



# All Pressure Hot Water Heaters



## Installation Instructions & Owners Guide

This water heater must be installed and serviced by a qualified person.  
Please leave this guide with the householder.

# IMPORTANT INFORMATION

**This Water Heater must be installed by a certified person or registered Plumber.**

The installation must comply with:

- The Building code G12
- AS/NZS 3000 Electrical Installations
- AS/NZS 3500 Plumbing and Drainage.

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More information is available online which can be accessed by using the QR code or by going to: [rheem.co.nz/support/manual-and-warranties](http://rheem.co.nz/support/manual-and-warranties)

Information covers:

- The comprehensive Rheem Warranty and limitations
- Information on your water heater so you can determine if it is operating correctly. This is important, if you call a plumber and the water heater is not at fault you will be liable for the call out and repair costs.
- Information on water quality which varies around the country and will impact how long your water heater lasts.

An electronic copy of the Owner's Guide and Installation Instructions is available upon request, or downloadable from [rheem.co.nz/support/manual-and-warranties](http://rheem.co.nz/support/manual-and-warranties) on the Rheem New Zealand website.



## PATENTS

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## TRADEMARKS

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Note: Every care has been taken to ensure the accuracy in preparation of this publication. No liability can be accepted for any consequences which may arise as a result of its application. Image used for illustrative purposes only, product will vary from that shown.



Install a Rheem®


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All specifications contained in this brochure are subject to change without notice.  
Please check the specifications are current at the time of ordering. All information is current at the time of publication (September 2025).

# Safety and Warnings

## SAFETY AND WARNINGS

- The water heater will operate until a water temperature of 60°C to 75°C is reached, depending upon the thermostat setting.
- As per G12 an approved temperature limiting device is required for supplying sanitary fittings to prevent scalding.
- This water heater is only intended to be operated by persons who have the experience or the knowledge and the capabilities to do so.
- This water heater is not intended to be operated by persons with reduced physical, sensory or mental capabilities i.e. the infirm, or by children. Children should be supervised to ensure they do not interfere with or play with or at the water heater.
- If the electrical conduit to the water heater is damaged, it must be replaced by a qualified person in order to avoid a hazard. Phone Rheem Service or their nearest Accredited Service Centre to arrange for an inspection.
- This water heater uses 220 V – 240 V a.c. power for the electrically operated components. The removal of the front cover will expose 220 V – 240 V a.c. wiring. It must only be removed by a qualified person. Do not operate the water heater with the cover removed.
- This water heater is supplied with a thermostat and over-temperature cut-out. These devices must not be tampered with or removed. The water heater must not be operated unless each of these devices is fitted and in working order.

 **DANGER:** The operation of the over-temperature cut-out on a thermostat indicates a possibly dangerous situation. If the over-temperature cut-out operates, it must not be reset, and the water heater must be serviced by a qualified person.


- This water heater is supplied with a combination temperature and pressure relief valve (TPR). This valve must be fitted and in working order if the water heater is operating at a pressure over 120kPa. If the water heater operates below 120kPa, a TPR valve may not be required, provided the system meets other safety criteria to comply with AS/NZS 3500.4 and G12.
- For continued safety of this water heater, it must be installed, operated and maintained in accordance with the Owner's Guide and Installation Instructions.
- Do not modify this water heater.

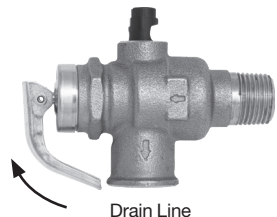
## TEMPERATURE AND PRESSURE RELIEF VALVE

This water heater incorporates a temperature and pressure relief valve which must be installed if the water heater is operating at a pressure over 120kPa.

Operate the easing lever on the temperature pressure relief valve and expansion control valve once every six (6) months to clear any deposits and ensure the valve and its drain line are not blocked.

It is normal for water to drip from the TPR valve or cold water expansion valve during each heating period and must be left open to atmosphere.

 **DANGER:** Failure to operate the easing lever on the relief valve once every six (6) months may result in the water heater cylinder failing, or under certain circumstances, exploding.



**Lift until water flows from the drain line – lower gently**


# Installation

Please take careful notice of the advice given as Rheem New Zealand Limited will not be liable for any loss or damage suffered as a result of the incorrect installation of the water heater, or any failure to check the capability of the electrical supply wiring to the water heater.

- This water heater is suitable for indoor installation only.
- The water heater must be installed in a location with easy access for maintenance and servicing without use of a ladder.
- The water heater needs to be located close to the main hot water usage point as per the building code.
- The water heater must be installed in a Safe Tray as required by the building code G12. Rheem will not be liable for any consequential damage.
- The water heater must have seismic restraints that meet the requirements of the building code G12.
- A cold water expansion valve must be fitted to the cold water line as per the Building code G12.
- A pressure limiting valve must be fitted if the water supply pressure could exceed the cold water expansion valve setting.
- This water heater has three inlets make sure unused inlets are plugged.

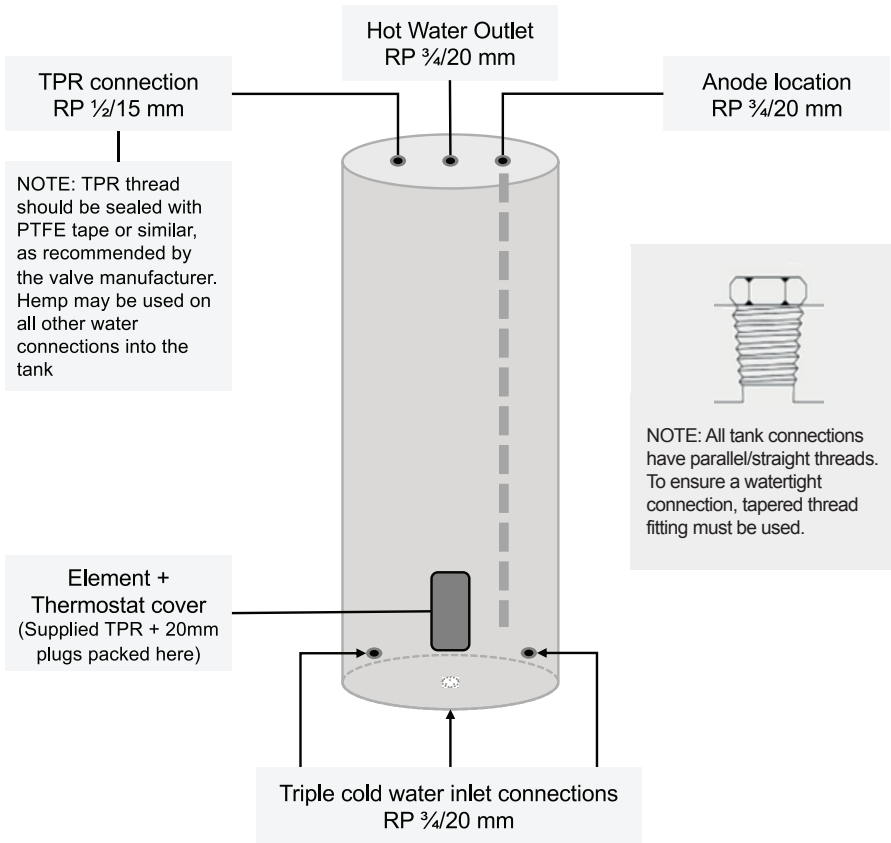
## TEMPERATURE AND PRESSURE RELIEF VALVE

- Ensure the probe has not been bent and fit with PTFE thread tape.
- Do not use a wrench on the valve body – use the spanner flats provided.




 **WARNING:** A relief valve drain must be left open to atmosphere and be installed in a continuously downward direction.

In locations where water pipes are prone to freezing, the relief valve drain line must be insulated and not exceed 300 mm in length before discharging into a tundish through an air gap.

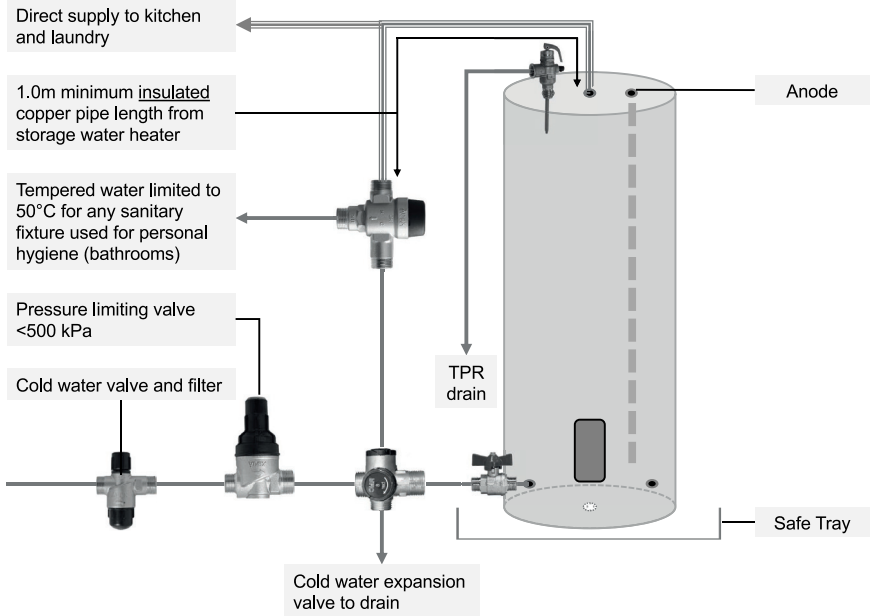
The relief valve drain must be in copper.



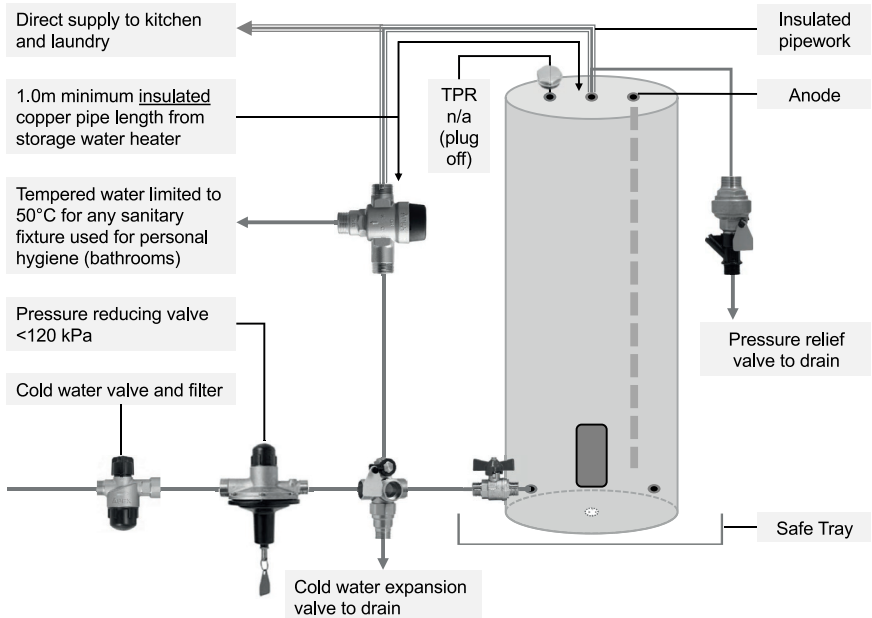
Note: Clearance around the water heater is required for servicing. (Typical clearances are: TPR valve removal 135mm, Element Cover and Element Removal 400 mm). Also, you must be able to read the information on the rating plate and if possible, leave headroom of one water heater length so the anode can be inspected or replaced.

		
<p>20mm plug for side inlet (do not use in bottom inlet)</p>	<p>20mm plug for bottom or side inlet (recessed to prevent rocking)</p>	<p>15mm plug for TPR fitting Warning: only use for LP installations under 120kPa</p>

## MAINS PRESSURE INSTALLATION



## LOW PRESSURE INSTALLATION



# Connections - Electrical

The electrical installation must be completed in accordance with AS/NZS 3000 by a suitably qualified person.


A flexible 20 mm conduit is required for the electrical cable to the water heater this is to be connected to the unit with a 20 mm plain to screw adaptor. Connect the power supply wires directly to the terminal block and earth tab connection, ensuring there are no excess wire loops inside the front cover.

For details, refer to the wiring diagram on the inside of the element cover.

**A separate heating element earth wire is not required because the element earths by the thread of the element boss or the flange being in contact with the element socket.**

# Commissioning

## TO FILL AND TURN ON THE WATER HEATER

 **WARNING:** The power supply to the water heater must not be switched on until the water heater is filled with water and the appropriate tests carried out as required in AS/NZS 3000

If the element is powered even briefly prior to filling the water heater the element will be damaged and its life significantly reduced.

- Open all of the hot water taps in the house (don't forget the shower). Open the cold water isolation valve fully to the water heater to force the air out of the taps. As water flows freely from each tap, close it. Check the pipe-work for leaks.
- Switch on the electrical supply at the isolating switch to the water heater.


# Draining the Water Heater

- Switch off the electrical supply at the isolation switch to the water heater.
- Close the cold water isolation valve.
- Operate the relief valve easing lever to release the pressure in the water heater.
- Drain the water heater through the drain valve or plug.
- Undo the top outlet union or operate the relief valve easing lever again to let air into the water heater and allow the water to drain.

# Maintenance

## MINOR MAINTENANCE EVERY SIX MONTHS

- Operate the easing lever on the temperature pressure relief valve. **It is very important the lever is raised and lowered gently.**

 **WARNING:** Water discharged from the temperature pressure relief valve drain line will be hot. Exercise care to avoid any splashing of water by standing clear of the drain line's point of discharge when operating the valve's easing lever.

- Manually operate the expansion control valve (if fitted). **It is very important the valve is opened and closed gently.**
- Check the drain line from the safe tray is not blocked.

## MAJOR SERVICE EVERY FIVE YEARS

**⚠ WARNING:** Servicing of a water heater must only be carried out by qualified personnel. Phone Rheem Service or their nearest Accredited Service Centre.

The major service includes the following actions:

- Replace the temperature pressure relief valve (if fitted).
- Inspect and flush the expansion control valve (if fitted). If required, replace the valve.
- Inspect and if required, replace the anode.  
If the anode is not replaced, it should be replaced within five (5) years of this service.
- Check the electric heating unit for excessive calcium build-up or corrosion and replace if necessary.
- Visually check the unit for any potential problems including connections.
- Check the drain line from the safe tray (if one is installed) is not blocked.

## PRODUCT SPECIFICATIONS

Maximum working pressure	850 kPa
Minimum inlet pressure (To achieve stated flow rates)	60 kPa
Maximum building hot water pressure (As AS/NZS 3500.4)	500 kPa
Water triple inlet connections (left, right, bottom)	RP ¾/20 mm
Water outlet connection	RP ¾/20 mm
Temperature Pressure Relief Valve (TPR) connection	RP ½/15 mm
Temperature Pressure Relief Valve (TPR) rating	850 kPa 10 kW

## ELECTRICAL (element rating is shown on the water heater)

Electrical connection	230 VAC 50 Hz
Element rating 3.0 kW	13.1 Amps
Recovery rate on 50°C rise	51 L/hr
Element rating 2.0 kW	8.7 Amps
Recovery rate on 50°C rise	34 L/hr
Thermostat min setting	60°C
Thermostat max setting	75°C

## WATER SUPPLY CHEMISTRY

Saturation index (indicating corrosive or scaling properties)	-1.0 to +0.8
Total Dissolved Solids (TDS)	Less than 2500 mg/L
Factory fitted zinc/magnesium anode suitable for TDS	40 to 600 mg/L
Optional aluminium anode suitable for TDS	600 to 2500 mg/L
Optional magnesium anode suitable for TDS	Less than 40 mg/L

## WARRANTY

Domestic Use	Parts/components parts and labour	1 Year
	Cylinder/tank labour	5 Years
	Cylinder/tank replacement	10 Years
Non-Domestic Use	Parts/components parts and labour	1 Year
	Cylinder/tank labour	1 Year
	Cylinder/tank replacement	3 Years

See [rheem.co.nz/support/manual-and-warranties](http://rheem.co.nz/support/manual-and-warranties) for more details

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