

Owner's Guide and Installation Instructions



*Continuous Flow
Gas Water Heater
CF26 series*



*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.

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.

Aquamax Australia Pty Limited is the supplier of the Aquamax range of continuous flow gas water heaters, manufactured by Paloma Co., Ltd, a world leader in water heater technology and manufacture.

TRADEMARKS

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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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HOUSEHOLDER - We recommend you read pages 4 to 25.
The other pages are intended for the installer but may be of interest.

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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

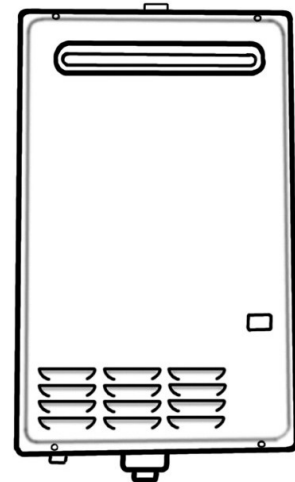
The Aquamax® continuous flow gas water heater model you have chosen is for outdoor installation only. This model has an extended manufacturer's warranty (refer to [the Aquamax warranty](#) on page 55).

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

- CF26-60 series 70°C
- CF26-50 series 48°C

Notes:

- The CF26-50 model water heaters are marked "THIS APPLIANCE DELIVERS WATER NOT EXCEEDING 50°C IN ACCORDANCE WITH AS 3498" on the front panel. These 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.
- The CF26-60 model water heaters may be installed as an in-series gas booster to a solar water heater. For information relating to the function and operation of the solar water heater, refer to the Owner's Guide and Installation Instructions supplied with the solar water heater.
- When installed as an in-series gas booster to a solar water heater, the CF26-60 model water heaters:
 - can deliver water at temperatures up to 75°C with an Aquamax pumped direct solar system.
 - during periods of low solar energy gain, will boost the water temperature automatically to its preset outlet temperature setting.



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 (refer to ["Temperature Control"](#) on pages 11 to 21). 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.

GAS BOOSTING FOR A SOLAR WATER HEATER

Water stored in the solar storage tank passes through the in-series gas booster when a hot tap is opened. The in-series gas booster is for heating water at times of low solar energy gain, such as during cloudy or rainy weather, or during colder months.

Solar heated water can reach temperatures up to 75°C for an Aquamax pumped direct solar system. The in-series gas booster operates automatically. When the solar heated water temperature is 58°C or higher, the flow passes through the in-series gas booster without boosting. When the solar heated water temperature is below 58°C, the in-series gas booster heats the water to its preset outlet temperature setting.

MAINS PRESSURE

The water heater is designed for direct connection to the mains water supply. If the mains supply pressure in your area exceeds that **shown on page 28**, a pressure limiting valve must be fitted. The supply pressure should be greater than 140 kPa for the rated flow and performance to be achieved.

HOW HOT SHOULD THE WATER BE?

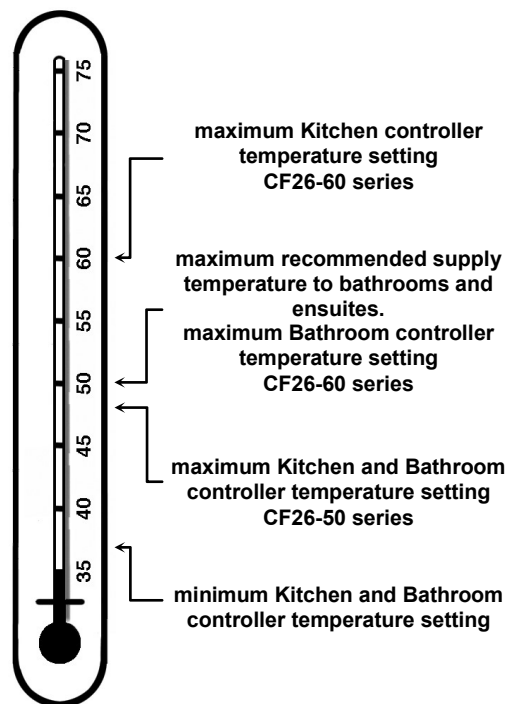
The water heater may be installed with one or more user adjustable temperature controllers, which allow you to choose the most suitable temperature for your hot water needs (refer to **“Temperature Control”** on page 11).

If a controller is not installed, the water heater heats the water to the preset outlet temperature setting. The factory preset outlet temperature setting is:

- CF26-60 series 60°C
- CF26-50 series 48°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 or Aquamax Service.

Note: AS 3498 requires that a water heater provides the means to inhibit the growth of Legionella bacteria in potable water. When this water heater is used as an in-series booster for a solar water heater it can satisfy this AS 3498 requirement provided it is energised, the booster preset outlet temperature setting is 70°C, and that a remote temperature controller is not used.



⚠ Warning: Temperature controllers **must not** be fitted to this water heater (CF26-60 model) if it is installed as an in-series gas booster with a solar water heater system, because water at a temperature much higher than the controller setting can be delivered. If a solar water heater is installed to an existing water heater installation, then all controllers **must be** disconnected and removed.

If this water heater is installed as part of a solar water heater system, the system can deliver water at temperatures from 58°C up to 75°C with an Aquamax pumped direct solar water heater.

HOTTER WATER INCREASES THE RISK OF SCALD INJURY

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.

We recommend and it may be required by regulations that an approved temperature limiting device be fitted into the hot water piping to the bathroom and ensuite when a CF26-60 model 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 no controllers are installed and the preset outlet temperature setting has not been adjusted below 55°C or if a Kitchen controller is installed, still allow hotter water to the kitchen and laundry.

A CF26-50 model water heater will not deliver temperatures exceeding 50°C, in accordance with AS 3498. There is no requirement in AS/NZS 3500.4 to fit a temperature limiting device if this water heater is installed in other than an early childhood centre, school, nursing home or a facility for young, aged, sick or disabled people.

⚠ WARNING

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 uses 240 Volt AC electrical power for operation of the control systems and the combustion fan. The removal of the front panel will expose 240 V wiring. It must only be removed by a qualified person.

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.

SAFETY

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.

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 Aquamax. Phone Aquamax Service to arrange for an inspection.

⚠ Warning: For continued safety of this water heater it must be installed, operated and maintained in accordance with the Owner's Guide and Installation Instructions.

The Aquamax warranty may not cover faults if relief valves or other safety devices are tampered with or if the installation is not in accordance with these instructions.

- Do not store **flammable or combustible materials** near the water heater. Flammable liquids (such as petrol), newspapers and similar articles must be kept well away from the water heater and the flue terminal.
- Do not use **aerosols, stain removers and household chemicals** near the water heater whilst it is working. Gases from some aerosol sprays, stain removers and household chemicals become corrosive when drawn into a flame.
- Do not store **swimming pool chemicals, household cleaners**, etc., near the water heater.
- Do not place anything on top of the 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 LPG fuel, in a Propane model is unsafe and can cause damage to the water heater.



PRECAUTIONS

Where damage to property can occur in the event of the water heater leaking, the water heater must be installed over 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.

The water heater must be maintained in accordance with the Owner's Guide and Installation Instructions. Refer to **"General Maintenance"** on page 7, **"Minor Six Month Maintenance"** on page 7 and **"Major Five Year Service"** on page 7.

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.

GENERAL MAINTENANCE

The jacket of the water heater can be cleaned with a soft cloth and warm mild soapy water. Under no circumstances should abrasive materials or powders be used.

The area around the water heater can be sprayed with insecticide to rid the area of insects. Insects encroaching into or nesting in the water heater can interfere with the operation of the water heater and also damage components.

MINOR SIX MONTH MAINTENANCE

It is recommended minor maintenance be performed every six months by the dwelling occupant.

The minor maintenance includes:

- 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 let and flue terminal can interfere with the performance of the water heater.
- Inspect around the water heater for insect infestations, such as ants.
 - Spray insecticide around the water heater if necessary to rid the area of insects. Do not spray the surface or into the air inlet or flue terminal of the water heater.
Insects encroaching into or nesting in the water heater can interfere with the operation of the water heater and also damage components.
- Check the drain line from the safe tray (if one is installed) is not blocked.

MAJOR FIVE YEAR SERVICE

For safe and efficient operation, it is recommended a major five year service be conducted on the water heater.

⚠ Warning: Servicing of a water heater must only be carried out by qualified personnel. Phone Aquamax Service.

Note: The five year service and routine replacement of any components, if required, are not included in the Aquamax 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.
- 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.

TO TURN OFF THE WATER HEATER

If it is necessary to turn off the water heater:

- Turn off the controller(s) (if fitted) by pressing the on / off button.
The light in the on / off button will go out and the priority light, if it is on, will go out.
- 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 9 and “[Draining the Water Heater](#)” on page 9).

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.
- Turn on a controller, if one is fitted, by pressing the on / off button.

The light in the on / off button and the priority light will both glow.

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

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 8.

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 warranty (refer to [“Terms of the Aquamax Warranty”](#) on page 55).
- 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 9).
- 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 Warranty”](#) on page 55.

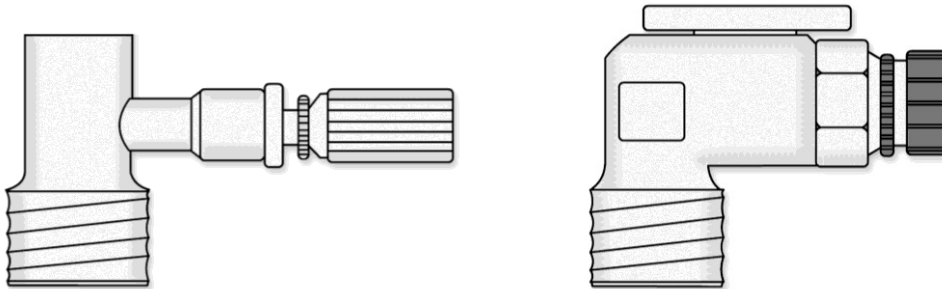
DRAINING THE WATER HEATER

- Turn off the water heater (refer to [“Turn Off The Water Heater”](#) on page 8).
- 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.



HOW DO I KNOW IF THE WATER HEATER IS INSTALLED CORRECTLY?

Installation requirements are [shown on pages 26 to 36](#). The water heater must be installed:

- by a qualified person, and
- in accordance with the installation instructions, and
- in compliance with Standards AS/NZS 3500.4, AS 5601 or AS/NZS 5601.1, as applicable under local regulations, and all local codes and regulatory authority requirements.

⚠ Warning: Temperature controllers **must not** be fitted to this water heater (CF26-60 model) if it is installed as an in-series gas booster with a solar water heater system, because water at a temperature much higher than the controller setting can be delivered. If a solar water heater is installed to an existing water heater installation, then all controllers **must be** disconnected and removed.

The pipe work between the solar storage tank (if one is installed) and the in-series gas booster has a minimum recommended pipe size of DN20, **MUST BE** of copper and be fully insulated with a closed cell type insulation or equivalent 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 both the solar storage tank and the in-series gas booster.

VICTORIAN CUSTOMERS

Notice to Victorian Customers from the Victorian Plumbing Industry Commission. 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 22.

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 22](#).

HOW LONG WILL THE WATER HEATER LAST?

The water heater is supported by a manufacturer's warranty ([refer to page 55](#)). 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 6.

TEMPERATURE CONTROL

CONTROLLERS

The Aquamax CF26 series of continuous flow water heaters can be installed with Aquamax controllers to enable the user to control the temperature of the delivered water from the outlet of the water heater.

There are three types of controller. They are the Kitchen controller (PN AQ3264101, including cable), Bathroom1 controller (PN AQ3264102, including cable) and the Bathroom2 controller (PN AQ3264103, including cable).

The controllers are identified by a 'K' (Kitchen controller), 'B1' (Bathroom1 controller) or 'B2' (Bathroom2 controller) located on the front bottom left hand corner of the controller.

⚠ Warning: Temperature controllers **must not** be fitted to this water heater (CF26-60 model) if it is installed as an in-series gas booster with a solar water heater system, because water at a temperature much higher than the controller setting can be delivered. If a solar water heater is installed to an existing water heater installation, then all controllers **must be** disconnected and removed.

Notes:

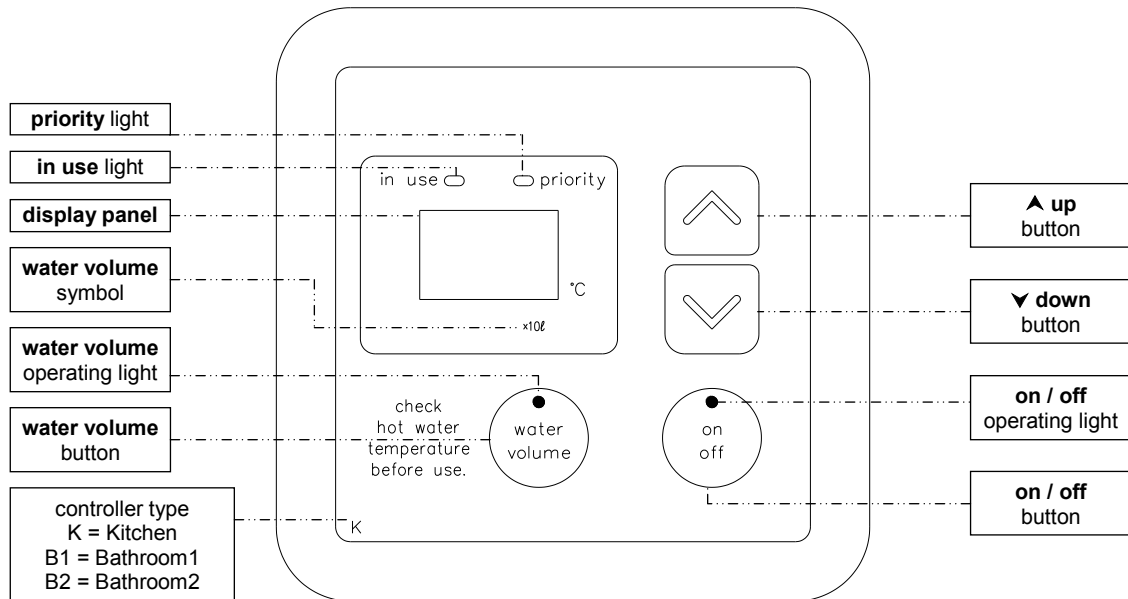
- Where more than one controller is installed, the second or third controller must be of the same family.
- One, two or three controllers can be installed. Only one of each type of controller can be connected to the water heater. Therefore, a maximum of three controllers only can be connected to each water heater.
- A Bathroom2 controller can only be installed if a Bathroom1 controller is installed.
- Other manufacturers' controllers are not suitable to and cannot be installed with this water heater.

CONTROLLER FUNCTIONS

If one or more controllers are installed, at least one must be on for the water heater to operate. If all controllers are off, the water heater will only deliver cold water.

- on / off button** – This button must be pressed once to turn on the controller.
- A controller cannot be turned on if water is flowing from a hot tap.
- To turn off a controller, press the on / off button once. The light will go out.
- A controller can be turned off whilst water is flowing.
- on / off operating light** – The light in the on / off button will glow when the controller is turned on.
- The light will go out when the controller is turned off.
- priority light** – This light will glow on a controller when that controller has priority.
- The Bathroom controller(s), if they are turned on, have priority over the Kitchen controller.
- Priority means that controller has control of the water heater temperature setting.
- The water temperature setting can only be adjusted by the controller that has priority.
- in use light** – This light will glow on all controllers, whether they are on or off, when hot water is flowing, regardless of which controller has priority.
- display panel** – The current temperature setting is displayed on all controllers (whether hot water is flowing or not), when any controller is on.
- If all controllers are off, then the display remains blank.
- The water volume can also be displayed on the Kitchen controller. The x10l symbol glows when the water volume is displayed.
- ▲ (up button)** – The up button increases the temperature setting.
- Refer to “[Temperature Adjustment](#)” on page 15.
- ▼ (down button)** – The down button decreases the temperature setting.
- Refer to “[Temperature Adjustment](#)” on page 15.
- water volume button** (Kitchen controller only) – This feature enables an alarm to sound when a set volume of water has flowed through the water heater.
- Refer to “[Water Volume Function](#)” on page 20.
- water volume operating light** – The light in the water volume button will glow when the water volume button is pressed and the water volume mode is turned on.
- The light will go out when the water volume button is pressed and the water volume mode is turned off.
- water volume symbol** – The x10l symbol below the display panel glows when the water volume mode is turned on and the water volume is displayed.

CONTROLLER



Note: **water volume** button, **water volume** operating light and **water volume** symbol are on the Kitchen controller only.

SILENCING A CONTROLLER

The controller emits a sound whenever a button is pressed. This sound can be turned off to provide silent operation.

To turn off the sound:

- Press the on / off button, to deactivate the controller (on / off light is off).
- Press and hold the up (▲) button.
- Press the on / off button, whilst the up (▲) button is pressed.

The sound for the controller is deactivated. Repeat this procedure on the other controllers if you wish to deactivate their sound. To restore the sound, repeat this procedure.

TEMPERATURE SETTINGS

The temperature settings of each type of controller are:

- Bathroom1 & 2 37°C to 46°C (in 1°C increments), 48°C*, 50°C
- Kitchen 37°C to 46°C (in 1°C increments), 48°C*, 50°C, 55°C, 60°C

* limited to 48°C on a CF26-50 model.

Temperature settings

37	38	39	40	41	42	43	44	45	46	48	50	55	60
warm			average hot shower				hot			very hot			

The installation of a Bathroom controller(s) only (i.e. no Kitchen controller) limits the temperature setting of the water heater to a maximum of:

- CF26-60 series 50°C
- CF26-50 series 48°C

regardless of the preset outlet temperature setting of the water heater.

The installation of a Kitchen controller will allow a maximum temperature setting of:

- CF26-60 series 60°C
- CF26-50 series 48°C

regardless of the preset outlet temperature setting of the water heater.

If controllers are not installed, the water heater defaults to the preset outlet temperature setting. This may be up to:

- CF26-60 series 70°C
- CF26-50 series 48°C

Refer to [“How Hot Should The Water Be?”](#) on page 5.

On a building fitted with a temperature limiting device such as a tempering valve and where a CF26-60 model water heater is installed without a separate untempered hot water line to the kitchen, laundry or other non-ablution area, although the Kitchen controller will be able to display temperatures above 50°C and the water leaving the water heater will be at the set temperature, the maximum water temperature which can be delivered to the hot water outlets in these locations is determined by the temperature setting of the temperature limiting device. This is usually 50°C.

On a building fitted with a temperature limiting device set to 50°C, to enable the delivery of water temperatures above 50°C to the kitchen, laundry or other non-ablution area, separate untempered pipe work must be installed from the water heater to the hot water outlets in these locations.

TEMPERATURE ADJUSTMENT

- A controller must be on and have priority to be able to adjust the temperature setting.
- The temperature adjustment is made by pressing the up (▲) button or down (▼) button.
- The maximum temperature setting for the controllers are:

	Kitchen	Bathroom
CF26-60 series	60°C	50°C
CF26-50 series	48°C	48°C

- Each press of the up (▲) button will increase the temperature setting by one increment.
- Pressing and holding the up (▲) button will scroll the temperature setting up to a maximum 43°C if there is hot water flowing or 45°C if there is no hot water flowing.
- From the 45°C setting, the up (▲) button must be pressed once for each increase in temperature increment.
- The temperature setting cannot be increased above 43°C whilst hot water is flowing.
- The minimum temperature setting for each type of controller is 37°C.
- Each press of the down (▼) button will decrease the temperature setting by one temperature increment.
- Pressing and holding the down (▼) button will scroll down the temperature setting.
- The temperature setting can be decreased from any temperature setting whether the hot water is flowing or not.

KITCHEN CONTROLLER

The Kitchen controller allows the user to select the temperature setting for the hot water to be used in the kitchen and laundry. It has a minimum temperature setting of 37°C and a maximum temperature setting of:

- CF26-60 series 60°C
- CF26-50 series 48°C

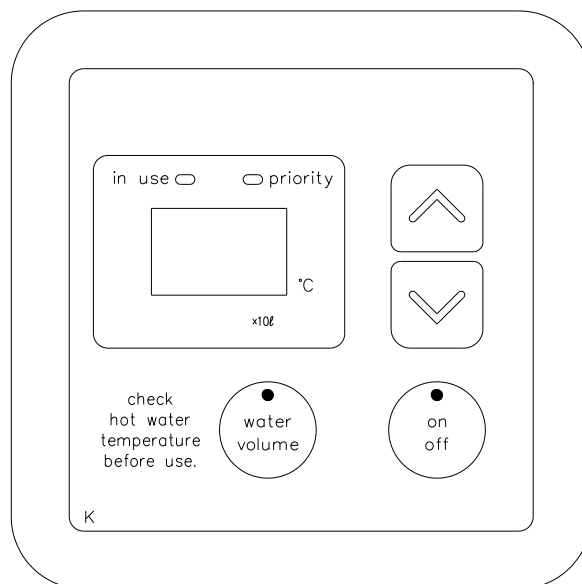
The Kitchen controller does not have priority if a Bathroom controller is on.

Notes on the Kitchen controller:

- The controller cannot be turned on whilst a hot tap is open.
- The Kitchen controller must be on and have priority in order to adjust the temperature setting on the Kitchen controller.
- The Bathroom controller(s) can be turned off from the Kitchen controller.
 - Press and hold the on / off button on the Kitchen controller for three seconds.

This turns off all the controllers and the displays go blank.

If hot water is flowing from a hot tap, it will go cold.



Kitchen Controller

To operate the Kitchen controller:

1. Turn off the Bathroom controller(s)

- If a temperature setting is displayed and the priority light is not glowing, it is necessary to turn off the Bathroom controller(s) to gain priority.
- Refer to the [notes on the Kitchen controller](#) on page 16.

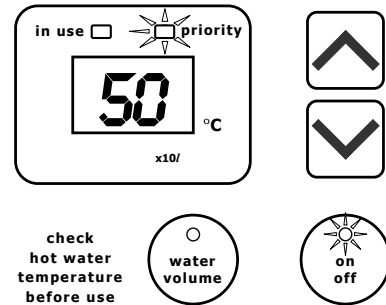
2. Turn on the Kitchen controller

- Press the on / off button.

The on / off operating light and the priority light will both glow.

The Kitchen controller temperature setting will be displayed. This is the lower of the previous setting and:

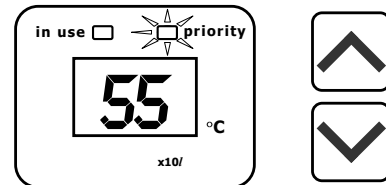
- ◆ CF26-60 series 50°C
- ◆ CF26-50 series 48°C



3. Select the temperature setting

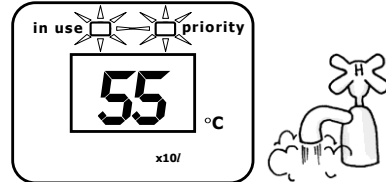
- Press the up (▲) button or down (▼) button.
- Refer to [“Temperature Adjustment”](#) on page 15.

The selected temperature setting will be displayed on all controllers.



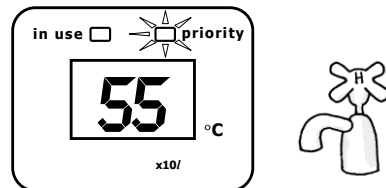
4. Open the hot tap.

The in use light will glow on all controllers.



5. Close the hot tap.

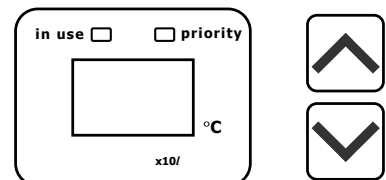
The in use light will go out on all controllers, if no other hot tap is open.



6. Turn off the Kitchen controller

- Press the on / off button.

The priority light and on / off operating light will go out and the temperature display will go blank.



Important: Turn off the Kitchen controller after hot water usage is finished in the kitchen and / or laundry. Refer to [Important](#) note for Bathroom controllers on page 18.



BATHROOM CONTROLLERS

The Bathroom controller(s) allows the user to select the temperature setting for the hot water to be used in the bathroom. They have a minimum temperature setting of 37°C and a maximum temperature setting of:

- CF26-60 series 50°C
- CF26-50 series 48°C

The Bathroom controllers operate in tandem. Whenever an operation is selected on one Bathroom controller, it is also set on the other Bathroom controller. The Bathroom controllers automatically have priority if they are on.

Important: It is important to turn on the Bathroom controller before opening a hot tap in the bathroom (priority is automatically gained). If the Bathroom controller is not on and the Kitchen controller is on (has priority), then it is possible to receive water at a temperature higher than expected from a hot tap in the bathroom. This temperature could be up to:

- CF26-60 series 50°C if a temperature limiting device is installed in the hot pipe to the bathroom or up to 60°C if a temperature limiting device is not installed.
- CF26-50 series 48°C

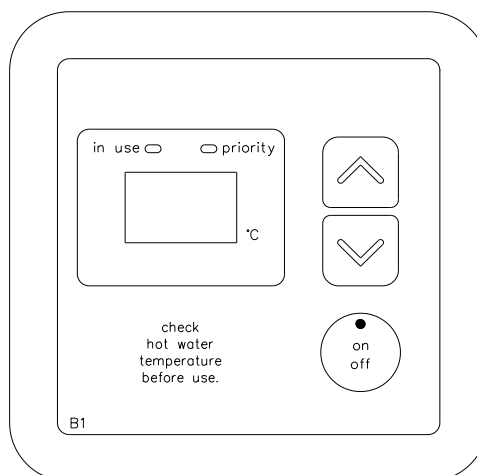
Notes on the Bathroom controllers:

- The controller cannot be turned on whilst a hot tap is open.
- When a Bathroom controller is turned on, it gains priority from the Kitchen controller.
- The Bathroom controller must be on in order to adjust the temperature setting on the Bathroom controller.
- The Kitchen controller can be turned off from a Bathroom controller.
 - Press and hold the on / off button on a Bathroom controller for three seconds.

This turns off all the controllers and the displays go blank.

If hot water is flowing from a hot tap, it will go cold.
- **⚠ Warning:** It is advised to leave the Bathroom controller on after hot water usage is finished in the bathroom. **Turning off a controller in one bathroom will also turn off the controller in the other bathroom.** The Kitchen controller will gain priority if it is on and the temperature setting can be up to:
 - CF26-60 series 50°C
 - CF26-50 series 48°C

If a hot tap is open in another bathroom, the water will be delivered at this temperature.



Bathroom Controller

To operate a Bathroom controller:

1. Turn off the Kitchen controller

- If a temperature setting is displayed and the priority light is not glowing, it is advised to turn off the Kitchen controller.

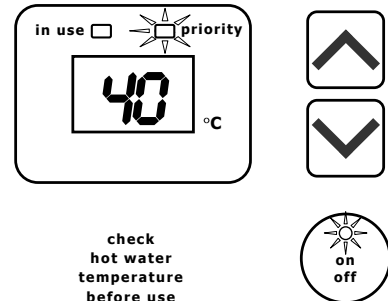
Refer to the [notes on the Bathroom controllers](#) on page 18.

2. Turn on the Bathroom controller

- Press the on / off button.

The on / off operating light and the priority light will both glow.

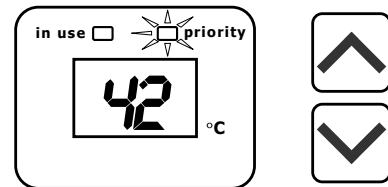
The temperature setting of 40°C will be displayed.



3. Select the temperature setting

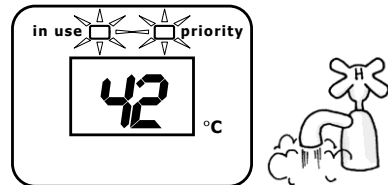
- Press the up (▲) button or down (▼) button.
- Refer to [“Temperature Adjustment”](#) on page 15.

The selected temperature setting will be displayed on all controllers.



4. Open the hot tap

The in use light will glow on all controllers.

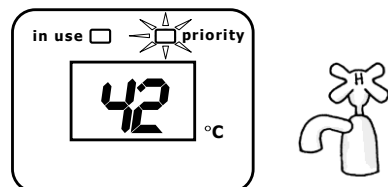


5. Close the hot tap

The in use light will go out on all controllers, if no other hot tap is open.

It is advised not to turn off the Bathroom controller(s).

- Refer to the [warning](#) in the notes on page 18.



WATER VOLUME FUNCTION

The water volume function is designed to warn, by a beeping sound, that a certain volume of water has been delivered from the water heater. **It does not stop either the flow of or the heating of water.** This function is particularly useful if a bath is being filled, or measuring the water consumed by the use of a shower.

The water volume function can only be set by the Kitchen controller. Refer to the [notes on the water volume function](#) on page 21.

To operate the water volume alarm:

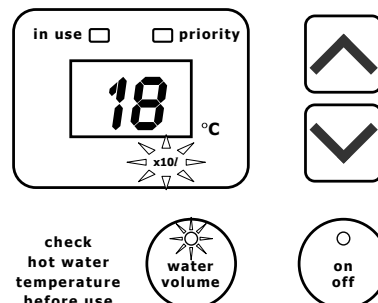
1. Turn on the water volume alarm

- Press the water volume button.

The water volume operating light will glow.

The current set water volume (in litres divided by 10) will be displayed and the x10l indicator will also glow.

E.g. the factory preset water volume of 180 litres is shown as 18 x10l.



2. Adjust the water volume setting (if necessary)

- To adjust the water volume setting, press the up (▲) button to increase the water volume or the down (▼) button to decrease the water volume.

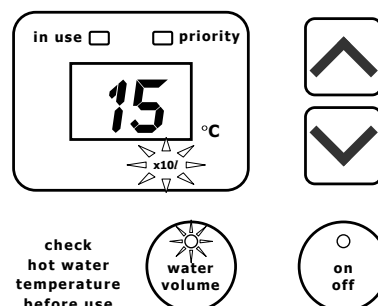
Each press of the up (▲) button or down (▼) button will change the water volume setting by 10 litres.

Pressing the up (▲) button or down (▼) button continuously will scroll the water volume setting.

Fifteen seconds after the water volume has been selected, the water volume operating light will start to flash and the selected water volume is set.

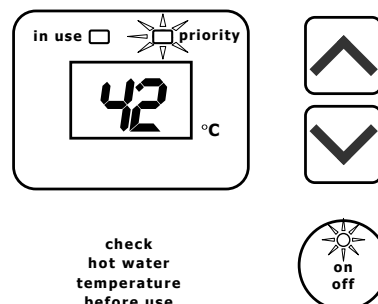
The water volume operating light will continue to flash until the alarm sounds.

A maximum of 500 litres (50 and x10l displayed) and a minimum of 10 litres (1 and x10l displayed) can be set with the water volume alarm.



3. Set the water temperature

- Turn on the controller for the room where the hot water is to be used.
- Gain priority (if using the Kitchen controller).
- Select the temperature setting.

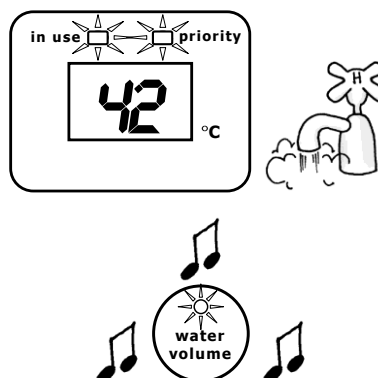


4. Open the hot tap

The in use light will glow on all controllers.

Measurement of the water flow at the water heater will commence when a hot tap is open and the water volume operating light is flashing.

The alarm will sound when the set volume of water has passed through the water heater.

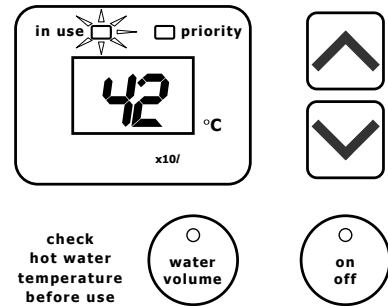


5. Turn off the alarm

- Press the water volume button to turn off the alarm.

The water volume operating light goes out and 0 x10l is displayed momentarily on the controller.

The temperature setting of the controller with priority is then displayed.



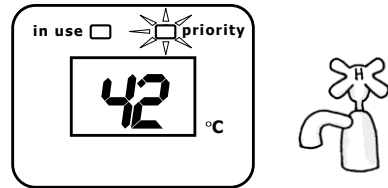
6. Close the hot tap

If it is a Bathroom controller which is in use and has priority, then it is advised to leave the controller on.

- Refer to the **warning** in the notes on page 18.

If it is the Kitchen controller which is in use and has priority, then it is advised to turn the controller off.

- Refer to **Important** note for Bathroom controllers on page 18.



Notes on the water volume function:

- The water volume can only be set by the Kitchen controller.
- The Kitchen controller does not require priority nor to be on in order to set the water volume function.
- The water volume function can be set whilst a hot tap is open.
- The water volume alarm will only sound from the Kitchen controller.
- The water volume alarm will still sound if the Kitchen controller has been silenced.

Refer to “**Silencing A Controller**” on page 13.

- The factory preset water volume is 180 litres.
- If a hot tap is not opened for one hour after the new water volume has been set, then the setting will be automatically cancelled. The water volume resets to the previously set water volume (or the factory preset water volume if no water volume has previously been set).
- To display the remaining water volume while water is being drawn, press the water volume button. After a few seconds, the display returns to the temperature setting.
- To turn off the water volume function before the alarm sounds, press the water volume button twice.
- The water volume is measured as the water flows through the water heater. Therefore if more than one hot tap is open, the alarm will respond to the total water volume drawn from all taps and the expected water volume from the first tap will be decreased.
- If the hot tap is closed before the set water volume flows through the water heater and the water volume button is left on, then the alarm will sound when the remaining water volume is consumed during a later operation. To prevent the alarm from sounding, press the water volume button twice to turn it off.

WATER SUPPLIES

This water heater must be installed in accordance with this advice to be covered by the Aquamax 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 Aquamax 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 heat exchanger in a continuous flow water heater.

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 Aquamax warranty to apply.

SATURATION INDEX

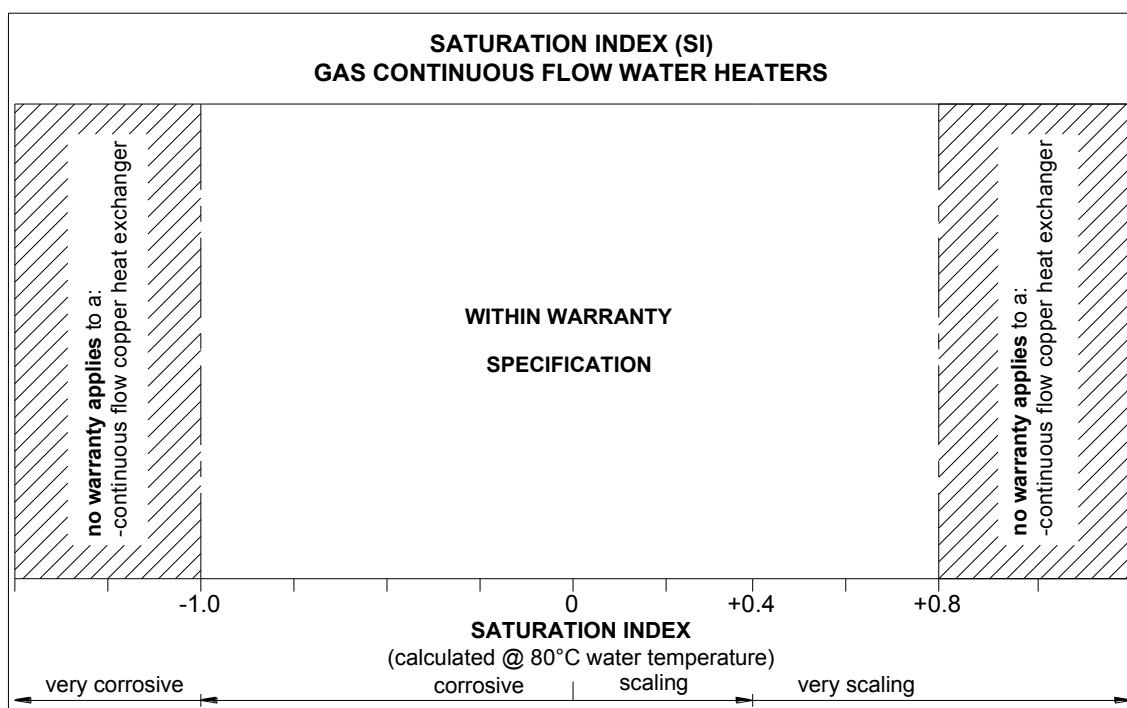
The saturation index (SI) is used as a measure of the water's corrosive or scaling properties.

In a corrosive water supply, the water can attack copper parts and cause them to fail. Where the saturation index is less than -1.0 , the water is very corrosive and the Aquamax warranty does not apply to a copper heat exchanger in a continuous flow water heater.

In a scaling water supply calcium carbonate is deposited out of the water onto any hot metallic surface. Where the saturation index exceeds $+0.80$, the Aquamax warranty does not apply to a copper heat exchanger in a continuous flow water heater.

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 22.



SAVE A SERVICE CALL

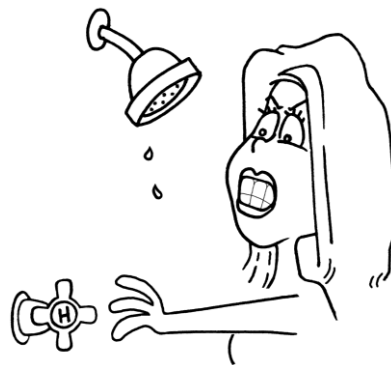
Check the items below before making a service call. You will be charged for attending to any condition or fault, which is not related to manufacture or failure of a part (refer to “[Terms of the Aquamax Warranty](#)” on page 55).

NO DISPLAY ON THE CONTROLLER

- Is the controller turned on?
Press the on / off button (refer to “[Temperature Control](#)” on pages 11 to 21).
- Is the water heater plugged in and the power outlet switched on?
- Is power available in the house?
Try using another electrical appliance.

COLD WATER FROM THE HOT TAP

- Is the controller turned on?
Press the on / off button (refer to “[Temperature Control](#)” on pages 11 to 21).
- 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 3.0 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 your plumber.



WATER IS TOO HOT OR NOT HOT ENOUGH

- Does the controller you are using have priority? (refer to “[Temperature Control](#)” on pages 11 to 21)
Note: For a CF26-50 model water heater, 48°C is the maximum available temperature.

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 37](#)) is fully open.

WATER FLOW FLUCTUATES

More than two or three taps in use at the same time may cause a decrease in the hot water flow from the taps. This can also be evident if the water heater has been installed as an in-series gas booster to a solar water heater and the solar heated water is at a low temperature.

- Are there more than two or three taps open, or are appliances such as a dishwasher or washing machine, in use at the same time?
Ensure only two or three taps or appliances are on at the one time.
- Check the flow of the water from one tap, e.g., the shower.
The shower should be adjusted so the hot tap is fully open.

GAS BOOSTER OPERATING TOO FREQUENTLY

If the water heater is installed as an in-series gas booster to a solar water heater, you may find that the water heater operates more frequently than expected. This will occur when the solar heated water temperature is lower than 58°C, which may be experienced during periods of low solar energy gain or if there has been heavy hot water usage. Factors to consider are:

- **Hot tap not used recently**

If a hot tap has not been used for a while, the water in the pipe work between the solar storage tank and the in-series gas booster may have cooled down. The in-series gas booster will sense the cooler water and this will cause the burners on the water heater to ignite and boost the water temperature when a hot tap is first turned on. The burners will extinguish when solar heated water of 58°C or higher from the solar storage tank reaches the in-series gas booster (refer also to “[Fan Continues to Run after Water Heater Operation Stops](#)” on page 24).

- **Insufficient sunlight**

Insufficient sunlight due to cloudy weather during hotter months or low solar energy contribution in colder months may mean the in-series gas booster operates more often.

- **Collectors shaded**

If trees or other objects shade the solar collectors or if the glass is dirty, the effectiveness of the solar collectors will be greatly reduced. Have the trees trimmed or the solar collectors relocated if the obstruction is permanent or clean the collector glass.

Ensure the glass on your solar collectors is free of dust, salt spray or any other matter, which may reduce the effectiveness of the solar collectors. If the collector glass becomes dirty, hose down or if the solar collectors are accessible, wash the collector glass with water and a soft brush when the solar collectors are cool.

- **Collector area is too small**

For most installations, the number of solar collectors recommended in Aquamax literature has been proven to provide the required solar energy to meet the average family needs. However, in some circumstances, it may be necessary to install an additional solar collector.

- **Are you using more hot water than you think?**

Is one outlet (especially the shower) 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 family's hot water usage. As you have installed an energy saving appliance, energy saving should also be practised in the home. Adjust your water usage pattern to take advantage of maximum solar gains.

Have your plumber install a flow control valve to each shower outlet, basin and sink to reduce water usage.

- **Water heater size**

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

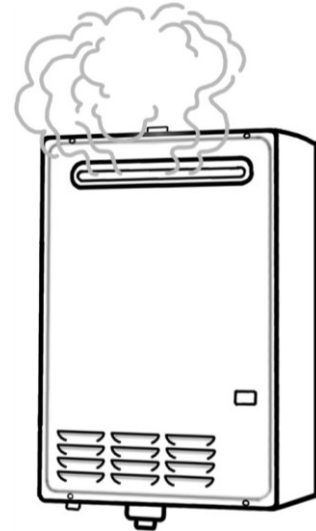
The sizing guide in the sales literature suggests average sizes that may be needed.

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 six 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 28).

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 controller(s) (if installed) and on the OK MONITOR on the front of the water heater as a numerical value. If an error code appears:

- Close the hot tap, turn off the controller(s) 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, turn on a controller and open a hot tap.

If the error code persists, take note of the numerical code, turn off the hot tap and turn off the controller(s). Phone Aquamax Service to arrange for an inspection.



HIGHER THAN EXPECTED GAS BILLS

Should you at any time, feel your gas account is too high, 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.

- Is the in-series gas booster operating too frequently?

Refer to "Gas Booster Operating Too Frequently" on page 24.

- 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 account?



IF YOU HAVE CHECKED ALL THE FOREGOING AND STILL BELIEVE YOU NEED ASSISTANCE, PHONE AQUAMAX SERVICE.

INSTALLATION – WATER HEATER

**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 Standards AS/NZS 3500.4, AS 5601 or AS/NZS 5601.1, as applicable under local regulations, and all local codes and regulatory authority requirements.

All packaging 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 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 backup redundancy into the hot water supply system.

The CF26-60 model water heaters may be installed as an in-series gas booster to a solar water heater. For information relating to the function and operation of the solar water heater, refer to the Owner's Guide and Installation Instructions supplied with the solar water heater.

Note: The CF26-50 model water heaters are marked "THIS APPLIANCE DELIVERS WATER NOT EXCEEDING 50°C IN ACCORDANCE WITH AS 3498" on the front panel. These 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.

Note: AS 3498 requires that a water heater provides the means to inhibit the growth of Legionella bacteria in potable water. When this water heater is used as an in-series booster for a solar water heater it can satisfy this AS 3498 requirement provided it is energised, the booster preset outlet temperature setting is 70°C, and that a remote temperature controller is not used.

WATER HEATER LOCATION

The water heater should be installed close to the most frequently used outlet and its position chosen with safety and service in mind. If this water heater is part of a solar water heater system, it should also be installed close to the solar storage tank. 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.



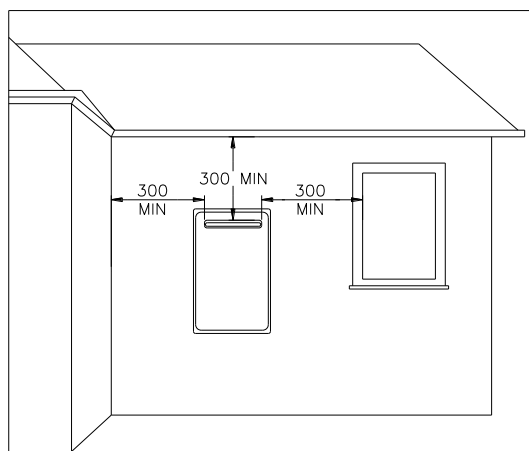
This water heater must be installed vertically upright with the water, gas and power connections on the underside, pointing toward the ground. The back of the water heater can be either against a wall or supported by a frame. The water heater must be secured to the wall or frame using either the screws provided or other mounting screws suitable for the application, two each at the top and bottom of the unit (refer to page 34 for mounting hole positions). Alternatively the water heater can be recessed into a wall (refer to “Recess Installation” on page 27).

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 5601 or AS/NZS 5601.1, as applicable under local regulations. 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.



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.

SAFE TRAY

Where damage to property can occur in the event of the water heater leaking, the water heater must be installed over 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.

PIPE COVER

The pipe work to the water heater can be housed within a pipe cover. A pipe cover kit (PN 299844) is available for such an installation. Refer to the installation instructions which accompany the pipe cover kit.

RECESS INSTALLATION

The water heater can be installed recessed into a wall. A recess box (PN AQ0350101) is available for such an installation. Refer to the installation instructions which accompany the recess box kit for information on its installation.

An additional rating label is supplied attached to the inside of the front cover of the water heater. This is for a service person to access the water heater details when required. The rating plate on the side of the water heater should be moved to or the information copied onto either the front panel of the water heater or to another position which is visible when the water heater is installed so the householder can access the water heater details when required.

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 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).

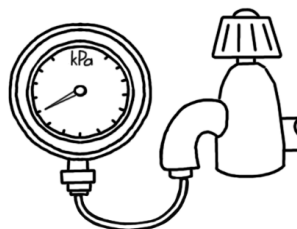
The cold water line to the water heater must be insulated with suitable thickness insulation if freezing conditions are likely to occur. The insulation must be fitted to the underside of the water heater and be weatherproof and UV resistant if exposed.

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 installation diagram (refer to page 36).

Model	CF26 series
Relief valve setting	1750 kPa
Max. mains supply pressure	1000 kPa
Min. mains supply pressure *	140 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 140 kPa is required to achieve the rated flow and performance of the water heater.
- If this water heater is installed as an in-series gas booster to a solar water heater, the maximum water supply pressure to the solar water heater, without an expansion control valve (ECV), is generally 800 kPa, however it may be less than this for some models. Refer to the Owner's Guide and Installation Instructions supplied with the solar water heater for maximum mains supply pressure details.
- 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 22 for further information on water chemistry.

HOT WATER DELIVERY

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 a CF26-60 model water heater and the hot water outlets in any ablution and public areas such as a bathroom, ensuite 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.

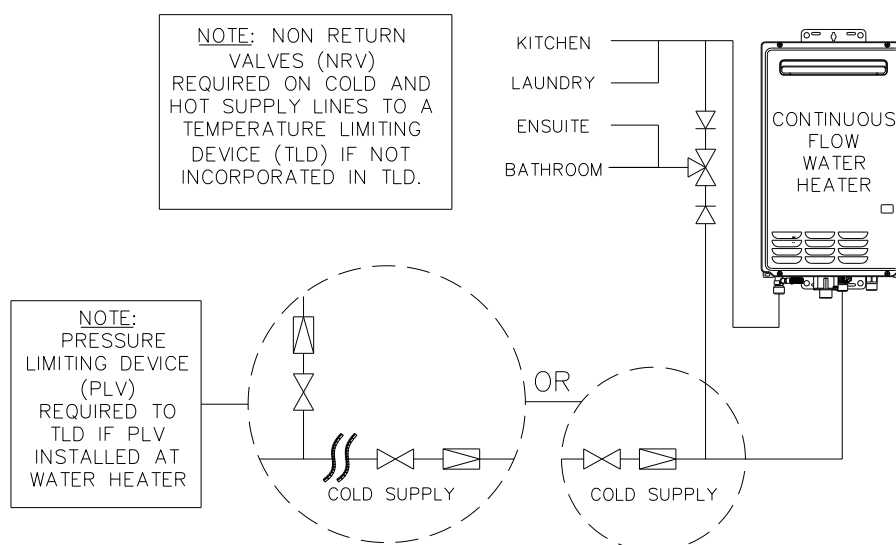
The temperature limiting device used with a continuous flow gas water heater should have:

- a specified 'minimum temperature differential' between the hot water inlet and the tempered water outlet of no greater than 10°C, and
- a specified 'maximum permitted pressure variation' in the supply between the hot water inlet and the cold water inlet of no less than 15%.

Refer to the 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

A CF26-50 model water heater will not deliver temperatures exceeding 50°C in accordance with AS 3498. There is no statutory requirement in AS/NZS 3500.4 to fit a temperature limiting device if this water heater is installed in other than an early childhood centre, school, nursing home or a facility for young, aged, sick or disabled people.

Refer to "Water Temperature Diagrams" on page 33.

Gas Booster for a Solar Water Heater

The temperature limiting device used with a CF26-60 model in-series gas booster as part of a solar water heater installation must have the additional capability of receiving a hot water supply temperature of up to 99°C if the solar water heater does not have an over temperature protection system to limit the water to no greater than 90°C.

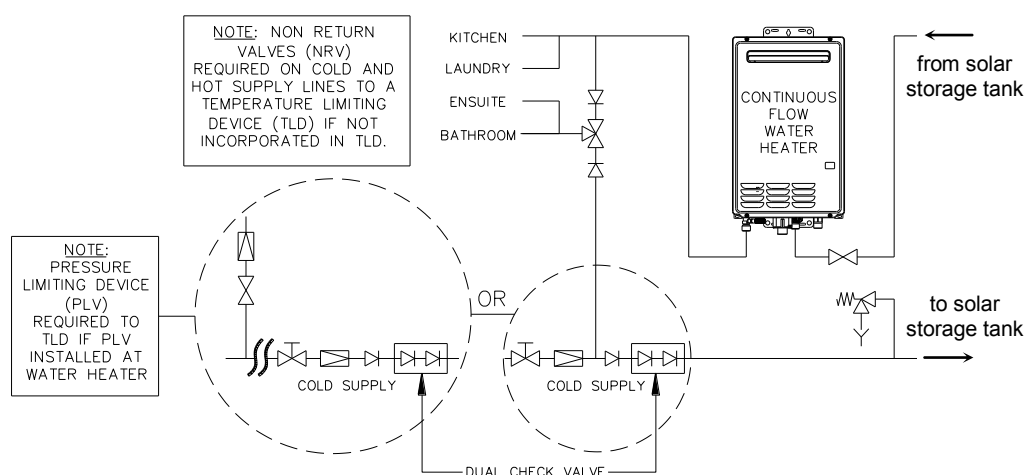
⚠ Warning: Temperature controllers **must not** be fitted to this water heater (CF26-60 model) if it is installed as an in-series gas booster with a solar water heater system, because water at a temperature much higher than the controller setting can be delivered. If a solar water heater is installed to an existing water heater installation, then all controllers **must be** disconnected and removed.

Where a temperature limiting device is installed adjacent to the in-series gas booster, 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 solar storage tank, but it **MUST BE** before the non return valve prior to an open circuit direct system. 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 solar storage tank.

⚠ Warning: A non return valve **MUST BE** installed on the cold water line to the solar storage tank **AFTER** the cold water branch to a temperature limiting device prior to an open circuit direct system. Due to the higher water temperatures generated under certain conditions in the solar collectors of an open circuit direct solar water heater, an additional effective back-flow prevention device also should be used as an extra safeguard. Valve manufacturer RMC recommends Dual Check Valve model N7150, as being suitable for this application.

If a combination isolation valve and non return valve (duo or trio valve) is installed on the cold water line to an open circuit direct solar water heater and the cold water line to the temperature limiting device branches off after this valve, then a second non return valve must be installed between the cold water branch and the solar storage tank. Due to the higher water temperatures generated under certain conditions in the solar collectors of an open circuit direct pumped solar water heater, an effective back-flow prevention device should be used as the second non return valve as an extra safeguard. Valve manufacturer RMC recommends Dual Check Valve model N7150, as being suitable for this application.

If a pressure limiting valve is installed on the cold water line to the solar 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.



**In-series Gas Booster as part of a Direct Solar Water Heater Installation
Two Temperature Zones Using a Temperature Limiting Device**

CIRCULATED HOT WATER FLOW AND RETURN SYSTEM

A CF26-60 model 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.
- temperature controllers should not be installed with a water heater as part of a circulated hot water flow and return system.

Water should not be circulated from a water heater with a temperature setting of less than 60°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: A CF26-50 model continuous flow water heater **must not** be installed as part of a circulated hot water flow and return system in a building.

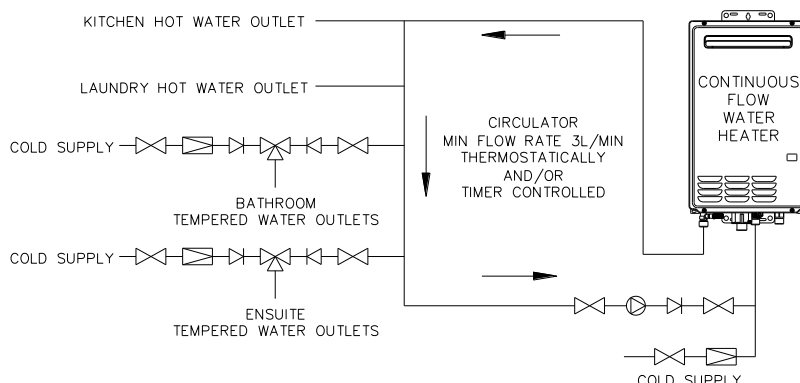
Temperature Limiting Device

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:

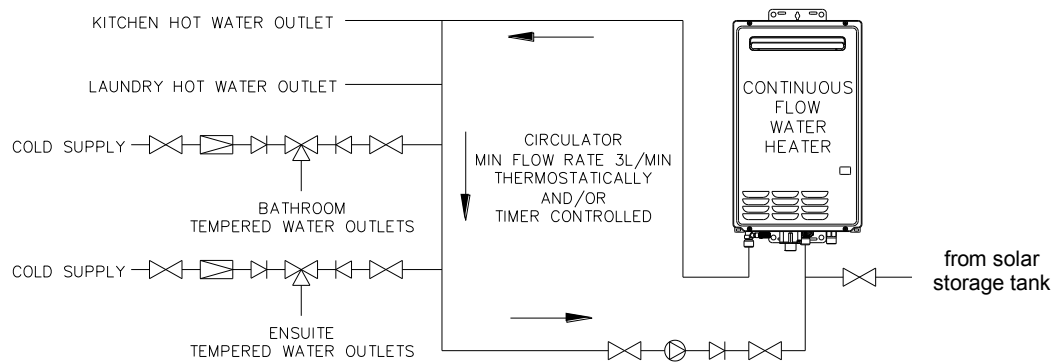
- water will be supplied to the cold water inlet of the temperature limiting device at a temperature exceeding the maximum recommended water supply temperature, or
- when the hot taps are closed no water will be supplied to the cold water inlet of the temperature limiting device whilst hot water will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

Circulated Hot Water Flow and Return Continuous Flow Gas Water Heater



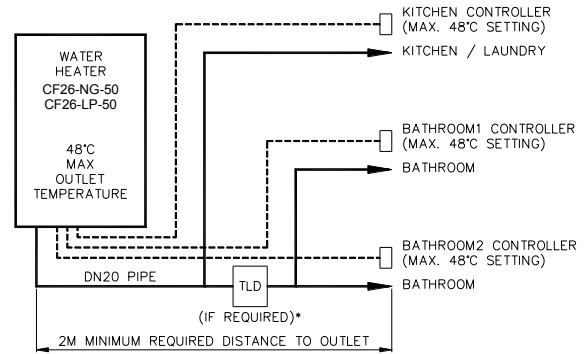
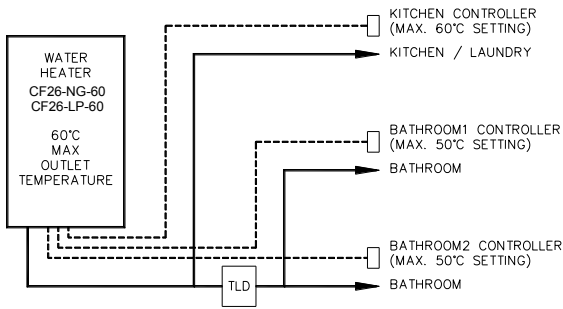
NOTE: A PLV IS REQUIRED TO BE INSTALLED ON THE COLD SUPPLY LINE TO THE TEMPERING VALVE IF A PLV IS INSTALLED ON THE COLD SUPPLY LINE TO THE WATER HEATER.

Circulated Hot Water Flow and Return In-series Gas Booster as part of a Solar Water Heater Installation

REDUCING HEAT LOSSES

The hot water line from the water heater and the pipe work between the solar storage tank, if one is installed, and the in-series gas booster 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 both the underside of the water heater and the solar storage tank.

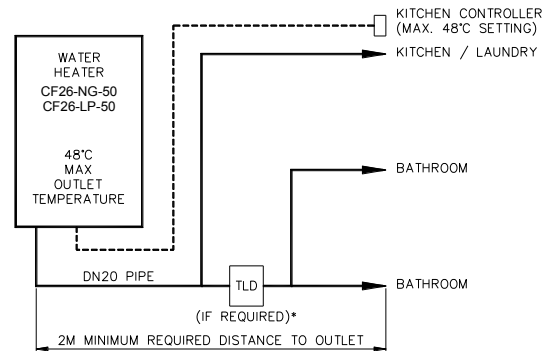
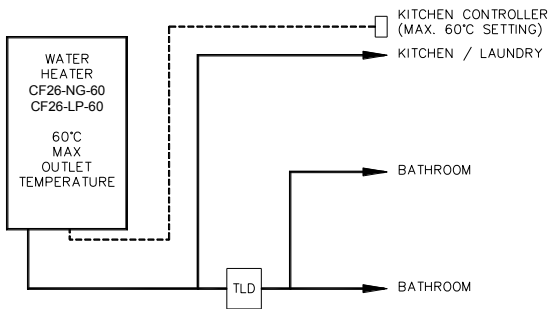
WATER TEMPERATURE DIAGRAMS



CF26-60 series

Kitchen and Bathroom Controllers

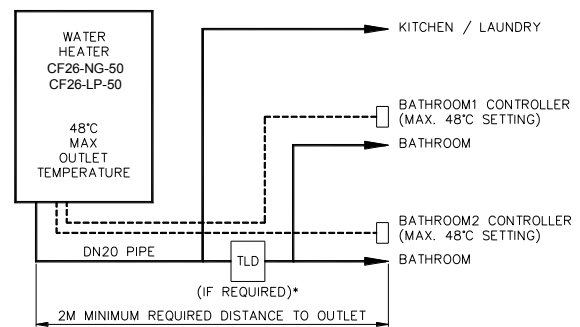
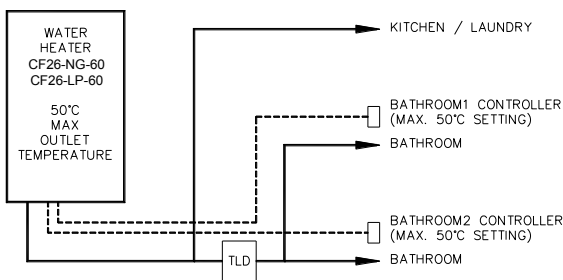
CF26-50 series



CF26-60 series

Kitchen Controller Only

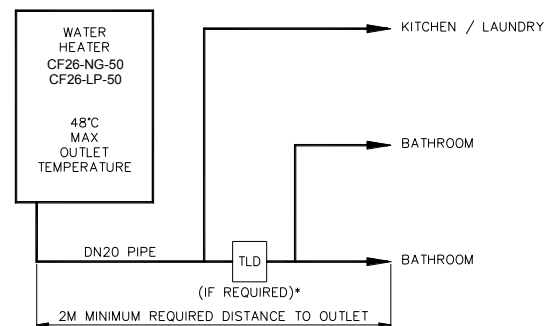
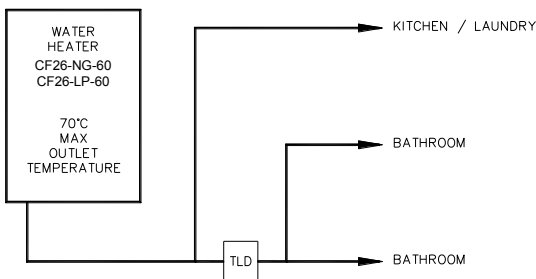
CF26-50 series



CF26-60 series

Bathroom Controllers Only

CF26-50 series



CF26-60 series

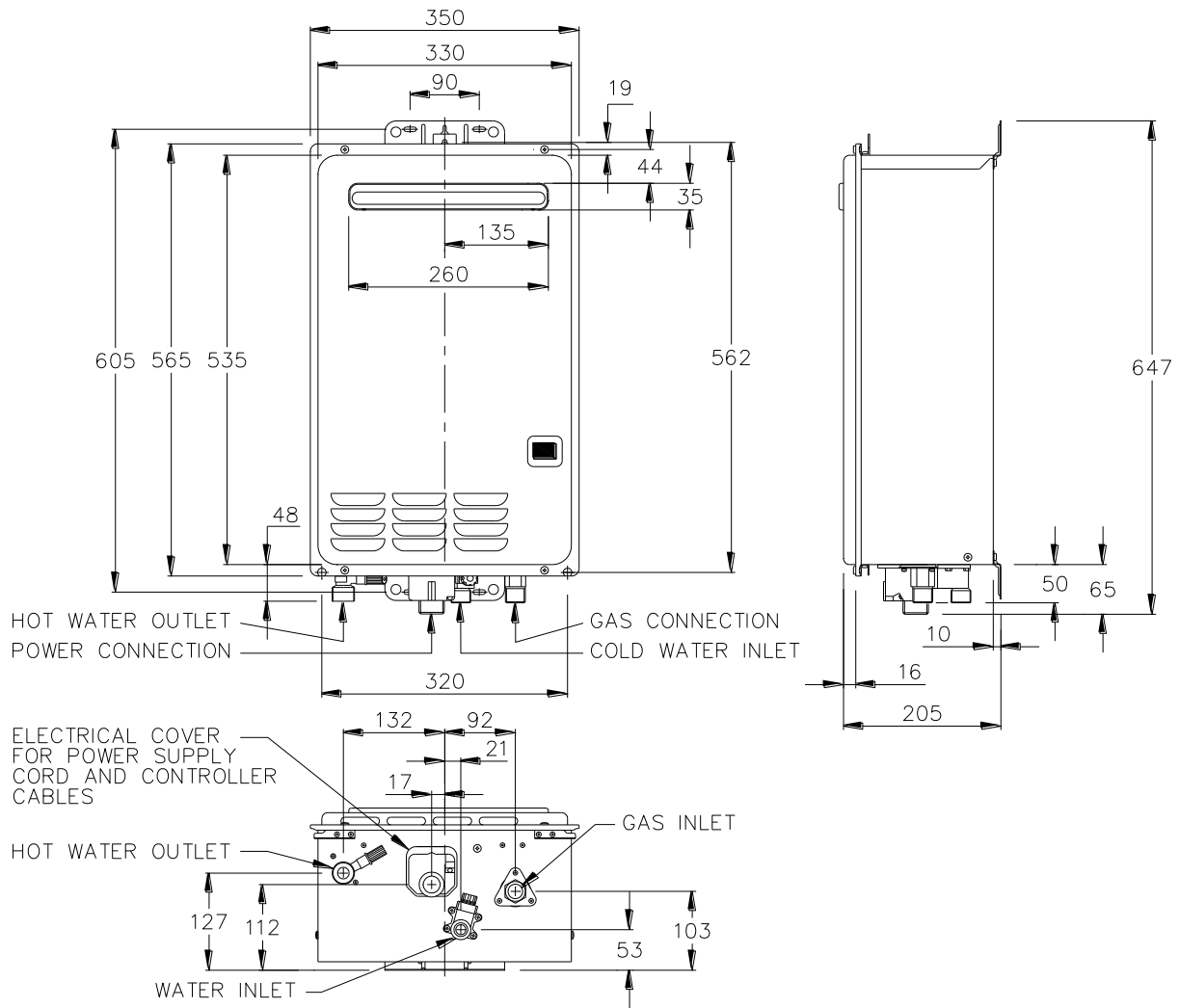
No Controllers

CF26-50 series

Notes:

- Temperature Limiting Devices – refer to “Hot Water Delivery” on page 29.
- The factory preset outlet temperature setting is:
 - CF26-60 series 60°C
 - CF26-50 series 48°C

DIMENSIONS AND TECHNICAL DATA



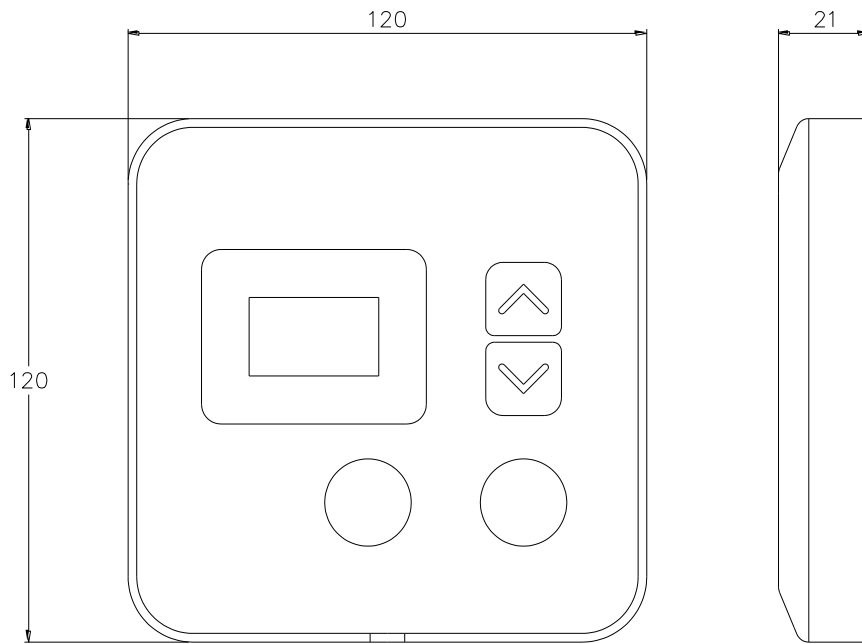
Model	Gas Type	Maximum Temperature Setting
CF26-NG-50	natural	48°C
CF26-NG-60	natural	60°C
CF26-LP-50	propane	48°C
CF26-LP-60	propane	60°C

Rated delivery	(@ 40°C rise)	litres / min	16
Recovery	(@ 25°C rise)	litres / min	26
Mass	Empty	kg	21

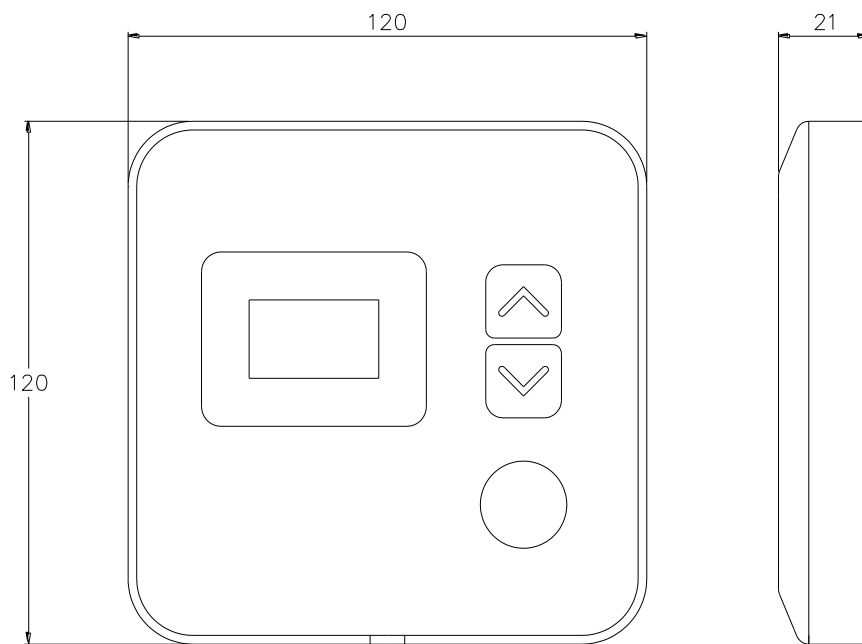
Gas Details	Hourly Gas Consumption (MJ)	Min. Gas Pressure (kPa)	Test Point Gas Pressure (kPa)		Max. Gas Pressure (kPa)
			minimum	maximum	
	CF26 series	CF26 series	CF26 series	CF26 series	CF26 series
Natural	199	1.13	0.200	1.000	3.50
Propane	199	2.75	0.244	1.370	3.50

Technical data is subject to change.

DIMENSIONS – CONTROLLERS

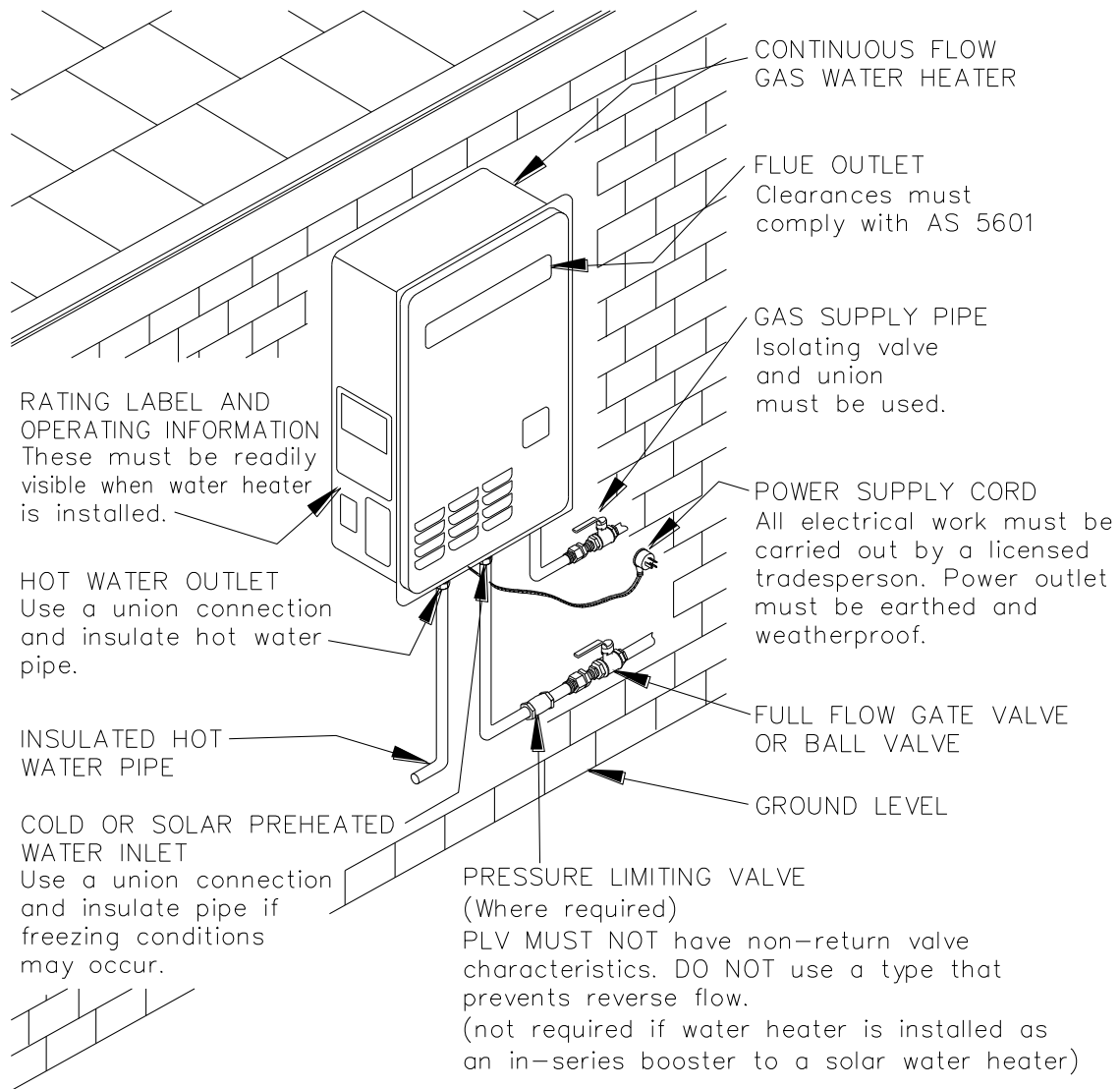


Kitchen Controller



Bathroom Controller

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 5601 or AS/NZS 5601.1, as applicable under local regulations, and all local codes and regulatory authority requirements.

CONNECTION SIZES

Model	CF26 series
Hot water connection	R ³ / ₄ /20
Cold water connection	R ³ / ₄ /20
Gas inlet connection	R ³ / ₄ /20

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 thread sealing tape or approved thread sealant on all fittings.

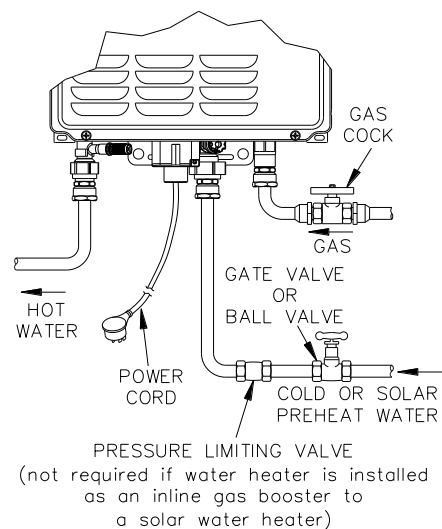
A full flow gate valve or ball valve must be installed on the cold water line or solar preheated water line to the water heater. **A non return valve or stop tap must not be installed.** An acceptable arrangement is shown in the diagram. Refer also to “Hot Water Delivery” on page 29 and to “Mains Water Supply” on page 28.

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.

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.
- The maximum supply temperature to the water heater when used as an in-series gas booster to a solar water heater should not exceed 80°C.



**Gas Water Heater
Cold (or Solar Heated) and Hot Water
and Gas Connection Details**

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 or solar preheat pipe and hot pipe size is DN20.

IN-SERIES BOOSTER

The pipe work between the solar storage tank (if one is installed) and the in-series gas booster has a minimum recommended pipe size of DN20, **MUST BE** of copper and be fully insulated with a closed cell type insulation or equivalent 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 both the solar storage tank and the in-series gas booster. A full flow isolation valve must be installed on the water line to the in-series gas booster.

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 37](#)).

Note: Refer to the Gas Installations Standard AS 5601 or 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 34](#)) 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 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.

⚠ Warning: Temperature controllers **must not** be fitted to this water heater (CF26-60 model) if it is installed as an in-series gas booster with a solar water heater system, because water at a temperature much higher than the controller setting can be delivered. If a solar water heater is installed to an existing water heater installation, then all controllers **must be** disconnected and removed.

The water heater is supplied with a 1.8 metre lead and plug and requires a weatherproof 240 V 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:

Component	Power consumption	Comments
Gas water heater	64 Watts	CF26 series – Burner on, anti frost device inactive
	150 Watts	CF26 series – Burner on, anti frost device active

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.

INSTALLATION – CONTROLLERS

CONTROLLERS

The Aquamax CF26 series of continuous flow water heaters can be installed with Aquamax controllers to enable the user to control the temperature of the delivered water from the outlet of the water heater.

There are three types of controller. They are the Kitchen controller (PN AQ3264101, including cable), Bathroom1 controller (PN AQ3264102, including cable) and the Bathroom2 controller (PN AQ3264103, including cable).

The controllers are identified by a 'K' (Kitchen controller), 'B1' (Bathroom1 controller) or 'B2' (Bathroom2 controller) located on the front bottom left hand corner of the controller.

The controllers are designed to be hard wired into the water heater using either the Kitchen controller cable (PN 299856) or the Bathroom controller cable (PN 299857).

Notes:

- Where more than one controller is installed, the second or third controller must be of the same family.
- One, two or three controllers can be installed. Only one of each type of controller can be connected to the water heater. Therefore, a maximum of three controllers only can be connected to each water heater.
- A Bathroom2 controller can only be installed if a Bathroom1 controller is installed.
- An additional Kitchen controller cable or Bathroom controller cable can be used if an extension of the cable length is required. It will be necessary to cut an opposite end off both cables to be installed in order to wire them together. Alternatively, the cables may be extended using two-core flex with a minimum cross-sectional area of 0.5 mm².
- Other manufacturers' controllers are not suitable to and cannot be installed with this water heater.

⚠ Warning: Temperature controllers **must not** be fitted to this water heater (CF26-60 model) if it is installed as an in-series gas booster with a solar water heater system, because water at a temperature much higher than the controller setting can be delivered. If a solar water heater is installed to an existing water heater installation, then all controllers **must be** disconnected and removed.

Location – The controllers must be installed in dry, shaded and clean locations.

Do not install the controllers:

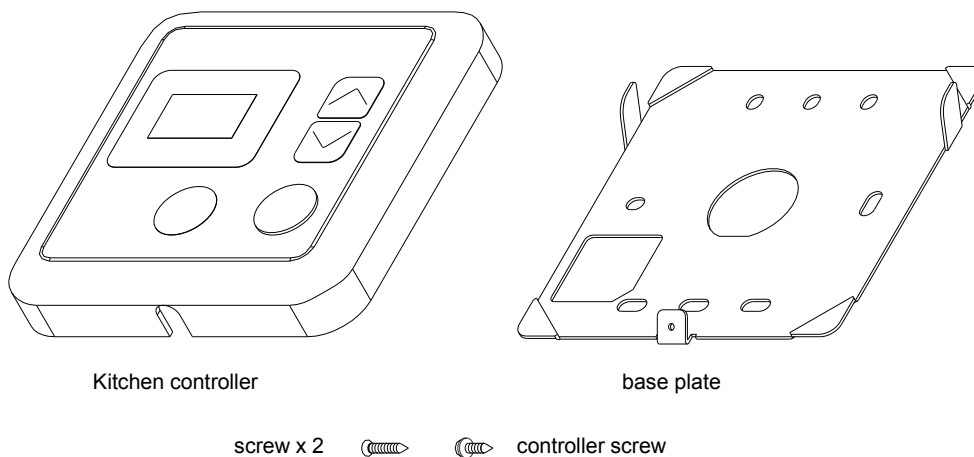
- Near a heat source, such as a cook top, stove or oven. Heat, steam and smoke will interfere with the electronic components of the controllers.
- In direct sunlight.
- In or near a wet area. The controllers are not waterproof. Water may damage the controllers.
- Outdoors. The controllers are not weatherproof.

KITCHEN CONTROLLER

The Kitchen controller (PN AQ3264104) is to be installed in the kitchen or laundry only. It has a minimum temperature setting of 37°C and a maximum temperature setting of:

- CF26-60 series 60°C
- CF26-50 series 48°C

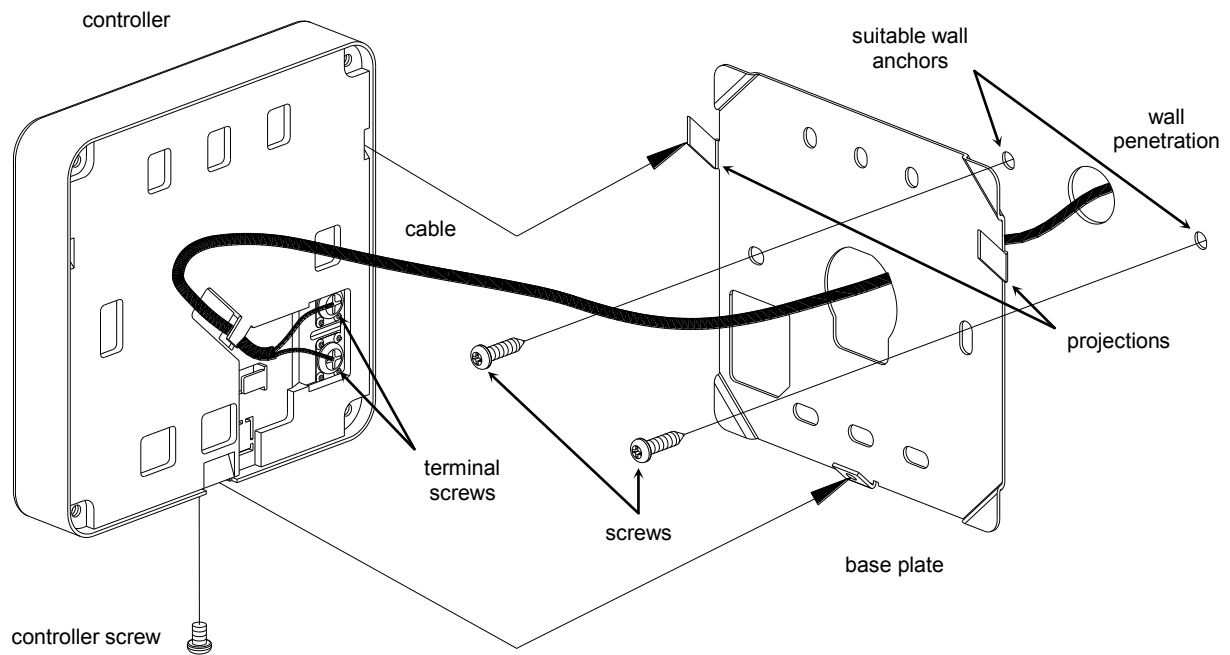
Choose a suitable location for the Kitchen controller, away from water, heat and sunlight.



Kitchen Controller Components

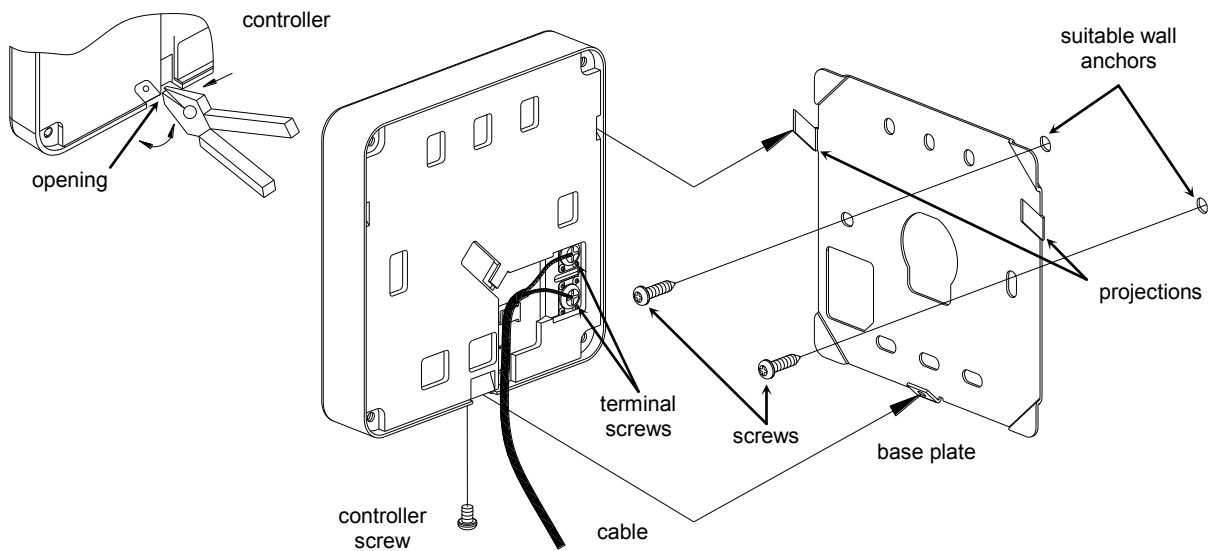
Wiring installation:

1. Penetrate the wall with a 30-35 mm hole at the controller location.
2. Install the Kitchen controller cable between the location of the controller and the water heater.
3. Remove the base plate from the controller.
4. Draw the cable through the central hole in the base plate.
5. Fix the base plate to the wall using suitable screws and wall anchors.
Ensure the projections in the base plate are pointing upwards.
6. Connect the cable to the two terminals on the back of the controller (connections are not polarity sensitive).
Ensure the connecting screws are seated tightly.
7. Place the controller over the base plate.
Ensure the projections in the base plate fit into the housings in the controller.
8. Fix the controller to the base plate at the bottom of the controller, using the controller screw provided.
9. Proceed to **“Connecting the Controller(s) to the Water Heater”** on page 45.



Kitchen Controller Installation Concealed Cable

If it is necessary to have an exposed wiring installation, follow this procedure omitting Steps 1 and 4, and make an opening in the thin section in the underside of the controller to accommodate the cable (as shown in the diagram), prior to Step 6.



Kitchen Controller Installation Exposed Cable

BATHROOM1 AND BATHROOM2 CONTROLLERS

If only one Bathroom controller is to be installed, the Bathroom1 Controller (PN AQ3264105) must be used. If two Bathroom controllers are to be installed, one must be a Bathroom1 controller and the other must be a Bathroom2 controller (PN AQ3264106).

They have a minimum temperature setting of 37°C and a maximum temperature setting of:

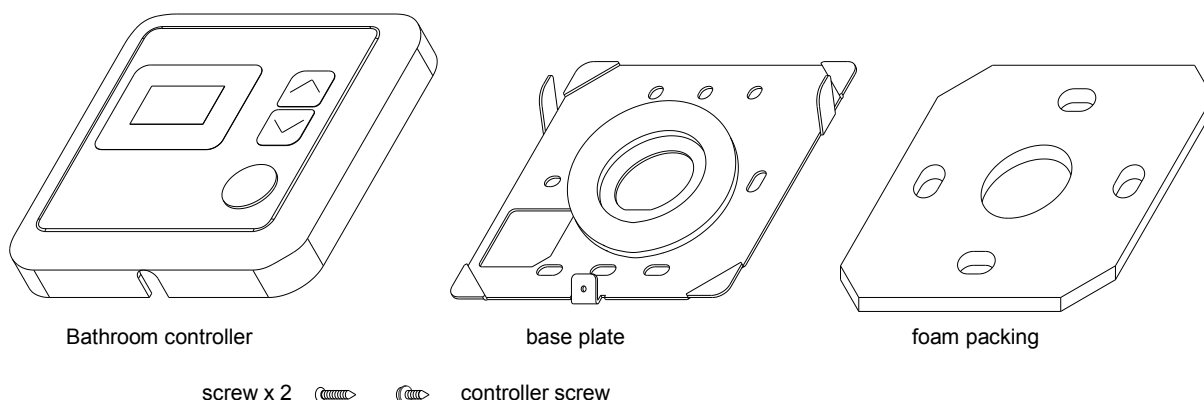
- CF26-60 series 50°C
- CF26-50 series 48°C

The method of installation for the Bathroom1 and Bathroom2 controllers is identical.

Choose a suitable location for each Bathroom controller, away from water, heat, and sunlight. The Bathroom controllers are supplied with a 250 mm length of wire with connectors to mate with the Bathroom controller cable.

Notes:

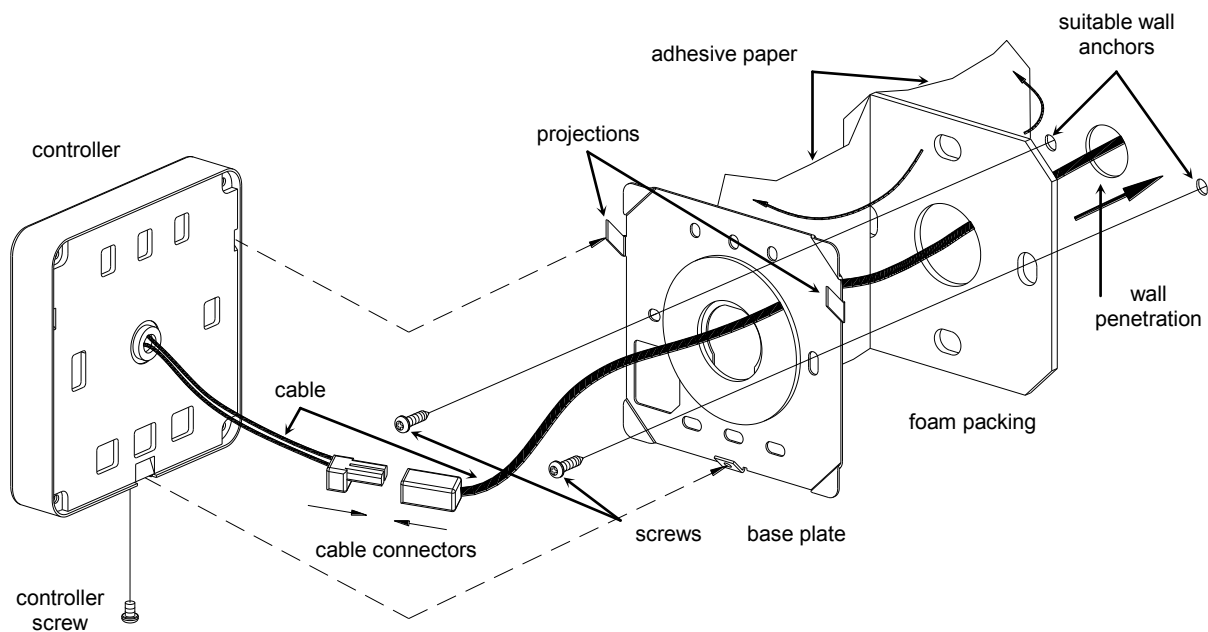
- It is not recommended to have exposed wiring in a bathroom.
- Do not apply sealant to the controller cable.



Bathroom1 and Bathroom2 Controller Components

Wiring installation:

1. Penetrate the wall with a 30-35 mm hole at the controller location.
2. Install the supplied cable between the location of the controller and the water heater.
3. Remove the base plate from the controller.
4. Peel off one side of the adhesive paper from the foam packing and adhere to the back face of the base plate. This is the side without the projections.
5. Peel off the remaining adhesive paper from the foam packing.
6. Draw the cable through the central hole in the base plate.
7. Fix the base plate to the wall using suitable screws and wall anchors.
Ensure the projections in the base plate are pointing upwards.
8. Plug the controller wire into the Bathroom controller cable.
9. Place the controller over the base plate.
Ensure the projections in the base plate fit into the housings in the controller.
10. Fix the controller to the base plate at the bottom of the controller, using the screw provided.
11. Proceed to **“Connecting the Controller(s) to the Water Heater”** on page 45.



Bathroom Controller Installation

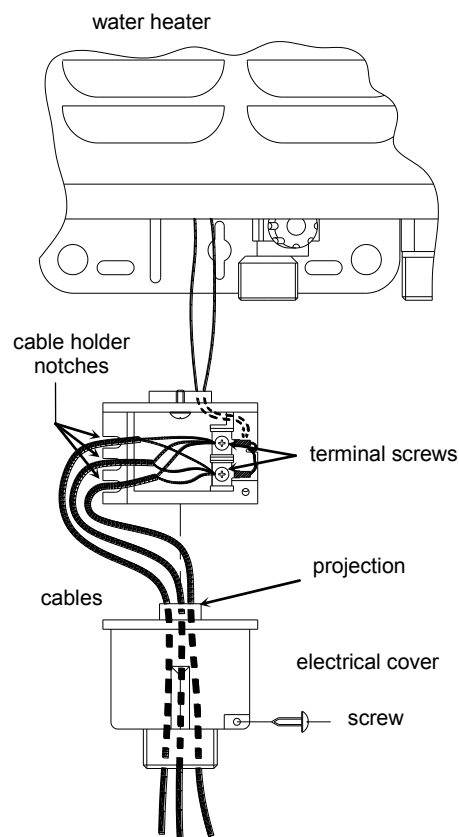
CONNECTING THE CONTROLLER(S) TO THE WATER HEATER

To connect the controller(s) to the water heater:

1. Ensure the electrical supply to the water heater is switched off.
2. Unscrew and gently remove the electrical cover from the underside of the water heater.
3. Draw the cable(s) through the electrical cover.
4. Connect a cable lug from each cable to each of the terminal screws. Each cable has two cable lugs.

Ensure the terminal screws are seated firmly and there are no excess wire loops inside of the electrical cover.

- The cable connections are non-polarised.
 - Three cable lugs, one from each type of controller, can be connected to each remote controller terminal.
5. Place the cable(s) in the cable holder notches. It is important to seat the cables into the cable notches. Failure to do this may cause an unstable contact or even disconnection of the cables from the terminals if the cables were to be pulled.
 6. Refit the electrical cover to the water heater and replace the screw.
 7. Switch on the electrical supply to the water heater.



Upon completion of the installation of the controllers, it is necessary to test their operation through the complete range of functions (refer to **“Temperature Control”** on pages 11 to 21).

Upon completion and testing of the installation, explain to the householder the functions and operation of the controllers and 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, follow the procedure **“To Turn Off the Water Heater”** on page 52.

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.
- Turn on a controller, if one is fitted, by pressing the on / off button.
The light in the on / off button and the priority light will both glow.
- 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 3.0 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 50.

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 46), the minimum test point pressure and the maximum test point pressure (refer to "[Burner Gas Pressure](#)" on page 48).

Upon completion and testing of the installation, ensure the controller(s) is turned off (if fitted). Explain to the householder or a responsible officer the functions and operation of the water heater and the controllers (if fitted).

⚠ 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:

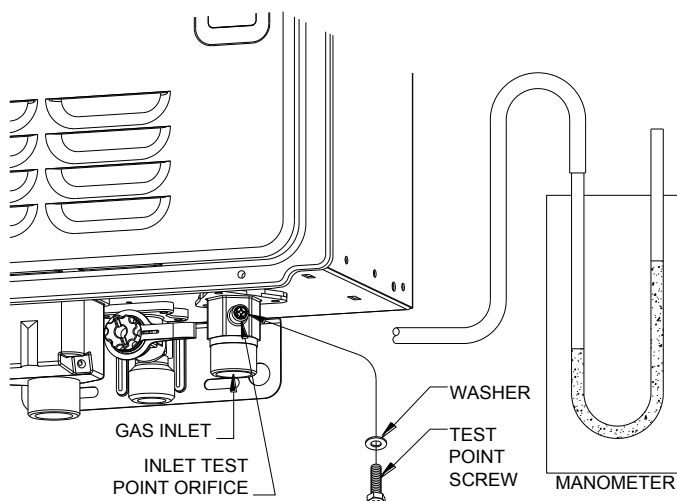
Natural Gas	1.13 kPa	Propane	2.75 kPa
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If this minimum cannot be achieved, it may indicate the meter or the gas line to the water heater is undersized. It is important to ensure that an adequate gas supply pressure is available to the water heater when 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 gas pressure ratings on the rating label, no adjustment is required.

If the manometer reading is below the minimum 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 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 and turn on a controller, if one is fitted, by pressing the on / off button.
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 gas pressure ratings on the rating label, no adjustment is required.

If the manometer reading is below the minimum 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 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 240 volt wiring. Take care not to touch wiring terminals.

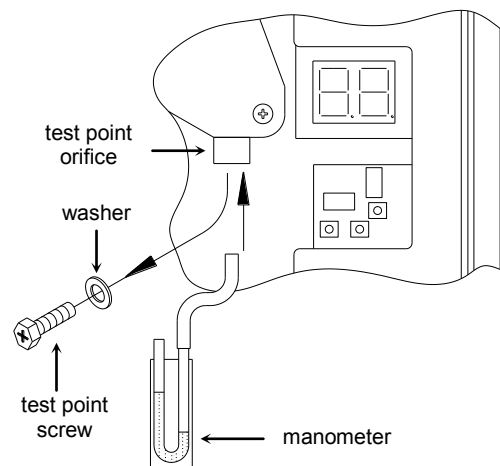
Note: If a CF26-60 model is installed as an in-series gas booster to a solar water heater, then during this procedure the temperature of the water entering the in-series gas booster must be below 58°C. Otherwise the gas burners will not ignite and the operational gas pressures cannot be measured.

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. Turn off the controller(s), if one is fitted, by pressing the on / off button and switch off the electrical supply at the power outlet to the water heater.
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. 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.



6. Switch on the electrical supply at the power outlet to the water heater and turn on a controller, if one is fitted, by pressing the on / off button.
7. Open the gas isolation valve fully at the gas inlet to the water heater, if not already open.
8. Open a hot tap slowly until the burners ignite.
9. Press and hold down the MIN button and observe the reading on the manometer.

- "1L" is shown on the LED display.

10. Release the MIN button.

If the manometer reading observed in step 9 agrees with the rating label, no further adjustment is required.

11. To adjust, press and hold down the adjuster button.

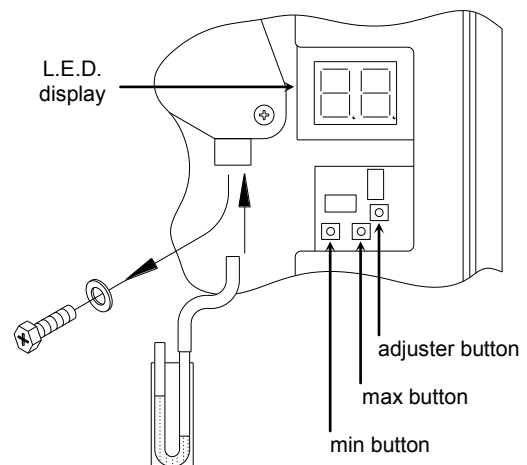
- "LH" is shown on the LED display.

Note: The adjuster button must be held down continuously through steps 11 to 13.

12. Press the MIN button and observe the reading on the manometer.

Note: While the MIN 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).

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



Notes:

- If the burners extinguish and / or an error code 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 49)
 - recommence the procedure from Step 8.
- If the adjuster button is released before Step 13, clear any error code (if displayed) and recommence the procedure from Step 8.

Maximum test point gas pressure

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

Follow Steps 8 to 14 of the “**Minimum test point gas pressure**” procedure on page 48, 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.

Note: In Step 9, “4H” (CF26 series) will be shown 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.
- Turn off the controller, if one is fitted, by pressing the on / off button
- Switch off the electrical supply at the power outlet to the water heater
- Refit the front panel and screws to the water heater.

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:

- CF26-60 series 60°C
- CF26-50 series 48°C

If a temperature controller is connected to the water heater, this will override the preset outlet temperature setting and the maximum temperature setting will be:

Maximum Outlet Temperature	CF26-60 series	CF26-50 series
Kitchen controller connected	60°C	48°C
Bathroom controller only connected	50°C	48°C

It is usually not necessary to check or adjust the factory preset outlet temperature setting of the water heater, unless the customer has a particular requirement for this to be done or it is to be installed as an in-series gas booster to a solar water heater.

Gas Booster for a Solar Water Heater

Note: AS 3498 requires that a water heater provides the means to inhibit the growth of Legionella bacteria in potable water. When this water heater is used as an in-series booster for a solar water heater it can satisfy this AS 3498 requirement provided it is energised, the booster preset outlet temperature setting is 70°C, and that a remote temperature controller is not used.

It will be necessary to check and if required to adjust the preset outlet temperature setting of the continuous flow water heater when:

- it is installed as an in-series gas booster to a solar water heater
- it is an existing continuous flow water heater and a solar water heater is then installed.

Notes:

- 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 29 and to [“Schematics of Two Temperature Zones Using A Temperature Limiting Device”](#) on page 30.
- The CF26-50 model water heaters, marked “THIS APPLIANCE DELIVERS WATER NOT EXCEEDING 50°C IN ACCORDANCE WITH AS 3498” on the front panel, **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.

TO CHECK OR ADJUST THE PRESET OUTLET TEMPERATURE SETTING

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

- CF26-60 series 40°C, 43°C, 50°C, 55°C, 60°C, 70°C
- CF26-50 series 40°C, 43°C, 48°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 240 volt 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 screws holding the front panel to the jacket.
3. Gently disengage the front panel and pull forward to remove from the water heater.
4. Switch on the electrical supply at the power outlet to the water heater.
5. Switch DIP SWITCHES 3 and 4 to the on (up) position on the I.C. Board.

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 7, as no further adjustment is necessary.

6. 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 underneath the DIP switches.

CF26-60 model water heater

The increments are 40, 43, 50, 55, 60, 70.

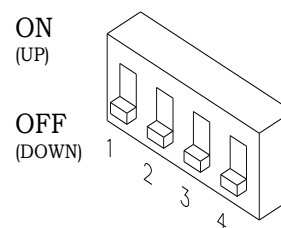
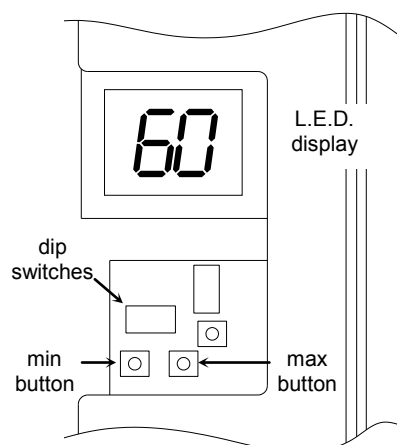
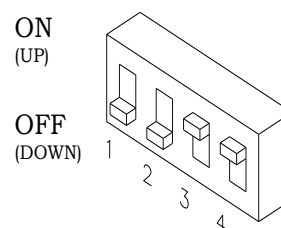
CF26-50 model water heater

The increments are 40, 43, 48.

7. Switch DIP SWITCHES 3 and 4 to the off (down) position.

The LED display will go blank. The preset outlet temperature setting is now set.

8. Switch off the electrical supply at the power outlet to the water heater.
9. Refit the front panel and screws 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:

- Turn off the controllers(s) (if fitted) by pressing the on / off button.
The light in the on / off button will go out and the priority light, if it is on, will go out.
- 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 52.

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 warranty (refer to “[Terms of the Aquamax Warranty](#)” on page 55).
- 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 52).

DRAINING THE WATER HEATER

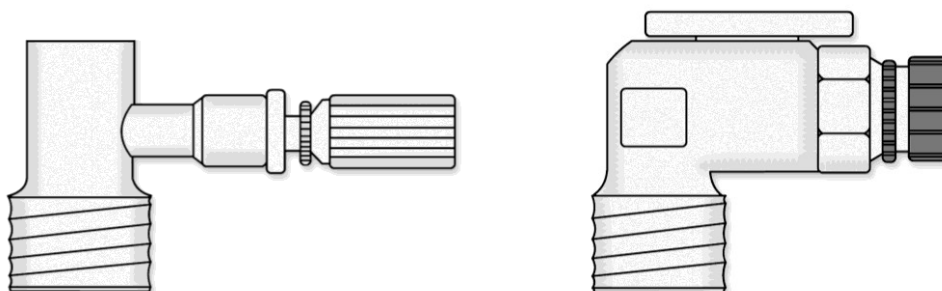
To drain the water heater:

- Turn off the water heater.
Refer to “[Turn Off The Water Heater](#)” on page 52.
- 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.



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AQUAMAX CONTINUOUS FLOW GAS WATER HEATER WARRANTY – AUSTRALIA ONLY

CONTINUOUS FLOW GAS WATER HEATER CF26 SERIES

1. THE AQUAMAX WARRANTY – GENERAL

- 1.1 This warranty is given by Aquamax Australia Pty Limited ABN 37 138 189 689 of 463-467 Warrigal Road Moorabbin Victoria, the supplier of Aquamax continuous flow gas water heaters, manufactured by Paloma Co., Ltd., a world leader in water heater technology and manufacture.
- 1.2 Aquamax 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 warranty. Aquamax Service, in addition can provide preventative maintenance and advice on the operation of your water heater. The Aquamax Service contact number is available 7 days a week on 1800 676 000 from 9am to 5pm, excluding public holidays (hours subject to change without notification).
- 1.3 For details about this warranty, you can contact us on 1800 676 000 or by email at service@aquamax.com.au (not for service bookings).
- 1.4 The terms of this warranty are set out in section 2 and apply to water heaters manufactured after 1st January 2012.
- 1.5 If a subsequent version of this warranty is published, the terms of that warranty will apply to water heaters manufactured after the date specified in the subsequent version.

2. TERMS OF THE AQUAMAX WARRANTY AND EXCLUSIONS TO IT

- 2.1 The decision of whether to repair or replace a faulty component is at Aquamax's sole discretion.
- 2.2 If you require a call out and we find that the fault is not covered by the Aquamax warranty, you are responsible for our standard call out charge. If you wish to have the relevant component repaired or replaced by Aquamax, 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 warranty.
- 2.4 Where the water heater is installed outside the boundaries of a metropolitan area as defined by Aquamax or further than 25 km from either a regional Aquamax branch office or an Accredited Aquamax Service Agent's office, the cost of transport, insurance and travelling between the nearest branch office or Aquamax 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 water heater in its original installed location and any genuine Aquamax replacement parts.
- 2.7 The Aquamax 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.
 - e) Repairs, attempts to repair or modifications to the water heater by a person other than Aquamax Service or a Aquamax 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 water heater literature, any resultant fault will not be covered by the Aquamax warranty.

AQUAMAX AUSTRALIA PTY LIMITED, A.B.N. 37 138 189 689, www.aquamax.com.au
For Service Telephone 1800 676 000 AUSTRALIA or refer local Yellow Pages

AQUAMAX CONTINUOUS FLOW GAS WATER HEATER WARRANTY – AUSTRALIA ONLY

CONTINUOUS FLOW GAS WATER HEATER CF26 SERIES

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

- 3.1 Aquamax 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 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.

4. ENTITLEMENT TO MAKE A CLAIM UNDER THIS WARRANTY

- 4.1 To be entitled to make a claim under this warranty you need to:
- Be the owner of the water heater or have consent of the owner to act on their behalf.
 - Contact Aquamax 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:
- Does not have its original serial numbers or rating labels.
 - 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:
- Contact Aquamax on 1800 676 000 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).
 - Aquamax will arrange for the water heater to be tested and assessed on-site.
 - If Aquamax determines that you have a valid warranty claim, Aquamax 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 Aquamax warranty (set out above) is in addition to any rights and remedies that you may have under the *Australian Consumer Law*.

INSTALLER INFORMATION

DEAR INSTALLER Please provide the following information upon completion of the installation. This information should be provided to assist the customer in an event that a claim is to be made under the Aquamax warranty.

Plumber (Name & Company):

Plumber's Licence Number:

Compliance Certificate (if applicable):

Installation Date:

Model & Serial Number:

Water Heater Date of Manufacture: