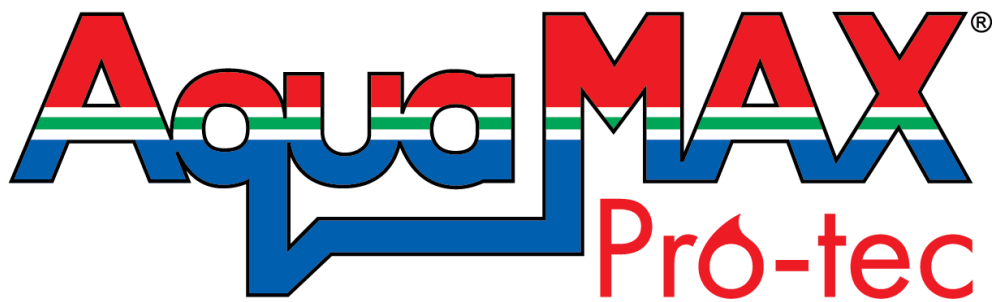



*Owner's Guide
and
Installation Instructions*



*Gas Continuous Flow
Water Heater
9P4, 9P6 series
A20, A26 models*

*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 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.

An electronic copy of these Owner's Guide and Installation Instructions can be downloaded from rheem.com.au or aquamax.com.au.

Rheem Australia Pty Ltd are the suppliers of the AquaMAX Pro-tec range of gas continuous flow water heaters, manufactured in Japan by Paloma Co., Ltd., a world leader in water heater technology and manufacture.

PATENTS

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

CONTENTS

HOUSEHOLDER

This booklet contains important information about your new water heater, including terms of the AquaMAX Pro-tec warranty.

We recommend you read pages 7 to 16,
and the terms of the AquaMAX Pro-tec warranty on pages 4 to 6.

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

Warranty	4
Safety, Warnings, Installation Notes	7
About Your Water Heater	9
Maintenance Requirements.....	13
Water Supplies.....	14
Save A Service Call	15
Installation.....	17
Connections – Plumbing	26
Connections – Electrical.....	27
Commissioning.....	29
Draining The Water Heater	38

RHEEM AUSTRALIA PTY LTD, A.B.N. 21 098 823 511

www.rheem.com.au, www.aquamax.com.au

For Service Telephone 131 031 AUSTRALIA

AQUAMAX PRO-TEC GAS CONTINUOUS FLOW WATER HEATER WARRANTY – AUSTRALIA ONLY

9P4, 9P6 SERIES A20, A26 MODELS

1. THE AQUAMAX PRO-TEC 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, the suppliers of AquaMAX Pro-tec gas continuous flow water heaters.
- 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 AquaMAX Pro-tec 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 (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 after 1st February 2024.
- 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 AQUAMAX PRO-TEC 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 AquaMAX Pro-tec 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 AquaMAX Pro-tec 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 AquaMAX Pro-tec water heater in its original installed location and any genuine AquaMAX Pro-tec replacement parts.
- 2.7 The AquaMAX Pro-tec 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.

AQUAMAX PRO-TEC GAS CONTINUOUS FLOW WATER HEATER WARRANTY – AUSTRALIA ONLY

9P4, 9P6 SERIES A20, A26 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.
 - k) Ice formation in the waterways of a water heater: where the electricity supply has been switched off or has failed and the water heater has not been drained in accordance with the instructions; or due to an ambient temperature below -20°C (including wind chill factor).
- 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 AquaMAX Pro-tec water heater literature, any resultant fault will not be covered by the AquaMAX Pro-tec warranty.

3. WHAT IS COVERED BY THE AQUAMAX PRO-TEC 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.
All components (only if the water heater is installed in a single-family domestic dwelling)	Years 2 & 3	Repair and/or replacement of the faulty component, free of charge, including labour.
The heat exchanger (only if the water heater is installed in a single-family domestic dwelling)	Years 4 to 10	Replacement heat exchanger, free of charge. Installation and repair labour costs are the responsibility of the owner.

AQUAMAX PRO-TEC GAS CONTINUOUS FLOW WATER HEATER WARRANTY – AUSTRALIA ONLY

9P4, 9P6 SERIES A20, A26 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 In Australia, 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 AquaMAX Pro-tec warranty (set out above) is in addition to any rights and remedies that you may have under the Australian Consumer Law.

SAFETY, WARNINGS, INSTALLATION NOTES

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

SAFETY AND WARNINGS

- The water heater heats the water to the preset outlet temperature setting. The outlet temperature setting can be up to 75°C for a 9P4 series water heater or up to 50°C for a 9P6 series water heater.

The temperature from a 9P4 series water heater 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 the kitchen and laundry.

Refer to:

- “How Hot Should the Water Be?” on page 9, and
 - “Hotter Water Increases the Risk of Scald Injury” on page 10.
- This water heater is only intended to be operated by persons who have the experience or the knowledge and the capabilities to do so.
 - This water heater is not intended to be operated by persons with reduced physical, sensory or mental capabilities i.e. the infirm, or by children. Children should be supervised to ensure they do not interfere with or play with or at the water heater.
 - If the power supply cord or plug 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 power lead from the water heater must be plugged into a weatherproof electrical outlet. Take care not to touch the power plug with wet hands.
 - The water heater uses 220 V – 240 V a.c. electrical power for operation of the control systems and the combustion fan. The removal of the front panel will expose 220 V - 240 V a.c. wiring. It must only be removed by a qualified person. Do not operate the water heater with the front panel removed.
 - This water heater is supplied with temperature sensors, a FlameSafe® protection system and a 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 AquaMAX Pro-tec 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.

- 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.
- Do not modify this water heater.
- Switch off the electrical supply at the power outlet to the water heater prior to performing general maintenance. This will prevent the water heater from operating while you clean or spray around the water heater.

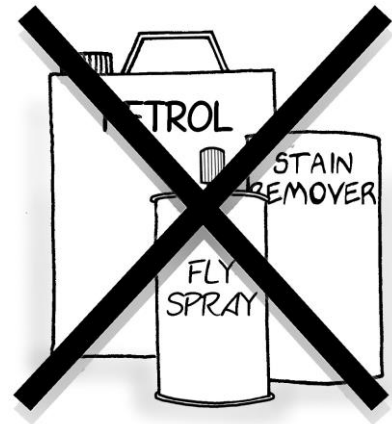
Refer to “General Maintenance” on page 13 for additional information.

- The water heater has a frost protection system to protect against damage by preventing ice forming in the waterways of the water heater, in the event of freezing conditions occurring. The frost protection system will be rendered inoperable if electrical power is not available at the water heater. If it is necessary to switch the power off to the water heater and there is a risk of freezing, then it is necessary to drain the water heater.

Refer to:

- “Frost Protection” on page 10, and
- “Draining the Water Heater” on page 12.

- 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 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 flue terminal. Ensure the flue terminal is not obstructed in any way at any time.
- Do not use Propane / Butane gas mixtures in a Propane model. A Propane model is designed to operate on Propane only. The use of Propane / Butane mixture, such as automotive LP gas fuel, in a Propane model is unsafe and can cause damage to the water heater.



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 water heater is designed for outdoor installation only.
 - 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,
 - The Gas installations Standard AS/NZS 5601.1 places limitations on the location of a gas water heater within a covered area.
Refer to [“Installation within a Covered Area”](#) on page 19.
- 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 17 to 37](#).

Mains pressure water supply

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

The maximum mains water supply pressure for the water heater is 1,000 kPa. If the mains supply pressure in your area exceeds 1,000 kPa, an approved pressure limiting valve that does not have non-return valve characteristics (such as an RMC PSL series valve) must be installed.

A minimum water supply pressure of 120 kPa is required to achieve the rated flow and performance of the water heater.

Refer to [“Mains Water Supply”](#) on page 20 for additional information.

Mounting of the water heater

This water heater must be installed vertically upright with the water, gas and power connections on the underside, pointing toward the ground. The back of the water heater can be either against a wall or supported by a frame. The water heater must be well secured to the wall or frame using two fasteners, suitable for the wall or frame type, each at the top and bottom of the unit. Refer to the [note](#) on page 18 for additional information.

ABOUT YOUR WATER HEATER

WATER HEATER APPLICATION

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

MODEL TYPE

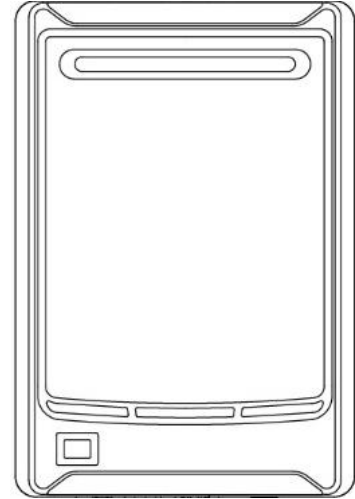
The AquaMAX Pro-tec gas continuous flow water heater model you have chosen is for outdoor installation only.

The water heater has a maximum preset outlet temperature setting of:

- 9P4 series 75°C
- 9P6 series 50°C

Note: The 9P6 series water heater is marked “THIS APPLIANCE DELIVERS WATER NOT EXCEEDING 50°C IN ACCORDANCE WITH AS 3498” on the front panel.

- A 9P6 series model **must not** be installed as an in-series gas booster to a solar water heater, as water temperature greater than 50°C can be delivered from the water heater contravening its compliance to AS 3498.



WATER HEATER OPERATION

The water heater operates automatically, heating water as it passes through the water heater. When a hot tap is opened, the gas burners ignite to provide immediate heating of the water. The heat produced by the burner is transferred to the water through the heat exchanger. The water is heated to a constant temperature by the automatic adjustment of the gas supply to the burner to suit the water flow rate. The gas burners extinguish when the hot tap is closed.

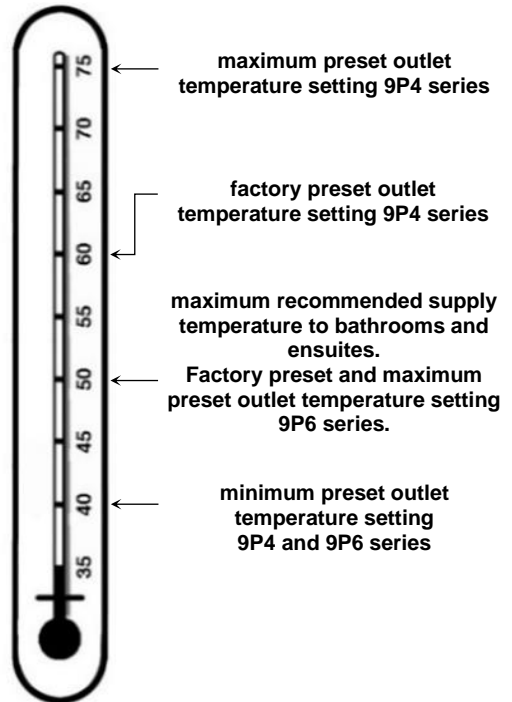
Automatic safety controls are fitted to the water heater to provide safe and efficient operation.

HOW HOT SHOULD THE WATER BE?

The water heater heats the water to the preset outlet temperature setting. The factory preset outlet temperature setting is:

- 9P4 series 60°C
- 9P6 series 50°C

Note: The preset outlet temperature setting of this water heater cannot be adjusted by the householder. The setting can only be adjusted by the installer, Rheem Service or their nearest Accredited Service Agent.



HOTTER WATER INCREASES THE RISK OF SCALD INJURY

⚠ Warning: This water heater can deliver water at temperatures which can cause scalding.

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.

9P4 series – Hot Water Outlet

Depending upon its preset outlet temperature setting, a 9P4 series water heater can deliver hot water at temperatures up to 75°C. These temperatures are sufficiently hot to cause severe scalding. Water at these temperatures may have been plumbed to fixtures where water hotter than 50°C is allowed, such as the kitchen and laundry.

We recommend and it may be required by regulations that an approved temperature limiting device be fitted into the hot water pipe work to the bathroom and ensuite when a 9P4 series water heater is installed. This will keep the water temperature below 50°C at the bathroom and ensuite. The risk of scald injury will be reduced and if the preset outlet temperature setting has not been adjusted below 60°C, still allow hotter water to the kitchen and laundry.

9P6 series – 50°C Limited Outlet

A 9P6 series water heater delivers water not exceeding 50°C in accordance with AS 3498. The risk of scald injury will be reduced.

There is no need to fit a temperature limiting device to satisfy the requirements of the Plumbing Code of Australia, if a 9P6 series water heater is installed and serving an application where 50°C is the maximum permissible hot water temperature at the outlet of a fixture used primarily for personal hygiene, such as in a bathroom or ensuite.

REDUCED HOT WATER FLOW WHEN HEAT EXCHANGER IS COLD

At a cold start-up, i.e. when the water heater has not operated for some time (which is most often first thing in the morning), the initial flow of hot water may be reduced for a period of 5-10 seconds while the heat exchanger warms up. **This is both an energy and water saving feature of this water heater.** Once the heat exchanger has warmed up the hot water flow will increase and remain at normal flow levels. This feature will only occur at a cold start-up and not when the heat exchanger is already warm from a recent use of hot water.

PRECAUTIONS

The water heater must be maintained in accordance with the Owner's Guide and Installation Instructions. Refer to "[General Maintenance](#)" on page 13 and "[Major Service Every Five Years](#)" on page 13.

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 a plumber or specifier about your needs and building back-up redundancy into your hot water supply system.

FROST PROTECTION

The water heater has a frost protection system. The frost protection system will protect the water heater from damage, by preventing ice forming in the waterways of the water heater, in the event of freezing conditions occurring.

Notes

- The frost protection system will be rendered inoperable if electrical power is not available at the water heater. Damage caused by freezing due to the unavailability of power at the water heater is not covered by the AquaMAX Pro-tec warranty (refer to "[Terms of the AquaMAX Pro-tec Warranty](#)" on page 4).
- If it is necessary to switch the power off to the water heater and there is a risk of freezing, then it is necessary to drain the water heater (refer to "[Draining the Water Heater](#)" on page 12).
- Pipe work to and from the water heater must be adequately insulated to prevent freezing.
- The water heater is not suitable for installation in areas where the ambient temperature falls below -20°C (including wind chill factor).
- Refer to "[Terms of the AquaMAX Pro-tec Warranty](#)" on page 4.

TO TURN OFF THE WATER HEATER

If it is necessary to turn off the water heater:

- Switch off the electrical supply at the power outlet to the water heater if there is no risk of freezing conditions occurring (refer to note below).
- Close the gas isolation valve at the inlet to the water heater.
- Close the cold water isolation valve at the inlet to the water heater.

Note: If there is a risk of freezing conditions, the electrical supply to the water heater should not be switched off unless the water heater is drained, otherwise damage could result (refer to “[Frost Protection](#)” on page 10 and “[Draining the Water Heater](#)” on page 12).

TO TURN ON THE WATER HEATER

- Screw in the drain plugs at the cold water inlet and hot water outlet of the water heater if the water heater has been drained.
- Open all of the hot taps in the house (don't forget the shower).
- Open the cold water isolation valve fully at the inlet to the water heater.
Air will be forced out of the taps.
- Close each tap as water flows freely from it.
- Open the gas isolation valve fully at the inlet to the water heater.
- Plug in the power supply cord at the power outlet.
- Switch on the electrical supply at the power outlet to the water heater.

The water heater will operate automatically when you open a hot tap.

CIRCULATED HOT WATER FLOW AND RETURN SYSTEM

An AquaMAX Pro-tec 9P4 series continuous flow water heater can be installed as part of a circulated hot water flow and return system in a building. Refer to “[Circulated Hot Water Flow and Return System](#)” on page 22 for further information and notes on this type of installation.

GOING ON HOLIDAYS

If you are going on holidays, it is not necessary to turn the water heater off. If it is necessary to turn off the water heater, refer to “[To Turn Off The Water Heater](#)” on page 11.

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 14.

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 page 14](#).

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 10.

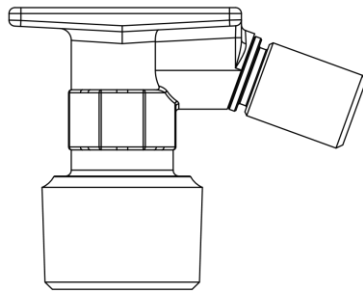
DRAINING THE WATER HEATER

- Turn off the water heater (refer to "Turn Off The Water Heater" on page 11).
- Open a hot tap (preferably the shower outlet).
- Unscrew the two drain plugs, one each at the cold water inlet and hot water outlet, on the underside of the water heater.

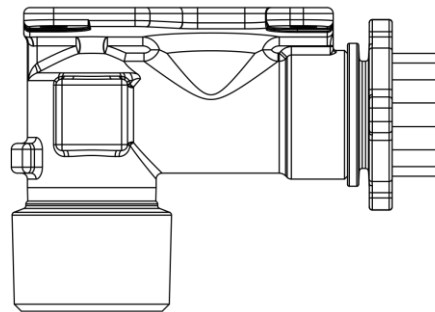
Water will drain from the water heater.

- When water stops flowing from the water heater, close the hot tap.

Note: It is recommended not to screw the drain plugs back in, until the water heater is to be turned on again.



OUTLET



INLET

MAINTENANCE REQUIREMENTS

GENERAL MAINTENANCE

General maintenance can be performed by the dwelling occupant. It is recommended general maintenance be conducted every six (6) months or more regularly as required.

Switch off the electrical supply at the power outlet to the water heater prior to performing general maintenance. This will prevent the water heater from operating while you clean or spray around the water heater. Switch on the electrical supply at the power outlet to the water heater when finished performing the general maintenance.

The general maintenance includes:

- The jacket of the water heater can be cleaned with a soft cloth and warm mild soapy water if required. Under no circumstances should abrasive materials or powders be used.
- Inspect around the air inlet, flue terminal and the water heater in general for plant growth.
 - Trim back any shrubs, bushes or other plants which have encroached around the water heater.

Plant growth across the air inlet and flue terminal can interfere with the performance of the water heater.
- Inspect around the water heater for infestations of insects, such as ants. Insects encroaching into or nesting in the water heater can interfere with the operation of the water heater and also damage components. The area around the water heater can be sprayed with insecticide to rid the area of insects.

⚠ Warning: Do not spray insecticide near the water heater while it is operating. Propellants in many insect sprays contain hydrocarbons which are flammable. Gases from aerosol sprays may also become corrosive when drawn into a flame.

- If necessary to rid the area of insects:
 - Ensure the electrical supply at the power outlet to the water heater has been switched off.
 - Spray the affected area, taking care not to spray into the air inlet or flue terminal or onto the surface of the water heater.
 - Wait a few minutes to allow any aerosol gases to dissipate before switching on the electrical supply at the power outlet to the water heater.

MAJOR SERVICE EVERY FIVE YEARS

For safe and efficient operation, it is recommended a major service be conducted on the water heater every five (5) years.

⚠ Warning: Servicing of a 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, if required, are not included in the AquaMAX Pro-tec 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:

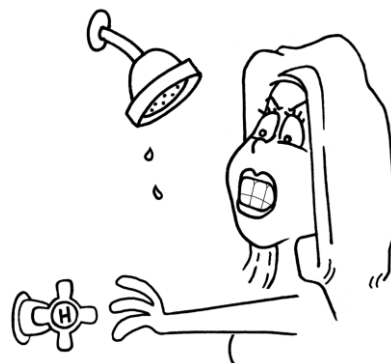
- Check and if necessary adjust the gas pressure.
- Check the operation of and clean the burner.
- Check and clean the line strainer.
- Visually check the unit for any potential problems.
- Inspect all connections.

SAVE A SERVICE CALL

Check the items below before making a service call. You will be charged for attending to any condition or fault, which is not related to manufacture or failure of a part (refer to “[Terms of the AquaMAX Pro-tec Warranty](#)” on page 4).

COLD WATER FROM THE HOT TAP

- Close the hot tap, wait 10 seconds and open the hot tap again.
- Is the hot tap open enough?
The burners will not light if the flow rate is less than 2.0 L / min.
- Is the water heater plugged in and the power outlet switched on?
- Is power available in the house?
Try using another electrical appliance.
- Is the isolation valve in the gas line open?
- Is there a gas supply to the rest of the house?
Try lighting another gas appliance.
- Has the gas line been purged of air after installation?
Refer to a plumber.



WATER IS NOT HOT ENOUGH

For a 9P6 series water heater, 50°C is the maximum available temperature setting.

REDUCED HOT WATER FLOW WHEN HEAT EXCHANGER IS COLD

At a cold start-up, i.e. when the water heater has not operated for some time (which is most often first thing in the morning), the initial flow of hot water may be reduced for a period of 5-10 seconds while the heat exchanger warms up. **This is both an energy and water saving feature of this water heater.** Once the heat exchanger has warmed up the hot water flow will increase and remain at normal flow levels. This feature will only occur at a cold start-up and not when the heat exchanger is already warm from a recent use of hot water.

NO WATER FROM THE HOT TAP

No flow of water from the hot tap may indicate a restriction in or failure of the cold water supply to the water heater. Check for water flow at other taps and that the cold water isolation valve ([refer to page 26](#)) is fully open.

WATER FLOW FLUCTUATES

Too many taps in use at the same time may cause a decrease in the hot water flow from the taps.

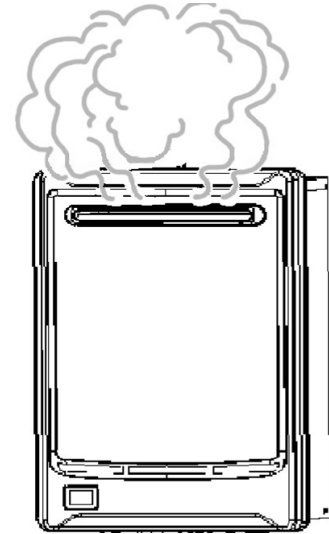
- Are there several hot taps open, or are appliances such as a dishwasher or washing machine, in use at the same time?
Ensure only one or two hot taps (A20 models) or no more than two or three hot taps (A26 models) or appliances are on at the one time.
- Check the flow of hot water from each tap to see if one or more outlets are using more water than you think.
Have a plumber install a flow control valve to each shower outlet, basin and sink to reduce water usage.

FAN CONTINUES TO RUN AFTER WATER HEATER OPERATION STOPS

It is the normal operation of the water heater for the fan to continue running after heating of the water is finished. The fan may run for up to two minutes after the burners extinguish, to prepare for the next ignition.

CLOUDS OF WHITE 'VAPOUR' FROM THE FLUE TERMINAL

During the heating cycle, it is not unusual to see water vapour clouds steaming from the flue terminal, particularly on cold days. This is normal operation of the water heater.



PRESSURE RELIEF VALVE DISCHARGING

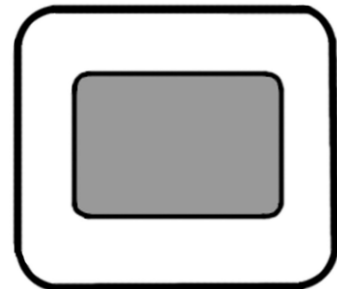
A pressure relief valve is incorporated into the water heater controls. This valve protects the water heater, by allowing water to escape, in the event of excessive pressure build-up in the waterways.

- **Normal operation**
A small volume of water may discharge from the bottom of the water heater when a hot tap is suddenly closed.
- **Continuous dribble**
A continuous dribble may indicate the water supply pressure is above the design pressure for the water heater. If so, a pressure limiting valve must be installed on the cold water supply pipe to the water heater (refer to "Mains Water Supply" on page 20).

ERROR CODE

The water heater provides a diagnostic error code in the event of an interruption to its operation. The error code is displayed on the LED display on the front of the water heater as a numerical value. If an error code appears:

- Close the hot tap and switch off the electrical supply to the water heater.
- Check the gas isolation valve at the gas inlet to the water heater is fully open.
- Wait 5 minutes, then switch on the electrical supply to the water heater and open a hot tap.



If the error code persists, take note of the numerical code and turn off the hot tap. Phone Rheem Service or their nearest Accredited Service Agent to arrange for an inspection.

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:

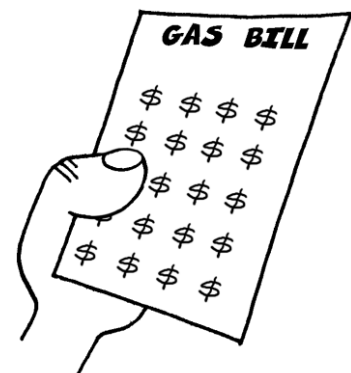
- Is one outlet (especially the shower) using more hot water than you think?

Carefully review the family's hot water usage. Inexpensive flow control valves can be easily fitted to the shower outlets to reduce water usage.

- 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.

INSTALLATION

**THIS WATER HEATER IS FOR OUTDOOR INSTALLATION ONLY.
THIS WATER HEATER IS NOT SUITABLE FOR POOL HEATING.
Check the water heater is suitable for the gas type available.
(refer to the rating label on the water heater)**

INSTALLATION STANDARDS

The water heater must be installed:

- by a qualified person, and
- in accordance with 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,
 - The Gas installations Standard AS/NZS 5601.1 places limitations on the location of a gas water heater within a covered area. Refer to “[Installation within a Covered Area](#)” on page 19.

9P4 series

⚠ 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 21.

9P6 series

This water heater delivers water not exceeding 50°C in accordance with AS 3498.

⚠ Warning: This water heater must only be installed in accordance with the acceptable plumbing configurations specified in these installation instructions. Failure to do so may result in conditions where delivery temperature control is inadequate. Refer to “[Water Temperature Diagrams](#)” on page 23.

All packaging materials must be removed from the water heater prior to its installation.

WATER HEATER APPLICATION

This water heater is designed for use in a single family domestic dwelling 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: The 9P6 series of water heater is marked “THIS APPLIANCE DELIVERS WATER NOT EXCEEDING 50°C IN ACCORDANCE WITH AS 3498” on the front panel.

- The 9P6 series models **must not** be installed as an in-series gas booster to a solar water heater, as water temperature greater than 50°C can be delivered from the water heater contravening its compliance to AS 3498.

WATER HEATER LOCATION

The water heater is suitable for outdoor installation only and should be installed close to the most frequently used outlet and its position chosen with safety and service in mind. Make sure people (particularly children) will not touch the flue terminal. The flue terminal and air inlet 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 entire front panel can be removed for service. You must be able to read the information on the rating plate. Remember you may have to take the entire water heater out later for servicing.



This water heater must be installed vertically upright with the water, gas and power connections on the underside, pointing toward the ground. The back of the water heater can be either against a wall or supported by a frame. A heat shield or insulating material or an air gap is not required between the back of the water heater and the wall or frame to comply with the temperature limitation requirement of AS/NZS 5601.1.

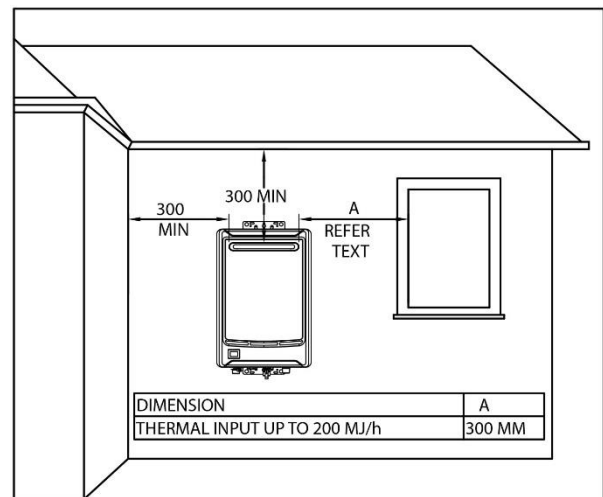
Note: The water heater must be well secured to the wall or frame using two fasteners each at the top and bottom of the unit (refer to pages 23 and 24 for the **weight of the water heater** and **mounting hole positions**). Use the screws provided only if they are suitable for the wall or frame type. Otherwise select and use alternative fasteners suitable for the application. The fasteners must be capable of bearing the full weight of the water heater so it may not work loose nor impose any load on the gas and water pipe work connected to the water heater. Refer to the fastener manufacturer's information and recommendations for the type of fastener to use for the wall or frame type and load bearing requirements.

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.

A secondary flue is not required. The water heater must not be installed indoors or in a confined space.

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 300 mm between the top of the flue terminal and the eaves.
- At least 300 mm 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 between the top of the flue terminal and the edge of any opening into the building, such as an openable window, measured vertically.
- At least 300 mm between the flue terminal and a return wall or external corner, measured horizontally*.
- At least 1500 mm between the flue terminal and any opening into a building, in the direction of the flue discharge.
- At least 500 mm between the flue terminal and a fence, wall or other obstruction, in the direction of the flue discharge.
- More than 450 mm between the flue terminal and a property boundary unobstructed by a fence, wall or other obstruction, in the direction of the flue discharge.



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.

INSTALLATION WITHIN A COVERED AREA

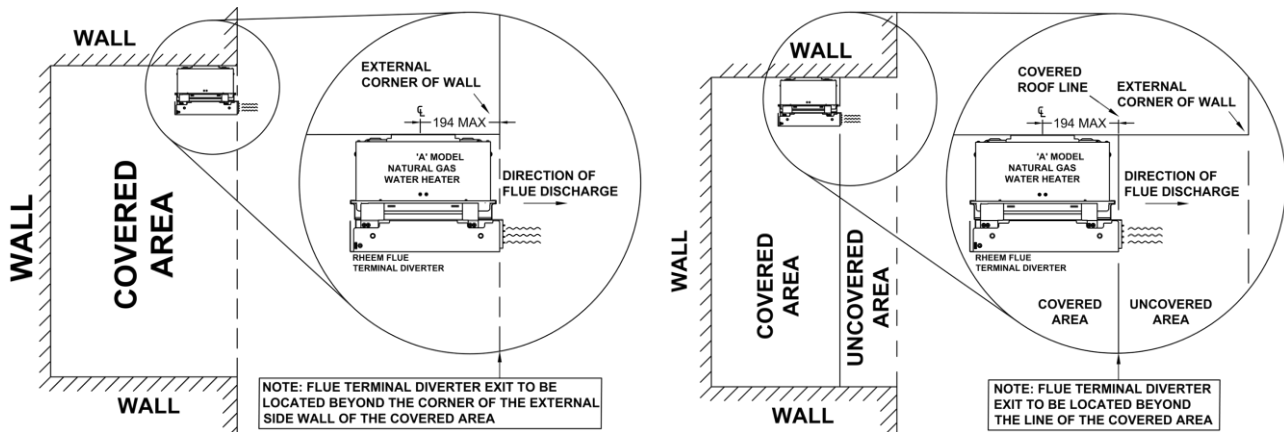
The water heater must be located such that the installation meets the requirements of AS/NZS 5601.1. There must be sufficient ventilation, so the water heater has an adequate supply of combustion air, and the flue products are readily dispersed safely and avoid being a nuisance. It is the licensed installer's responsibility to ensure the installation complies with the relevant sections of the Gas Installations Standard.

Installation of this water heater under a partially or fully covered area or in a recess that:

- (a) is not a balcony and is open on at least two sides, if its flue terminal is located to ensure a free flow of air across it is achieved, or
- (b) is not a balcony and is open on one side only, if the flue terminal extends beyond either an external corner or the covered area and discharges toward the open side to ensure that combustion products discharge to open atmosphere, or
- (c) is a balcony and regardless of the number of open sides, the flue extends beyond either an external corner or any covered area and discharges toward an open side to ensure that combustion products discharge to open atmosphere.

Additional clearances to openings into the building or obstructions also apply, refer to AS/NZS 5601.1 Clause 6.9.3.

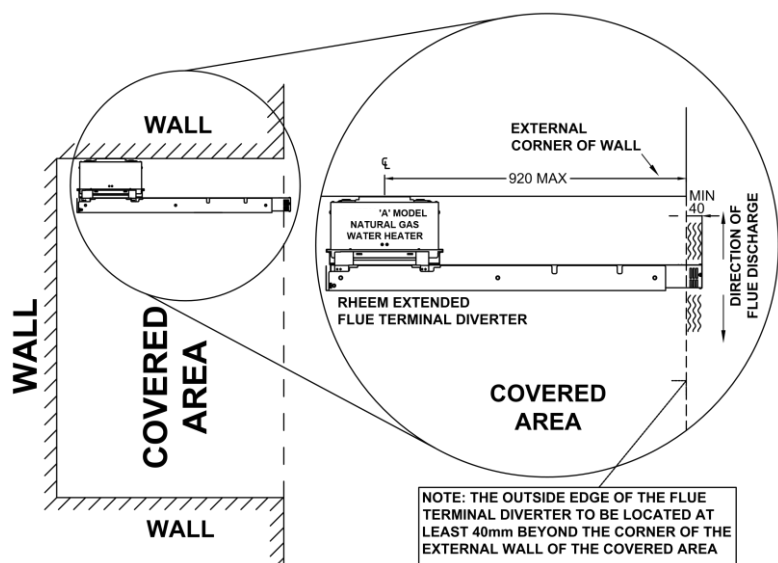
AquaMAX Pro-tec 9P4 and 9P6 series A26NF natural gas models fitted with a Flue Terminal Diverter (kit number 299336) in accordance with its installation instructions, can be installed to meet the requirements of points (b) and (c).



A26NF models – with a Flue Terminal Diverter – installed in compliance with AS/NZS 5601.1

AquaMAX Pro-tec 9P4 and 9P6 series A26NF natural gas models fitted with an Extended Flue Terminal Diverter (kit number 299334) in accordance with its installation instructions, can be installed to meet the requirements of points (b) and (c), if positioned so the outside edge of the Flue Terminal Diverter extends at least 40 mm beyond the external corner of the covered area.

Note: AquaMAX Pro-tec 9P4 and 9P6 series A26PF propane gas models are not certified to be installed with either the Flue Terminal Diverter or the Extended Flue Terminal Diverter.

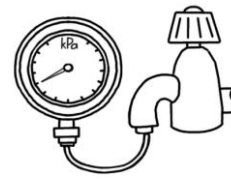


**A26NF models
with an Extended Flue Terminal Diverter
installed in compliance with AS/NZS 5601.1**

MAINS WATER SUPPLY

Where the mains water supply pressure exceeds that shown in the table below, an approved pressure limiting valve that does not have non-return valve characteristics (such as an RMC PSL series valve) is required and should be fitted as shown in the [water and gas connection detail diagram](#) on page 26.

Model	A20, A26
Relief valve setting	1750 kPa
Maximum mains supply pressure	1000 kPa
Minimum mains supply pressure *	120 kPa



* minimum water supply pressure required to achieve the rated flow and performance

Notes

- It is not recommended to install this water heater with a low pressure water supply.
- A minimum water supply pressure of 120 kPa is required to achieve the rated flow and performance of the water heater.
- If sludge or foreign matter is present in the water supply, it is recommended a suitable filter be incorporated in the cold water line to the water heater.
- This water heater is not suitable for connection to bore water or spring water unless a water treatment device is fitted.
- Refer to [“Water Supplies”](#) on page 14 for further information on water chemistry.

FROST PROTECTION

The water heater has a frost protection system. The frost protection system will protect the water heater from damage, by preventing ice forming in the waterways of the water heater, in the event of freezing conditions occurring.

The frost protection system will be rendered inoperable if electrical power is not available at the water heater. Damage to the water heater caused by freezing of the pipe work to or from the water heater is not covered under the AquaMAX Pro-tec warranty. Refer to AS/NZS 3500.4 for precautions to be taken for installations in frost prone areas. The water heater is not suitable for installation in areas where the ambient temperature falls below -20°C (including wind chill factor).

The cold water line to the water heater must be insulated with suitable thickness insulation if freezing conditions are likely to occur. The insulation must be fitted to the underside of the water heater and be weatherproof and UV resistant if exposed.

REDUCING HEAT LOSSES

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. The insulation must be fitted up to the connections on the underside of the water heater.

HOT WATER DELIVERY

⚠ Warning: This water heater can deliver water at temperatures which can cause scalding.

9P6 series – 50°C Limited Outlet

A 9P6 series water heater delivers water not exceeding 50°C in accordance with AS 3498. The risk of scald injury will be reduced.

There is no need to fit a temperature limiting device to satisfy the requirements of the Plumbing Code of Australia, if a 9P6 series water heater is installed and serving an application where 50°C is the maximum permissible hot water temperature at the outlet of a fixture or appliance used primarily for personal hygiene, such as in a bathroom or ensuite.

9P4 series – Hot Water Outlet

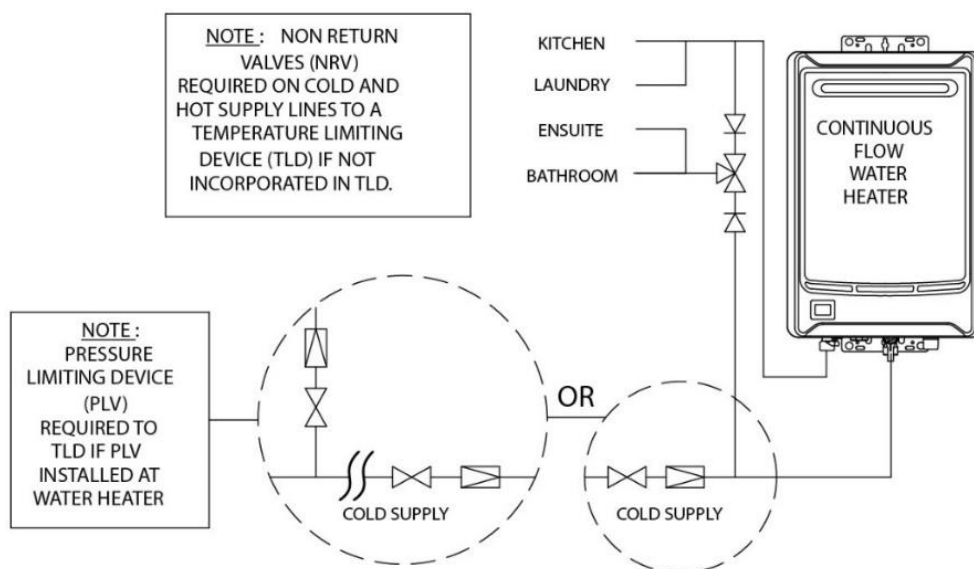
Depending upon its preset outlet temperature setting, a 9P4 series water heater can deliver hot water at temperatures up to 75°C. These temperatures are sufficiently hot to cause severe scalding. Water at these temperatures may be plumbed to fixtures where water hotter than 50°C is allowed, such as the kitchen and laundry.

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 a 9P4 series water heater and the fixtures and appliances used primarily for personal hygiene such as in a bathroom, ensuite, public amenities or other ablation areas, to reduce the risk of scalding. The temperature limiting device must be of a type suitable for use with a gas continuous flow water heater. Refer to the manufacturer’s specifications of the temperature limiting device.

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 and pressure limiting valve 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 AquaMAX Pro-tec 9P4 series continuous flow water heater can be installed as part of a circulated hot water flow and return system in a building.

Notes

- the preset outlet temperature 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 preset outlet temperature setting of the water heater must be set to above 60°C to ensure the return water temperature is not less than 55°C.

The circulator must be:

- sized and set to provide a minimum flow rate of 3.0 L/min through the recirculated hot water flow and return system, and
- either thermostatically and / or timer controlled.

The circulator **must not** be set to operate continuously, i.e. 24 hours per day.

⚠ Warning: An AquaMAX Pro-tec 9P6 series continuous flow water heater **must not** be installed as part of a circulated hot water flow and return system in a building.

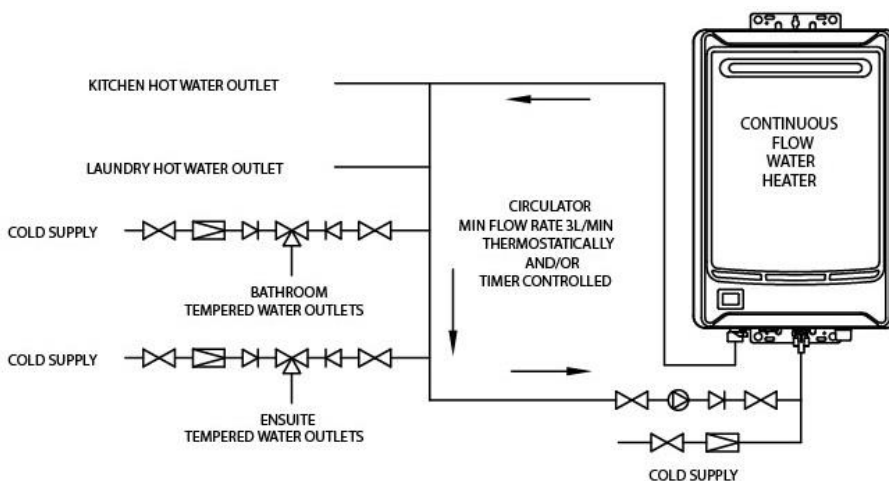
Temperature Limiting Device

A temperature limiting device cannot be installed in circulated hot water flow and return pipe work. 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.

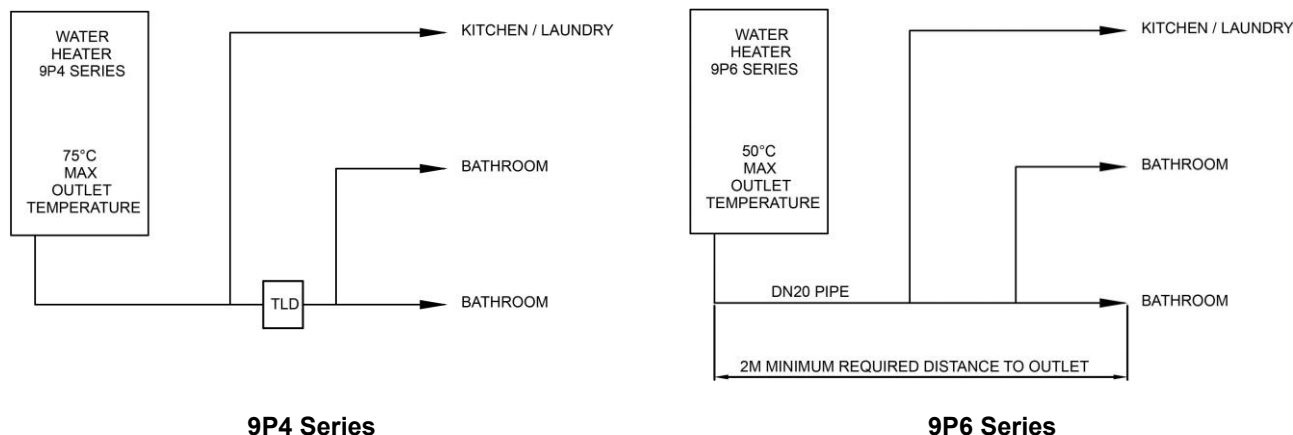
These conditions may result in either water at a temperature exceeding the requirements of AS/NZS 3500.4 being delivered to the hot water outlets in the ablution areas, or the device closing completely and not delivering water at all, or the device failing. Under either condition, the operation and performance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



Note: A PLV is required to be installed on the cold supply line to the tempering valve if a PLV is installed on the cold supply line to the water heater. Non return valves (NRV) are required on the cold and hot supply lines to a temperature limiting device (TLD) if they are not incorporated into the TLD.

Circulated Hot Water Flow and Return – Gas Continuous Flow Water Heater

WATER TEMPERATURE DIAGRAMS



Notes

- Temperature Limiting Devices – refer to “Hot Water Delivery” on page 21.
- Factory preset outlet temperature setting is:
 - 9P4 series 60°C
 - 9P6 series 50°C

TECHNICAL DATA

Models		9P4A20*	9P4A26
Gas type suffix		9P6A20 NF, PF	9P6A26 NF, PF
Water heating capacity @ 40°C rise	litres / min	12.5	16.2
Nominal capacity @ 25°C rise	litres / min	20	26
Mass Empty (unpackaged)	kg	17.5	17.5

Gas Details	Hourly Gas Consumption (MJ)		Min. Gas Pressure (kPa)	Max. Gas Pressure (kPa)	Injector Size (mm) 40 x injectors per water heater
	A20*	A26	A20*, A26		
Natural	157	199	1.13	3.50	20 x Ø 1.55 + 20 x Ø 1.03
Propane	157	199	2.75	3.50	20 x Ø 1.10 + 20 x Ø 0.73

Gas Details	Test Point Gas Pressure (kPa)			
	minimum		maximum	
	9P4A20* 9P6A20	9P4A26 9P6A26	9P4A20* 9P6A20	9P4A26 9P6A26
Natural	0.160	0.160	0.630	0.950
Propane	0.190	0.190	0.705	1.075

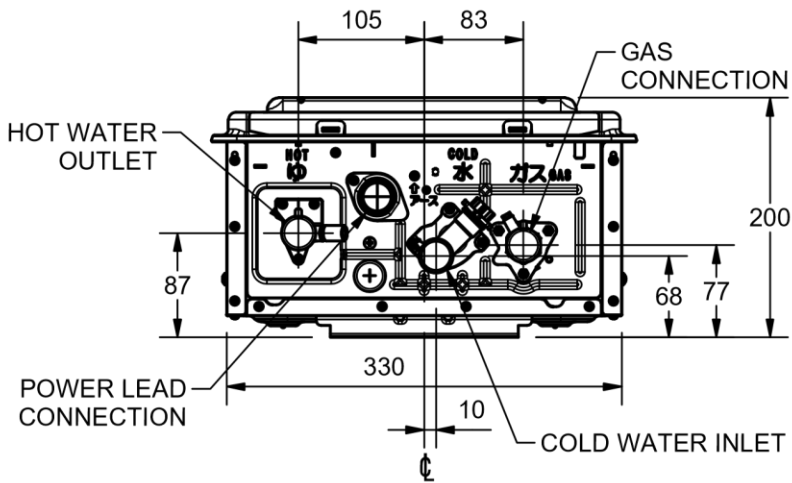
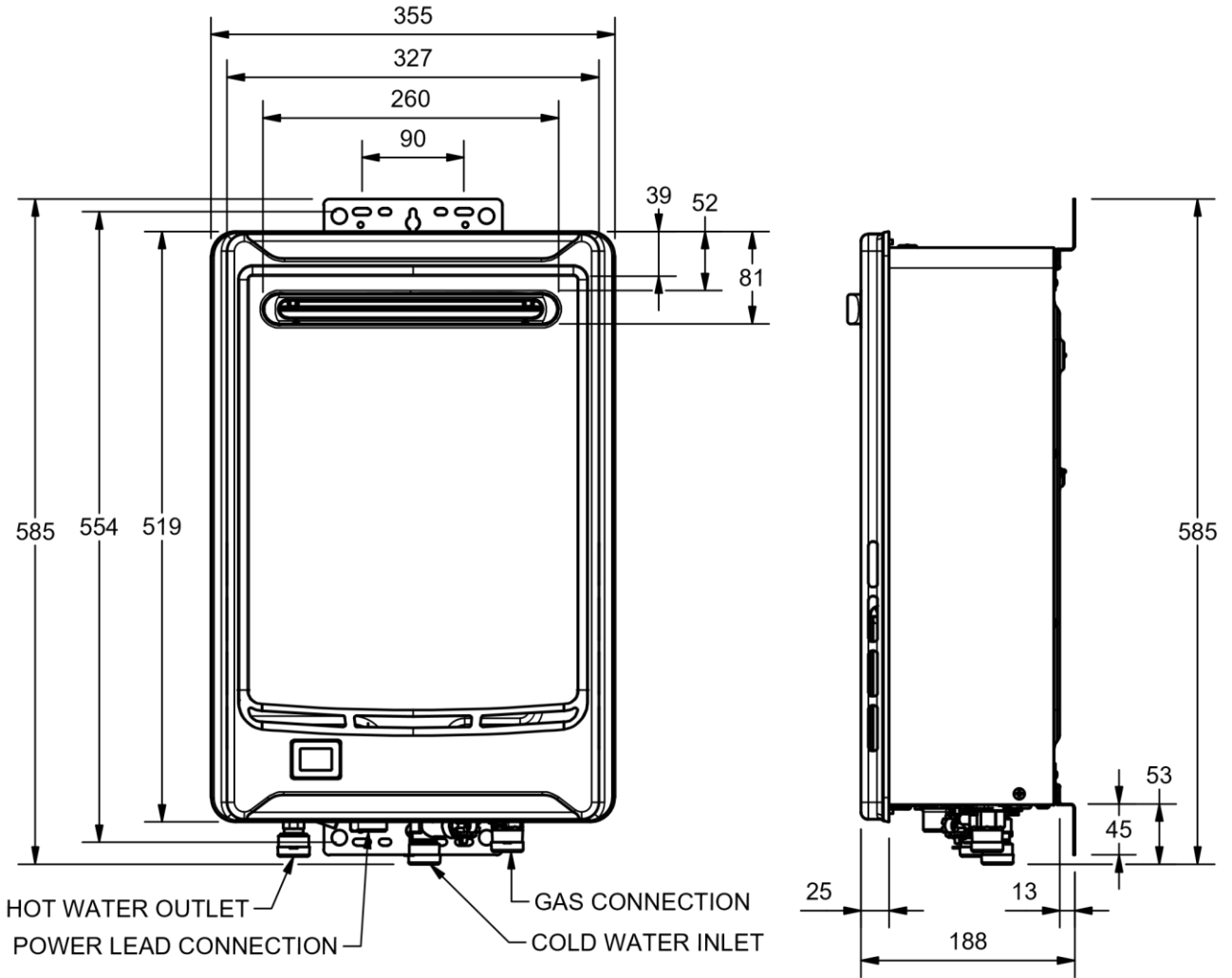
* **Note:** The 9P4A20 model is available as a Natural Gas model only, i.e. 9P4A20NF. The 9P6A20 model is available as a Natural Gas model, i.e. 9P6A20NF, and as a Propane Gas model, i.e. 9P6A20PF.

Technical data is subject to change.

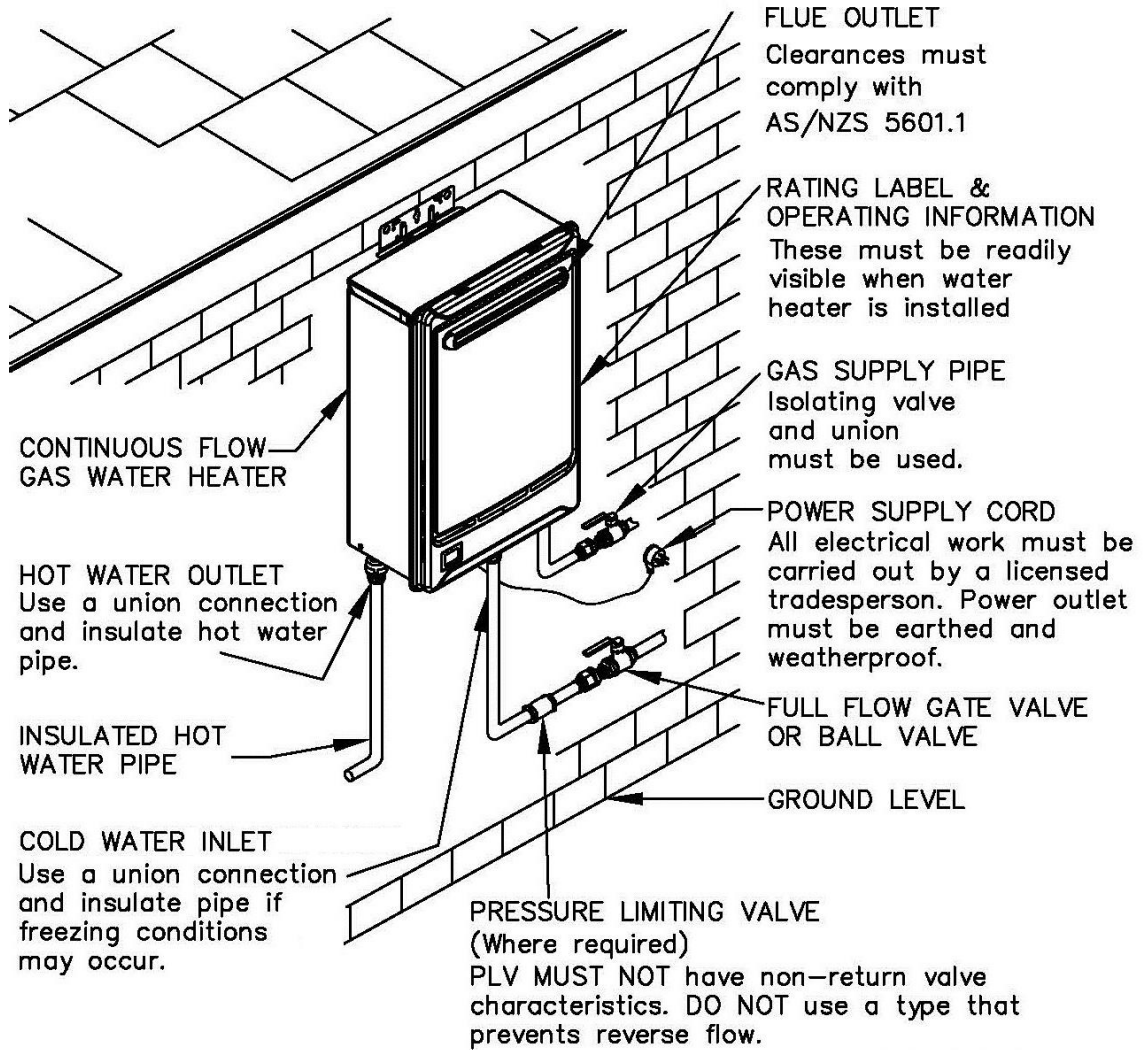
Model numbers

- Gas type Letter N or P is included in the model number to denote gas type.
N = Natural, P = Propane.
E.g. 9P4A26NF, 9P4A26PF.
- Frost protection Letter F is included in the model number to denote frost protection.

DIMENSIONS – WATER HEATER



TYPICAL INSTALLATION – OUTDOOR LOCATION



CONNECTIONS – PLUMBING

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

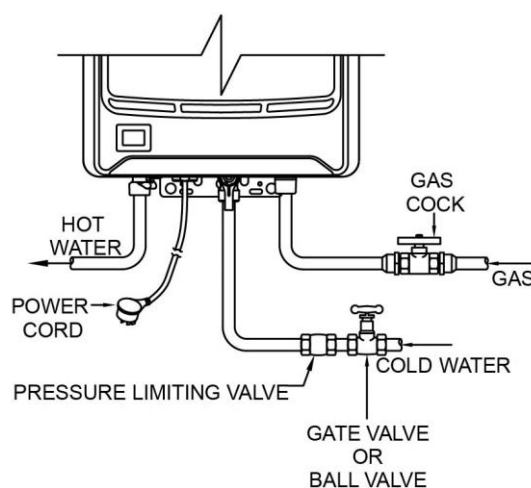
Model	9P4 series	9P6 series
Hot water outlet connection	R 3/4	-
50°C limited outlet connection	-	R 3/4
Cold water inlet connection	R 3/4	R 3/4
Gas inlet connection	R 3/4	R 3/4

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. Only use sufficient thread sealant to seal a joint. Refer to the sealant manufacturer's guidelines for how much and where to use.

Warning: Sealant must not be allowed in the waterways of pipe work or fittings. Excess sealant may be carried into the water heater where it will damage components and block the internal filters. This damage to components or blockage of filters is not covered by the AquaMAX Pro-tec warranty and a service rectification fee will be charged.

A full flow gate valve or ball valve must be installed on the cold water line to the water heater. **A non-return valve or stop tap must not be installed.** An acceptable arrangement is shown in the diagram. Refer also to "Hot Water Delivery" on page 21 and to "Mains Water Supply" on page 20.



**Gas Water Heater
Cold and Hot Water and Gas Connection Details**

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.

Insulation used on the cold and hot water lines must extend up to the cold water inlet and hot water outlet of the water heater.

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.

Notes

- It is essential all pipe connections be correctly aligned, otherwise component connections within the water heater may be strained and / or components themselves misaligned. It is recommended also, wherever possible, pipe connections be made at the water heater first and final pipe runs be made in soft copper pipe to allow some adjustment for misalignment.
- Use the spanner flats on the water heater fittings and take care to avoid twisting the water inlet and outlet pipes inside the jacket.

PIPE SIZES

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

To achieve true mains pressure operation, the cold water line to the water heater should be the same size or bigger than the hot water line from the water heater.

The minimum recommended cold pipe and hot pipe size is DN20.

GAS INLET

The gas connection is made at the underside of the water heater. The pipe work must be cleared of foreign matter before connection and purged before attempting to operate the water heater. An isolation valve and disconnection union must be installed to allow servicing and removal of the water heater (refer to the [diagram on page 26](#)).

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 high gas input of this water heater (refer to [table on page 23](#)) 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 isolation valve to prevent the risk of serious damage to the gas control. The AquaMAX Pro-tec warranty does not cover damage of any nature resulting from failure to observe this precaution. Refer to rating label for gas types and pressures.

CONNECTIONS – ELECTRICAL

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 is supplied with a 1.8 metre lead and plug and requires a weatherproof 220 V - 240 V a.c. 50 Hz general purpose outlet (GPO) to be located within 1.2 metres of the installation. The GPO must be clear of the flue exhaust, draining water, gas supply pipe and water connections.

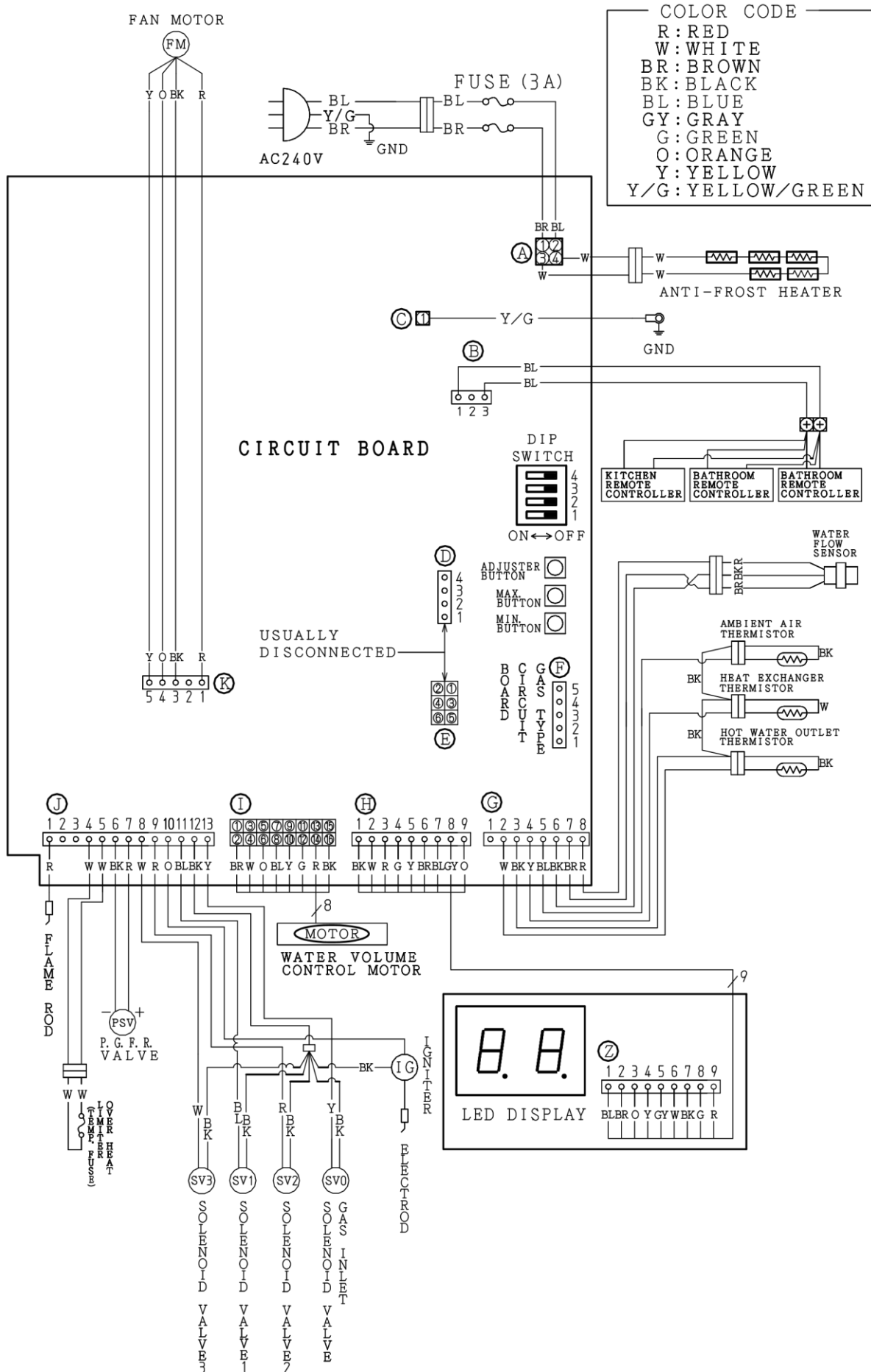
The power consumption of the water heater is:

Power consumption (watts) - Burner on, anti-frost device inactive		
	9P4A20, 9P6A20	9P4A26, 9P6A26
Model	220 V – 240 V	220 V – 240 V
Natural	43.9	60.1
Propane	47.6	64.8

Power consumption (watts) - Burner on, anti-frost device active		
	9P4A20, 9P6A20	9P4A26, 9P6A26
Model	220 V – 240 V	220 V – 240 V
Natural	116	133
Propane	119	136

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.

WIRING DIAGRAM



Wiring Diagram – 9P4, 9P6 Series A20, A26 Models

COMMISSIONING

All water heaters are tested and adjusted before dispatch from the factory, however further adjustments may become necessary because of local conditions.

TO TURN ON THE WATER HEATER

- Open all of the hot taps in the house (don't forget the shower).
- Open the cold water isolation valve fully at the inlet to the water heater.
Air will be forced out of the taps.
- Close each tap as water flows freely from it.
- Check the pipe work for leaks.
- Open the gas isolation valve fully.
- Check the gas pipe work for leaks.
- Plug in the water heater at the power outlet and switch on the electrical supply.
- Open a hot tap.
The water heater will operate automatically.
- Check to ensure the flow from each connected hot tap is sufficient to operate the water heater.
The minimum operating flow rate for all models is 2.0 litres per minute.
- Check and if required adjust the preset outlet temperature setting of the water heater.
Refer to “[Preset Outlet Temperature Setting](#)” on page 33.
- Check and if required adjust the outlet compensation temperature adjustment on a 9P6 series water heater.
Refer to “[Outlet Temperature Compensation Adjustment](#)” on page 35.

The automatic water governor incorporated in the water heater is not adjustable.

To complete the installation, it is necessary to check the gas supply pressure at the inlet to the water heater (refer to “[Gas Inlet Pressure](#)” on page 29), the minimum test point pressure and the maximum test point pressure (refer to “[Burner Gas Pressure](#)” on page 31).

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

⚠ 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.

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:

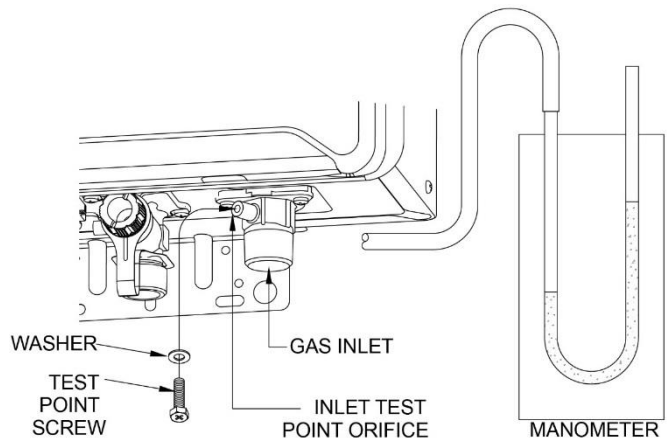
Natural Gas	1.13 kPa	Propane	2.75 kPa
-------------	----------	---------	----------

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.

Gas Inlet Test Point Pressure

To check the gas inlet pressure:

1. Close any hot taps and ensure the burners are not operating.
2. Close the gas isolation valve at the gas inlet to the water heater.
3. Locate the gas inlet test point on the gas connection to the water heater.
 - Remove the test point screw and washer from the test point orifice.
 - Connect the manometer.
4. Open the gas isolation valve fully at the gas inlet to the water heater.
5. Observe the gas pressure reading on the manometer.



If the manometer reading is between the minimum and maximum inlet gas pressure ratings on the rating label, no adjustment is required.

If the manometer reading is below the minimum inlet gas pressure rating on the rating label, then either the gas pipe to the water heater is undersized and needs to be rectified or adjustment is required at the gas regulator.

If the manometer reading is above the maximum inlet gas pressure ratings on the rating label, then adjustment is required at the gas regulator.

6. Switch on the electrical supply at the power outlet to the water heater if it is not already switched on.
7. Open a hot tap fully and ensure the burners are fully ignited.

It may be necessary to open a second tap.
8. Turn on all other gas burning appliances in the house which are on the same gas supply.
9. Observe the gas pressure reading on the manometer.

If the manometer reading is between the minimum and maximum inlet gas pressure ratings on the rating label, no adjustment is required.

If the manometer reading is below the minimum inlet gas pressure rating on the rating label, then either the gas pipe to the water heater is undersized and needs to be rectified or adjustment is required at the gas regulator.

If the manometer reading is above the maximum inlet gas pressure ratings on the rating label, then adjustment is required at the gas regulator.

10. Turn off the other gas burning appliances in the house.
11. If an adjustment was made during Step 9, repeat this procedure from Step 5.
12. Close the hot tap(s).
13. Close the gas isolation valve at the inlet to the water heater.
14. Remove the manometer and refit and tighten the test point screw and washer.
15. Open the gas isolation valve fully at the gas inlet to the water heater.
16. Open a hot tap again so the burners ignite.
17. Test for gas leaks.
18. Close the hot tap.

BURNER GAS PRESSURE

It is necessary to check the burner gas pressure at both the minimum and maximum operational settings. To check and if necessary adjust the operational gas pressures, the electrical supply to the water heater must be switched on, the burners ignited and hot water must be flowing from a hot tap.

⚠ Warning: The removal of the front panel will expose 220 V - 240 V a.c. wiring. Take care not to touch wiring terminals.

Minimum test point gas pressure

Refer to the rating label on the water heater for the minimum test point gas pressure.

1. Close any hot taps and ensure the burners are not operating.
2. Switch off the electrical supply at the power outlet to the water heater.
3. Remove the top and bottom cover strips to gain access to the front panel screws by pressing on the two ridged finger points and gently pulling forward.
4. Remove the screws holding the front panel to the jacket.
5. Gently disengage the front panel and pull forward to remove from the water heater.
6. Locate the burner pressure test point on the main burner manifold
 - Remove the test point screw and washer from the test point orifice.
 - Connect the manometer.
7. Switch on the electrical supply at the power outlet to the water heater.
8. Open the gas isolation valve fully at the gas inlet to the water heater, if not already open.
9. Open a hot tap slowly until the burners ignite.
10. Press and hold down the MIN button and observe the reading on the manometer.
 - "1L" is shown on the LED display.
11. Release the MIN button.

If the manometer reading observed in step 10 agrees with the rating label, no further adjustment is required.

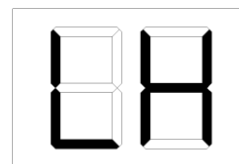
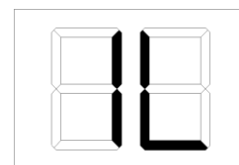
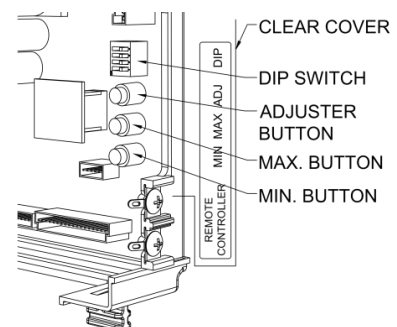
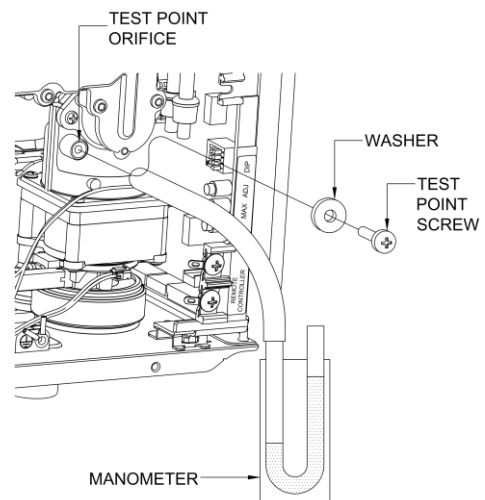
12. To adjust, press and hold down the adjuster button.
 - "LH" is shown on the LED display.

Note: The adjuster button must be held down continuously through steps 12 to 14.

13. Press and hold down the MIN button and observe the reading on the manometer.
 - The manometer reading will change as the test point gas pressure adjusts.

Note: While the MIN button is pressed, the gas pressure will at first increase then decrease, cycling between an upper gas pressure limit (59 on the LED display) and a lower gas pressure limit (01 on the LED display).

14. Release the MIN button when the reading on the manometer agrees with the rating label.
15. Release the adjuster button.



Notes

- If the burners extinguish and an error code 11 or 12 starts to flash on the LED display:
 - release the MIN and adjuster buttons
 - close the hot tap
 - clear the error code (refer to “Clearing Error Code” on page 32)
 - recommence the procedure from Step 9.
- If the adjuster button is released before Step 14, clear any error code (if displayed) and recommence the procedure from Step 9.

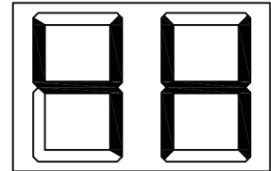
Maximum test point gas pressure

Refer to the rating label on the water heater for the maximum test point gas pressure.

Follow Steps 9 to 15 of the “Minimum test point gas pressure” procedure on page 31, but open the hot tap fully and use the MAX button instead of the MIN button. It may be necessary to open two or three hot taps fully, depending upon the model of water heater and the incoming cold water temperature.

Notes

- In Step 10, “4H” will be shown on the LED display.
- In Step 13 While the MAX button is pressed, the gas pressure will at first increase then decrease, cycling between an upper gas pressure limit (39 on the LED display) and a lower gas pressure limit (01 on the LED display).



After setting the minimum and maximum test point gas pressures:

- Close the hot tap.
- Remove the manometer and refit and tighten the test point screw and washer.
- Open a hot tap again so the burners ignite.
- Test for gas leaks.
- Close the hot tap.
- Switch off the electrical supply at the power outlet to the water heater
- Refit the front panel and screws to the water heater.
- Refit the cover strips to the top and bottom of the front panel by inserting the two posts into the two recesses and gently pushing into position.

Clearing Error Code

If an error code does appear on the LED display during the commissioning process, it will be necessary to clear the error in order to complete the installation.

To clear an error code:

- Switch off the electrical supply at the power outlet to the water heater.
- Check the gas isolation valve at the gas inlet to the water heater is fully open.
- Wait five (5) minutes.
- Switch on the electrical supply at the power outlet to the water heater.

PRESET OUTLET TEMPERATURE SETTING

The factory preset outlet temperature setting of the water heater is:

- 9P4 series 60°C
- 9P6 series 50°C

It is usually not necessary to adjust the factory preset outlet temperature setting of the water heater unless the customer has a particular requirement for this to be done.

Refer to “[To Check or Adjust the Preset Outlet Temperature Setting](#)” on page 33 to check or if required to adjust the preset outlet temperature setting of the water heater.

Note: Consideration must be given to the delivery temperature to any ablution and public areas such as a bathroom, ensuite or public amenities. Refer to “[Hot Water Delivery](#)” on page 21.

TO CHECK OR ADJUST THE PRESET OUTLET TEMPERATURE SETTING

The temperature setting will be displayed on the LED display. The preset outlet temperature settings are:

- 9P4 series 40°C, 42°C, 45°C, 50°C, 55°C, 60°C, 70°C, 75°C
- 9P6 series 40°C, 42°C, 45°C, 50°C

It is necessary to have the electrical supply to the water heater switched on during stages of checking or adjusting the preset outlet temperature setting procedure.

⚠ Warning: The removal of the front panel will expose 220 V - 240 V a.c. wiring. Take care not to touch wiring terminals. The adjustment must be carried out by a qualified person.

⚠ Warning: This procedure will involve the adjustment of dip switches. Adjustment of a dip switch should only be made with an insulated tool.

To check or adjust the preset outlet temperature setting:

1. Switch off the electrical supply at the power outlet to the water heater.
2. Remove the top and bottom cover strips to gain access to the front panel screws by pressing on the two ridged finger points and gently pulling forward.
3. Remove the screws holding the front panel to the jacket.
4. Gently disengage the front panel and pull forward to remove from the water heater.
5. Close the cold water isolation valve at the inlet to the water heater.
6. Switch on the electrical supply at the power outlet to the water heater.

Note: Wait five (5) seconds for the electronic system to initialise.

7. Switch DIP switches 3 and 4 to the on (left side) position on the PCB.

The current preset outlet temperature setting will show on the LED display.

If the temperature displayed on the LED display is the desired preset outlet temperature setting, then proceed to step 9, as no further adjustment is necessary.

8. Press the MAX button to increase or the MIN button to decrease the preset outlet temperature setting.

Each press of the MAX or MIN button will increase or decrease the preset temperature by one increment.

The MAX and MIN buttons are located below the DIP switches and adjuster button.

9P4 series

The increments are 40°C, 42°C, 45°C, 50°C, 55°C, 60°C, 70°C, 75°C.

9P6 series

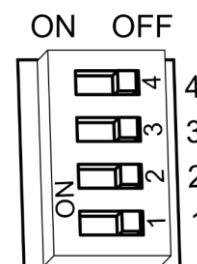
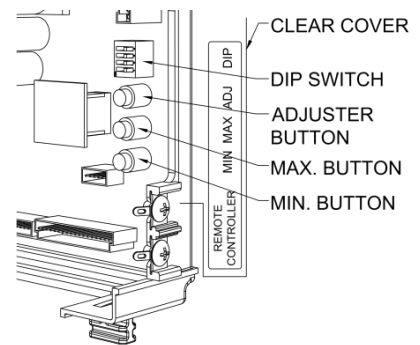
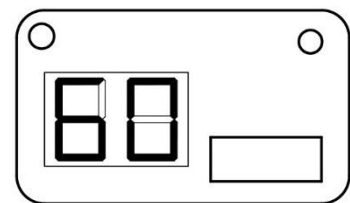
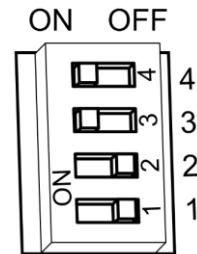
The increments are 40°C, 42°C, 45°C, 50°C.

9. Switch DIP switches 3 and 4 to the off (right side) position.

The LED display will go blank.

Note: Wait five (5) seconds for the setting to be saved. The preset outlet temperature setting is now set.

10. Switch off the electrical supply at the power outlet to the water heater.
11. Refit the front panel and screws to the water heater.
12. Refit the cover strips to the top and bottom of the front panel by inserting the two posts into the two recesses and gently pushing into position.
13. Open the cold water isolation valve fully at the inlet to the water heater.
14. Switch on the electrical supply at the power outlet to the water heater.



OUTLET TEMPERATURE COMPENSATION ADJUSTMENT

The outlet temperature compensation adjustment function is only applicable to 9P6 series A20 and A26 model water heaters.

The maximum outlet temperature may be adjusted to compensate for temperature losses in the pipe work between the water heater outlet and fixtures used primarily for personal hygiene.

Warnings

- After adjustment, the water temperature from the first tap in the hot water pipe work used for personal hygiene after the water heater, such as in a bathroom or ensuite, **MUST NOT** exceed 50°C.
- If there is a tap, such as a kitchen or laundry tap, in the hot water pipe work between the water heater and the first tap used for personal hygiene, then it is possible for a water temperature to be delivered from that tap of up to 4°C higher the temperature delivered from a tap used for personal hygiene.

It is necessary to have the electrical supply to the water heater switched on during stages of the outlet temperature compensation adjustment procedure.

Warnings

- The removal of the front panel will expose 220 V - 240 V a.c. wiring. Take care not to touch wiring terminals. The adjustment must be carried out by a qualified person.
- This procedure will involve the adjustment of dip switches. Adjustment of a dip switch should only be made with an insulated tool.

Note: Prior to the commencement of this procedure, the preset outlet temperature setting of the water heater must be set to 50°C for the 9P6 series model. This procedure cannot be performed if the preset outlet temperature is set below 50°C. Refer to “[To Check or Adjust the Preset Outlet Temperature Setting](#)” on page 33.

Outlet Temperature Adjustment

To adjust the outlet temperature:

1. Switch on the electrical supply at the power outlet to the water heater.
2. Locate the first hot tap in the hot water pipe work after the water heater used for personal hygiene.
3. Turn on the hot tap.
4. Using a thermometer, measure the temperature of the water from the tap, until the temperature stops increasing.

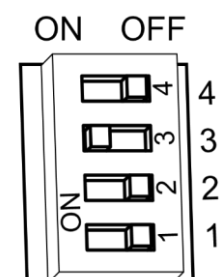
If the water temperature is below 50°C for the 9P6 series model, the maximum outlet temperature of the water heater can be adjusted upwards.

5. Turn off the hot tap.
6. Switch off the electrical supply at the power outlet to the water heater.
7. Remove the top and bottom cover strips to gain access to the front panel screws by pressing on the two ridged finger points and gently pulling forward.
8. Remove the screws holding the front panel to the jacket.
9. Gently disengage the front panel and pull forward to remove from the water heater.
10. Switch on the electrical supply at the power outlet to the water heater.

Note: Wait five (5) seconds for the electronic system to initialise.

11. Switch DIP switch 3 to the on (left side) position on the PCB.

The current outlet temperature setting will show on the LED display.



12. Press the MAX button once to increase the outlet temperature setting to the next increment.

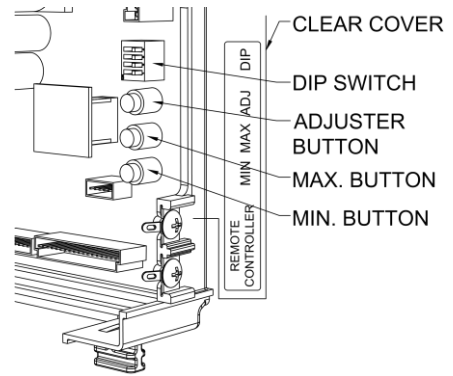
The MAX button is located below the DIP switches and adjuster button, and above the MIN button.

Each press of the MAX button will increase the outlet temperature setting by one increment.

The outlet temperature setting will show on the LED display.

The outlet temperature setting increments above 48°C are:

- 50°C, 51°C, 52°C, 53°C, 54°C.



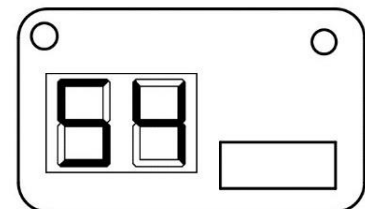
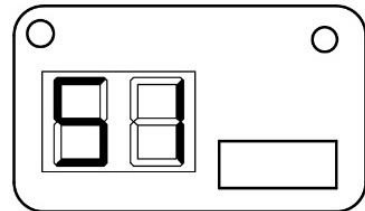
13. Switch DIP switch 3 to the off (right side) position on the PCB.

The LED display will go blank.

Note: Wait five (5) seconds for the setting to be saved.

14. Check the water temperature at the hot tap by repeating steps 2 to 5.

- If the water temperature is still below 50°C and requires to be increased, repeat steps 11, 12 and 13, followed by steps 2 to 5 until an acceptable water temperature not exceeding 50°C is measured at the same hot tap.
- if the water temperature exceeds 50°C then;



- switch DIP switch 3 to the on (left side) position on the PCB.

The outlet temperature setting will show on the LED display.

- press the MIN button once to decrease the outlet temperature setting to the next increment.

Each press of the MIN button will decrease the outlet temperature by one increment.

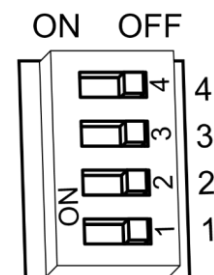
The MIN button is located below the DIP switches, adjuster button and MAX button.

- switch DIP switch 3 to the off (right side) position on the PCB.

The LED display will go blank.

Note: Wait five (5) seconds for the setting to be saved.

- repeat steps 2 to 5 to confirm the water temperature does not exceed 50°C.



15. Switch off the electrical supply at the power outlet to the water heater.

16. Refit the front panel and screws to the water heater.

17. Refit the cover strips to the top and bottom of the front panel by inserting the two posts into the two recesses and gently pushing into position.

18. Switch on the electrical supply at the power outlet to the water heater.

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 power outlet to the water heater (refer to note below).
- Close the gas isolation valve at the inlet to the water heater.
- Close the cold water isolation valve at the inlet to the water heater.
- Drain the water heater if there is a risk of freezing conditions occurring (refer to [“Draining The Water Heater”](#) on page 38).

Notes

- The frost protection system will be rendered inoperable if electrical power is not available at the water heater.
- Damage caused by freezing due to the unavailability of power at the water heater is not covered by the AquaMAX Pro-tec warranty (refer to [“Terms of the AquaMAX Pro-tec warranty”](#) on page 4).
- If the power has been switched off to the water heater and there is a risk of freezing, then it is necessary to drain the water heater (refer to [“Draining the Water Heater”](#) on page 38).

DRAINING THE WATER HEATER

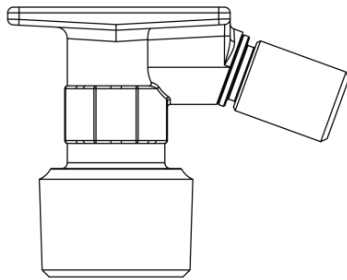
To drain the water heater:

- Turn off the water heater (refer to “[Turn Off The Water Heater](#)” on page 37).
- Open a hot tap (preferably the shower outlet).
- Unscrew the two drain plugs, one each at the cold water inlet and hot water outlet (9P4 series model) or 50°C limited outlet (9P6 series model), on the underside of the water heater.

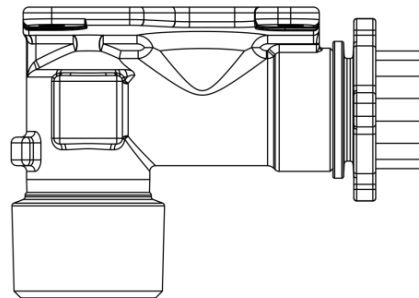
Water will drain from the water heater.

- When water stops flowing from the water heater, close the hot tap.

Note: It is recommended not to screw the drain plugs back in, until the water heater is to be turned on again.



OUTLET



INLET

This page is intentionally blank.



41380200000