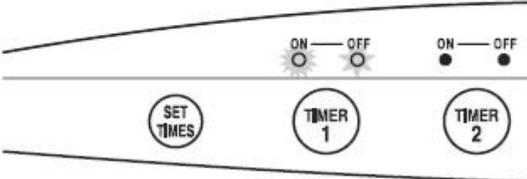
At one hour prior to the timers programmed ON time the unit will automatically turn on (pre-heat function); the timers ON LED will flash, the timers OFF LED will remain illuminated and the ON/OFF light will change from green to red upon successful ignition.

When the timers programmed ON time is reached the timers OFF LED will also start to flash.

When the timers programmed OFF time is reached the unit will turn off and the timers ON and OFF LED's will stop flashing but remain on solid (as the timer is selected). The ON/OFF LED will revert from red to green after the unit has extinguished.

## Operation of timers

This section provides timer operation via the unit, but it is possible to control the timers by using the remote control.

<p>1</p> 	<p>Please ensure that the main power is ON</p> <ul style="list-style-type: none"> <li>• While main power is ON. <b>ON/OFF</b> light glows green or glows red after ignition.</li> <li>• Please ensure the <b>TIMER's</b> are programmed as per previous section.</li> </ul>
<p>2</p> 	<p>Please ensure you take the following steps.</p> <ul style="list-style-type: none"> <li>• Is the gas valve fully opened?</li> <li>• Set temperature is adjusted to desired temperature?</li> <li>• There are no objects in front of the louvre to block the air outlet.</li> </ul>
<p>3</p> 	<p>Press the <b>TIMER/S</b> button/s.</p> <ul style="list-style-type: none"> <li>• You can select <b>TIMER 1</b> or <b>TIMER 2</b> or both by pressing the <b>TIMER 1</b> and/or <b>TIMER 2</b> buttons.</li> <li>• Selected <b>TIMER's</b> [ON] [OFF] lights will glow.</li> <li>• The <b>TIMER</b> operation is not set and will not function if the <b>TIMER's</b> "ON" and "OFF" lights are not glowing.</li> <li>• If during operation combustion shuts down then the <b>ON/OFF</b> light will glow green.</li> </ul>
<p>4</p> 	<p>Pre-heat function:</p> <p>[At one hour prior to the set time the heater will operate automatically – Example; If the ON time is set for 5.30AM then the heater will automatically start up at 4.30AM]</p> <ul style="list-style-type: none"> <li>• Selected <b>TIMER 1</b> or <b>TIMER 2</b> [ON] light flashes.</li> <li>• <b>ON/OFF</b> light turns from green to red.</li> </ul>
<p>5</p> 	<p>[Timer operation start time]</p> <ul style="list-style-type: none"> <li>• Selected <b>TIMER's</b> [ON] [OFF] light flashes.</li> </ul>
<p>6</p> 	<p>[Timer Operation shut down time]</p> <ul style="list-style-type: none"> <li>• Selected <b>TIMER's</b> [ON] [OFF] light glows.</li> <li>• Combustion shut down and the heater stands by for timer operation.</li> <li>• <b>ON/OFF</b> light glows green.</li> </ul>

### **Canceling the timers:**

- Press ON / OFF button or OFF switch on remote control or Press the TIMER button.
- To manually cancel the TIMER's press the TIMER buttons and lights will turn off.
- If the Child Lock function is activated, unlock and press the TIMER buttons to cancel the programmed timers.

### **Important Information:**

- For safety reasons the heater will operate at 26°C automatically if the Set temperature for the **TIMER** function is adjusted [H].
- If the electric cord is unplugged or in case of power failure, the timers will be cancelled so the selected timers will not operate. Please program the **TIMER**'s once again.
- You cannot overlap set times between the two timers. If the timers are overlapped the time that is set first will have priority and the timer set second will not be selected.
- The timer settings will continue to operate if they are not cancelled.

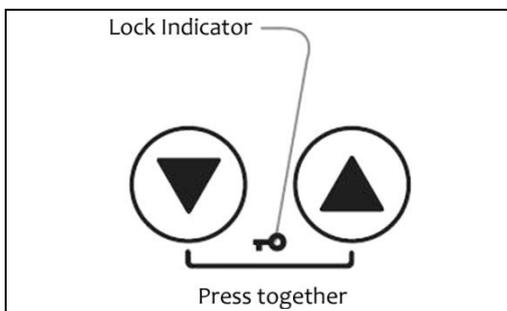
## **CHILD LOCK**

This heater has a **CHILD LOCK** function which prevents accidental operation as well as children interfering with the controls.

To activate child lock mode, press and hold down the ▼ and ▲ buttons simultaneously for three seconds then release both buttons. The child lock indicator (key symbol) will illuminate to indicate that the heater is in child lock mode.

To deactivate child lock mode, press and hold down the ▼ and ▲ buttons simultaneously for three seconds then release both buttons. The child lock indicator (key symbol) will extinguish to indicate that the heater is no longer in child lock mode.

Lock function is activated via the operational panel.



### **Important Information:**

If the heater is locked during operation it is only possible to press the ON/OFF button.

If child lock is activated when the heater is not operating no button on the control panel can be activated.

## Trouble Shooting

Check the items below before making a service call. You will be charged for attending to any condition or fault that is not related to manufacture or failure of a part.

CONDITION	SUGGESTED REMEDY
The heater does not operate (ON/OFF- operation light does not glow green)	Check that the power cord is plugged in and the power turned on
	Circuit breaker or fuse is blown
	Child lock is set
	Check that gas is turned on
	See that enough gas is left in LPG tank (in case of LPG appliance)
Does not ignite (ON/OFF - operation light does not glow)	Supply gas valve is not fully opened
	Air in gas hose
Heater turns off during operation	Air filter is clogged and filter lamp flashes. Please clean air filter.
	Check that hot air outlet is not blocked
Room does not become warm enough.	Set-temperature is set too low
	Window or door is opened
	Supply gas valve is not fully opened
	Room size does not suit the heater capacity
	Obstruction within 75cm in front of heater
Flame is extinguished during operation	Check that the room is well ventilated (Amount of oxygen inside the room may be insufficient)
Gas smell	The hose is not securely connected
	The hose is damaged
	Turn off heater and call a qualified person
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
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 ventilated room.
The fan keeps operating after the heater is switched off	It stops after the temperature inside the heater has cooled. No action required.
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.
The heater does not ignite when using first time in the season, when not used for a long time or when the hose is re-connected.	There is air in the gas hose
	Repeat ignition procedure until the heater ignites (the lamp glows red to purge the air in the hose)
Noisy during ignition or shutdown.	This is a normal operation noise.
The heater makes hissing noise.	This is a normal gas flow noise.
Does not ignite immediately after shutdown.	Please wait until the heater cools down. The heater will re-ignite automatically 20 seconds later.
Does not operate after is accidentally unplugged.	Please wait until the heater cools down. Try to restart after a few minutes.

## Error Codes

These heaters are fitted with self diagnostics electronics. Should a fault occur the heater will shut down and the fault with a pair of digits will be displayed in the display screen. Refer to the following table for probable cause and suggested remedy.

Check the items below before making a service call. You will be charged for attending to any condition or fault that is not related to manufacture or failure of a part.

Error code	Problem	Probable Cause	Suggested Remedy
03	Filter Damaged	Air Filter is damaged	Call for Service
		Gas Supply Volume is inadequate	Call for a qualified person.
05	Air Filter is Abnormal	Air filter is clogged	Clean Air Filter and operate again. If problem persists call for service.
11	Ignition Failure	Heater Gas Hose not connected properly	Connect heater gas hose correctly and operate again. If problem persists call for service
		Gas valve is not fully opened	Check gas valve is fully open and operate again. If problem persists call for service.
		The gas supply volume is inadequate	Call for a qualified person.
12	Flame Failure	Air filter is clogged	Clean Air Filter and operate again. If problem persists call for service.
		Gas valve is not fully opened	Check gas valve is fully open and operate again. If problem persists call for service.
		Room size less than specified room size requirements (incorrect heater sizing)	Open windows slightly or install ventilation points and operate again. If problem persists call for service.
		Insufficient ventilation (Oxygen Depletion Sensor has been activated)	Open windows slightly or install ventilation points and operate again. If problem persists call for service.
		The gas supply volume is inadequate	Call for a qualified person.
14	Thermo Switch Cut Off	Thermo switch is off	Call for service.
		Air Filter is clogged	Clean Air Filter and operate again. If problem persists call for service.
		Louvre is obstructed	Remove obstruction and operate again. If problem persists call for service.
16	Room Temperature Too High	Room size smaller than heater minimum room size requirements (incorrect heater sizing)	Contact your retailer
22	Anti-Tilt Switch Activated	Heater has tilted over or at an incline	Switch off heater and place on a flat surface.
31	Room Temperature Thermistor is Abnormal	Room temperature thermistor failure	Call for service.
33	Overheat Thermistor is Abnormal	Overheat Thermistor failure	Call for service.
62	Abnormal Fan Speed	Fan failure	Call for service.
71	Gas Proportional Valve is Abnormal	Gas valve failure	Call for service
72	Thermocouple Circuit is Abnormal	Thermocouple failure	Call for service
		False Flame detected	Call for service
73	Gas Type Circuit is Abnormal	Faulty or missing Gas Type Connector	Call for service.
76	Communication Error	Wiring is disconnected between operational PCB and Main PCB	Call for service.

**Paloma/Rheem Unflued Gas Convection Heater  
Warranty  
- Australia Only -**

**Convactor Heater Models:**

PJC-W18FRL &, PJC-W18FRN,  
PJC-W25FRL & PJC-W25FRN,  
PJC-S25FRL & PJC-S25FRN,  
PJC-C25FRL & PJC-C25FRN,  
RAC-W25FRL & RAC-W25FRN,  
RAC-S25FRL & RAC-S25FRN,  
RAC-C25FRL & RAC-C25FRN

**1. THE PALOMA/RHEEM 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 convection heater subject to the terms & conditions of the Paloma/Rheem 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](mailto: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 1<sup>st</sup> 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/RHEEM WARRANTY AND EXCLUSIONS TO IT**

1. The decision of whether to repair or replace a component or full replacement of the convection heater is at Paloma/Rheem's 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/Rheem 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 convection 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/Rheem 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/Rheem convection heater and any genuine Paloma/Rheem 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/Rheem's 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/RHEEM'S WARRANTY FOR THE PRODUCT DETAILED IN THIS DOCUMENT**

Rheem will repair or replace a faulty component of your convection 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 convection heater is installed in a single-family domestic dwelling)	Year 5	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 convection 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 convection 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 convection heater, a contact number, date of purchase (require proof of purchase) and serial number (from the rating label on the convection heater).
- 2) Rheem will arrange for the convection 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 convection 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/Rheem 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 (page 23) and error code guide (page 24).**
- (3) Contact Rheem Service.**

## Approval

**These Paloma/Rheem models have been certified by the Australian Gas Association under  
Certificate Number: 6540**

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

Revision Nr: 15-02397-00 ②  
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15023970002

**Rheem Australia Pty Ltd**  
ABN 21 098 823 511  
[www.paloma.com.au](http://www.paloma.com.au)

FOR SERVICE TELEPHONE  
131 031 Australia

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