

# *Owner's Guide and Installation Instructions*



625275




635275

*Gas Heavy Duty  
Water Heater  
275 litre models*

**EVERHOT**

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

 **Warning:** Upon completion of the installation and commissioning of the water heater, leave this guide with the householder or responsible officer. **DO NOT** leave this guide inside of the cover of the water heater, as it may interfere with the safe operation of the water heater or ignite when the water heater is turned on.

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An electronic copy of these Owner's Guide and Installation Instructions is available upon request.

**PATENTS**

This water heater may be protected by one or more patents or registered designs in the name of Rheem Australia Pty Ltd.

**TRADEMARKS**

® Registered trademark of Rheem Australia Pty Ltd.  
™ Trademark of Rheem Australia Pty Ltd

**Note:** Every care has been taken to ensure accuracy in preparation of this publication. No liability can be accepted for any consequences, which may arise as a result of its application.

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## RESPONSIBLE OFFICER

This booklet contains important information about your new water heater, including terms of the Everhot warranty.

We recommend you read pages 7 to 20,  
and the terms of the Everhot warranty on pages 4 to 6.

The other pages are intended for the installer but may be of interest.

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**RHEEM AUSTRALIA PTY LTD**, A.B.N. 21 098 823 511, [www.rheem.com.au](http://www.rheem.com.au)  
For Service Telephone 131 031 AUSTRALIA

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# EVERHOT HEAVY DUTY GAS MAINS PRESSURE WATER HEATER WARRANTY - AUSTRALIA ONLY

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## GAS WATER HEATER 625, 635 SERIES 275 MODELS

### 1. THE EVERHOT WARRANTY – GENERAL

- 1.1 This warranty is given by Rheem Australia Pty Limited ABN 21 098 823 511 of 1 Alan Street, Rydalmere New South Wales.
- 1.2 Rheem offer a trained and qualified national service network who will repair or replace components at the address of the water heater subject to the terms of the Everhot warranty. Rheem Service, in addition can provide preventative maintenance and advice on the operation of your water heater. The Rheem Service contact number is 131031, with Contact Centre personnel available 24 hours, 7 days a week to take your call and if necessary to arrange a service call for during normal working hours Monday to Friday (hours subject to change).
- 1.3 For details about this warranty, you can contact us on 131031 or by email at [warrantyenquiry@rheem.com.au](mailto:warrantyenquiry@rheem.com.au) (not for service bookings).
- 1.4 The terms of this warranty and what is covered by it are set out in sections 2 and 3 and apply to water heaters manufactured from the 1<sup>st</sup> May 2020.
- 1.5 If a subsequent version of this warranty is published, the terms of that warranty and what is covered by it will apply to water heaters manufactured after the date specified in the subsequent version.

### 2. TERMS OF THE EVERHOT WARRANTY AND EXCLUSIONS TO IT

- 2.1 The decision of whether to repair or replace a faulty component is at Rheem's sole discretion.
- 2.2 If you require a call out and we find that the fault is not covered by the Everhot warranty, you are responsible for our standard call out charge. If you wish to have the relevant component repaired or replaced by Rheem, that service will be at your cost.
- 2.3 Where a failed component or cylinder is replaced under this warranty, the balance of the original warranty period will remain effective. The replacement does not carry a new Everhot warranty.
- 2.4 Where the water heater is installed outside the boundaries of a metropolitan area as defined by Rheem or further than 25 km from either a regional Rheem 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.
- 2.5 Where the water heater is installed in a position that does not allow safe or ready access, the cost of that access, including the cost of additional materials handling and/or safety equipment, shall be the owner's responsibility. In other words, the cost of dismantling or removing cupboards, doors or walls and the cost of any special equipment to bring the water heater to floor or ground level or to a serviceable position is not covered by this warranty.
- 2.6 This warranty only applies to the original and genuine Everhot water heater in its original installed location and any genuine Everhot replacement parts.
- 2.7 The Everhot warranty does not cover faults that are a result of:
  - a) Accidental damage to the water heater 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 water heater.
  - c) Installation not in accordance with the Owner's Guide and Installation Instructions or with relevant statutory and local requirements in the State or Territory in which the water heater is installed.
  - d) Connection at any time to a water supply that does not comply with the water supply guidelines as outlined in the Owner's Guide and Installation Instructions.

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## EVERHOT HEAVY DUTY GAS MAINS PRESSURE WATER HEATER WARRANTY - AUSTRALIA ONLY

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### GAS WATER HEATER 625, 635 SERIES 275 MODELS

- e) Repairs, attempts to repair or modifications to the water heater by a person other than Rheem Service or a Rheem Accredited Service Agent.
  - f) Faulty plumbing or faulty gas or power supply.
  - g) Failure to maintain the water heater in accordance with the Owner's Guide and Installation Instructions.
  - h) Transport damage.
  - i) Fair wear and tear from adverse conditions (for example, corrosion).
  - j) Cosmetic defects.
- 2.8 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 due to leakage from the water heater, or due to leakage from fittings and/ or pipe work of metal, plastic or other materials caused by water temperature, workmanship or other modes of failure.
- 2.9 If the water heater is not sized to supply the hot water demand in accordance with the guidelines in the Everhot water heater literature, any resultant fault will not be covered by the Everhot warranty.

### 3. WHAT IS COVERED BY THE EVERHOT WARRANTY FOR THE WATER HEATERS DETAILED IN THIS DOCUMENT

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

What components are covered	The period from the date of installation in which the fault must appear in order to be covered	What coverage you receive
All components	Year 1	Repair and/or replacement of the faulty component, free of charge, including labour.
The cylinder (if the water heater is installed in a single-family domestic dwelling with a thermostat setting below 76°C)	Years 2 to 5	Repair and / or replacement of the cylinder, free of charge, including labour.
	Years 6 to 10	Replacement cylinder, free of charge. Installation and repair labour costs are the responsibility of the owner.
The cylinder (if the water heater is <u>not</u> installed in a single-family domestic dwelling with a thermostat setting below 76°C)	Years 2 to 5	Replacement cylinder, free of charge. Installation and repair labour costs are the responsibility of the owner.

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# EVERHOT HEAVY DUTY GAS MAINS PRESSURE WATER HEATER WARRANTY - AUSTRALIA ONLY

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## GAS WATER HEATER 625, 635 SERIES 275 MODELS

### 4. ENTITLEMENT TO MAKE A CLAIM UNDER THIS WARRANTY

- 4.1 To be entitled to make a claim under this warranty you need to:
- a) Be the owner of the water 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.
- 4.2 You are **not** entitled to make a claim under this warranty if your water heater:
- a) Does not have its original serial numbers or rating labels.
  - b) Is not installed in Australia.

### 5. HOW TO MAKE A CLAIM UNDER THIS WARRANTY

- 5.1 If you wish to make a claim under this warranty, you need to:
- a) Contact Rheem on 131031 and provide owner's details, address of the water heater, a contact number and date of installation of the water heater or if that's unavailable, the date of manufacture and serial number (from the rating label on the water heater).
  - b) Rheem will arrange for the water heater to be tested and assessed on-site.
  - c) If Rheem determines that you have a valid warranty claim, Rheem will repair or replace the water heater in accordance with this warranty.
- 5.2 Any expenses incurred in the making of a claim under this warranty will be borne by you.

### 6. THE AUSTRALIAN CONSUMER LAW

- 6.1 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 of acceptable quality and the failure does not amount to a major failure.
- 6.2 The Everhot warranty (set out above) is in addition to any rights and remedies that you may have under the *Australian Consumer Law*.

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## SAFETY, WARNINGS, INSTALLATION NOTES

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It is important you read the following safety and warnings information.

### SAFETY AND WARNINGS

- 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 the water heater.
- The water heater is fitted with a power supply cord and plug and must be plugged into a weatherproof electrical outlet if installed outdoors. Take care not to touch the power plug with wet hands.
- If the power supply cord or plug or electrical conduit is damaged, it must be replaced by a qualified person in order to avoid a hazard. The power supply cord and plug must be replaced with a genuine replacement part available from Rheem. Phone Rheem Service or their nearest Accredited Service Agent to arrange for an inspection.
- The water heater uses 220 V – 240 V a.c. electrical power for operation of the control systems and the electrically operated components. The removal of the access cover(s) will expose 220 V – 240 V a.c. wiring. They must only be removed by a qualified person.
- This water heater is supplied with a thermostat, an over-temperature cut-out, and a combination temperature pressure relief valve. These devices must not be tampered with or removed. The water heater must not be operated unless each of these devices is fitted and is in working order.

**The Everhot warranty may not cover faults if safety devices or the relief valve are tampered with or if the installation is not in accordance with these instructions.**

- **DANGER:** The operation of the over-temperature cut-out on the 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.
- The water heater will operate until a water temperature of 60°C to 82°C is reached, depending upon the setting of the thermostat.

Refer to “**How Hot Should The Water Be?**” on page 10.

- The lever on the temperature pressure relief valve and expansion control valve (if fitted) requires to be operated every six (6) months to clear any deposits and to ensure the valve and its drain line are not blocked.

Refer to “**Relief Valves**” on page 8 and “**Minor Maintenance Every Six Months**” on page 13.

- Do not spray **aerosols** in the vicinity of this water heater while it is in operation. Propellants and gases in many aerosol sprays contain hydrocarbons which are flammable. Gases from aerosol sprays may also become corrosive when drawn into a flame.
- Do not use or store **flammable materials** in or near this water heater. Flammable liquids (such as petrol), combustible materials (such as newspapers) and similar articles must be kept well away from the water heater and the draught diverter or flue terminal.
- Do not store **swimming pool chemicals, household cleaners**, etc., near the water heater.
- Do not place articles on or against this water heater, or in contact with the draught diverter or flue terminal. Ensure the draught diverter or flue terminal is not obstructed in any way at any time.



- For continued safety of this water heater it must be installed, operated and maintained in accordance with the Owner's Guide and Installation Instructions.
- Servicing of the water heater must only be carried out by qualified personnel. Phone Rheem Service or their nearest Accredited Service Agent.
- Only a person qualified to install or service a water heater can drain the water heater, if this is required.
- Do not modify this water heater.

## RELIEF VALVES

### Temperature Pressure Relief Valve

This water heater incorporates a temperature pressure relief valve located near the top of the water heater. This valve is essential for the water heater's safe operation.

It is possible for the valve to discharge a quantity of water through the drain line during each heating period. This quantity should be equal to approximately 1/50 of the hot water used, as water expands by this volume when heated.

### Expansion Control Valve

In many areas, including South Australia, Western Australia and scaling water areas, it is mandatory an expansion control valve is fitted to the cold water line to the water heater.

The expansion control valve will discharge the quantity of water from its drain line during the heating period instead of the temperature pressure relief valve as it has a lower pressure rating.

### Valve Operation

Continuous leakage of water from either valve and its drain line may indicate a problem with the water heater. Refer to **"Temperature Pressure Relief Valve or Expansion Control Valve Running"** on page 19.

**⚠ Warning:** Never block the outlet of either valve or their drain lines for any reason. 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.

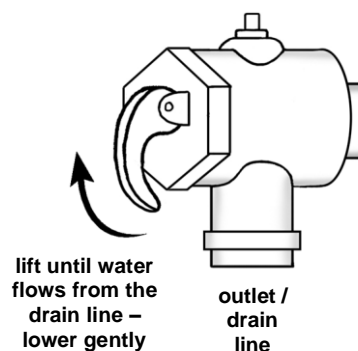
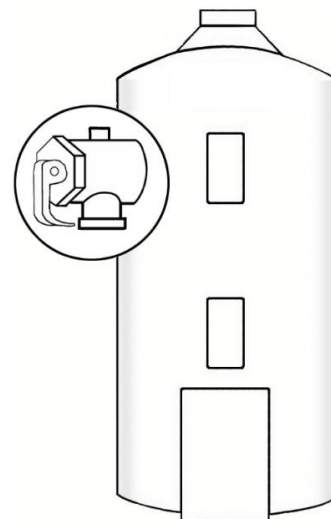
Operate the easing lever on the temperature pressure relief valve and expansion control valve once every six (6) months to clear any deposits and ensure the valve and its drain line are not blocked. **It is very important the lever is raised and lowered gently.** Refer to **"Minor Maintenance Every Six Months"** on page 13.

**⚠ 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 either valve's easing lever.

**⚠ Warning:** Failure to operate the easing lever on the relief valve once every six (6) months may result in the water heater cylinder failing.

If water does not flow freely from the drain line when the lever is lifted, then the water heater must be checked. Phone Rheem Service or their nearest Accredited Service Agent to arrange for an inspection.

The temperature pressure relief valve should be replaced at intervals not exceeding five (5) years and the expansion control valve should be checked for performance or replaced at intervals not exceeding five (5) years. The checking of the valves performance or replacement should occur more frequently in areas where there is a high incidence of water deposits. Refer to **"Water Supplies"** on page 15.





**INSTALLATION NOTES**

This water heater must be installed:

- by a qualified person,
- in accordance with the installation instructions,
- in compliance with the Plumbing Code of Australia (PCA) and Plumbing Standard AS/NZS 3500.4,
  - This 625275 water heater is designed for indoor installation and the 635275 water heater is designed for outdoor installation.
  - This water heater is intended to be permanently connected to the water mains and not connected by a hose-set. A braided flexible hose or semi-flexible connector may be used for connection to the water heater, where permitted by AS/NZS 3500.4.
- in compliance with the Gas Installations Standard AS/NZS 5601.1,
- in compliance with the Australian / New Zealand Wiring Rules AS/NZS 3000,
  - Should it be necessary to provide permanent wiring, isolation switches must be installed in the electrical circuit to the water heater in accordance with the Wiring Rules, so the water heater can be switched off.
  - The power supply wires are to be directly connected to the terminal block and earth tab connection, with no excess wire loops inside the front cover. The temperature rating of the power supply wires insulation must suit this application, or the wiring protected by insulating sleeving with an appropriate temperature rating if it can make contact with the internal storage cylinder. The temperature of the internal storage cylinder can reach 82°C under normal operation.
- in compliance with all local codes and regulatory authority requirements.

Installation and commissioning requirements and details for the installing plumber and licensed electrical worker are contained on [pages 21 to 46](#).

**Mains pressure water supply**

The water heater is designed to operate at mains pressure by connecting directly to the mains water supply.

The water heater is supplied with a temperature pressure relief valve with a pressure rating of 1000 kPa. If an expansion control valve has been installed on the cold water line to the water heater, this should have a pressure rating of 850 kPa.

The maximum mains water supply pressure for the water heater is 800 kPa if an expansion control valve is not installed, or 680 kPa if an expansion control valve is installed. If the mains supply pressure in your area exceeds these values, a pressure limiting valve must be installed.

The supply pressure should be greater than 350 kPa for true mains pressure operation to be achieved.

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## ABOUT YOUR WATER HEATER

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### WATER HEATER APPLICATION

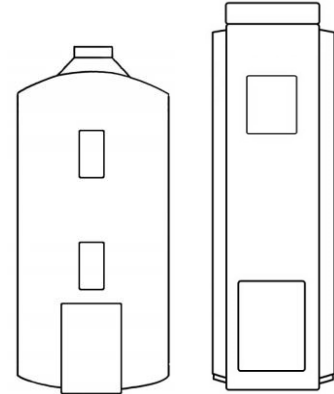
This water heater is designed for the purpose of heating potable water. Its use in an application other than this may shorten its life.

### MODEL TYPE

The Everhot® Heavy Duty Gas water heater model you have chosen is a 275 litre indoor or outdoor quick recovery water heater.

Water is stored in a vitreous enamel lined steel cylinder and heated by a gas burner located under the cylinder. The heat produced by the burner is transferred to the water through the base of the cylinder and through the wall of a flue pipe which passes through the centre of the cylinder. A flue baffle in this flue ensures the efficiency of the water heater is correct. The gas supply to the burner is controlled by the thermostat so the water is heated to a constant temperature.

Automatic safety controls are fitted to the water heater to provide safe and efficient operation.



### HOW HOT SHOULD THE WATER BE?

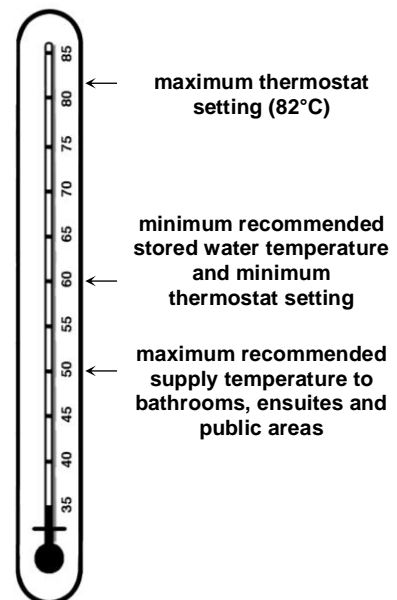
The water heater has a maximum temperature setting of 82°C and a minimum temperature setting of 60°C. Refer to “**Temperature Adjustment**” on page 11.

For applications requiring sanitising temperatures, the thermostat should be set at 82°C. **Note:** For temperatures above 80°C, a circulator must be installed.

To meet the requirements of the National Plumbing Standard the temperature of the stored water must not be below 60°C.

If this water heater is installed as an in-series booster water heater as part of a commercial solar water heating system, to maximise solar contribution it is recommended the thermostat is set at 60°C, unless sanitising temperatures are required.

**Note:** AS 3498 requires that a water heater provides the means to inhibit the growth of Legionella bacteria in potable water. This water heater can satisfy this AS 3498 requirement provided it is operating and the thermostat setting is 60°C or higher, including when it is used as an in-series booster water heater for a solar water heater.



### HOTTER WATER INCREASES THE RISK OF SCALD INJURY

This water heater can deliver hot water at a temperature up to 82°C depending upon its thermostat setting. This temperature is sufficiently hot to cause severe scalding. Water at this temperature may have been plumbed to fixtures where water hotter than 50°C is allowed, such as a kitchen, laundry and other areas requiring sanitising temperatures.

Check the water temperature before use, such as when entering a shower or filling a bath or basin, to ensure it is suitable for the application and will not cause scald injury.

We recommend and it may also be required by regulations that an approved temperature limiting device be fitted into the hot water pipe work to bathrooms, ensuites, public amenities or other ablution areas when this water heater is installed. This will keep the water temperature below the maximum permitted by the Plumbing Code of Australia to these areas. The risk of scald injury will be reduced and still allow hotter water to the kitchen, laundry and other areas requiring sanitising temperatures.

**TEMPERATURE ADJUSTMENT**

The water heater features an electronic adjustable thermostat. We recommend only a licensed tradesperson make any temperature adjustments. We advise the thermostat be adjusted to the lowest temperature setting that meets your needs, especially if there are young children or elderly people in the premises. Refer to **“Hotter Water Increases the Risk of Scald Injury”** on page 10.

**ELECTRONIC THERMOSTAT**

The thermostat automatically operates the gas control by switching its power on and off, so a constant temperature is maintained. The thermostat is mounted externally on the water heater and the protective over-temperature cut-out is mounted inside the lower front cover of the water heater.

There is no need to switch the water heater off when it is not in use. The thermostat is fully automatic and only allows the gas control to open when the burner requires gas for heating. The thermostat displays the current water temperature. To adjust the thermostat settings refer to **“Temperature Control”** on page 45.

**HOT SURFACE IGNITION**

The water heater incorporates an automatic burner ignition system. A hot surface igniter (HSI) probe automatically heats up when the thermostat registers heating of the water is required. When the HSI probe is fully energised, the gas valve opens allowing gas to the burner which in turn is ignited by the HSI probe.

**PRECAUTIONS**

Under certain installation conditions where damage to property can occur in the event of the water heater leaking, AS/NZS 3500.4 requires the water heater be installed in a safe tray. Construction, installation and draining of a safe tray must comply with AS/NZS 3500.4 and all local codes and regulatory authority requirements. Alternatively, where additional leak protection is required for installations not defined by AS/NZS 3500.4, a suitable bund may be constructed to surround the water heater in lieu of using a safe tray.

The water heater must be maintained in accordance with the Owner's Guide and Installation Instructions. Refer to **“Maintenance Requirements”** on page 13 and to **“Anode Inspection and Replacement”** on page 16.

If this water heater is to be used where an uninterrupted hot water supply is necessary for your application or business you should ensure that you have back-up redundancy within the hot water system design. This should ensure the continuity of hot water supply in the event that this water heater were to become inoperable for any reason. We recommend you seek advice from your plumber or specifier about your needs and building back-up redundancy into your hot water supply system.

**TO TURN OFF THE WATER HEATER**

If it is necessary to turn off the water heater:

- Switch off the electrical supply at the isolating switch to the water heater(s).
- Close the gas isolation valve(s) at the inlet to the gas control(s).
- Close the cold water isolation valve on the cold water line to the water heater(s) to shut down the entire system, or;
- Close the isolation valves on the cold and hot water branches to shut down an individual water heater in a bank.

**TO TURN ON THE WATER HEATER**

- Open the isolation valves fully on the cold and hot water branches to the water heater(s) installed in a bank.
- Open the cold water isolation valve on the cold water line to the water heater(s). Air will be forced out of the taps.
- Open the gas isolation valve(s) fully at the inlets to the gas control(s).
- Switch on the electrical supply at the isolating switch to the water heater(s).

### **VICTORIAN CUSTOMERS**

Notice to Victorian Customers from the Victorian Building Authority. This water heater 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 the 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 water heater and ask for your Compliance Certificate.

### **DOES THE WATER CHEMISTRY AFFECT THE WATER HEATER?**

The water heater is suitable for most public water supplies, however some water chemistries may have detrimental effects on the water heater, its components and fittings. Refer to [“Water Supplies”](#) on page 15.

If you are in a known harsh water area or you are not sure of your water chemistry, have your water checked against the conditions [described on pages 15 to 17](#).

### **HOW LONG WILL THE WATER HEATER LAST?**

The water heater is supported by a manufacturer’s warranty ([refer to page 4](#)). There are a number of factors that will affect the length of service the water heater will provide. These include but are not limited to the water chemistry, the water pressure, the water temperature (inlet and outlet) and the water usage pattern. Refer to [“Precautions”](#) on page 11.

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## MAINTENANCE REQUIREMENTS

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### MINOR MAINTENANCE EVERY SIX MONTHS

It is recommended minor maintenance be performed every six (6) months. Minor maintenance can be performed by a responsible officer.

The minor maintenance includes:

- Operate the easing lever on the temperature pressure relief valve. **It is very important the lever is raised and lowered gently.** Refer to “Relief Valves” on page 8.

**⚠ 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.

- Operate the easing lever on the expansion control valve (if fitted). **It is very important the lever is raised and lowered gently.** Refer to “Relief Valves” on page 8.
- Check the drain line from the safe tray (if one is installed) is not blocked.

### SERVICE EVERY TWELVE MONTHS

For safe and efficient operation, it is recommended a service be conducted on the water heater every twelve (12) months.

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

**Note:** The service and routine replacement of any components, if required, are not included in the Everhot warranty. A charge will be made for this work. Only genuine replacement parts should be used on this water heater.

The annual service includes the following actions:

- Inspect and flush the temperature pressure relief valve.
- Inspect and flush the expansion control valve (if fitted).
- Check and if necessary adjust the inlet gas pressure.
- Check the operation of and clean the main burner.
- Visually check the unit for any potential problems.
- Inspect all connections.
- Check the drain line from the safe tray (if one is installed) is not blocked.

**Note:** The water heater may need to be drained during this service. After the completion of the service, the water heater will take some time to reheat the water. Hot water may not be available for a while.

### MAJOR SERVICE EVERY FIVE YEARS

It is recommended a major service be conducted on the water heater every five (5) years.

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

**Note:** The major service and routine replacement of any components, such as the anode and relief valve(s), are not included in the Everhot warranty. A charge will be made for this work. Only genuine replacement parts should be used on this water heater.

The major service includes the following actions:

- Replace the temperature pressure relief valve.
- Inspect and flush the expansion control valve (if fitted). If required, replace the valve.
- Inspect and if required, replace the anodes.

If the anodes are not replaced, they should be replaced within three (3) years of this service (refer to **"Anode Inspection and Replacement"** on page 16).

- Check and if necessary adjust the inlet gas pressure.
- Check the operation of and clean the main burner.
- Drain and flush the water heater if required.

In commercial applications where large volumes of hot water are used, sediment may build-up on the bottom of the cylinder and reduce the heating efficiency. In extreme cases, particularly in areas of high water sediment, draining and flushing out may be necessary.

- Visually check the unit for any potential problems.
- Inspect all connections.
- Check the drain line from the safe tray (if one is installed) is not blocked.

**Note:** The water heater may need to be drained during this service. After the completion of the service, the water heater will take some time to reheat the water. Hot water may not be available for a while.

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## WATER SUPPLIES

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**This water heater must be installed in accordance with this advice to be covered by the Everhot warranty.**

This water heater is manufactured to suit the water conditions of most public reticulated water supplies. However, there are some known water chemistries which can have detrimental effects on the water heater and its operation and / or life expectancy. If you are unsure of your water chemistry, you may be able to obtain information from your local water supply authority. This water heater should only be connected to a water supply which complies with these guidelines for the Everhot warranty to apply.

### CHANGE OF WATER SUPPLY

The changing or alternating from one water supply to another can have a detrimental effect on the operation and / or life expectation of a water heater cylinder and a temperature pressure relief valve.

Where there is a changeover from one water supply to another, e.g. a rainwater tank supply, bore water supply, desalinated water supply, public reticulated water supply or water brought in from another supply, then water chemistry information should be sought from the supplier or it should be tested to ensure the water supply meets the requirements given in these guidelines for the Everhot warranty to apply.

### ANODE

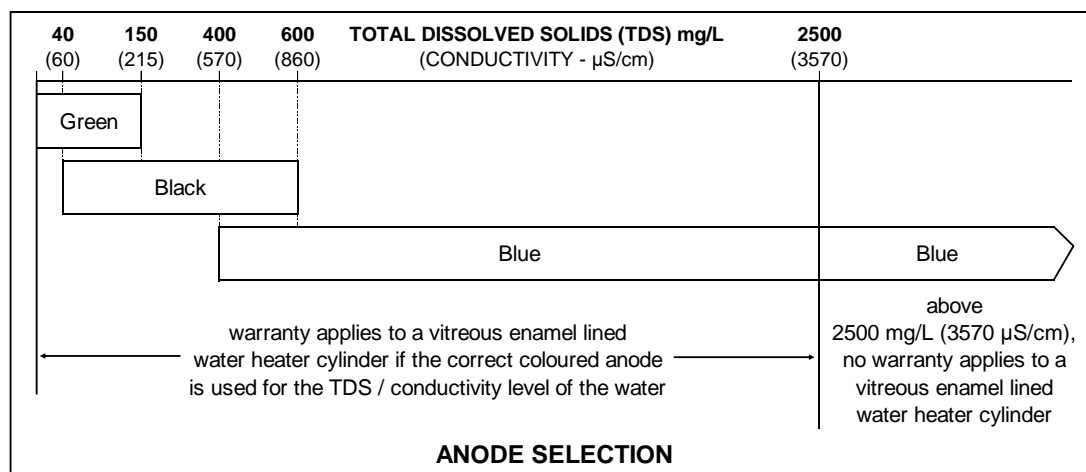
The vitreous enamel lined cylinder of the water heater is only covered by the Everhot warranty when the total dissolved solids (TDS) content in the water is less than 2500 mg/L and when the correct colour coded anode is used. If an incorrect colour coded anode is used in the water heater, any resultant faults will not be covered by the Everhot warranty. In addition, the use of an incorrect colour coded anode may shorten the life of the water heater cylinder.

The correct colour coded anode must be selected and fitted to the water heater in accordance with the following advice and the [Anode Selection chart](#) on page 15 for the Everhot warranty to apply to the water heater cylinder.

Total Dissolved Solids	Anode colour code
0 – 40 mg/L	Green
40 – 150 mg/L	Green or Black
150 – 400 mg/L	Black
400 – 600 mg/L	Black or Blue
600 – 2500 mg/L	Blue
2500 mg/L +	Blue (no cylinder warranty)

The changing of anodes must be carried out by a qualified person.

**Note:** Some water analysis reports may state the conductivity of the water rather than the level of total dissolved solids. Conductivity, measured in microsiemens per centimetre ( $\mu\text{S} / \text{cm}$ ), is directly proportional to the TDS content of the water. TDS, in mg / L, is approximately 70% of the conductivity in  $\mu\text{S} / \text{cm}$ .



### ANODE INSPECTION AND REPLACEMENT

The anodes installed in your water heater will slowly dissipate whilst protecting the cylinder. The life of the cylinder may be extended by replacing the anodes.

For water supplies which are either softened or desalinated, or where the water supply may alternate between a water tank and a reticulated public supply or another supply, or where there is a variable supply (e.g. from a bore or public reticulated supply from various water sources), each anode must be inspected (and replaced if there is any sign of depletion) within five (5) years of its installation.

For all water supplies, if the anodes are not replaced during a major service (refer to “**Major Service Every Five Years**” on page 14) then the maximum time after installation when the anodes should be replaced for this gas water heater is eight (8) years.

### CAUTION

If the water supply has a TDS greater than 150 mg/L and a green anode has not been changed to a black anode, or if the TDS is greater than 600 mg/L and the anode has not been changed to a blue anode, there is the possibility the anode may become overactive and hydrogen gas could accumulate in the top of the water heater during long periods of no use.

If, under these conditions, the water heater has not been used for two or more weeks the following procedure should be carried out before using any electrical appliances (automatic washing machines and dishwashers) which are connected to the hot water supply.

The hydrogen, which is highly flammable, should be vented safely by opening a hot tap and allowing the water to flow. There should be no smoking or naked flame near the tap whilst it is turned on. Any hydrogen gas will be dissipated. This is indicated by an unusual spurting of the water from the tap. Once the water runs freely, any hydrogen in the system will have been released.

### SATURATION INDEX

The saturation index (SI) is used as a measure of the water's corrosive or scaling properties. The saturation index figures stated are calculated using a water temperature of 80°C.

In a corrosive water supply, the water can attack copper parts and cause them to fail.

In a scaling water supply calcium carbonate is deposited out of the water onto any hot metallic surface.

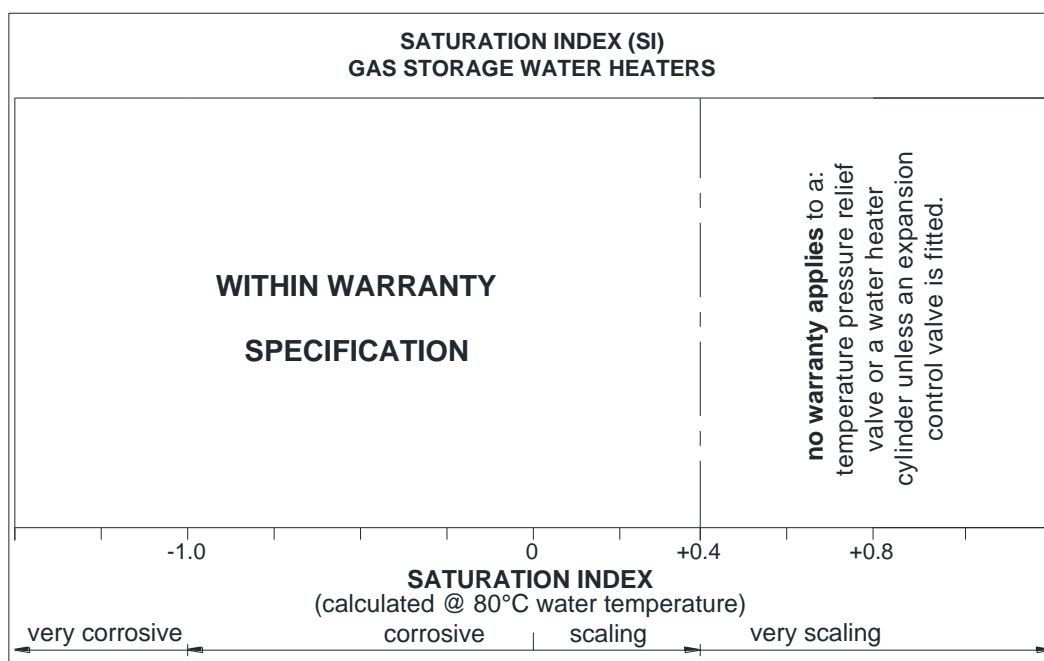
Where the saturation index exceeds +0.40, the water is very scaling. An expansion control valve must be fitted on the cold water line after the non-return valve to protect and for the Everhot warranty to apply to the temperature pressure relief valve and water heater cylinder.

Water which is scaling may be treated with a water softening device to reduce the saturation index of the water.

Refer to the **Saturation Index chart** on page 17.

Refer to the **cold water connection detail** on page 30 for the position of the expansion control valve.





#### SUMMARY OF WATER CHEMISTRY ADVICE AFFECTING WARRANTY

The water heater and its components are not suitable for certain water chemistries. Those chemistries are listed below. If the water heater is connected at any time to a water supply with the following water chemistry, the Everhot warranty will not cover any resultant faults on the components listed below:

##### Water Chemistry

Total Dissolved Solids (TDS) > 2500 mg/L

Total Dissolved Solids (TDS) not suitable for anode type

Saturation Index (SI) > +0.4  
(if expansion control valve is not fitted)

##### Component

water heater cylinder

water heater cylinder

water heater cylinder  
temperature pressure relief valve

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## SAVE A SERVICE CALL

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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.

### NOT ENOUGH HOT WATER (OR NO HOT WATER)

- **Is the electricity switched on?**  
Inspect the isolating switch adjacent to the water heater and ensure it is turned on.
- **Is there a time clock on the power supply?**  
Check the settings on the time clock and ensure they are suitable to enable heating when it is required.
- **Is the ignition system 'locked out'?**  
Reset the water heater. Refer to "Water Heater Not Operating" on page 18.
- **Is a code displayed on the electronic thermostat?**  
Check the LED display on the electronic thermostat.



If a code is displayed, refer to "Diagnostic Features of Electronic Thermostat" on page 18.

- **Are you using more hot water than you think?**  
Are outlets (especially the showers) using more hot water than you think?

Very often it is not realised the amount of hot water used, particularly when showering. Carefully review the hot water usage.

Have your plumber fit a flow control valve to each shower outlet to reduce water usage.

- **Relief valve running**  
Is the relief valve discharging too much water?

Refer to "Temperature Pressure Relief Valve or Expansion Control Valve Running" on page 19.

- **Thermostat setting**  
Ensure the thermostat setting is appropriate. You may choose to have your electrician adjust the thermostats upwards to gain additional hot water capacity.

**⚠ Warning:** Hotter water increases the risk of scald injury.

- **Water heater size**  
Do you have the correct size water heater for your requirements?

### WATER HEATER NOT OPERATING

The ignition system may have 'locked out'. To reset the water heater, press the illuminated red reset button located on the left hand side of the front cover and above the gas inlet. If the water heater fails to light, phone Rheem Service or their nearest Accredited Service Agent to arrange for an inspection.

### DIAGNOSTIC FEATURES OF ELECTRONIC THERMOSTAT

This water heater incorporates an electronic thermostat. In the event of a fault occurring with the thermostat, a 2-digit code will be displayed.

Code	Fault
E1	Temperature sensor failure

If the fault code is displayed, phone Rheem Service or their nearest Accredited Service Agent to arrange for an inspection.

## BURNER WILL NOT LIGHT

- **Is there gas to the water heater?**  
Check the gas isolation valve on the gas supply line is open.
- **Is there a normal gas supply to the rest of the premises?**  
Try lighting another gas appliance. If there is no gas call your gas provider.
- **Is the ignition system 'locked out'?**  
Try resetting the water heater. Refer to **"Water Heater Not Operating"** on page 18.

## BMS INTERFACE

This water heater is fitted with run / fail voltage free contacts (vfc) for connection to a Building Management System (BMS) to remotely provide real time water heater status. The connection point is located on the left hand side of the front cover, above the gas inlet.

A 'fail' signal indicates either the over-temperature cut-out on the thermostat has operated or the gas valve has locked out after three ignition attempts. There may be a fault with the water heater.

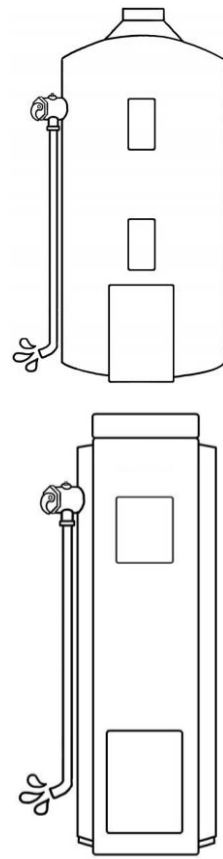
Note: the BMS does not monitor for loss of power supply. If no hot water is available and a 'fail' signal is not received, this could indicate that power is not available to the water heater.

Inspect the isolating switch adjacent to the water heater and ensure it is turned on.

If the isolating switch is turned on and the water heater fails to start, there may be a fault with the water heater. Phone Rheem Service or their nearest Accredited Service Agent / Centre to arrange for an inspection.

## TEMPERATURE PRESSURE RELIEF VALVE OR EXPANSION CONTROL VALVE RUNNING

- **Normal Operation**  
It is normal and desirable the temperature pressure relief valve or expansion control valve (if fitted) allows a quantity of water to escape during the heating cycle. This quantity should be equal to approximately 1/50 of the hot water used, as water expands by this volume when heated. However, if it discharges more than a bucket full of water in 24 hours, there may be another problem.  
  
The expansion control valve (if fitted) will discharge water instead of the temperature pressure relief valve as it has a lower pressure rating. A benefit is that energy is conserved as the discharged water is cooler. This valve is installed in the cold water line to the water heater (refer to the **cold water connection diagram** on page 30).
- **Continuous dribble**  
Try gently raising the easing lever on the relief valve for a few seconds (refer to **"Relief Valves"** on page 8). This may dislodge a small particle of foreign matter and clear the fault. Release the lever gently.
- **Steady flows for long period (often at night)**  
This may indicate the mains water pressure sometimes rises above the designed pressure of the water heater. Ask your installing plumber to fit a pressure limiting valve.  
  
**⚠ Warning:** Never replace the relief valve with one of a higher pressure rating.
- **Heavy flows of hot water from the temperature pressure relief valve until water heater is cold - then stops until water reheats**  
The water heater **must** be switched off at the switchboard. Phone Rheem Service or their nearest Accredited Service Agent to arrange for an inspection.



### **WATER HEATER APPEARS TO BE LEAKING**

When the water heater is first lit or after a large usage of hot water, condensation may form on the burner of the water heater. This is quite normal, especially in winter months and will dry off as the water is heated.

### **HIGHER THAN EXPECTED GAS BILLS**

Should you at any time, feel your gas bill is higher than expected, we suggest you check the following points:

- Is the relief valve running excessively?

Refer to **“Temperature Pressure Relief Valve or Expansion Control Valve Running”** on page 19.

- Are outlets (especially the showers) using more hot water than you think?

Refer to **“Not Enough Hot Water”** on page 18.

- Is there a leaking hot water pipe, dripping hot water tap, etc?

Even a small leak will waste a surprising quantity of hot water and gas. Replace faulty tap washers, and have your plumber rectify any leaking pipe work.

- Has there been an increase in hot water usage?

An increase in hot water usage will result in an increase in water heater operation.

- Has your water heating tariff rate been increased by your gas retailer since your previous bill?



**IF YOU HAVE CHECKED ALL THE FOREGOING AND STILL BELIEVE YOU NEED ASSISTANCE, PHONE RHEEM SERVICE OR THEIR NEAREST ACCREDITED SERVICE AGENT.**

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# INSTALLATION

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**THIS WATER HEATER IS NOT SUITABLE FOR POOL HEATING.**

**This water heater is for connection to natural gas only.**

**Check the water heater is suitable for the gas type available.  
(refer to the rating label on the water heater)**

**Note:** In Australia, natural gas models can be connected to SNG, however the hourly gas consumption may be reduced (typically by 10%).

## INSTALLATION STANDARDS

The water heater must be installed:

- by a qualified person, and
- in accordance the installation instructions, and
- in compliance with the Plumbing Code of Australia (PCA), Standards AS/NZS 3500.4 and AS/NZS 5601.1, and all local codes and regulatory authority requirements.

**⚠ Warning:** This water heater may deliver water at high temperature. Refer to the Plumbing Code of Australia, local requirements and these installation instructions to determine if additional delivery temperature control is required. Refer to “**Hot Water Delivery**” on page 24.

All packaging materials must be removed from the water heater prior to its installation. This includes the removal of the cardboard base of the carton from the underside of the water heater and the protective packaging from the draught diverter of an indoor model.

## WATER HEATER APPLICATION

This water heater is designed for the purpose of heating potable water. Its use in an application other than this may shorten its life.

If this water heater is to be used where an uninterrupted hot water supply is necessary for the application or business, then there should be back-up redundancy within the hot water system design. This should ensure the continuity of hot water supply in the event that this water heater was to become inoperable for any reason. We recommend you provide advice to the system owner about their needs and building back-up redundancy into the hot water supply system.

**Note:** AS 3498 requires that a water heater provides the means to inhibit the growth of Legionella bacteria in potable water. This water heater can satisfy this AS 3498 requirement provided it is operating and the thermostat setting is 60°C or higher, including when it is used as an in-series booster water heater for a solar water heater.

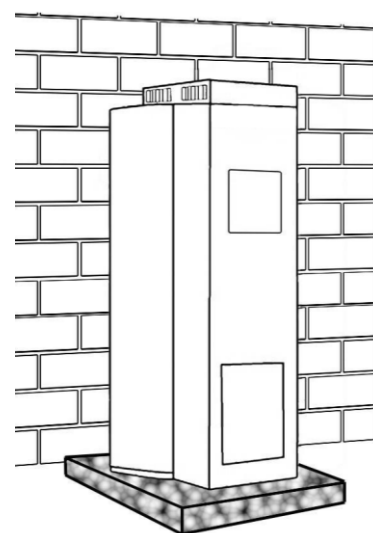
## WATER HEATER LOCATION

An indoor model must be installed indoors and an outdoor model must be installed outdoors.

The water heater should be installed either close to the most frequently used outlets or with a circulated flow and return system and its position chosen with safety and service in mind. Make sure people (particularly children) will not touch the flue outlet. The flue terminal must be clear of obstructions and shrubbery.

Clearance must be allowed for servicing of the water heater. The water heater must be accessible without the use of a ladder or scaffold. Make sure the temperature pressure relief valve lever is accessible and the front covers or panels, thermostats and burner can be removed for service.

You must be able to read the information on the rating plate. If possible leave headroom of one water heater height so the anode can be inspected or replaced. Remember you may have to take the entire water heater out later for servicing.



The water heater must not be installed in an area with a corrosive atmosphere where chemicals are stored or where aerosol propellants are released. Remember the air may be safe to breathe, but when it goes through a flame, chemical changes take place which may attack the water heater.

For a single water heater installation, follow the **diagrams on pages 27 and 28**. For multiple water heater installations, follow the **instructions on pages 38 to 41**.

### INDOOR INSTALLATION

The water heater is to be installed at floor level and must stand vertically upright on a stable fireproof base as acceptable to local authorities. There are also special requirements in AS/NZS 5601.1 for water heaters installed in a garage, an enclosed space and other locations. Remember all local authorities have regulations about putting water heaters into roof spaces.

For indoor models the distances set out in the diagram should be observed. Keep the water heater and flue at least 25 mm clear of walls, cupboards, timber or any other combustibles and at least 500 mm clear of curtains and furnishings.

### Ventilation

A room or enclosure where the water heater is installed, including a plant room or residential garage, must comply with the ventilation and air supply requirements of AS/NZS 5601.1. Consideration must be given to other gas burning appliances installed in the same space.

### Secondary Flue

A secondary flue must be installed with an indoor gas water heater to discharge combustion products outside the building. The flue design and installation must comply with AS/NZS 5601.1.

**⚠ Warning:** Do not use an unlined masonry chimney as the flue for this water heater.

The water heater is supplied with a draught diverter, fitted to the top of the water heater. The draught diverter is designed to receive a 200 mm diameter flue (625275 model). An adaptor is also supplied with a 625275 model. The flue installed with a 625275 model sits inside of the adaptor.

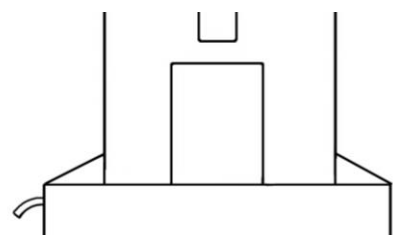
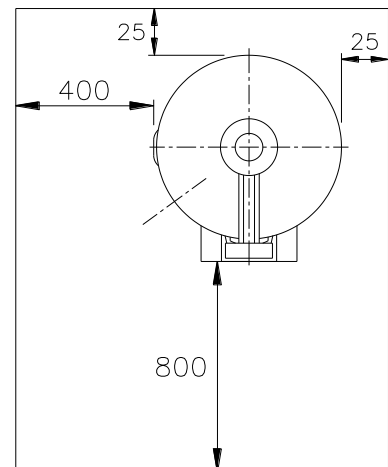
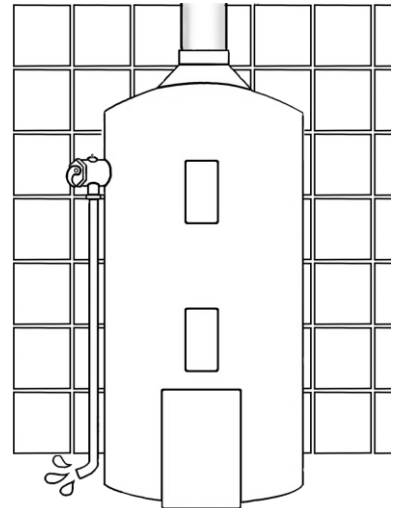
- Remove the adaptor (625275 model) from the packaging at the top of the water heater and insert into the outlet spigot of the draught diverter cone.

The secondary flue must:

- be seated inside of the adaptor (625275 model) of the draught diverter.
- be self-supporting and not impose a load on the water heater.
- use a slip joint or similar to allow for disconnection.
- be designed to run vertically for the maximum possible distance before any change of direction.

### Safe Tray

Under certain installation conditions where damage to property can occur in the event of the water heater leaking, AS/NZS 3500.4 requires the water heater be installed in a safe tray. Construction, installation and draining of a safe tray must comply with AS/NZS 3500.4 and all local codes and regulatory authority requirements. AS/NZS 3500.4 also has particular requirements when a safe tray must be installed. Alternatively, where additional leak protection is required for installations not defined by AS/NZS 3500.4, a suitable bund may be constructed to surround the water heater in lieu of using a safe tray.

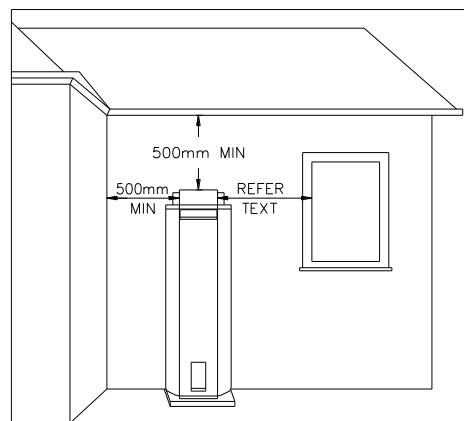


## OUTDOOR INSTALLATION

The water heater is to be installed at ground or floor level on a stable fireproof base as acceptable to local authorities. The water heater must also stand vertically upright with the back of the water heater **against or within 150 mm of an external wall** or alternatively against a fireproof screen extending at least 500 mm above, below and either side the flue terminal. Failure to observe this precaution can cause problems in high wind areas. A secondary flue is not required.

The water heater must be located to ensure that the location of the flue terminal complies with the requirements of AS/NZS 5601.1. As a guide the following requirements are extracted from the Gas Installations Standard. The distances are measured along the wall behind the water heater.

- At least 500 mm between the top of the flue terminal and the eaves.
- At least 1500 mm (635275 model) between the flue terminal and the edge of any opening into the building, such as an openable door or window, measured horizontally\*.
- At least 1500 mm (635275 model) between the flue terminal and the edge of any opening into the building, such as an openable window, measured vertically.
- At least 500 mm between the flue terminal and a return wall or external corner, measured horizontally\*.



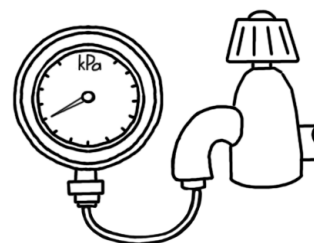
**Note:** \* If these horizontal distances cannot be achieved, AS/NZS 5601.1 states an equivalent horizontal distance measured diagonally from the nearest discharge point of the flue terminal to the opening may be deemed to comply. Check with the local regulator.

## MAINS WATER SUPPLY

Where the mains water supply pressure exceeds that shown in the table below, an approved pressure limiting valve is required and should be fitted as shown in the **cold water connection diagram** on page 30.

Model	275
Temperature pressure relief valve setting	1000kPa
Expansion control valve setting*	850kPa
Maximum mains supply pressure	
With expansion control valve	680kPa
Without expansion control valve	800kPa

\* Expansion control valve not supplied with water heater



## TANK WATER SUPPLY

If the water heater is supplied with water from a tank supply and a pressure pump system is not installed, then the bottom of the supply tank must be at least 1 m above the highest point of the hot water plumbing system, including the water heater. Care must be taken to avoid air locks. The cold water line to the water heater should be adequately sized and fitted with a full flow gate valve or ball valve.



## ANODE

The vitreous enamel lined cylinder of the water heater is only covered by the Everhot warranty when the total dissolved solids (TDS) content in the water is less than 2500 mg/L and when the correct colour coded anode is used. If an incorrect colour coded anode is used in the water heater, any resultant faults will not be covered by the Everhot warranty. In addition, the use of an incorrect colour coded anode may shorten the life of the water heater cylinder.

The correct colour coded anode for the water supply being used must be selected and fitted to the water heater for the Everhot warranty to apply to the water heater cylinder (refer to “**Water Supplies**” on page 15 and the **Anode Selection table** on page 15). The black anode is typically fitted as standard.

If an incorrect anode is used, there is also the possibility the anode may become overactive and hydrogen gas could accumulate in the top of the water heater during long periods of no use. In areas where this is likely to occur, the installer should instruct the householder on how to dissipate the gas safely (refer to “**Caution**” on page 16).

## HOT WATER DELIVERY

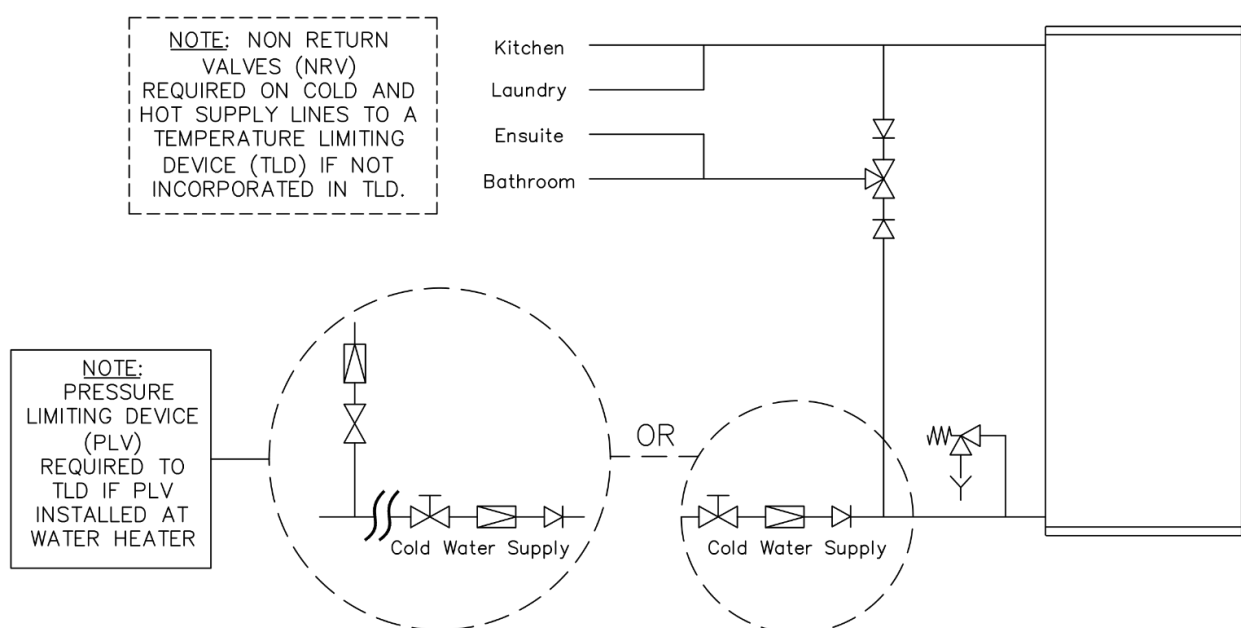
This water heater can deliver hot water at a temperature up to 82°C depending upon its thermostat setting. This temperature is sufficiently hot to cause severe scalding. Water at this temperature may be plumbed to fixtures where water hotter than 50°C is allowed, such as a kitchen, laundry and other areas requiring sanitising temperatures.

The installing plumber may have a legal obligation to ensure the installation of this water heater meets the water temperature delivery requirements of the Plumbing Code of Australia so that heated water delivered to fixtures and appliances used primarily for personal hygiene is at a temperature which is unlikely to scald.

It is necessary and we recommend that a temperature limiting device be fitted between the water heater and the fixtures and appliances used primarily for personal hygiene such as in a bathroom, ensuite, public amenities or other ablution areas, to reduce the risk of scalding.

Where a temperature limiting device is installed adjacent to the water heater, the cold water line to the temperature limiting device can be branched off the cold water line either before or after the isolation valve, pressure limiting valve and non-return valve to the water heater. If an expansion control valve is required, it must always be installed after the non-return valve and be the last valve prior to the water heater.

If a pressure limiting valve is installed on the cold water line to the water heater and the cold water line to a temperature limiting device branches off before this valve or from another cold water line in the premises, then a pressure limiting valve of an equal pressure setting may be required prior to the temperature limiting device.



**Two Temperature Zones Using a Temperature Limiting Device**



## CIRCULATED HOT WATER FLOW AND RETURN SYSTEM

An Everhot 625 or 635 series water heater can be installed as part of a circulated hot water flow and return system in a building.

### Temperature Settings

- the thermostat setting of the water heater must be set to at least 60°C.
- the return water temperature to the water heater must not be less than 55°C.

If the water temperature decreases by more than 5°C due to heat loss from the ring main, the thermostat setting of the water heater must be set to above 60°C to ensure the return water temperature is not less than 55°C.

Refer to the [Circulated Hot Water Flow and Return System – Gas Water Heater](#) diagram on page 25 and to [“Recirculation System”](#) on page 45.

### Temperature Limiting Device

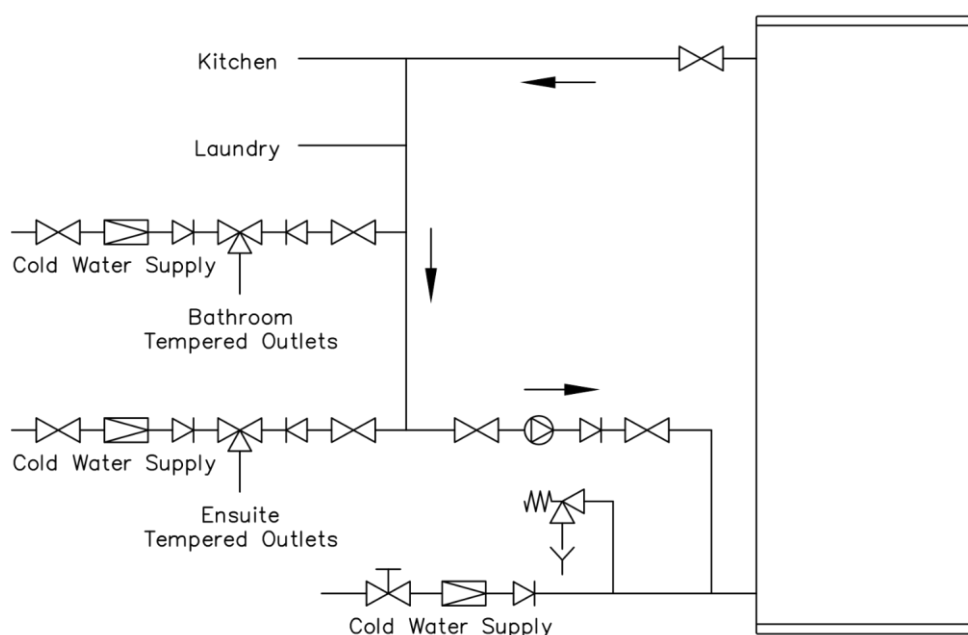
A temperature limiting device cannot be installed in circulated hot water flow and return pipe work unless it is specifically designed to do so, such as the Rheem Guardian warm water system.

The tempered water from a temperature limiting device cannot be circulated. Where a circulated hot water flow and return system is required in a building, a temperature limiting device can only be installed on a dead leg, branching off the circulated hot water flow and return pipe.

If circulated tempered water were to be returned back to the water heater, depending on the location of the return line connection on the water supply line to the water heater, then either:

- water will be supplied to the cold water inlet of the temperature limiting device at a temperature exceeding the maximum recommended water supply temperature, or
- when the hot taps are closed no water will be supplied to the cold water inlet of the temperature limiting device whilst hot water will continue to be supplied to the hot water inlet of the temperature limiting device.

These conditions may result in either water at a temperature exceeding the requirements of AS/NZS 3500.4 being delivered to the hot water outlets in the ablution areas, or the device closing completely and not delivering water at all, or the device failing. Under either condition, the operation and performance of the device cannot be guaranteed.



**Circulated Hot Water Flow and Return System – Gas Water Heater**

### **REDUCING HEAT LOSSES**

The cold water line to and the hot water line from the water heater must be insulated in accordance with the requirements of AS/NZS 3500.4. The insulation must be weatherproof and UV resistant if exposed.

Keep temperature settings down. Lower temperatures reduce heat losses and prolong cylinder life. Do not set the controlling electronic thermostat above 70°C unless it is necessary. A time clock to control the electrical supply can be used to switch off the water heater during hours or days when it is not in use.

### **SADDLING PIPE WORK**

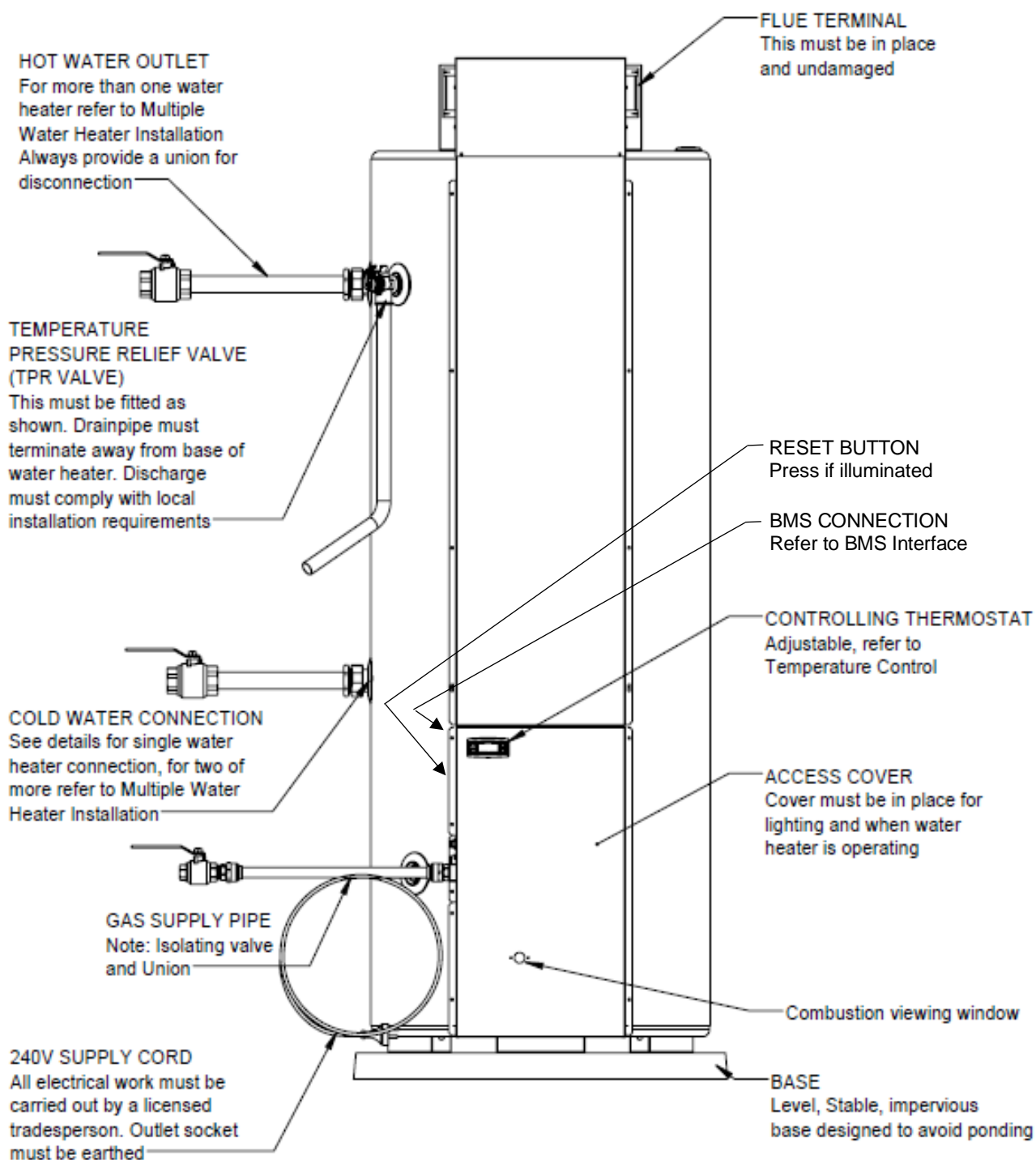
To prevent damage to the cylinder when attaching pipe clips or saddles to the water heater jacket, we recommend the use of self-drilling screws with a maximum length of 13 mm. Should pre drilling be required, extreme caution must be observed when penetrating the jacket of the water heater.

**Note: If the cylinder is damaged as a result of attaching pipe clips or saddles to the jacket, any resultant faults will not be covered by the Everhot warranty.**

**TYPICAL INSTALLATION – OUTDOOR LOCATION – 635275 MODEL**

**LOCATION**

Install the water heater as close as possible to the point of use. Observe clearances from doors, windows etc, shown in diagram under Minimum Clearance Outdoor



**TYPICAL INSTALLATION – INDOOR LOCATION – 625275 MODEL**

**LOCATION**

Install the water heater as close as possible to the point of use. Observe clearances from doors, windows etc, shown in diagram under Minimum Clearance Outdoor

**DRAUGHT DIVERTER**  
This must be in place and undamaged

**HOT WATER OUTLET**  
For more than one water heater refer to Multiple Water Heater Installation Always provide a union for disconnection

**TEMPERATURE PRESSURE RELIEF VALVE (TPR VALVE)**  
This must be fitted as shown. Drainpipe must terminate away from base of water heater. Discharge must comply with local installation requirements

**COLD WATER CONNECTION**  
See details for single water heater connection, for two of more refer to Multiple Water Heater Installation

**GAS SUPPLY PIPE**  
Note: Isolating valve and Union

**240V SUPPLY CORD**  
All electrical work must be carried out by a licensed tradesperson. Outlet socket must be earthed

**FLUE PIPE CONNECTION TO DRAUGHT DIVERTER.**

**A SECONDARY FLUE IS REQUIRED**

**NOTE:** The flue must be self supporting and not impose a load on the water heater. use a slip joint or similar to allow for disconnection.

There must be a vertical rise of at least 600mm from the draught diverter before changing direction 90°

**FLUE DAMPER**

**RESET BUTTON**  
Press if illuminated

**BMS CONNECTION**  
Refer to BMS Interface

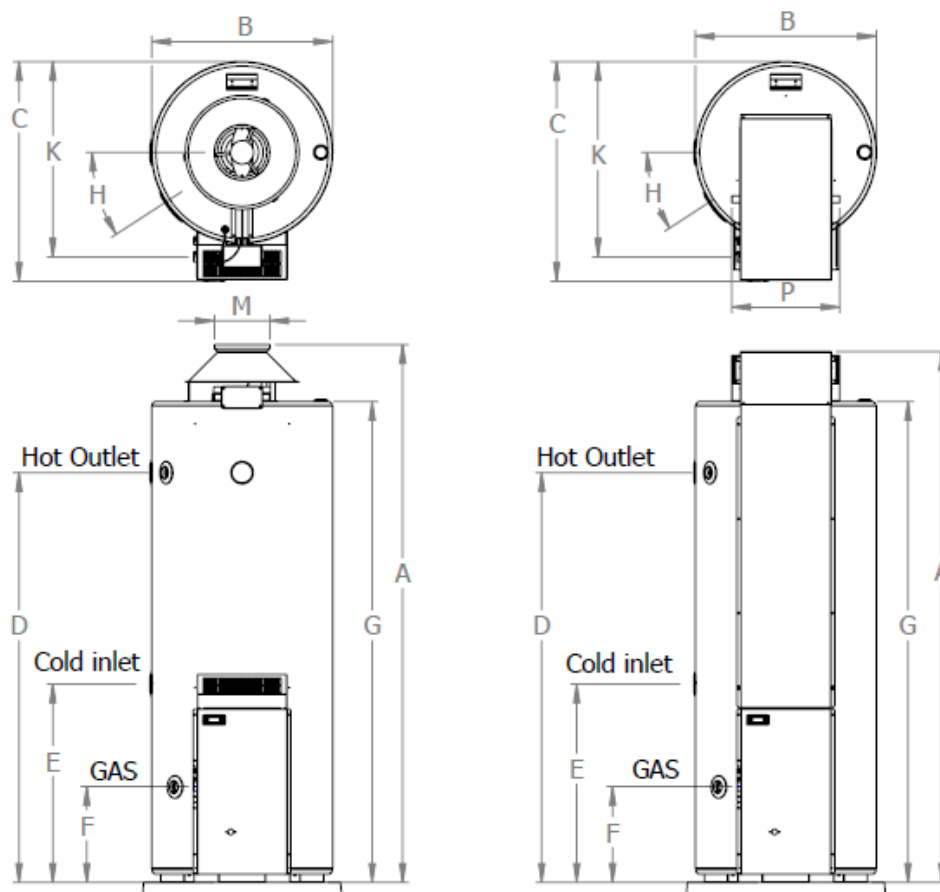
**CONTROLLING THERMOSTAT**  
Adjustable, refer to Temperature Control

**ACCESS COVER**  
Cover must be in place for lighting and when water heater is operating

**Combustion viewing window**

**BASE**  
Level, Stable, impervious base designed to avoid ponding

## DIMENSIONS AND TECHNICAL DATA



Model No.		625275	635275
		(Indoor)	(Outdoor)
Storage capacity (litres)		275	275
Nominal Dimensions (mm)	A	1910	1885
	B	645	645
	C	780	780
	D	1454	1454
	E	704	704
	F	341	341
	G	1706	1706
	H	33°	33°
	K	692	692
	M	200	-
	P	-	383
Weight (kg)	cartoned	167	174

Gas Details	Hourly Gas Consumption (MJ)	Minimum Gas Pressure (kPa)	Test Point Gas Pressure (kPa)	Max. Gas Pressure (kPa)	Main Injector Orifice (mm)
	275	275	275	275	275
Natural, SNG (typical)	200 / 180	1.13	0.90	3.50	Ø 6.50

Model numbers: N = Natural. Letter N is included in the model number, e.g. 625275N0, to denote gas type.  
Technical data is subject to change.

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## CONNECTIONS – PLUMBING

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All plumbing work must be carried out by a qualified person and in compliance with the Standard AS/NZS 3500.4 and all local codes and regulatory authority requirements.

All gas work must be carried out by a qualified person and in compliance with the Standard AS/NZS 5601.1, all local codes and regulatory authority requirements.

### CONNECTION SIZES

- Hot water connection: Rp 1 1/4
- Cold water connection: Rp 1 1/4
- Relief valve connection: Rp 3/4
- Gas inlet: Rp 3/4

### WATER INLET AND OUTLET

All pipe work must be cleared of foreign matter before connection and purged before attempting to operate the water heater. All olive compression fittings must use brass or copper olives. Use an approved thread sealant such as Teflon tape on all threaded joints.

An isolation valve and non-return valve must be installed on the cold water line to the water heater. An acceptable arrangement is shown in the diagram or on page 40 for multiple installations. Refer also to “Hot Water Delivery” on page 24 and to “Mains Water Supply” on page 23.

A disconnection union must always be provided at the cold water inlet and hot water outlet on the water heater to allow for disconnection of the water heater.

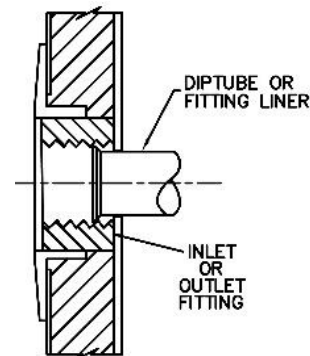
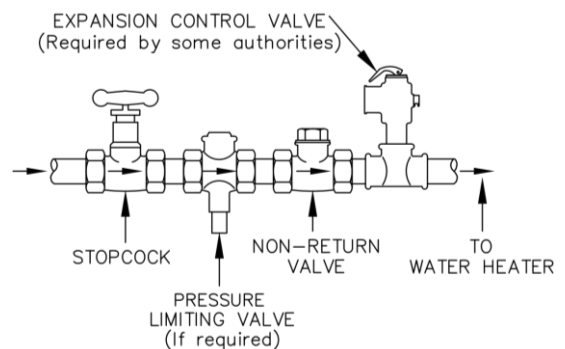
This water heater has either a plastic dip tube or fitting liner in the inlet and outlet fittings (see diagram). These must be in place for the water heater to function properly. Do not remove or damage them by using heat nearby. They will be pushed into the correct position as the fitting is screwed in.

This water heater is intended to be permanently connected to the water mains and not connected by a hose-set. A braided flexible hose or semi-flexible connector may be used for connection to the water heater, where permitted by AS/NZS 3500.4.

### PIPE SIZES

The cold water pipe to the water heater should be the same size or bigger than the hot water line from the water heater.

The pipe sizing for hot water supply systems should be carried out by persons competent to do so, choosing the most suitable pipe size for each individual application. Reference to the technical specifications of the water heater and local regulatory authority requirements must be made.



### TEMPERATURE PRESSURE RELIEF VALVE

The temperature pressure relief valve is shipped in the plastic bag attached to the side of the water heater. The temperature pressure relief valve must be fitted before the water heater is operated. Before fitting the relief valve, make sure the probe has not been bent.

To fit the relief valve:

- Seal the thread with an approved thread sealant such as Teflon tape - never hemp. Make sure tape does not hang over the end of the thread.
- Hand tighten the valve into the opening marked "Relief Valve" (refer to the [installation diagram on pages 27 and 28](#)).
- Using a spanner engaged on the valve's spanner flats and applying medium pressure to tighten, turn the relief valve an additional  $\frac{1}{2}$  to  $1 \frac{1}{2}$  turns to secure and make the joint water tight, leaving the valve drain pointing downwards.

**⚠ Warning:** Do not use a pipe wrench or poor fitting tool on the valve body nor over tighten the valve, as this could damage the valve and prevent safe operation.

- Operate the easing lever on the valve to check the smooth operation of the valve plunger. It is very important the lever is raised and lowered gently. The lever should move smoothly and without undue force.
- If the lever cannot be moved or is jerky in its movement, then the valve has been damaged and must be replaced.
- A copper drain line must be fitted to the temperature pressure relief valve (refer to ["Relief Valve Drain"](#) on page 32).
- The valve must be insulated with closed cell polymer insulation or similar (minimum thickness 9 mm) and the insulation installed so as not to impede the operation of the valve.

The insulation must be weatherproof and UV resistant if exposed.

### EXPANSION CONTROL VALVE

Local regulations may make it mandatory to install an expansion control valve (ECV) in the cold water line to the water heater. In other areas, an ECV is required if the saturation index is greater than +0.4 (refer to ["Water Supplies"](#) on page 15).

The expansion control valve must always be installed after the non-return valve and be the last valve installed prior to the water heater (refer to [diagram on page 30](#)). A copper drain line must be fitted to the expansion control valve (refer to ["Relief Valve Drain"](#) on page 32).

The valve, if installed within 500 mm of the water heater, must be insulated with closed cell polymer insulation or similar (minimum thickness 9 mm) and the insulation installed so as not to impede the operation of the valve. The insulation must be weatherproof and UV resistant if exposed.

**RELIEF VALVE DRAIN**

DN20 copper drain lines must be fitted to the temperature pressure relief valve and expansion control valve (if one is installed) to carry the discharge clear of the water heater. Connect the drain lines to the valves using disconnection unions. The drain line from the valve to the point of discharge should be as short as possible, have a continuous fall all the way from the water heater to the discharge outlet and have no tap, valves or other restrictions in the pipe work.

A drain line from a relief valve must comply with the requirements of AS/NZS 3500.4.

A drain line must be no longer than 9 metres with no more than three bends greater than 45° before discharging at an outlet or air break. The maximum length of 9 metres for a drain line is reduced by 1 metre for each additional bend required of greater than 45°, up to a maximum of three additional bends. Where the distance to the point of final discharge exceeds this length, the drain line can discharge into a tundish.

Subject to local regulatory authority approval, the drain lines from the temperature pressure relief valve and expansion control valve from an individual water heater may be interconnected.

The outlet of a drain line must be in such a position that flow out of the pipe can be easily seen, but arranged so discharge will not cause injury, damage or nuisance. The termination point of a drain line must comply with the requirements of AS/NZS 3500.4. Drain lines must not discharge into a safe tray.

In locations where water pipes are prone to freezing, drain lines must be insulated, must not exceed 300 mm in length and are to discharge into a tundish through an air gap of between 75 mm and 150 mm.

If a drain line discharges into a tundish, the drain line from the tundish must be not less than DN25. The drain line from a tundish must meet the same requirements as for a drain line from a relief valve.

For multiple installations the drain line from each water heater can discharge into a common tundish (refer to **“Multiple Installations”** on pages 38 and 39).

**⚠ Warning:** As the function of the temperature pressure relief valve on this water heater is to discharge high temperature water under certain conditions, it is strongly recommended the pipe work downstream of the relief valve be capable of carrying water exceeding 93°C. Failure to observe this precaution may result in damage to pipe work and property.

**GAS INLET**

The gas connection is made to the left hand side of the gas control. The pipe work must be cleared of foreign matter before connection and purged before attempting to light the water heater. An isolation valve and disconnection union must be used to allow servicing and removal of the water heater.

**Note:** Refer to the Gas Installations Standard AS/NZS 5601.1 for the correct method of sizing the gas supply pipe to the water heater. The pipe size selection must take into account the gas input of this water heater (refer to table on page 29) as well as all of the other gas appliances in the premises.

**⚠ Warning:** Always isolate the water heater before pressure testing the gas supply system. Disconnect the water heater after the isolating cock to prevent the risk of serious damage to the gas control. The Everhot warranty does not cover damage of any nature resulting from failure to observe this precaution. Refer to rating label for gas types and pressures.

Ensure the gas line is also purged at the union of the gas control. If this procedure is not followed, a retry lockout (i.e. single flashes on control module) may result on initial start-up.

The HSI system has a flame sensing period of 3 seconds from the time the gas valve opens. If the burner flame is not sensed during this period, a five (5) minute waiting period follows so any unburnt gas can escape before a second and third burner ignition is automatically attempted.

If the third attempt is also unsuccessful, the system enters the re-ignition attempt lockout mode. To reset the water heater, press the illuminated red reset button on the lower left hand side of the water heater. If the water heater fails to light, phone Rheem Service or their nearest Accredited Service Agent to arrange for an inspection.

**Caution:** Care is necessary when tightening fittings into the gas valve. The gas valve casting may crack if the fittings are over tightened. Cracked valve castings are not covered under the Everhot warranty. Damaged valves must be replaced.



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## CONNECTIONS – ELECTRICAL

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**The power supply to the water heater must not be switched on until the water heater is filled with water and a satisfactory megger reading is obtained.**

**Note:** AS 3498 requires that a water heater provides the means to inhibit the growth of Legionella bacteria in potable water. This water heater can satisfy this AS 3498 requirement provided it is operating and the thermostat setting is 60°C or higher, including when it is used as an in-series booster water heater for a solar water heater.

### ELECTRICAL CONNECTION

All electrical work and permanent wiring must be carried out by a qualified person and in accordance with the Wiring Rules AS/NZS 3000 and all local codes and regulatory authority requirements.

The water heater, supplied with a 1.8 metre power cord, requires a 220 V - 240V a.c. general power outlet (GPO) to be located within 1.2 metres of the installation. The GPO is required to be weatherproof for an outdoor installation.

The power consumption of the water heater is:

Model	Power consumption	Comments
625275	100 Watts	gas control operation and includes flue damper
635275	150 Watts	gas control operation and includes fan

The water heater will only operate on a sine wave at 50 Hz. Devices generating a square wave cannot be used to supply power to the water heater.

### THERMOSTAT SETTING

The thermostat is adjustable from 60°C to 82°C. For reasons of safety and economy, we advise the thermostat is set at the lowest temperature that will provide sufficient hot water. Discuss the thermostat setting requirements with a responsible officer. Refer to **“Temperature Control”** on page 45.

If this water heater is installed as an in-series booster water heater as part of a commercial solar water heating system, to maximise solar contribution it is recommended the thermostat is set at 60°C, unless sanitising temperatures are required.

### WIRING A POWER FLUED SYSTEM OR REMOTE TIMER TO THE WATER HEATER

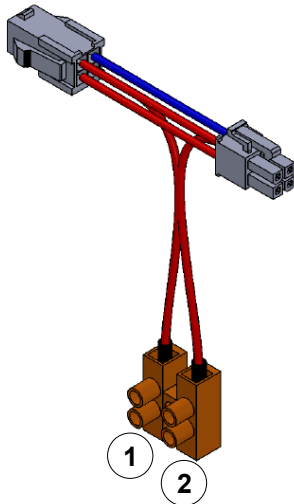
An indoor model can be wired to a power flued system. A power flued system must be designed by a qualified person to suit the particular installation and for approval by the gas supply authority. The power flue system must be interlocked with the water heater(s) to prevent the water heater(s) from operating if the power flue is not working.

The principle of operation for multiple gas water heater control with a power flue is the same as for a single water heater. Any water heater can switch on the fan and the burners can only come on when the sail or pressure switch is closed.

To connect a power flue with 24/7 fan operation, refer to the **wiring diagram and instructions** on page 37.

To connect a power flue into the water heater system design, it is necessary to fit the supplied power flue interlock adaptor. Unplug the 4 pin molex plug and insert the adaptor between each plug as shown below. The terminal block provides the signal to and from the fan proving system.

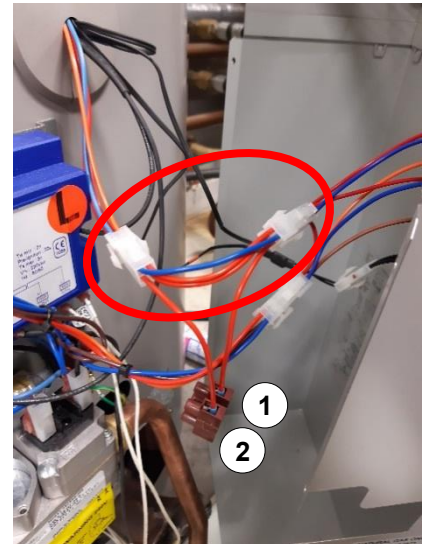
The water heater can be wired for use with a remote control thermostat or a remote time switch. This is achieved by running the call for heat signal to and from the switching device via the power flue interlock adaptor. The water heater thermostat should be adjusted to a temperature higher than the setting on a remote thermostat.



**Power flue  
interlock adaptor**



**Unplug Molex plug that is run  
from water heater jacket**



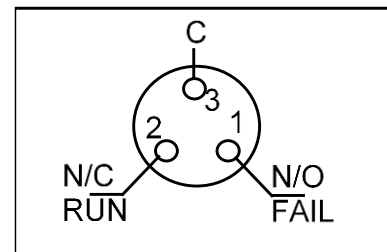
**Insert power flue  
interlock adaptor**

### BMS INTERFACE

The water heater can be connected to a Building Management System (BMS) to remotely provide real time water heater status. Each water heater requires individual connection to the BMS.

The BMS Interface:

- provides a Run / Fail signal via voltage free N/O, N/C and Common contacts
- has a contact rating of 10A @ 240 V
- requires field connection of the N/O, N/C and Common contacts
- is suitable for indoor or outdoor installation and has an IP34 rating



**BMS Interface Connections – viewed looking  
from the outside of the water heater**

**Note:** Connection to the building management system is via an Amphenol connector supplied with the water heater. This connection requires soldering.

When operating after the water heater has been commissioned, the BMS Interface has the following operation modes:

- **Run**  
Normally closed contact is closed. The water heater is operating normally.

**Note:** 625275 model – if a ‘run’ signal is received but the water heater does not appear to be heating, check the transport clip has been removed from the flue damper housing. Refer to the **Notes** on page 44.

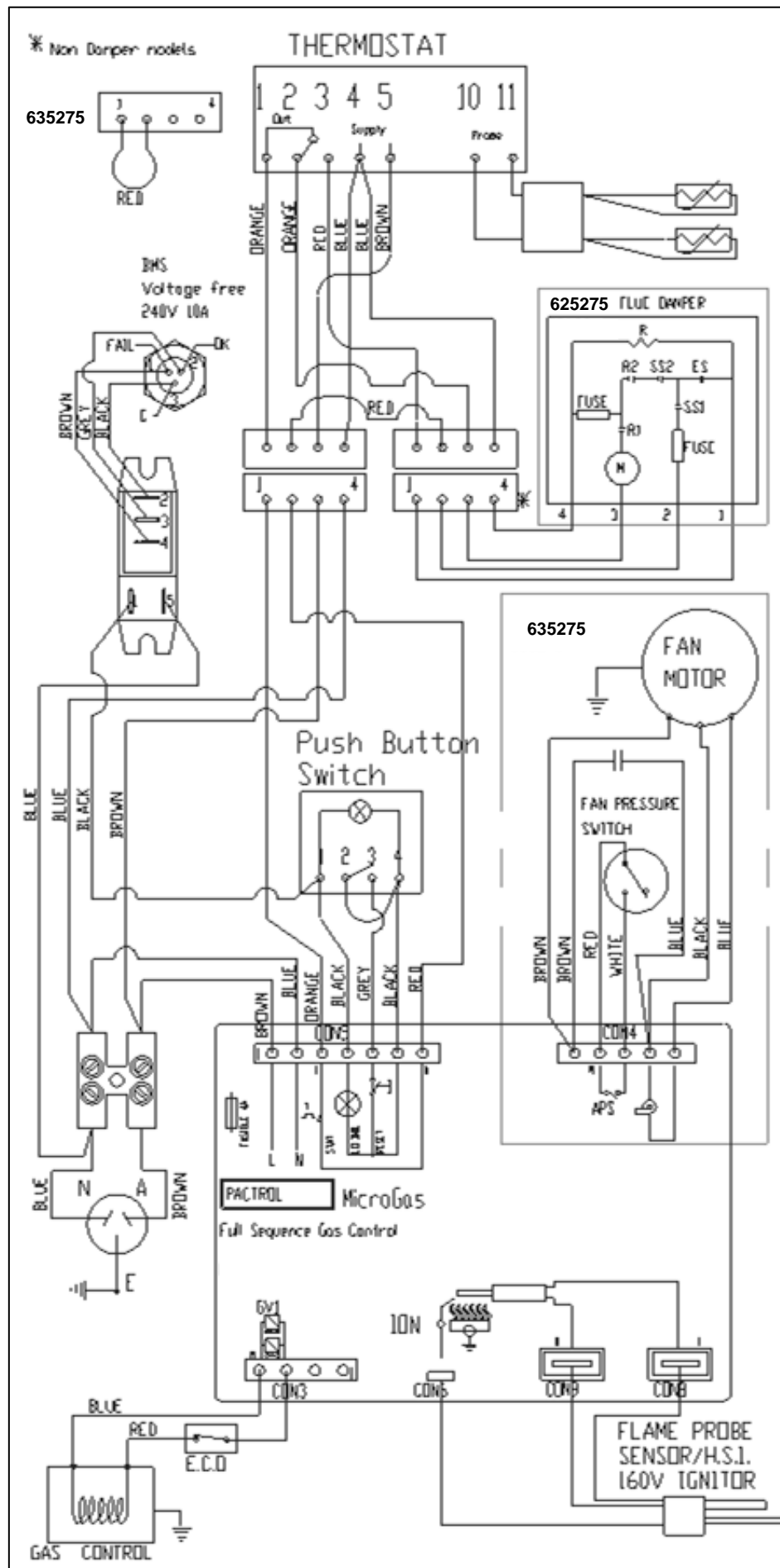
Inspect the isolating switch adjacent to the water heater and ensure it is turned on.

- **Fail**  
Normally open contact is closed. This indicates either the over-temperature cut-out has operated or the gas valve has locked out after three ignition attempts. There may be a fault with the water heater.

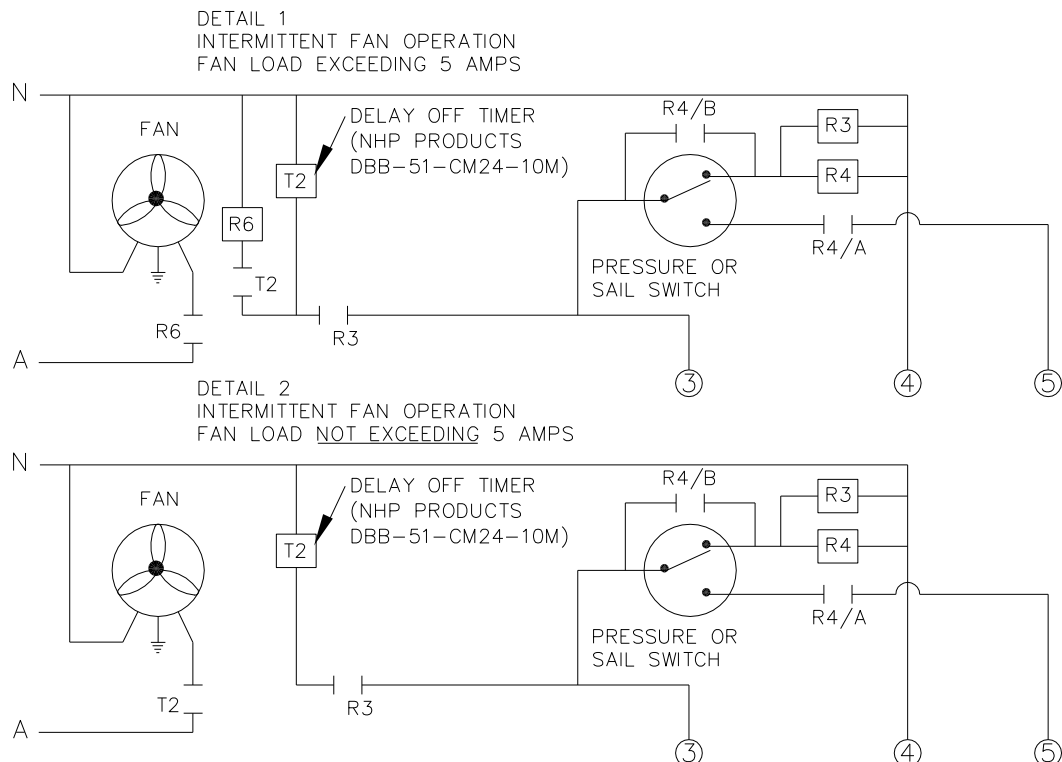
Check the red reset button located on the left hand side of the front cover and above the gas inlet. If illuminated, try resetting the water heater. Refer to **“Water Heater Not Operating”** on page 18.

If after checking all of the above and the water heater is still not operating, there may be a fault with the water heater. Phone Rheem Service or their nearest Accredited Service Agent / Centre to arrange for an inspection.

## WIRING DIAGRAM – ALL MODELS

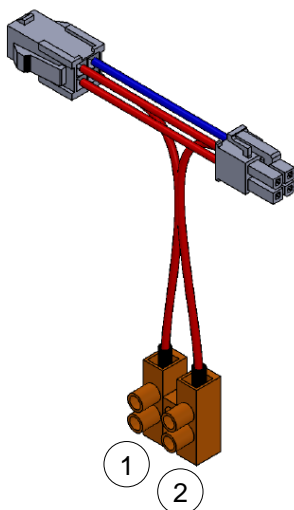
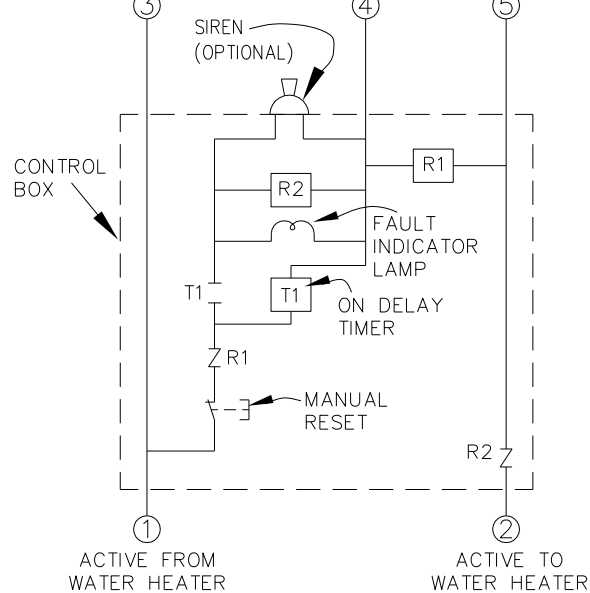


# POWER FLUE EXTERNAL CONTROLS – INTERMITTENT OPERATION

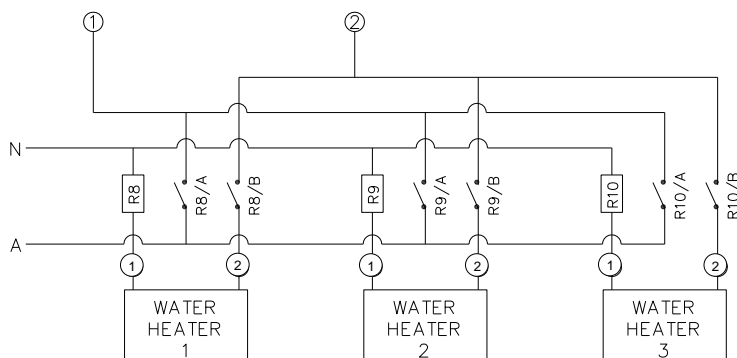


## Notes

1. Power source for the water heater, fan and control circuit must be from the same circuit.
2. R1 monitors return signal.
3. R2 monitors alarm signal.
4. T1 to be set for 20-30 seconds.
5. Meets requirements of Clause H2.2.5 of AS/NZS 5601.1 providing lockout in the event of flue product flow failure.
6. Where intermittent fan operation is utilised, it is necessary to run the fan for some time after combustion ceases to prevent flue spillage of combustion products. T2 to be set for 5 minutes.

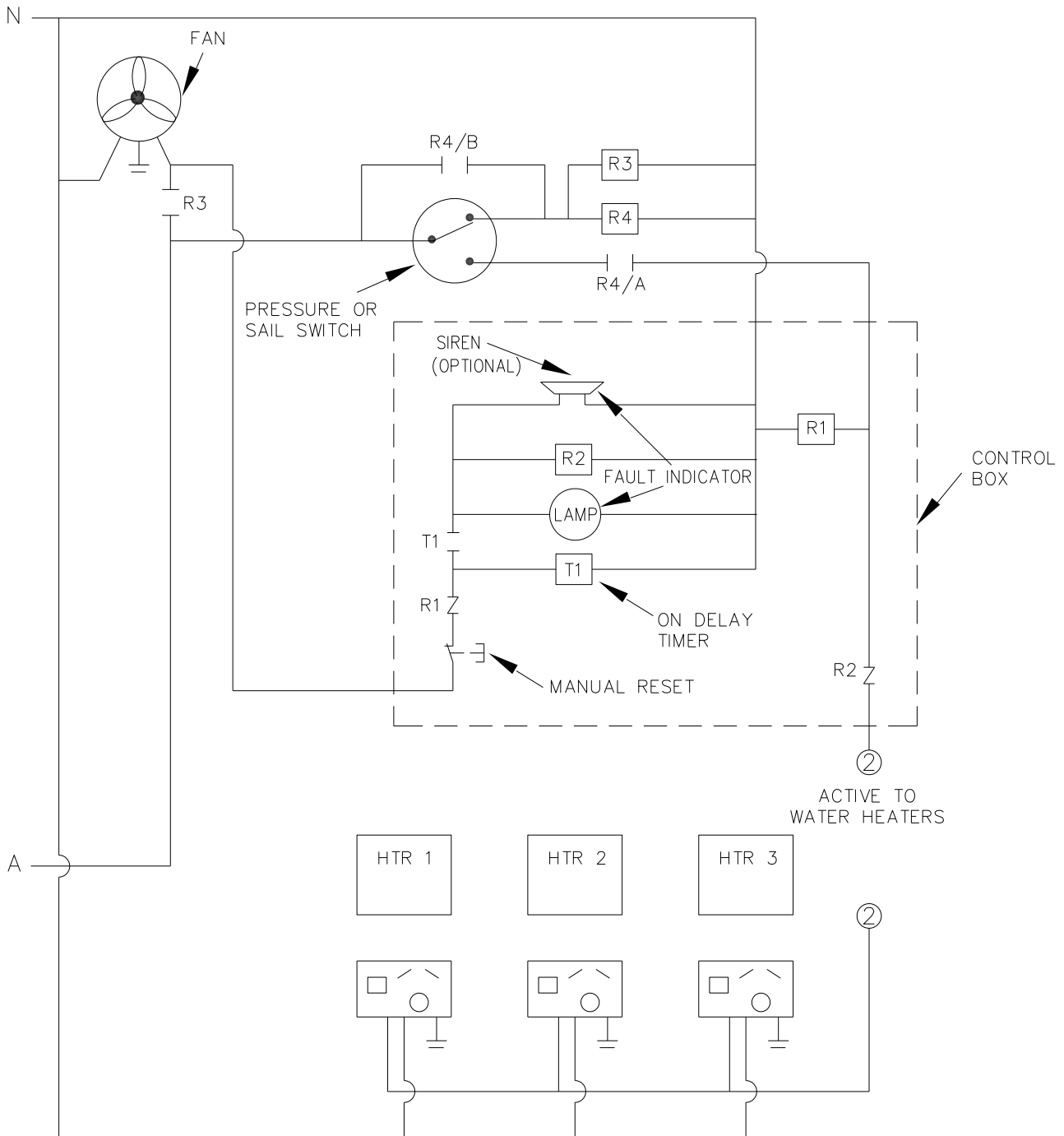


For a single water heater installation, connect 1 and 2 directly to the water heater



For multiple water heater installation, connect 1 and 2 to the water heater via a relay box as shown

# POWER FLUE EXTERNAL CONTROLS – 24 HOUR OPERATION



## Notes

1. Power source for the water heater, fan and control circuit must be from the same circuit.
2. R1 monitors return signal.
3. R2 monitors alarm signal.
4. T1 to be set for 20-30 seconds.
5. Replace plug of water heater power supply cord with SPO with round earth terminal.
6. Meets requirements of Clause H2.2.5 of AS/NZS 5601.1 providing lockout in the event of flue product flow failure.

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## MULTIPLE INSTALLATIONS

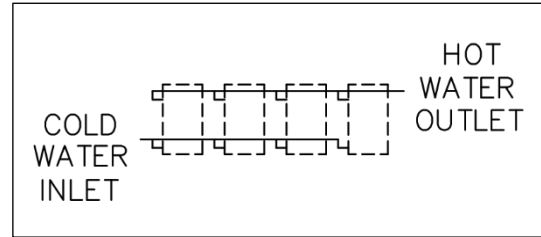
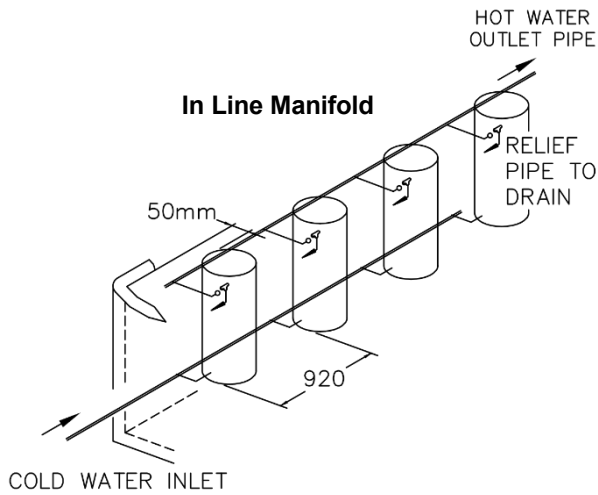
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A multiple installation of Everhot water heaters on a single manifold or multiple manifolds is possible, using the Equa-Flow® manifold system, where large volumes of hot water are required. The Equa-Flow principle will function with water heaters in line, around a corner or in rows back to back (refer to the diagrams on page 39).

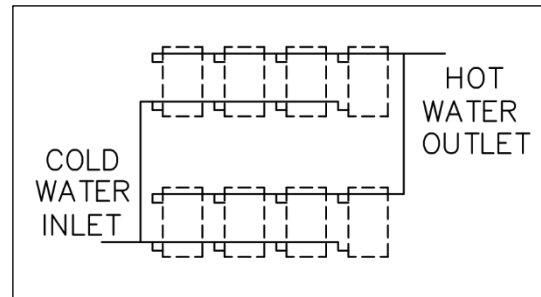
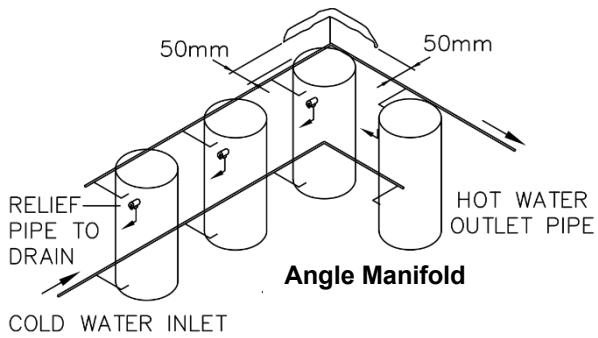
The cold water and hot water manifolds must be designed to balance the flow from each water heater. To achieve this, there are basic installation requirements and principles which must be followed:

1. The maximum number of water heaters in a bank should be 8, however several banks of water heaters can be installed.
2. The hot water line from the manifold must leave from the opposite end to which the cold water line enters the manifold.
3. The water heaters must be of the same model.
4. The cold water line, cold and hot headers and hot water line must be sized to meet the requirements of both AS/NZS 3500.4 and the application.
5. A non-return valve, isolation valve and if required a pressure limiting valve and expansion control valve, must be installed on the cold water line to the system.
6. A full flow gate valve or ball valve (not a stop tap, as used on a single water heater installation) must be installed on both the cold water branch and hot water branch of each water heater.
7. Non-return valves or pressure limiting valves **must not** be installed on the branch lines to the water heaters.
8. All fittings, valves and branch lines must be matched sets all the way along the manifold.
9. Sufficient space must be left to enable access, servicing or removal of any water heater. The outdoor model must be spaced at minimum 890 mm centres to provide the required clearance between flue terminals.
10. The temperature pressure relief valve drain line from each water heater can terminate at a common tundish (funnel) with a visible air break at each drain discharge point (refer to the diagram on page 39 and to "Relief Drain Line" on page 32).

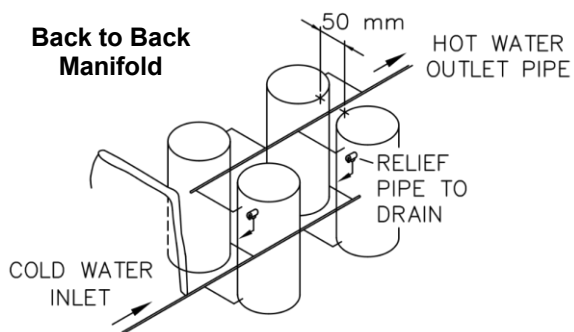
Refer to the diagrams on pages 39 to 41 for installation and plant layout details.



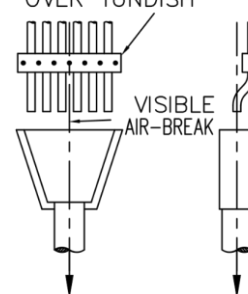
**Single Bank of Water Heaters**



**Multiple Banks of Water Heaters**

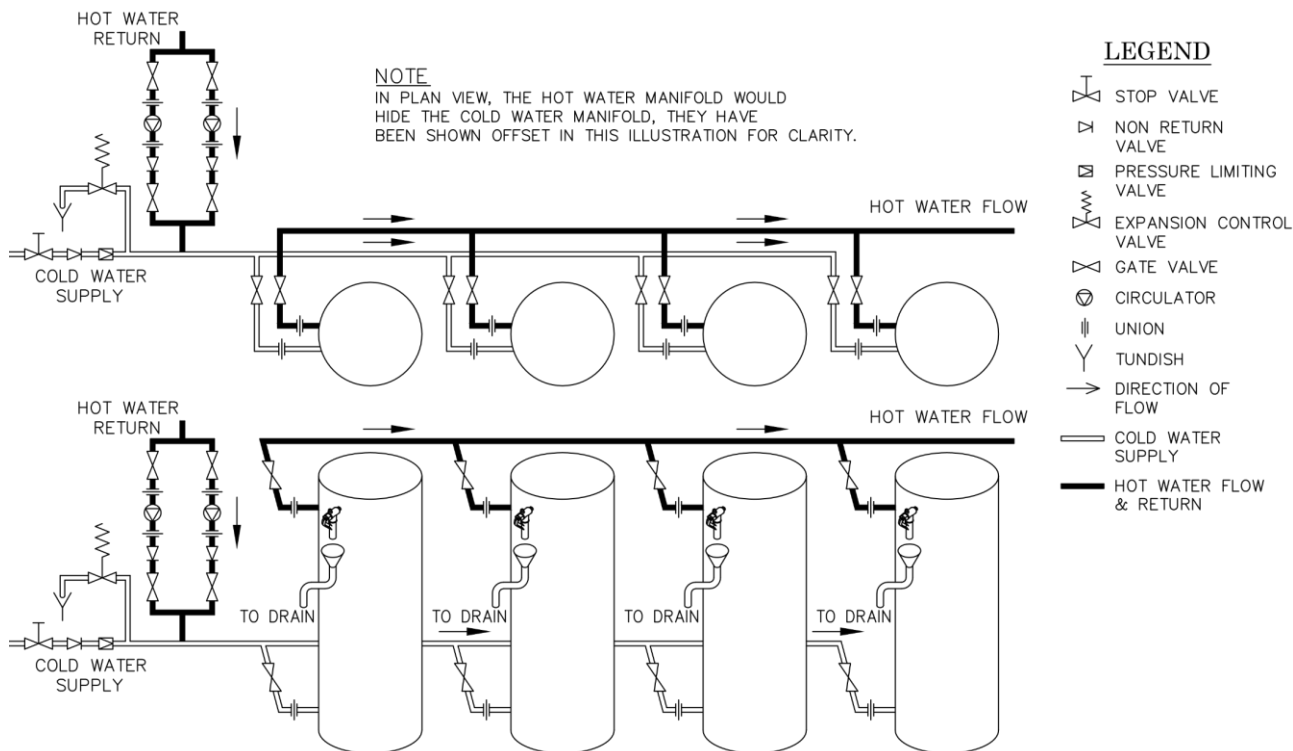


FIX ALL PIPES SECURELY  
IN POSITION CENTRALLY  
OVER TUNDISH

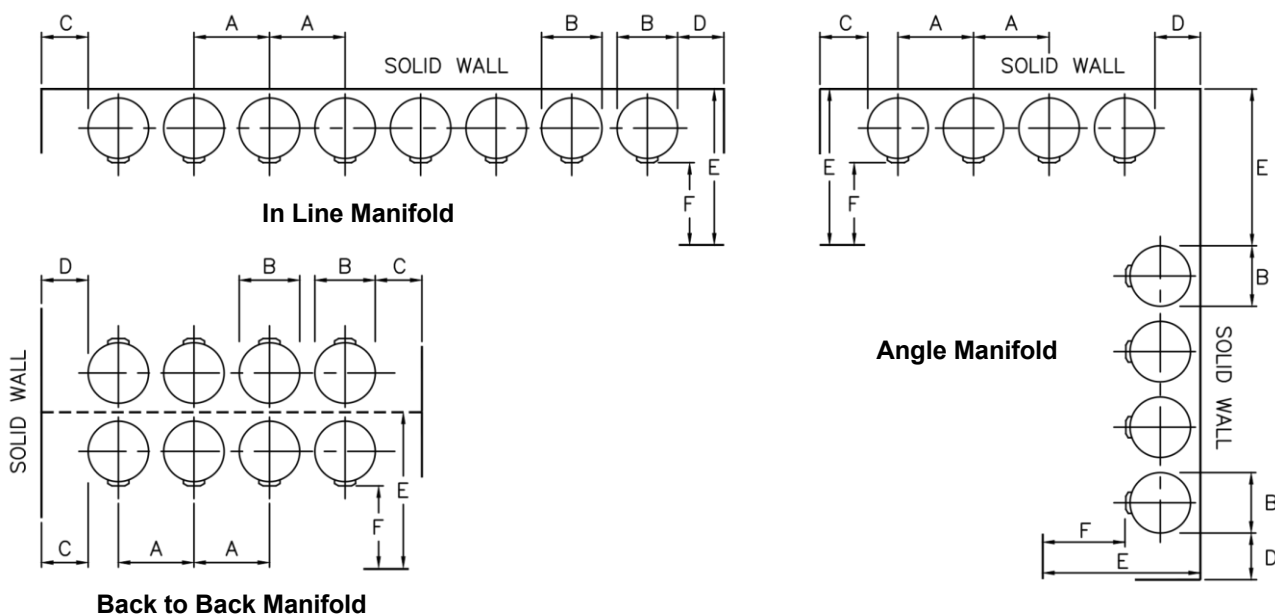


**TPR Valve Drain Line  
Common Discharge Point**

# TYPICAL INSTALLATION – EVERHOT HEAVY DUTY GAS WATER HEATERS



## INSTALLATION DIMENSIONS – EVERHOT HEAVY DUTY GAS WATER HEATERS



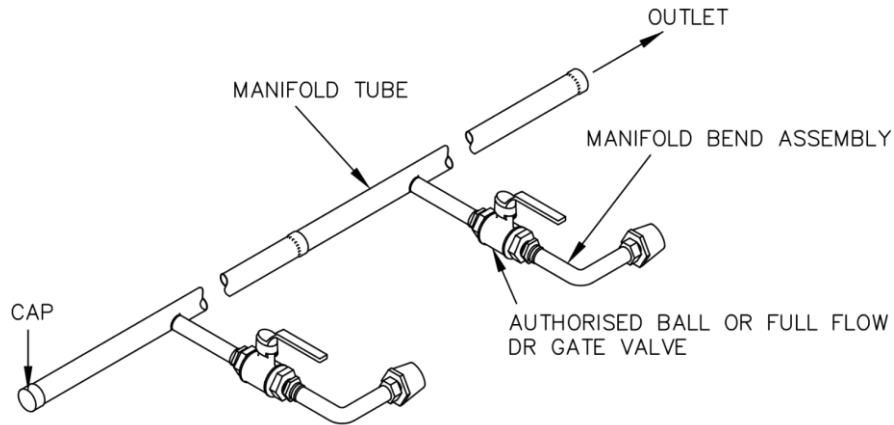
### Notes

1. Minimum recommended space between wall and back of water heater is 100 mm.
2. A minimum of 900 mm (E\* & F\*) should be left in front of the water heater for access, servicing and water heater removal.

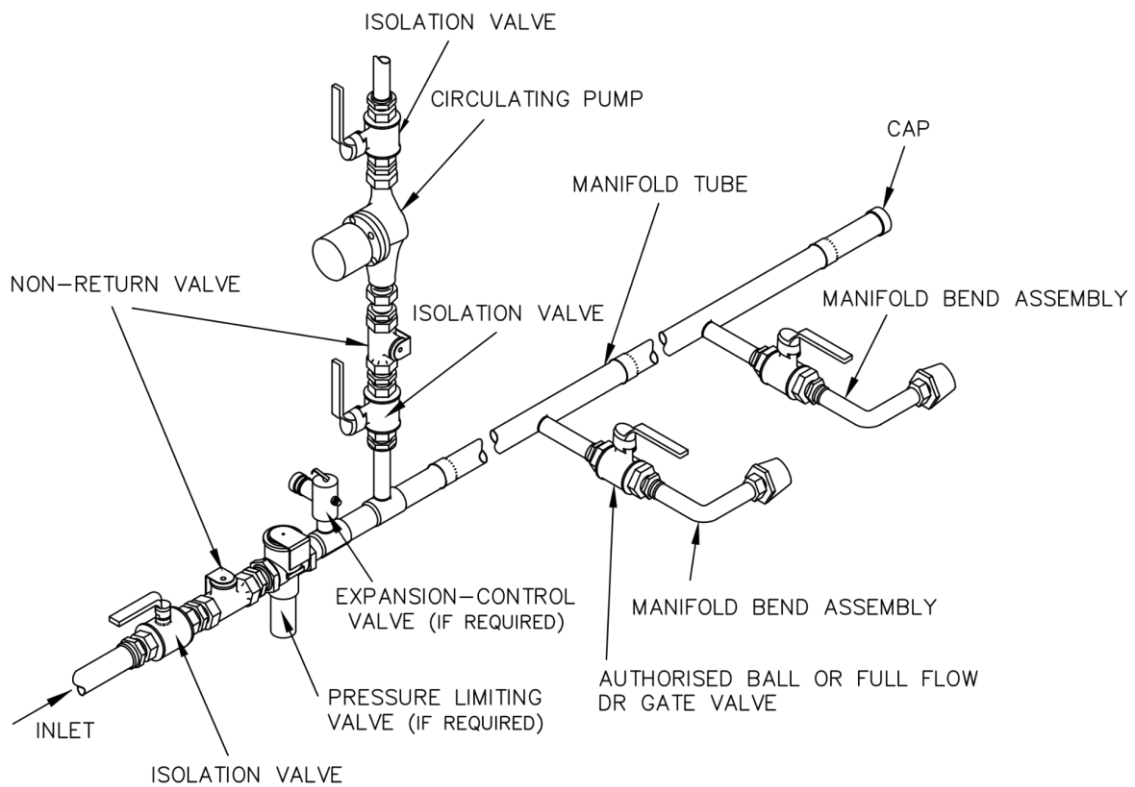
Installation Layout Minimum Dimensions						
Model	A	B	C	D	E *	F *
625275	890	645	300	100	1780	900
635275	890	645	370	370	1780	900



## MANIFOLD ARRANGEMENT



**Hot Manifold Assembly**



**Cold Manifold Assembly**

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## COMMISSIONING

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### TO FILL AND TURN ON THE WATER HEATER

**The power supply to the water heater must not be switched on until the water heater is filled with water and a satisfactory megger reading is obtained.**

- Open all of the hot water tap(s) in the building (don't forget the showers) and supply cock(s) and valve(s) in the system.
- Open the isolation valves fully on the cold and hot water branches to the water heater(s) installed in a bank.
- Open the cold water isolation valve on the cold water line to the water heater(s).

Air will be forced out of the taps.

- Close each tap as water flows freely from it.
- Check the pipe work for leaks.
- Inspect for leaks at the temperature pressure relief valve connection to the water heater.

If a leak is detected, close the cold water isolation valve fully and relieve pressure from the water heater by either operating the easing lever on the temperature pressure relief valve or opening a hot tap. Remove the valve and all of its thread sealant from the threads of the valve. Reapply new thread sealant and refit the valve. Refer to the procedure in "**Temperature Pressure Relief Valve**" on page 31.

- Operate the easing lever on the temperature pressure relief valve to check the smooth operation of the valve plunger and that water discharges freely from the drain line. It is very important the lever is raised and lowered gently. The lever should move smoothly and without undue force.

If the lever cannot be moved or is jerky in its movement, then the valve has been damaged and must be replaced.

- Open the gas isolation valve fully.
- Check the gas pipe work for leaks.
- Switch on the electrical supply at the isolating switch to the water heater(s).
- Check the pipe work again for leaks when the system has reached its working temperature.

**⚠ Warning:** Upon completion of the installation and commissioning of the water heater, leave this guide with the householder or a responsible officer. **DO NOT** leave this guide inside of the cover of the water heater, as it may interfere with the safe operation of the water heater or ignite when the water heater is turned on.

Explain to the householder or a responsible officer the functions and operation of the water heater.

### GAS INLET PRESSURE

**IMPORTANT – CHECK** the gas supply pressure at the inlet to the water heater with the water heater and all other gas burning appliances in the premises operating (burners alight). The minimum gas supply pressure is:

Natural Gas      1.13 kPa

If this minimum cannot be achieved, it may indicate the meter or the gas line to the water heater is undersized. It is important to ensure that an adequate gas supply pressure is available to the water heater when other gas burning appliances, on the same gas supply, are operating.

**TO TURN OFF THE WATER HEATER**

If it is necessary to turn off the water heater on completion of the installation, such as on a building site or where the premises is vacant, then:

- Switch off the electrical supply at the isolating switch to the water heater(s).
- Close the gas isolation valve(s) at the inlet to the gas control(s).
- Close the cold water isolation valve on the cold water line to the water heater(s) to shut down the entire system, or;
- Close the isolation valves on the cold and hot water branches to shut down an individual water heater in a bank.

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## LIGHTING THE WATER HEATER

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### FOR YOUR SAFETY READ BEFORE LIGHTING

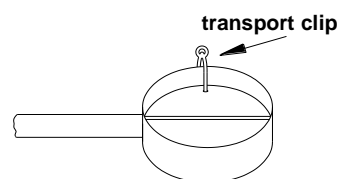
**⚠ Warning:** This gas water heater is designed to operate reliably and safely as long as the lighting procedure is followed **exactly**.

Make sure the water heater is filled with water and the water supply is on, otherwise serious damage to the vitreous enamel cylinder lining and plastic components may occur.

The installer must purge the gas line up to the gas control (refer to “Gas Inlet” on page 32), check all gas connections for leaks, gas supply pressure, test point pressure (refer rating label).

### Notes

- 625275 indoor model - remove the transport clip from the flue damper housing.
- A viewing window is provided to check burner operation on the water heater.



### LIGHTING PROCEDURE

The water heater incorporates an automatic ignition system.

1. Switch on the electrical supply at the isolating switch to the water heater.
2. When the controlling thermostat registers heating is required, the hot surface igniter rod warms up for 20 seconds. The burner will automatically ignite.
3. If burner ignition is unsuccessful, a second and third re-ignition attempt will occur after a five (5) minute delay between each try. This delay is to allow for any build-up of unburnt gas to escape.
4. If the third attempt is also unsuccessful, the system enters the re-ignition attempt lockout mode. To reset the water heater, press the illuminated red reset button. The button is located on the left hand side of the front cover and above the gas inlet. If the water heater fails to light, phone Rheem Service or their nearest Accredited Service Agent to arrange for an inspection.

### TEST THE WATER HEATER AFTER INSTALLATION

- The operation of the water heater must be thoroughly checked by the installer.
- The burner flame must light smoothly and quickly from the hot surface igniter and must go out quietly and completely.
- The burner flame must be stable, although slight lifting at the front edge of the burner is acceptable when the burner is cold.
- The burner flame should be blue, with a clearly defined inner cone - luminous yellow or “floating” flames are not acceptable.
- Check the test point pressure and compare with the rating label. Adjust if necessary.
- If unable to get the water heater working properly, contact Rheem Service or their nearest Accredited Service Agent to arrange for an inspection.
- When satisfied everything is working properly instruct the user in the correct method of operation.

## BURNER PRESSURE ADJUSTMENT

- Switch off the electrical supply at the isolating switch.
- Attach a manometer to the test spigot at side of gas control.
- Switch on the electrical supply at the isolating switch.
- Check the gas pressure (refer to data plate).
- If necessary adjust the regulator under the cap on top of the gas control. Access to the regulator is made available from behind the blue ignition control module.

## TEMPERATURE CONTROL

### HOTTER WATER INCREASES THE RISK OF SCALD INJURY

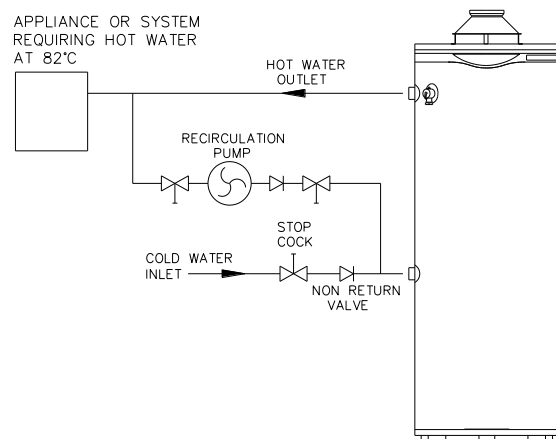
This water heater can deliver water at temperatures which can cause scalding.

It is necessary and we recommend that a temperature limiting device be fitted between the water heater and the hot water outlets in any ablution and public areas such as bathrooms, ensuites or public amenities, to reduce the risk of scalding. The installing plumber may have a legal obligation to ensure the installation of this water heater meets the delivery water temperature requirements of AS/NZS 3500.4 so that scalding water temperatures are not delivered to a bathroom, ensuite, or other ablution or public area.

### RECIRCULATION SYSTEM

Where the installation involves close temperature control for any purpose, or the installation is providing water above 80°C, it is **essential** to install a circulating pump. All valves and associated equipment must be suitable for safe operation up to the maximum thermal discharge temperature of the temperature pressure relief valve, i.e. 99°C.

Where water is required at a sanitising temperature of 82°C for dishwashing or air conditioning applications, the following installation is strongly recommended:



1. A recirculation pump must be fitted.
2. The pump must be capable of withstanding working pressures greater than 1000 kPa and be constructed of materials corrosion resistant to hot water.
3. The pump should be installed with a full flow service valve on each side of it.
4. A non-return valve should be fitted in the recirculation line to prevent back flow of hot or cold water.
5. Length of branch lines off the main recirculation line should be kept to a minimum.
6. The installation of gas, electric and water services must comply with all relevant local Authorities' regulations.
7. The cold water supply pressure or the setting of the pressure limiting valve must not exceed the working pressure of the pump.

**THERMOSTAT ADJUSTMENT**

The water heater is supplied with the thermostat preset at 70°C. It will be necessary to adjust the thermostat temperature setting if another temperature is required.

When adjusting the thermostat temperature it is necessary to alter the thermostat offset. The table outlines the thermostat temperature and the corresponding offset. **Failure to adjust the offset will result in incorrect water temperature.**

Temperature Setting	Offset
60	14
65	15
70	16
75	17
80	18
82 *	18

\* Recirculation required for 82°C setting



To adjust the thermostat temperature setting and offset:

1. Press the “**set**” button to enter the status menu.

The status menu has three items which can be displayed. The items are:

- (i) **SEt** (temperature set point)
- (ii) **CA1** (calibration offset)
- (iii) **Pb1** (probe 1)


2. Press the up button (▲) or the down button (▼) until **SEt** (temperature set point) is displayed.
3. Press the “**set**” button. The current temperature set point value will be displayed.
4. Press the down button (▼) to decrease or the up button (▲) to increase until the required temperature set point is displayed.
5. Press the “**set**” button to accept or “ⓘ” button to exit. The display returns to the status menu.
6. Press the up button (▲) once to display **CA1** (calibration offset).
7. Press the “**set**” button. The current offset value will be displayed.
8. Press the down button (▼) to decrease or the up button (▲) to increase until the required offset value (from the above table) that corresponds to the temperature set point selected in step 5 is displayed.  
e.g. if the temperature set point selected in step 5 is 65°C, then the offset value must be 15.
9. Press the “**set**” button to accept or “ⓘ” button to exit. The display returns to the status menu.
10. Press the “ⓘ” button to exit the status menu. The current water temperature will be displayed.

**Note:** During the programming process if a button is not pressed for 15 seconds the thermostat will revert to its previous temperature display. It will be necessary to start again from step 1.

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## DRAINING THE WATER HEATER

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 **Warning:** Exercise care, as water discharged from the water heater may be of a very high temperature.

To drain the water heater:

- Turn off the water heater (refer to [“To Turn Off The Water Heater”](#) on page 43).
- Close all hot water taps.
- Operate the relief valve lever - do not let the lever snap back or you will damage the valve seat. **It is very important the lever is raised and lowered gently.**

Operating the lever will release the pressure in the water heater.

- Remove the drain plug and insert a  $\frac{3}{4}$ " fitting suitable to receive a hose.
- Attach a hose to the  $\frac{3}{4}$ " fitting.

Let the other end of the hose go to a drain.

- Open the relief valve by holding the lever in the raised position.

This will let air into the water heater and allow the water to drain through the hose.

