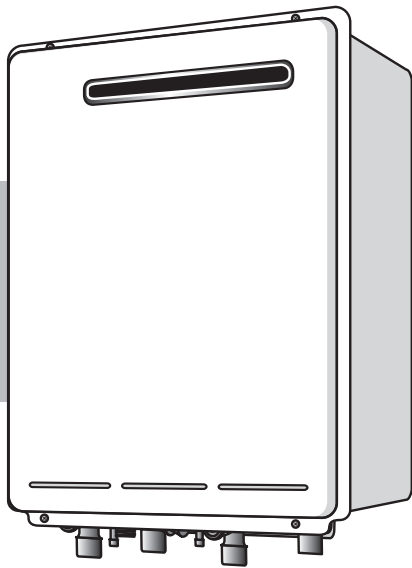


Rinnai

Operation / Installation Manual

Rinnai INFINITY 26 Smartstart
water heater with preheat function



To Suit Water Heater Model:
INFINITY 26 SMARTSTART REU-VR2626WGP

This appliance shall be installed in accordance with:

- Manufacturer's Installation Instructions
- Current AS/NZS 3000, AS/NZS 3500 & AS 5601
- Local Regulations and Municipal Building Codes including local OH&S requirements

This appliance must be installed, maintained and removed by an Authorised Person.

For continued safety of this appliance it must be installed operated and maintained in accordance with the manufacturers instructions.



The Australian
Gas Association
All Rinnai gas products
are A.G.A. certified.



N10378



Certified System
Quality
ISO 9001
SAI GLOBAL

Certified
Product



WaterMark
AS3498 Lic:WMKA00208
SAI Global

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REGULATORY INFORMATION

Your Rinnai Continuous Flow water heater has been certified by the Australian Gas Association. The A.G.A. Certification Number is shown on the data plate.



The Rinnai "Smartstart" function incorporated in this water heater can preheat the water in the pipework between the water heater and the hot water outlets. This results in water savings and reduces waiting time for heated water at the outlets. The energy consumption on the energy star rating label on the appliance relates only to the task of heating water intended for immediate consumption. It does not include the energy consumed by the Rinnai "Smartstart" function to preheat pipework as this will vary depending on application.

This Appliance must be installed correctly by an authorised person. The installation of gas, water, and electricity must conform to local regulations.

The installation must also comply with the instructions supplied by Rinnai.

All dimensions referred to in these instructions are in millimetres, unless otherwise specified.

Please keep this instruction booklet in a safe place for future reference.

Notice to Victorian Consumers

This appliance must be installed by a person licensed with the Plumbing Industry Commission.

Only a licensed person will have insurance protecting their workmanship.

So make sure you use a licensed person to install this appliance and ask for your Compliance Certificate. For Further information contact the Plumbing Industry Commission on 1800 015 129.

WARNING ABOUT HOT WATER



Heated water can be dangerous, especially for young children and the infirm.

Water temperatures above 50°C can cause severe burns instantly and may even result in death.

Those most at risk are children, disabled, elderly and the infirm.

Hot water at 65°C (a very common hot water temperature in Australia) can severely burn a child in less than half a second. At 50°C it takes five minutes.

ALWAYS.....

Test the temperature of the water with your elbow before placing your child in the bath, also carefully feel water before bathing or showering yourself.

Supervise children whenever they are in the bathroom.

Make sure that the hot water tap is turned off tightly.

CONSIDER.....

Installing child proof tap covers or child resistant taps (both approaches will prevent a small hand being able to turn on the tap).

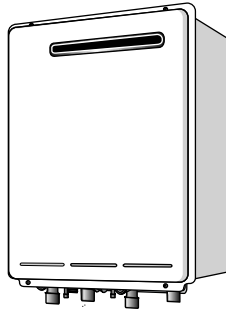
Setting your appliance at a maximum temperature of 50°C (Contact Rinnai Australia).

NEVER.....

Leave a toddler in the care of another child. They may not understand the need to have the water temperature set at a safe level.

FEATURES AND BENEFITS

Congratulations on purchasing the latest technology temperature controlled Rinnai continuous flow water heating system with preheat function.

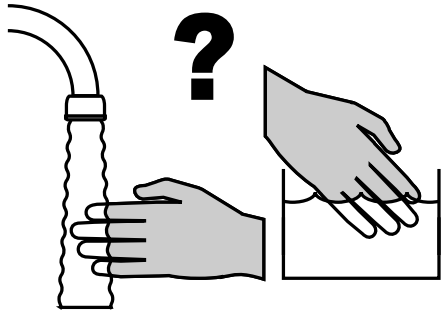


- The Rinnai Continuous Flow water heater products NEVER RUN OUT of hot water. Whilst electricity, water and gas supplies are connected, hot water is available whenever hot water taps are open.
- Built into the main micro-processor is the facility to LIMIT THE MAXIMUM TEMPERATURE of the hot water supplied. The water temperature may be limited to various values. This is particularly useful when the hot water unit is installed where young children or the infirm may be using the hot water.
- The Rinnai Continuous Flow water heater products are power flued appliances. This makes them COMPACT, saving both floor and wall space.
- The temperature of hot water is CONSTANTLY MONITORED by a BUILT-IN SENSOR. If the temperature of the hot water rises to more than 3°C above the selected temperature the burner is turned OFF and only turned ON again when the temperature falls below the selected temperature.
- The burner lights automatically when the hot water tap is opened, and goes out when the tap is closed. IGNITION IS ELECTRONIC, so there is no pilot light. When the hot water tap is off, no gas is used.
- The Smartstart system fitted in this unit preheats the water in the pipework between the water heater and the hot water outlets. This results in water savings and reduces waiting time for heated water at the outlets.
- 'Deluxe' or 'Universal' Water Controllers are available for this appliance. Depending on the models chosen, these offer the following features:
 - Bath fill function (Deluxe Bathroom Control Only).
 - Voice Prompting (Deluxe Control Only).
 - Clock (Deluxe Control Only).
 - Up to four water controllers can be fitted. See page 5 for details.
 - Water controller cables are connected easily by the end user using a convenient quick connect system.
- Operating NOISE LEVEL IS VERY LOW.
- ERROR MESSAGES ARE DISPLAYED on the Water Controllers.

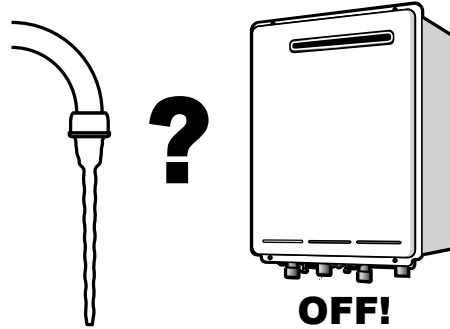
IMPORTANT INFORMATION



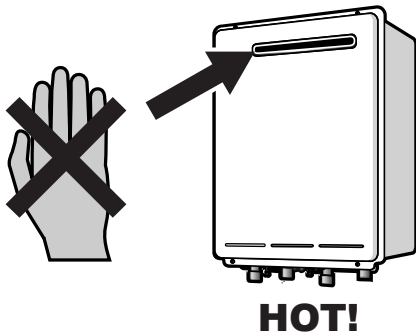
The Rinnai INFINITY 26 Smartstart is **INCOMPATIBLE** with solar water heating systems. A dedicated range of solar compatible continuous flow water heaters is available from Rinnai. This appliance is factory pre-set to a temperature limit of 50°C or 55°C. Other limits, lower or higher are available on request.



Always check water temperature carefully before use. Refer to the **WARNING ABOUT HOT WATER** on "page 1" of this manual for important safety information.



At low water flows, the hot water unit may extinguish without warning. Opening the tap further will restart the appliance.



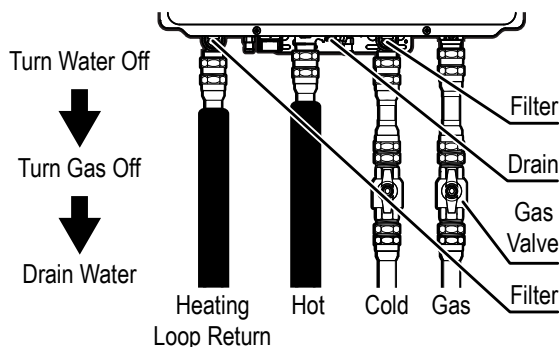
Do Not touch the unit cover or the flue outlet.
Do Not insert objects into the flue outlet.

On colder days steam may discharged from the flue outlet. This condition is normal for high efficiency appliances and does not indicate a fault.



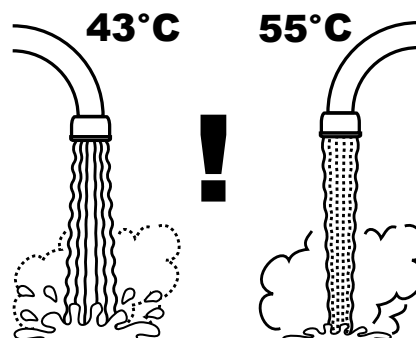
Keep flammable materials, spray cans, fuel containers, pool chemicals, trees, shrubs, etc. well clear of the flue outlet.

Do Not spray water directly into the flue terminal.



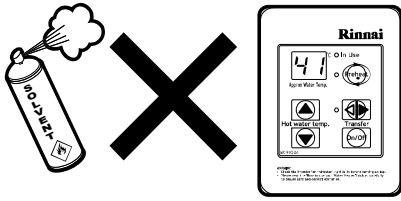
Anti-frost protection is fitted as standard equipment on this model. When the power is connected and switched on, freezing will be prevented.

If the power is switched off and freezing conditions are expected, turn off water and gas and drain all water from the appliance.



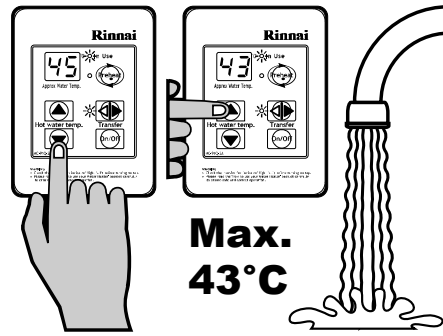
The delivered water temperature is controlled automatically. The flow may vary depending on the delivery temperature selected and the ambient water temperature.

IMPORTANT INFORMATION

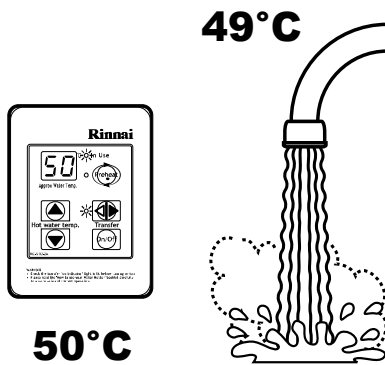


To clean your water controller(s) use a soft damp cloth with a mild detergent.

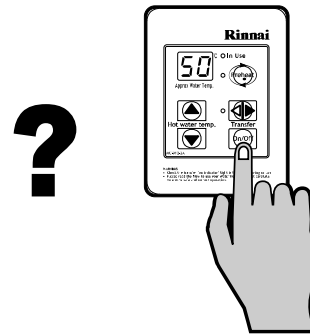
Do Not use solvents!



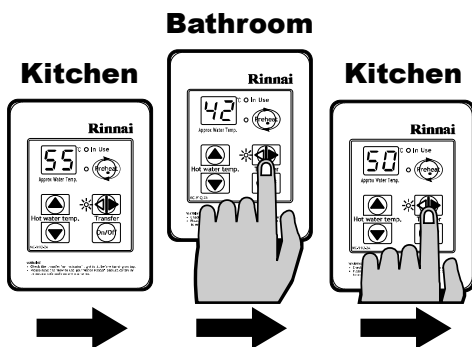
Whilst hot water outlets are open the set temperature may be lowered. However they cannot then be raised above 43°C. In addition transfer of 'priority' between controllers is not possible. These are safety features.



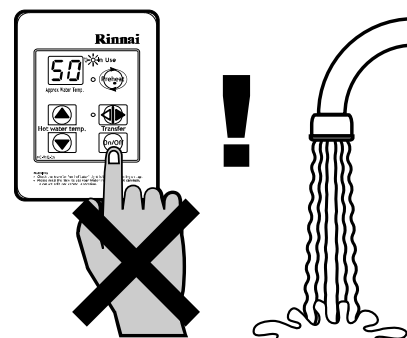
Depending on the weather conditions and the length of the pipe between the hot water unit and the outlet in use, there may be a variation between the temperatures displayed at the water controller(s) and the temperature of the water at the outlet.



There is no need to turn the water controller(s) off after use. However, if you prefer to turn the water controller(s) off, selected temperatures to a maximum of 50°C will be stored in the system memory at all times whilst mains power remains connected.



As a safety precaution, if a Kitchen Controller's temperature is set above 50°C, transferring and then returning 'priority' to the Kitchen Controller will result in a default set temperature of 50°C being selected. This is a safety feature.



Do Not push the On/Off button on any Controller when the 'Red' water heater 'In Use' indicator is illuminated as this will turn off the water heater causing the water to go cold. Someone maybe in the middle of having a shower or filling a bath.

GENERAL WATER CONTROL INFORMATION



To enable activation of the Smartstart preheat function and for precise temperature control at least one water controller **MUST BE** fitted to this appliance.

When used correctly, the hot water unit will deliver the selected temperature, even when the water flow is varied, or more than one tap is in use. Each water controller can be individually programmed, however the water heater can only deliver one set temperature at any time. The available temperatures (°C) are as follows:

Kitchen Controller:

37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48, 50, 55*, 60°C*

Bathroom Controller:

Hot Water Delivery: 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48, 50°C

Bath fill Delivery: 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48°C

Whilst hot water outlets are open the set temperature may be lowered. However the set temperature cannot then be raised above 43°C. In addition, transfer of 'priority' between water controllers is not possible. These are safety features.

Suggested temperatures are:

Kitchen 50°C ~ 55°C* Shower 37°C ~ 43°C, Bath fill 39°C ~ 45°C

** Temperature not available on Compliant to 50°C models.*

These temperatures are suggestions only. You may find higher or lower temperatures more comfortable. Maintaining lower temperatures helps save energy. To obtain water temperatures lower than 37°C simply add cold water.

Additional 'Universal' and 'Deluxe' water controllers are available for this appliance.

Universal water controllers allow temperature selection only. Deluxe water controllers allow temperature selection, shower saver / bath fill and have a clock function.

Water controllers allow the water temperature to be set from the various locations where they are installed. The temperature selected will be available to all outlets.

Universal (MC-91Q) and Deluxe (MC/BC-100V) Water Controllers - available configurations:

A maximum of 4 water controllers can be fitted. Any combination of both deluxe and universal controllers can be used with the following provisions:

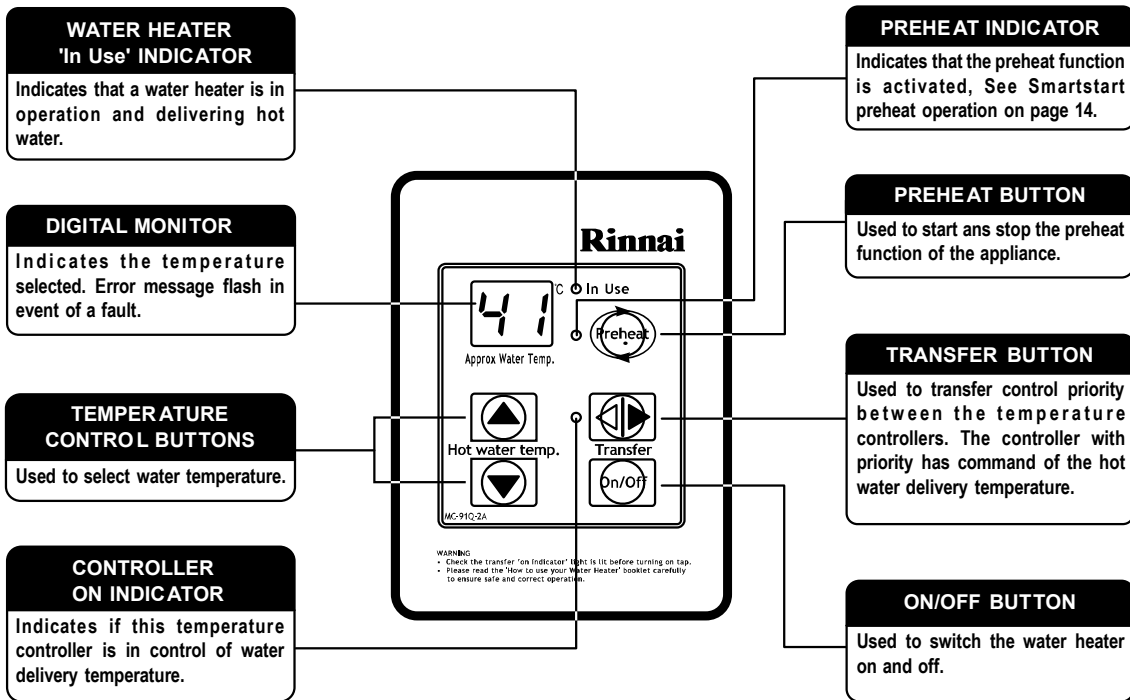
Only **ONE** MC-100V water controller can be installed.

Up to **TWO** BC-100V water controllers can be installed.

The **FOURTH** water controllers in any installation **MUST BE** a MC-91Q.

UNIVERSAL WATER CONTROLLER

ABOUT THE UNIVERSAL WATER CONTROLLER (MC-91Q)



TURNING ON THE CONTROLLER

If the water controller is switched off (No digits displayed in the digital monitor window) press the On/Off button once.

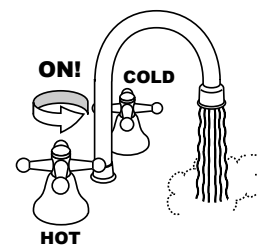
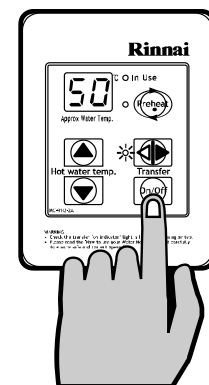
The ON indicator will illuminate, indicating that the hot water unit will be ready to supply hot water once a hot water tap is opened.

ADJUSTING TEMPERATURE

Select the desired temperature using the 'Hot water temp' or buttons until the required temperature is displayed on the digital monitor.

To operate the hot water unit, open any hot water tap. This will automatically light the burner providing hot water. The water heater 'In Use' indicator will illuminate on the water controller.

Once the hot water is running, if the set temperature is either too hot or cold press the 'Hot water temp' or buttons until the desired temperature is reached.



CHECK WATER TEMPERATURE BEFORE USE.

A parent or carer should always check the temperature before a child is placed in contact with hot water, see page 1.



Whilst hot water outlets are open the set temperature may be lowered. However they cannot then be raised above 43°C. In addition, transfer of 'priority' between controllers is not possible. These are safety features.

The 'beep' sound can be muted by pressing the 'Hot water temp' Up and Down buttons simultaneously for more than 3 seconds.

UNIVERSAL WATER CONTROLLER

HOW TO USE TWO OR MORE UNIVERSAL WATER CONTROLLERS

TURNING ON THE CONTROLLERS

If the controllers are switched off (No digits displayed in the digital monitor window) press the On/Off button once at any controller.

The ON indicator on the desired controller will illuminate, indicating that the hot water unit will be ready to supply hot water once a hot water tap is opened.

TRANSFERRING PRIORITY

An illuminated On/Off indicator confirms that the desired controller is in control of the water delivery temperature, if the On/Off indicator is not illuminated press the TRANSFER button once.

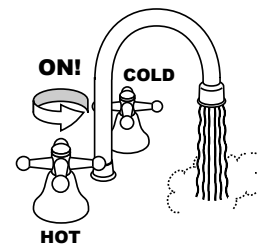
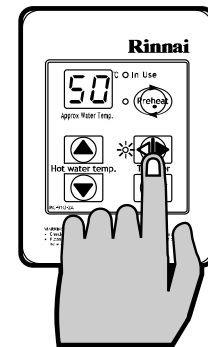
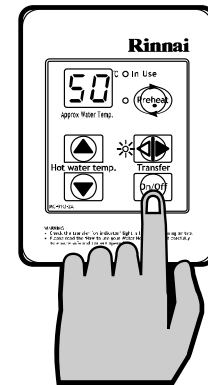
The On/Off indicator on the controller will now illuminate indicating that hot water temperature control has now been transferred to this controller and that the hot water unit will be ready to supply hot water once a hot water tap is opened.

ADJUSTING TEMPERATURE

Select the desired temperature using the 'Hot water temp' ▲ or ▼ buttons until the required temperature is displayed on the digital monitor.

To operate the hot water unit, open any hot water tap. This will automatically light the burner providing hot water. The water heater 'In Use' indicator will illuminate on the water controller.

Once the hot water is running, if the set temperature is either too hot or cold press the 'Hot water temp' ▲ or ▼ buttons until the desired temperature is reached.



CHECK WATER TEMPERATURE BEFORE USE.

A parent or carer should always check the temperature before a child is placed in contact with hot water, see page 1.



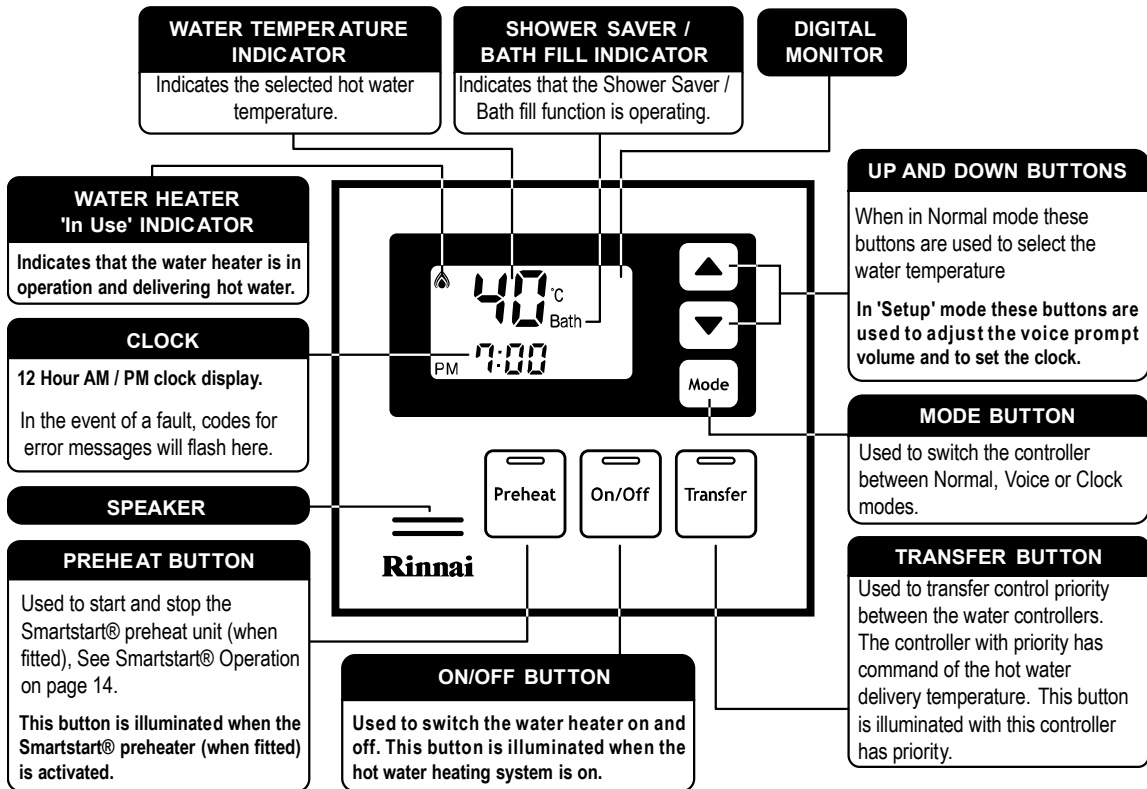
Whilst hot water outlets are open the set temperature may be lowered. However they cannot then be raised above 43°C. In addition transfer of 'priority' between controllers is not possible. These are safety features.

Temperatures higher than 50°C should not be able to be selected on controllers installed in bathrooms, ensuites or toilets. This is to help reduce the risk of burns from hot water. If this is not the case, the controllers have been incorrectly installed. CONTACT YOUR INSTALLER.

The temperature of outgoing hot water is constantly monitored by a built-in sensor. If the temperature of the outgoing hot water rises to more than 3°C above the selected temperature shown on the digital monitor or the pre-set limit when water controllers are not fitted, the burner will automatically go out. The 'in use' indicator will also go out. The burner will ignite again once the outgoing hot water temperature falls to that shown on the digital monitor (or the pre-set limit of the appliance).

DELUXE KITCHEN WATER CONTROLLER

ABOUT THE DELUXE KITCHEN WATER CONTROLLER (MC-100V)




NOTE Only one MC-100V may be fitted to your water heater. Refer to page 5 to confirm the maximum number and combination of controllers that can be fitted to your Water Heater model.

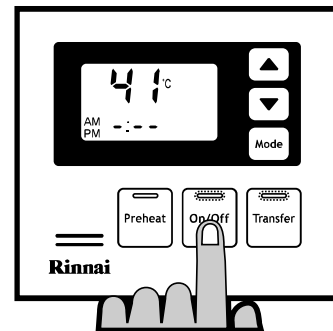
The MC-100V controller is not water resistant, avoid direct exposure to water or steam as these conditions may cause a malfunction.

TURNING ON THE CONTROLLER

If the controller is switched off (No digits other than the clock digits displayed in the digital monitor) press the On/Off button once.



The On/Off and Transfer buttons illuminate to indicate that the hot water unit will be ready to supply hot water once a hot water tap is opened.

If more than one controller is fitted press the 'Transfer'  button to transfer priority to the desired controller.




SETTING THE SOUND OPTIONS

To set the sound options press the 'Mode'  button once to place the controller into 'Voice' mode.

Use the  or  buttons to select the desired audible setting as follows:

Voice High, Med, Low or Off, sets the voice prompt volume but does not affect the audible tones.

Sound Off, mutes all voice prompts and audible tones.


To return to normal mode press the 'Mode'  button once, if no buttons are pressed for a period of approximately 10 seconds the controller will return to normal mode.






NOTE Voice prompts only available when Deluxe Bathroom water controller(s) are installed.

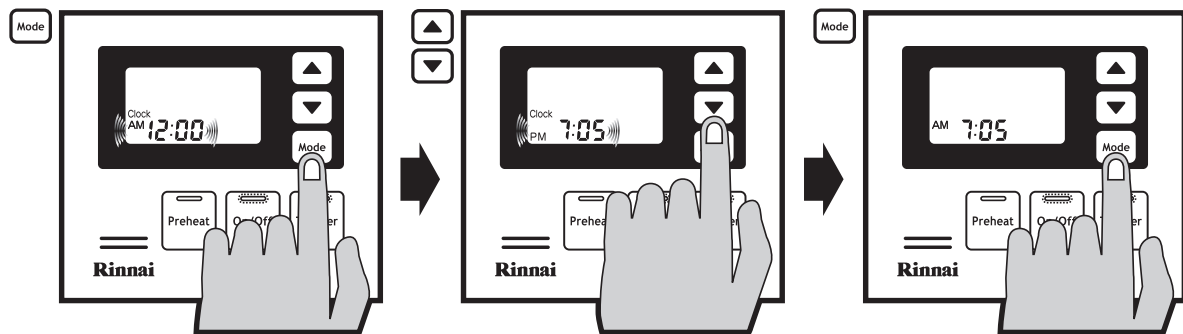
DELUXE KITCHEN WATER CONTROLLER

SETTING THE CLOCK

The clock is a 12 hour AM/PM style display. To set the time press the 'Mode'  button twice. This places the controller into clock setting mode and in the digital monitor the word 'Clock' will be displayed and the clock digits will flash. If this is the first time the clock has been set the starting time will be AM 12:00.

Use the  or  buttons to select the desired time. Holding these buttons down continuously cycles the digits. When you get close to the time you wish to set, press the button intermittently to avoid going further than the desired time.

To return to normal mode press the 'Mode'  button once. If no buttons are pressed for a period of approximately 10 seconds the controller will return to normal mode.






NOTE



The time is always displayed regardless of whether the water controller is turned ON or OFF.

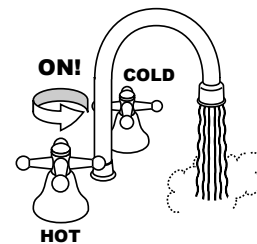
The clock may need resetting if power to the water heater unit is disrupted due to a power failure or if the power is switched off over a prolonged period.

ADJUSTING TEMPERATURE

Simply press the 'hot water temp'  or  buttons until the required temperature is displayed on the digital monitor.

To operate the water heater, open any hot water tap. This will automatically light the burner, providing hot water. The 'In Use' indicator  will illuminate on the water controller.

Once the hot water is running, if the set temperature is either too hot or cold press the  or  buttons until the desired temperature is reached.



CAUTION

CHECK WATER TEMPERATURE BEFORE USE.

A parent or carer should always check the temperature before a child is placed in contact with hot water, see page 1.

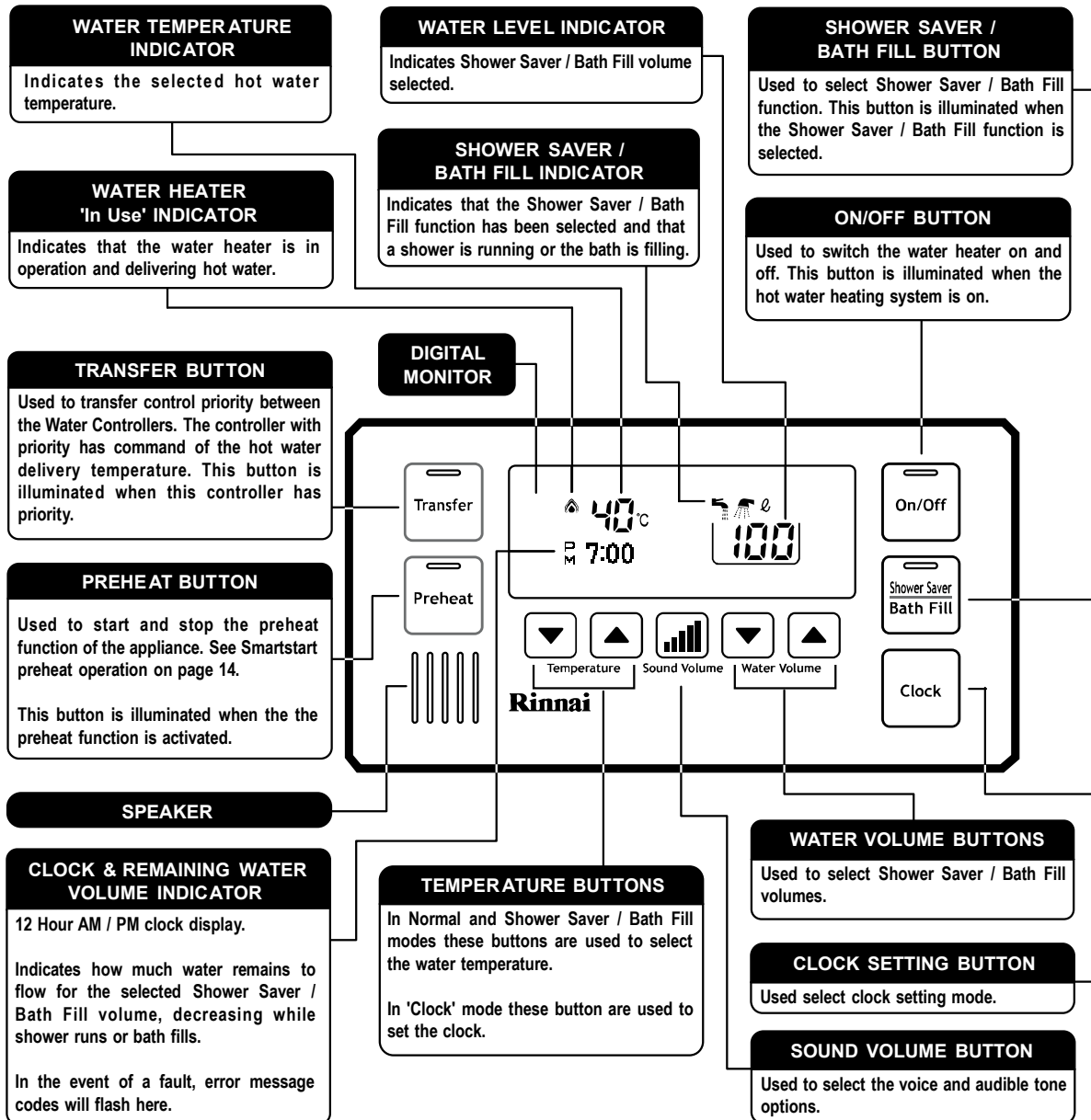


NOTE

Whilst hot water outlets are open the set temperature may be lowered. However it cannot then be raised above 43°C. In addition transfer of 'priority' between controllers is not possible. These are safety features.

DELUXE BATHROOM WATER CONTROLLER

ABOUT THE DELUXE BATHROOM WATER CONTROLLER (BC-100V)



Refer to page 5 to confirm the maximum number and combination of controllers that can be fitted to your Water Heater model.

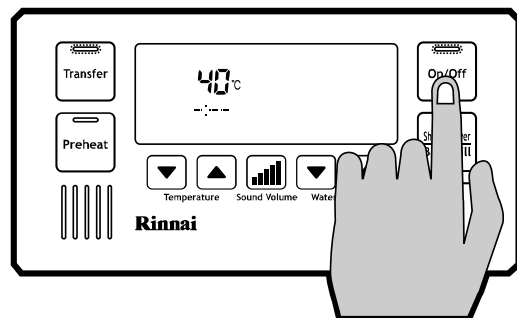
Avoid getting water directly in the speaker as this may cause damage.

TURNING ON THE CONTROLLER

If the controller is switched off (No digits other than the clock digits displayed in the digital monitor) press the On/Off button once.

The On/Off and Transfer buttons illuminate to indicate that the hot water unit will be ready to supply hot water once a hot water tap is opened.

If more than one controller is fitted press the 'Transfer' button to transfer priority to the desired controller.





DELUXE BATHROOM WATER CONTROLLER

SETTING THE SOUND OPTIONS

To set the sound options press the 'Sound Volume'  button and select the desired audible setting as follows:


Voice - HIGH, MED, LOW or Off, sets the voice prompt volume but does not affect the audible tones.



Sound - OFF, mutes all voice prompts and audible tones.


Press any of the  or  buttons to return to normal mode, if no buttons are pressed for a period of approximately 10 seconds the controller will return to normal mode.

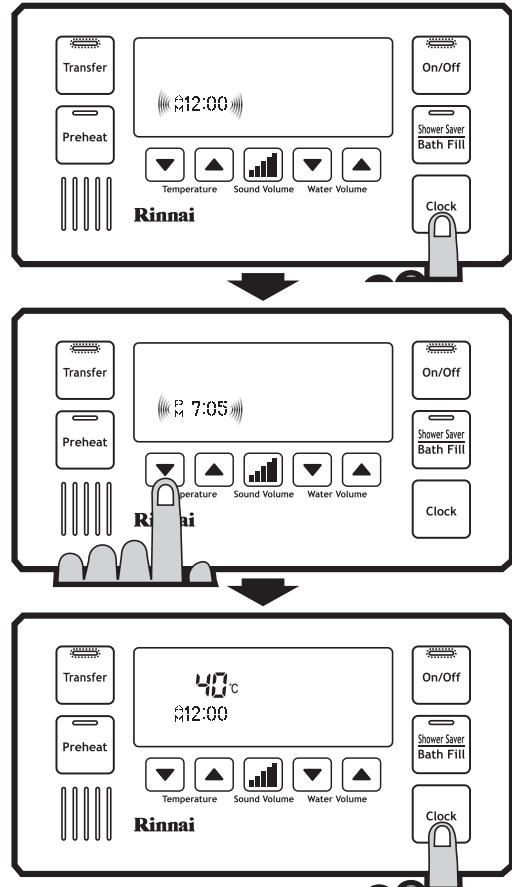
SETTING THE CLOCK

The clock is a 12 hour AM/PM style display.

To set the time press the 'Clock'  button once, this places the controller into clock setting mode, in the digital monitor the clock digits will flash, if this is the first time the clock has been set the starting time will be AM 12:00.

Use the 'Temperature'  or  buttons to select the desired time, holding these buttons down continuously cycles the digits. When you get close to the time you wish to set, press the button intermittently to avoid going further than the desired time.

To return to normal mode press the 'Clock'  button once, if no buttons are pressed for a period of approximately 60 seconds the controller will return to normal mode.




NOTE



The time is always displayed regardless of whether the water controller is turned ON or OFF.

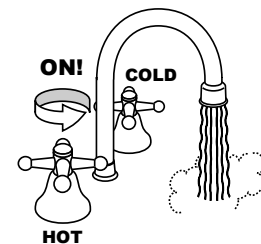
The clock may need resetting if power to the water heater unit is disrupted due to a power failure or if the power is switched off over a prolonged period.

ADJUSTING TEMPERATURE

Simply press the 'Temperature'  or  buttons until the required temperature is displayed on the digital monitor.

To operate the water heater, open any hot water tap. This will automatically light the burner, providing hot water. The 'In Use' indicator  will illuminate on the water controller.

Once the hot water is running, if the set temperature is either too hot or cold press the 'Temperature'  or  buttons until the desired temperature is reached.



CAUTION

CHECK WATER TEMPERATURE BEFORE USE.

A parent or carer should always check the temperature before a child is placed in contact with hot water, see page 1.



NOTE

Whilst hot water outlets are open the set temperature may be lowered. However it cannot then be raised above 43°C. In addition transfer of 'priority' between controllers is not possible. These are safety features.

DELUXE BATHROOM WATER CONTROLLER

OPERATING THE SHOWER SAVER / BATH FILL FUNCTION

The 'Shower Saver / Bath Fill' function allows a preset water volume and temperature to be selected and run automatically.





No voice prompts will be available if the 'Voice OFF' or 'Sound OFF' options are selected. With 'Sound OFF' there will also be no audible tones.



Initial Settings

When a deluxe bathroom controller is first turned on, the default shower / bath fill temperature is set to 40°C and the shower / bath volume is set to 100 litres. The shower / bath volume can be lowered to a minimum of 30 litres or raised to a maximum of 400 litres and the temperature adjusted as desired.



Setting Shower / Bath Temperature and Volume

With the system on, select a Deluxe Bathroom water controller and ensure that it currently has priority. If it does not have priority press the 'Transfer'  button once and the 'Transfer' button will illuminate.

Press 'Shower Saver / Bath Fill'  button once. The 'Shower Saver / Bath Fill' button will illuminate and a voice prompt and tone will sound.

To select the desired delivery temperature use the 'Temperature'  or  buttons.

The selected temperature will be displayed on the digital monitor and will remain as the default 'Shower Saver / Bath Fill' temperature until it is changed or if the mains power is turned off for an extended period.

To select the volume of water to be used in the shower / bath use the 'Water Volume'  or  buttons. The selected volume is displayed in large digits to the right and will remain as the default 'Water Volume' until it is changed or if the mains power is turned off for an extended period.


The selected volume is also repeated in the form of a remaining volume counter below the temperature and replaces the clock during 'Shower Saver / Bath Fill' operations.

When filling a bath for the first time, it is recommended that a low bath fill volume such as 60 litres or lower be used. During any subsequent bath fills the volume can then be adjusted to suit your known bath volume and or desired fill level.




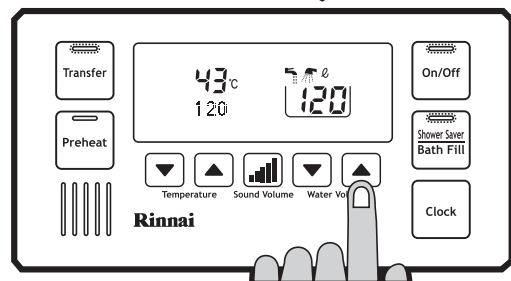
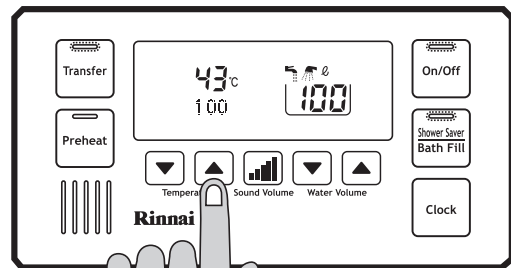
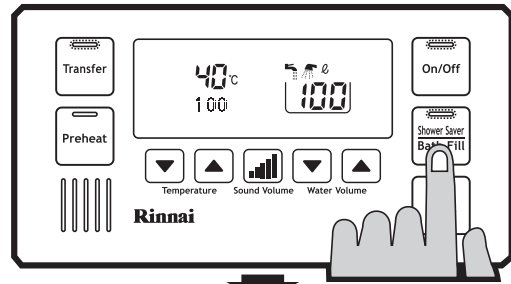
Be careful not to overfill the bath, an average bath volume is 160 litres. It is recommended that when filling a bath for the first time you should:

- Remain by the bath during the filling process.
- Use a low bath fill volume such as 60 litres or less.

When Smartstart preheat function (page 14) is in operation, the Shower Saver / Bath Fill function is unavailable while the water heater 'In Use' indicator  is illuminated. Do not press the Preheat button whilst Shower Saver / Bath Fill is in operation as the programmed bath fill volume will not be met.


Using Shower Saver / Bath Fill

Press 'Shower Saver / Bath Fill'  button once. The 'Shower Saver / Bath Fill' button will illuminate and a voice prompt and tone will sound. During 'Shower Saver / Bath Fill' operations the 'Bath' indicator will also be displayed in the Deluxe Kitchen water controller digital monitor (when fitted).




DELUXE BATHROOM WATER CONTROLLER

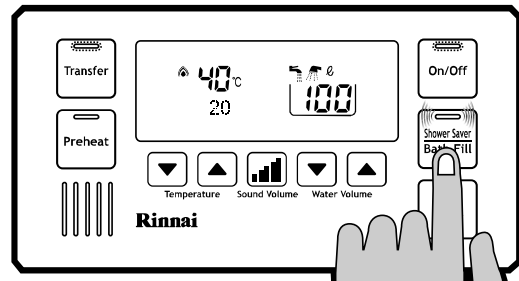
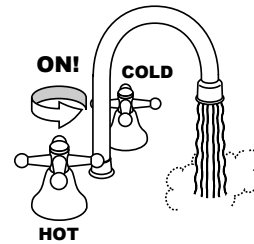
The voice prompt will say "The hot water system is ready. Open the hot water tap". Open the hot water tap for the relevant shower or bath.

The 'In Use' indicator  will illuminate on all Deluxe water controllers and the shower will run or the bath will start to fill.

To Stop Shower Saver / Bath Fill Operation

If you wish to stop the water flow whilst the Shower Saver / Bath Fill function is in operation, simply press the 'Shower Saver / Bath Fill'  button.

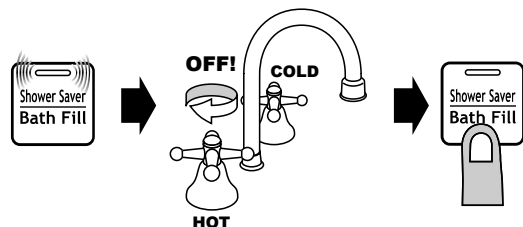
The 'Shower Saver / Bath Fill' button will flash and the voice prompt will say "Hot water is not available, Turn off all hot water taps and push the 'Bath Fill' button". Follow the voice prompt instructions.



When Shower Saver / Bath Fill Operations Finishes

Once the Shower Saver / Bath Fill operation finishes the following events will occur:

1. The flow from the shower / bath hot water tap ceases.
2. The 'Shower Saver / Bath Fill' button will flash.
3. The Deluxe Kitchen water controller 'Bath' indicator will flash.
4. A tone will sound.
5. The voice prompt will say "Bath fill is complete. Turn off the bath hot water tap and push the Bath Fill button."



Follow the voice prompts instructions. Note that the water heater will not allow hot water to flow from any fixture until the 'Shower Saver / Bath Fill'  button has been pressed.

6. The 'Shower Saver / Bath Fill' button light on the Deluxe Bathroom water controller and the 'Bath' indicator on the Deluxe Kitchen water controller monitor (when fitted) will go out.



CHECK WATER TEMPERATURE BEFORE USE.

A parent or carer should always check the temperature before a child is placed in contact with hot water, see page 1.


NEVER LEAVE YOUNG CHILDREN UNATTENDED IN THE BATH.

When using the 'Shower saver / Bath fill' function, ALWAYS close the hot water tap for the bath or shower after the flow has stopped.



Whilst hot water outlets are open the set temperature may be lowered. However it cannot then be raised above 43°C. In addition transfer of 'priority' between controllers is not possible. These are safety features.

USING MULTIPLE WATER CONTROLLERS

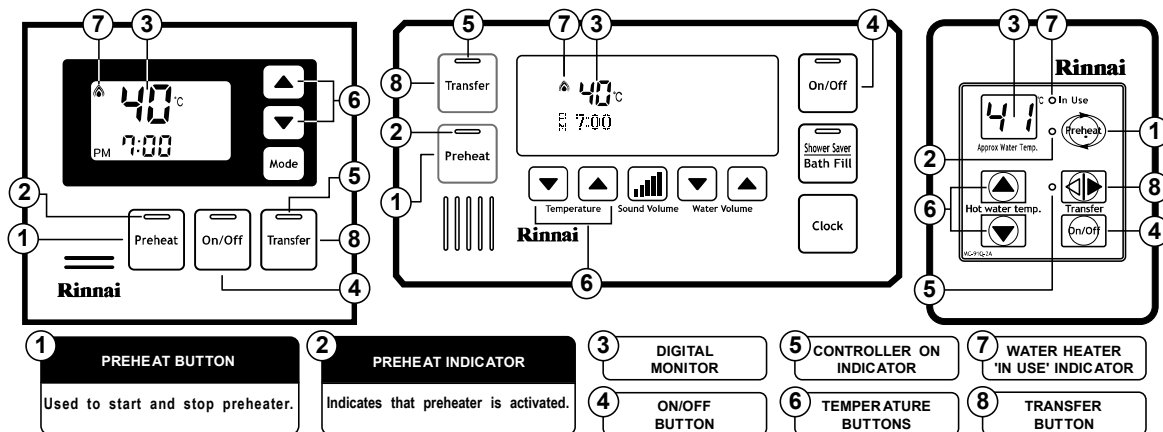
The water heater can be turned on and off at any water controller. If more than one water controller is fitted press the 'Transfer'  button to transfer priority to the desired controller.

COMBINING UNIVERSAL AND DELUXE WATER CONTROLLERS

Universal and Deluxe water controllers can be combined and will function as described in other sections of the Water Heater Operation / Installation Manual. Refer to page 5 to confirm the maximum number and combination of controllers that can be fitted to your water heater model.

SMARTSTART PREHEAT OPERATION

ABOUT THE SMARTSTART PREHEAT SYSTEM



Preheat Function

The Smartstart preheat system is fitted within this appliance. When the “Preheat” function is activated and used in accordance with these instructions, water in the pipework connected between the water heater and the hot water outlets in your house is warmed before any outlets are opened. This results in water savings and reduced waiting time for heated water at the outlets.

The “Preheat” function is activated as follows:

1. Ensure that the hot water unit is on (temperature digits are displayed in the digital monitor ③). If more than one controller is fitted press the ‘Transfer’ ⑧ button to pass on priority to your desired controller, the ‘Controller On’ ⑤ indicator will illuminate to confirm that priority has been assigned to this controller and that the hot water unit is ready to deliver hot water.
2. Select the desired temperature using the ‘Temperature’ ⑥ buttons until the required temperature is displayed in the digital monitor ③.
3. Press the ‘Preheat’ ① button once. The ‘Preheat’ ② indicator and the ‘In Use’ ⑦ indicators will illuminate, signifying that the preheat system has been activated.
4. Wait approximately two minutes before opening an outlet. This will allow the water in the pipework to be warmed.



NOTE

The waiting time may be longer or shorter than two minutes depending on your particular installation configuration.

The “Preheat” function is cancelled 5 minutes after activation and the ‘Preheat’ indicator will go out. This is to conserve energy. To reactivate, simply repeat steps 2-4 above.

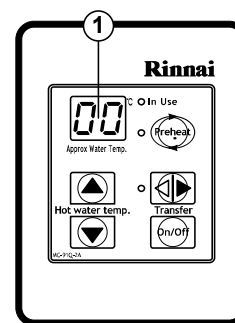
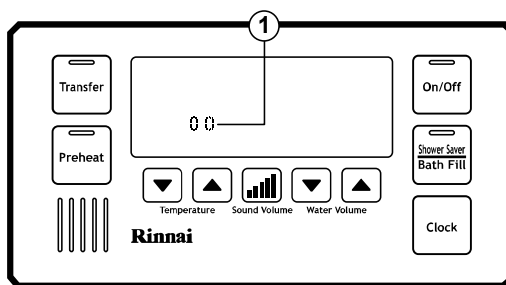
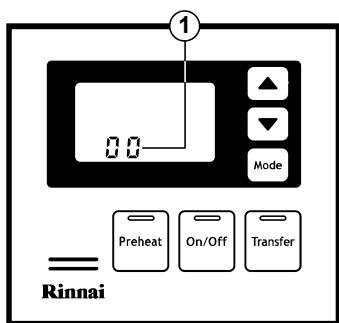
After using the Shower Saver / Bath Fill function wait 30 seconds before activating the “Preheat” function. Attempting to use the “Preheat” function earlier will result in voice prompts being repeated until the system is reset. The system can be reset by pressing the ‘On /Off’ button twice.

Other Controller Functions

Controller functions such as temperature control and transfer of priority between multiple controllers is not affected by the operation of the preheat. Such functions are described in the applicable sections of this manual.

TROUBLESHOOTING

Your Rinnai Continuous Flow water heaters has a self diagnostic capability. If a fault occurs, an Error Code will flash on the water controller display at the location shown ①.



This assists with diagnosing the fault, and may enable you to overcome a problem without a service call. Please quote the code displayed when enquiring about service.

ERROR	FAULT	REMEDY
-	Noticeable reduction in water flow.	Inlet water filter needs to be cleaned. Service call.
03	Power interruption during Bath fill (Water will not flow on power reinstatement).	Turn off all hot water taps. Press On/Off twice.
10	Air intake or flue blocked.	Service Call.
11	No ignition / No gas supply.	Check gas is turned on at water heater and gas meter or cylinder.
12	Flame Failure / Low gas flow.	Check gas is turned on at water heater and gas meter or cylinder. Check there are no obstructions to the flue outlet.
14	Remaining Flame Safety Device.	Service Call.
16	Over Temperature Warning.	Service Call.
32	Outgoing Water Temperature Sensor Faulty.	Service Call.
52	Gas Modulating Valve Faulty.	Service Call.
61	Combustion Fan Failure.	Service Call.
65	Water Flow Control Faulty (Does not stop flow properly).	Service Call.
71	Micro-processor Failure.	Service Call.
72	Micro-processor Failure.	Service Call.
LC	Scale build-up inside the heat exchanger.	Service Call.

In all cases, you may be able to clear the Error Code simply by turning the hot water tap OFF, then ON again. If this does not clear the Error Code, try pushing the On/Off button OFF, then ON again. If the Error Code still remains, contact Rinnai for advice.



NOTE

Faults caused by insufficient gas supply, insufficient water supply, gas quality, water quality, installation errors or operation errors are not covered by the Rinnai warranty. Refer to the warranty card for details.

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GENERAL INSTALLATION INSTRUCTIONS

REGULATIONS

This appliance must be installed in accordance with:

- Current AS/NZS 3000, AS/NZS 3500 and AS/NZS 5601
- Rinnai Installation Instructions
- Local regulations and municipal building codes including local OH&S requirements

Installation, Service and Removal MUST BE by an Authorised Person only.

ABOUT THIS APPLIANCE

This appliance combines both a Rinnai continuous flow gas water heater and a Rinnai Smartstart "Preheat" system.

When the Smartstart "Preheat" function is activated and used in accordance with these instructions, water in the pipework connected between the water heater and the hot water outlets in your house is warmed before any outlets are opened. This results in water savings and added convenience.

The preheat function of this appliance works as follows:

1. Before hot water is required, the user activates the preheat function by pressing "preheat" button on the temperature controller.
2. This switches on the integral pump.
3. Water flows from the pump and passes through the water heater. This in turn activates the water heater burner and water in the flow and return heating loop begins to heat.
4. When preheat control module senses that the water in the full length of the flow and return heating loop has been heated, the pump and water heater stop operating.
5. The user opens the desired hot water outlet. Preheated water will be delivered from the flow and return heating loop to the outlet.

This appliance requires the cold supply and heated pipework associated with conventional water heater. In addition, flow and return or heating loop pipework in the building is also required and requires connecting to this appliance.

APPLIANCE LOCATION

This appliance is designed for 'Outdoor' Installation only. As such, it must be located in an above ground open air situation with natural ventilation, without stagnant areas, where gas leakage and products of combustion are rapidly dispersed by wind and natural convection.

This appliance must be mounted on a vertical structure with the water and gas connections on the underside pointing downwards. For appliances installed on elevated structures or under floors specific requirements apply. Refer to AS/NZS 5601 Section 6 for details.

This appliance must not be used as a domestic spa or swimming pool heater.

Location of the appliance flue terminal must be in accordance with Section 6 and Figure 6.2 of AS/NZS 5601. Figure 6.2 is reproduced in the 'Horizontal Flue Terminal Clearances' section of these instructions. Note that AS/NZS 5601-2004 was current at the time of printing but may have been superseded. It is the installers' responsibility to ensure current requirements are met.



AS/NZS 5601-2004 was current at the time of printing but may have been superseded. It is the installer's responsibility to ensure current requirements are met.

The Appliance is NOT compatible with solar hotwater systems.

This appliance requires Heating Loop Flow and Return pipework. Any dead legs in heated water services shall be as short as practicable.

An AC240V, 10 Amp, earthed power point must be provided adjacent to the appliance. For outdoor installations this power point must be weather proof. It must be clear of the gas and water connections to the appliance and also the flue exhaust and water pressure relief valve. The power cord of the appliance is 1.5 Metres long.

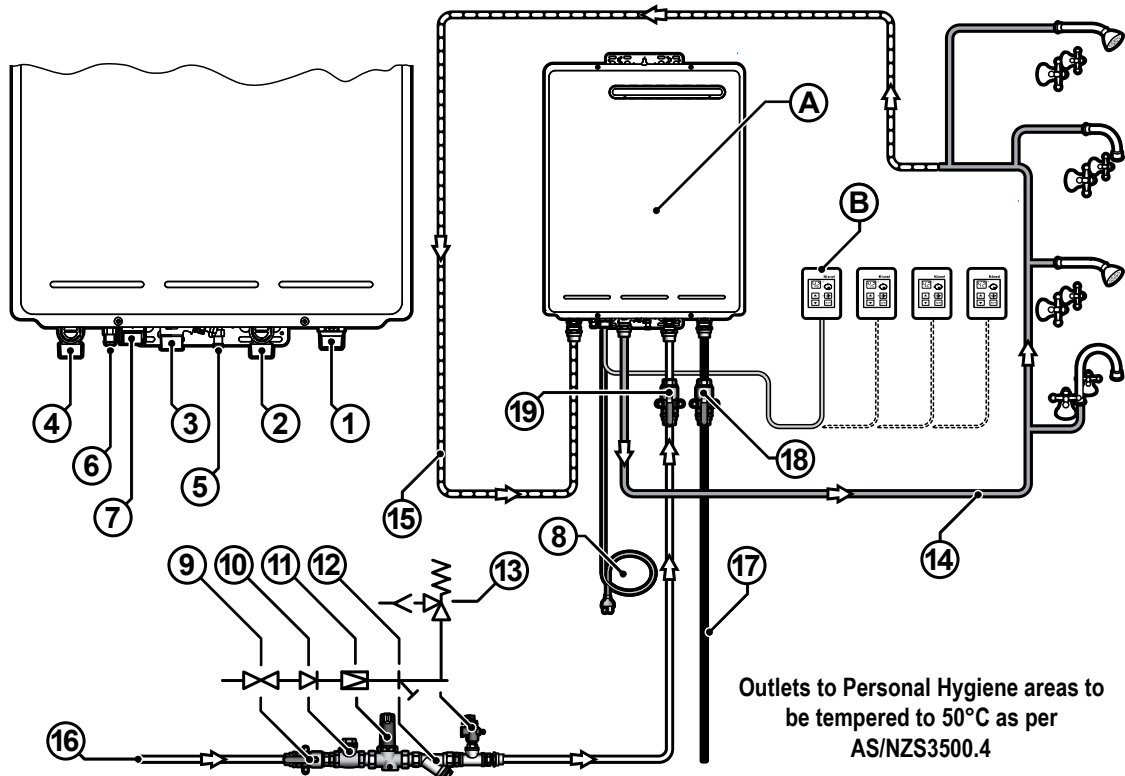
All appliances must be installed to ensure access can be gained without hazard or undue difficulty for inspection, repair, renewal or operational purposes. Sufficient clearances shall allow access to, and removal of, all serviceable components. Appliances should not be mounted higher than 2.5 metres

GENERAL INSTALLATION INSTRUCTIONS

above the ground or floor level unless the customer can arrange permanent and safe access or can provide another means of access, for example, by means of scissor or boom lifts acceptable to local authorities.

Consideration should be given to future access for servicing and replacement and to local occupational health and safety requirements.

GENERAL SYSTEM COMPONENTS



- A. Rinnai INFINITY 26 Smartstart
- B. Water Controller (**One water controller MUST BE fitted**)
- 1. Gas inlet connection R $\frac{3}{4}$ " (20mm)
- 2. Cold water inlet connection R $\frac{3}{4}$ " (20mm)
- 3. Hot water outlet connection R $\frac{3}{4}$ " (20mm)
- 4. Heating loop return connection R $\frac{3}{4}$ " (20mm)
- 5. Cold water inlet bleed valve
- 6. Pump bleed valve
- 7. Ezi-connect cable connection point
- 8. Three pin power lead 1.5m
- 9. Isolating valve
- 10. Non return valve
- 11. Pressure limiting valve (PLV) 500kPa (**Mandatory**) **OTHER RATINGS ARE UNSUITABLE!**
- 12. Line strainer (A RYE-Y strainer 7191-7196 series or equivalent is recommended)
- 13. Expansion Control Valve (ECV) 700kPa (**Mandatory**) **OTHER RATINGS ARE UNSUITABLE!**
Ensure the drain line is installed in accordance with the requirements of AS/NZ 3500)
- 14. Insulated heating loop 'FLOW' pipework R $\frac{3}{4}$ " (20mm)
- 15. Insulated heating loop 'RETURN' pipework R $\frac{3}{4}$ " (20mm)
Total length of items 14 and 15 not to exceed 60 metres
- 16. Cold water supply
- 17. Gas Supply
- 18. Gas supply Isolation valve
- 19. Cold water supply Isolation valve

GENERAL INSTALLATION INSTRUCTIONS

PIPE SIZING

See Table 1, page 22 for appliance gas consumption. If the gas pipe sizing is insufficient the customer will not get the full performance benefit. Gas pipe sizing must consider the gas input to this appliance as well as all the other gas appliances in the premises. The gas meter and regulator must be specified for this gas rate. An approved sizing chart such as the one in AS/NZS 5601 should be used.

Water pipe sizing and layout should be performed in accordance with AS/NZS3500. All hot water pipe-work should be insulated to optimise performance and energy efficiency.

This appliance requires Heating Loop Flow and Return pipework of 20mm (¾") copper or equivalent. Total combined length of the flow and return pipework should not exceed 60 metres. Any dead legs in heated water services shall be as short as practicable.

WATER SUPPLY

See Table 1, page 22 for applicable water pressures. Approved pressure limiting valves may be required if the 'Maximum' rated water supply pressures in Table 1 are exceeded. To achieve the rated flow, the 'Minimum' water supply pressures in Table 1 must be supplied. The water heaters will operate at lower pressures but will not achieve the rated flow. Contact Rinnai for 'gravity fed' or 'low pressure' installations.

Water chemistry and impurity limits are detailed under 'Warranty Conditions'. Most metropolitan water supplies fall within the requirements. If you are unsure about your local water quality, contact your water authority. If sludge or foreign matter is present in the water supply, a suitable filter or strainer should be incorporated in the water supply to the water heater.

HOT WATER DELIVERY TEMPERATURE

Local regulations and / or the requirements of AS/NZS 3500.4 must be considered regarding the temperature limitations of hot water supplied to areas used primarily for personal hygiene. The temperature of water to these areas may be limited to 50° C or less. To ensure these regulations and or requirements are met the system MUST be installed in accordance with the 'Water Heater and Controller Installation Configurations' Section of these instructions.

WATER HEATER AND CONTROLLER INSTALLATION CONFIGURATIONS

If the appliance is marked to state that it delivers water not exceeding 50°C, local regulations may permit its installation without a Temperature Limiting Device. Installations without a Temperature Limiting Device are shown in Diagram 1. If you are unsure about your local regulations contact your regulating authority or Rinnai.

If the appliance is **NOT** marked to state that it delivers water not exceeding 50°C, or your local regulations require installation with a Temperature Limiting Device then install the appliance in accordance with Diagram 2.



If the appliance is to deliver water primarily for the purposes of personal hygiene in an early childhood centre, primary or secondary school, nursing home or a similar facility for the care of young, aged, sick or disabled persons as defined in AS/NZ3500.4 a Temperature Limiting Device (TLD), such as a Tempering Valve may be required even if the appliance is set to 50° C or less. For these types of applications contact Rinnai.

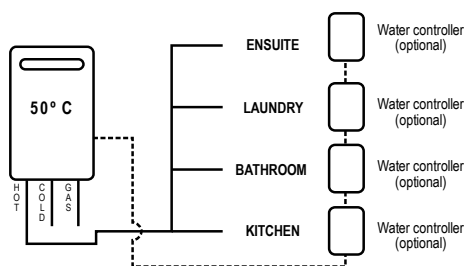


Diagram 1 - 50°C Appliance

Minimum length of pipe from hot outlet to nearest hot water tap 2 metres.

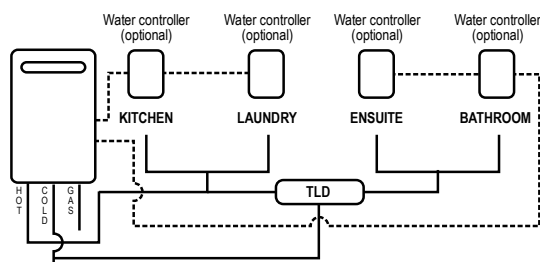


Diagram 2 - Not a 50°C Appliance

Note: TLD = Temperature Limiting Device

GENERAL INSTALLATION INSTRUCTIONS

MOUNTING THE APPLIANCE

See Table 1, page 22 for appliance weight. The wall or structure on which the units are to be mounted must be capable of supporting these weights and the associated pipe-work.

Ensure that suitable fixing screws or bolts are used to secure the units to the wall, in accordance with AS/NZS 5601 section 5. Wooden plugs shall not be used.

The top bracket has a keyhole slot so that the appliance can be positioned by hanging it on one screw, then the other screws can be secured.

The appliance can be mounted directly against the wall or structure. There is no need to use non combustible sheeting or leave an air gap between the appliance back panel and the wall or structure for the purposes of meeting the temperature hazard requirements of AS/NZS 5601.

SERVICE CONNECTION POINTS

See Table 1, page 22 for connection / fitting dimensions. Note that these dimensions are NOT an indication of the pipe sizes required.

An Approved full flow isolation valve and disconnection union **MUST** be fitted to the cold water inlet.

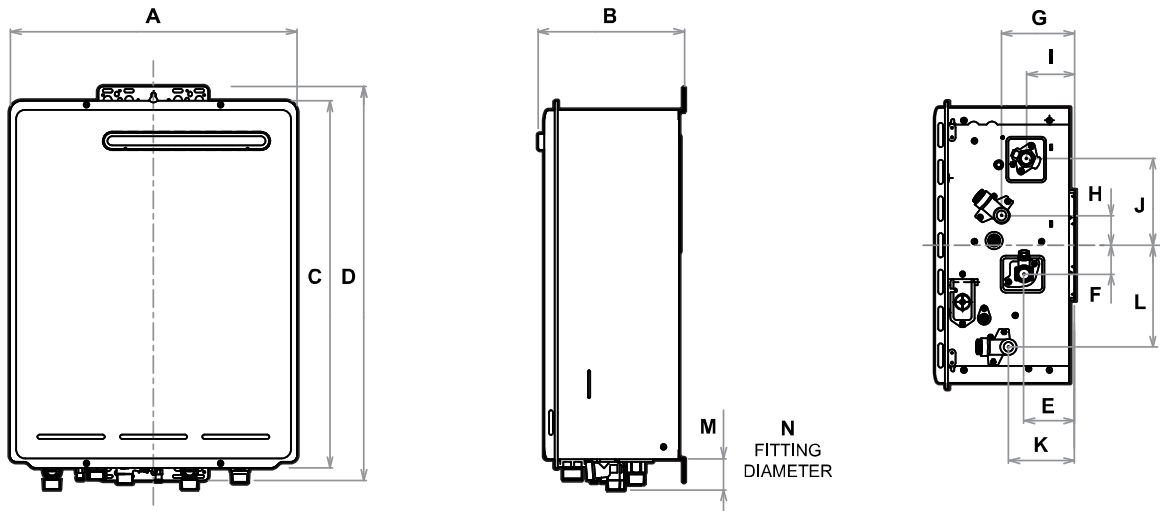
Isolation Valves must not be fitted directly to the appliance.

It may be necessary to fit a temperature limiting device for delivery to areas used primarily for the purposes of personal hygiene. Refer to the 'Water Heater and Controllers Installation Configurations' section of this document.

Purge gas and cold water supply lines to remove air and swarf before final connection of the appliance. Swarf in either the gas or water supplies may cause damage.

GENERAL INSTALLATION INSTRUCTIONS

DIMENSIONS AND SPECIFICATIONS



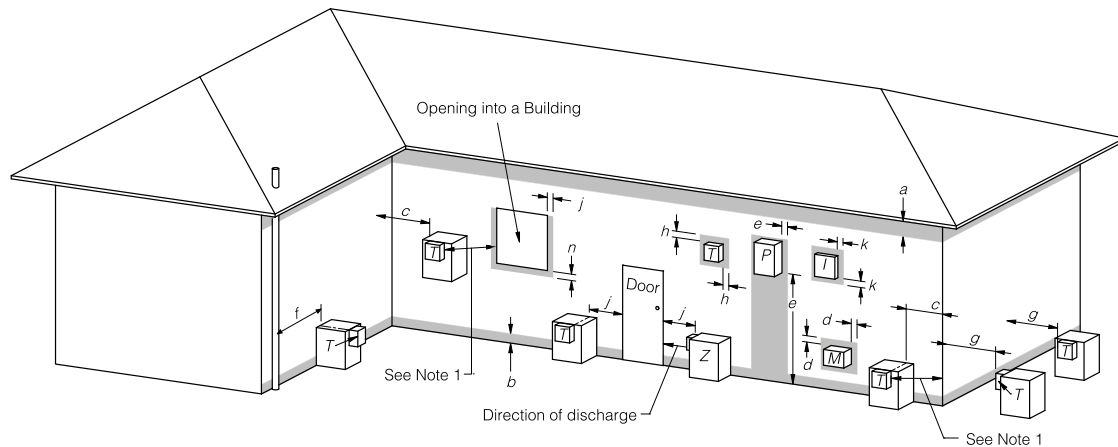
Dim'	DESCRIPTION	REU-VR26WGP	GAS CONSUMPTION (MJ/h)	WATER SUPPLY (kPa)		WEIGHT (kg)
				Min	Max	
A	Width	470	199	100	500	26
B	Depth	239				
C	Height - Unit	600				
D	Height - Including Brackets	644				
E	Hot Water outlet (from wall)	83				
F	Hot Water outlet (from centre)	47				
G	Cold Water inlet (from wall)	119				
H	Cold Water inlet (from centre)	49				
I	Gas Connection (from wall)	79				
J	Gas Connection (from centre)	142				
K	Return Loop Connection (from wall)	108				
L	Return Loop Connection (from centre)	166				
M	Gas Connection Length (from base)	40				
	Cold Connection Length (from base)	50				
	Hot Connection Length (from base)	42				
	Return Loop Connection Length (from base)	50				
N	Gas: Fitting Diameter	20 (R $\frac{3}{4}$)				
	Cold: Fitting Diameter	20 (R $\frac{3}{4}$)				
	Hot: Fitting Diameter	20 (R $\frac{3}{4}$)				
	Return Loop: Fitting Diameter	20 (R $\frac{3}{4}$)				

Dim'	DESCRIPTION	MC-91	MC-100V	BC-100V
O	Width	90	128	202
P	Height	120	120	104
Q	Depth	20	20	22
R	Distance between mounting hole centres	83	83	181

Table 1.

GENERAL INSTALLATION INSTRUCTIONS

HORIZONTAL FLUE TERMINAL CLEARANCES (Extract from AS/NZS 5601)



T = Flue terminal Z = Fan assisted flue appliance only M = Gas meter P = Electricity meter or fuse box I = Mechanical air inlet

■ Shading indicates prohibited areas for flue terminals

Ref.	Item	Min. clearances (mm)	
		Natural draft	Fan assisted
	Below eaves, balconies and other projections:		
a	• Appliances up to 50 MJ/h input	300	200
	• Appliances over 50 MJ/h input	500	300
b	From the ground, above a balcony or other surface *	300	300
c	Front a return wall or external corner *	500	300
d	From a gas meter (M) (see 5.11.5.9 for vent terminal location of regulator) (see Table 6.6 for New Zealand requirements)	1000	1000
e	From an electricity meter or fuse box (P) †	500	500
f	From a drain pipe or soil pipe	150	75
g	Horizontally from any building structure* = or obstruction facing a terminal	500	500
h	From any other flue terminal, cowl, or combustion air intake †	500	300
	Horizontally from an openable window, door, non-mechanical air inlet, or any other opening into a building with the exception of sub-floor ventilation:		
	• Appliances up to 150 MJ/h input *	500	300
j	• Appliances over 150 MJ/h input up to 200 MJ/h input *	1500	300
	• Appliances over 200 MJ/h input up to 250 MJ/h input *	1500	500
	• Appliances over 250 MJ/h input *	1500	1500
	• All fan-assisted flue appliances, in the direction of discharge	-	1500
k	From a mechanical air inlet, including a spa blower	1500	1000
	Vertically below an openable window, non-mechanical air inlet, or any other opening into a building with the exception of sub-floor ventilation:		
n	• Space heaters up to 50 MJ/hr input	150	150
	• Other appliances up to 50 MJ/hr input	500	500
	• Appliances over 50 MJ/h input and up to 150 MJ/h input	1000	1000
	• Appliances over 150 MJ/h input	1500	1500

* - unless appliance is certified for closer installation

† - Prohibited area below electricity meter or fuse box extends to ground level.

NOTES:

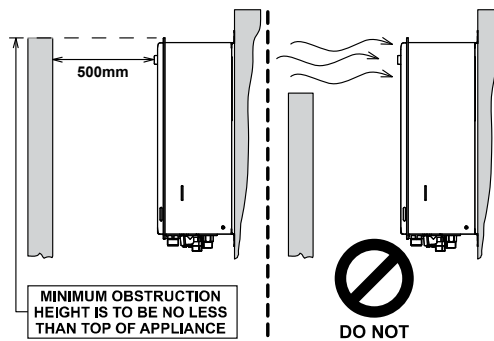
- Where dimensions c, j or k cannot be achieved an equivalent horizontal distance measured diagonally from the nearest discharge point of the terminal to the opening may be deemed by the Technical Regulator to comply.
- See Clause 6.9.4 for restrictions on a flue terminal under a covered area.
- See Figure J3 for clearances required from a flue terminal to an LP Gas cylinder. A flue terminal is considered to be a source of ignition.
- For appliances not addressed above acceptance should be obtained from the Technical Regulator.

FIGURE 6.2 (in-part) MINIMUM CLEARANCES REQUIRED FOR BALANCED FLUE TERMINALS, FAN-ASSISTED FLUE TERMINALS, ROOM-SEALED APPLIANCE TERMINALS AND OPENINGS OF OUTDOOR APPLIANCES

GENERAL INSTALLATION INSTRUCTIONS

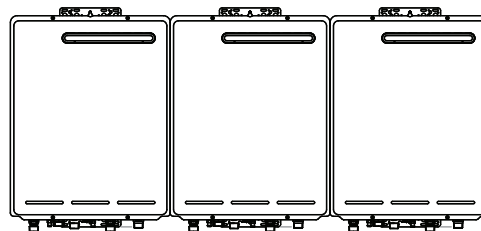
HORIZONTAL OBSTRUCTIONS

AS/NZS 5601-2004 'Gas Installations' stipulates a minimum horizontal clearance of 500mm between a building structure and obstruction facing the terminal. For Rinnai external continuous flow water heaters such a building structure must 'obstruct' the full front cover height of the appliance, or extend vertically above and below the front cover. There must be no partial obstructions to the front cover of the appliance or any other parts of the appliance casing. This will avoid the appliance failing to operate under windy conditions.



MULTIPLE INSTALLATIONS

Dimension 'h' above does not apply when multiple Rinnai external water heaters of the same model are installed on the same vertical face with flue terminals at the same height. Under these conditions appliances can abut each other as shown. The total gas consumption of all appliances applies when determining other clearances.



WATER CONTROLLER INSTALLATION

RINNAI WATER CONTROLLERS



For activation of the Smartstart preheat function and for precise temperature control at least one water controller **MUST BE** fitted to this appliance.

Universal and Deluxe water controllers can be used together and will function as described in the Operation section of this manual. Please refer to page 5 to confirm the maximum number and combination of water controllers that can be fitted.



Other manufacturers water controllers are NOT compatible with Rinnai water heaters. Rinnai water controllers brought in from other countries are not compatible with Rinnai appliances sold in Australia.

POSITIONING OF WATER CONTROLLERS

Water controllers must be installed in shaded and clean locations. They should be fitted out of reach of children (suggested height from floor to be at least 1500 mm). BC-100V remote controllers are water resistant, however, durability is improved when positioned outside the shower recess. All deluxe remote controllers must be installed at least 400 mm above the highest part of a sink, basin or bath.

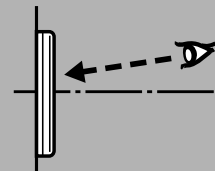


- Do not install remote controllers near a heat source, such as a cook top, stove or oven. Heat, steam, smoke and hot oil may cause damage.
- Do not install remote controllers in direct sunlight.
- The MC-100V remote controller **MUST NOT** be installed in a bathroom.
- Do not install remote controllers outdoors unless protection from dust ingress and sunlight are provided.
- Do not install remote controllers against a metal wall unless the wall is earthed in accordance with AS/NZS3000.
- Water controllers **MUST NOT** be installed where chemicals such as benzene, alcohol, turpentine or other similar chemicals are in use.

POSITIONING CONSIDERATIONS FOR THE MC-100V WATER CONTROLLER.

The MC-100V uses a Liquid Crystal Display (LCD) for the digital monitor. Light reflections can make the LCD difficult to see at direct eye level.

For best results when installing the MC-100V mount the remote controller lower than your eye-level to avoid these light reflections.



WATER CONTROLLER CABLES

Water controllers operate at extra low voltage (12 Volts DC) which is supplied from the water heater. Each Water controller comes supplied with 15 m of electrical cable. The appliance end of the cables are fitted with spade terminals. Extension cabling is available from Rinnai.



Alternatively two core sheathed (double insulated) flex with minimum cross-sectional area of 0.5 mm² may be used. Maximum individual cable runs should not exceed 50 m.

FITTING THE 'UNIVERSAL' WATER CONTROL (MC-91Q)

1. Determine the most suitable position for the water controller.
2. Mark and drill 3 holes, locating the cable access as shown in Fig. 1.
3. When running cable through the access hole ensure the connector end of the cable is located nearest to the controller (Fig.2).
4. Carefully remove face plate from the water controller, using a screw driver (Fig. 3).
5. Connect the cable to the water controller. Feed any excess cable lengths into the wall cavity to avoid the pinching of cables between the wall and the controller.

WATER CONTROLLER INSTALLATION

6. Fix the water controller to the wall using the appropriate fixings as shown in Fig. 4.
7. Remove protective film from the water controller face as shown in Fig. 4 and replace face plate.

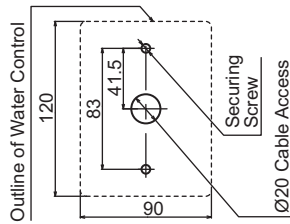


Fig. 1

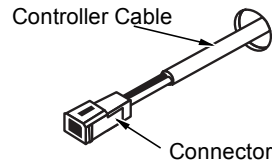


Fig. 2

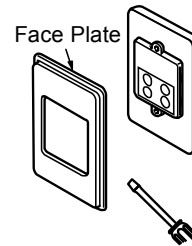


Fig. 3

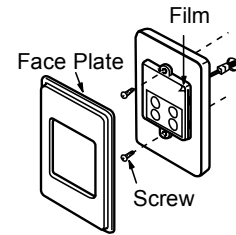


Fig. 4

OPTIONAL PROGRAMMING FOR THE 'UNIVERSAL' WATER CONTROLLER (MC-91Q)



1 Are there four water controllers connected ?

IF NO: (You have three water controllers or fewer), go to Question 2.

IF YES: You will need to activate the fourth water controller as follows:

STEP 1: For the water controller in the KITCHEN ONLY, press and hold the 'Transfer' and 'On/Off' buttons simultaneously (see Fig. 5) until a 'beep' is heard (approximately 5 seconds).

STEP 2: Check that the display on ALL FOUR water controllers is lit and displaying a temperature when 'switched on'. If any ONE of the controller displays two dashes (see Fig. 6) repeat STEP 1.

This completes the activation procedure for the fourth controller, you may ignore Question 2.

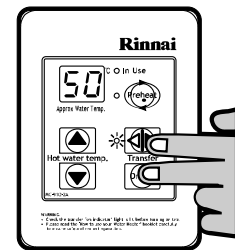


Fig. 5



Fig. 6



2 Is the water heater marked to state it delivers water not exceeding 50°C ?

IF YES: No further action required.

IF NO: You will need to program the kitchen controller to enable selection of temperatures higher than 50°C.

STEP 1: For the controller in the KITCHEN ONLY, press and hold the 'Transfer' and 'On/Off' buttons simultaneously (Fig. 7) until a 'beep' is heard (approximately 5 seconds).

STEP 2: When the controller fitted in the KITCHEN is switched On, it should be possible to select temperatures higher than 50°C. If not, repeat STEP 1.

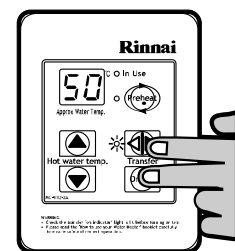


Fig. 7



If the water controller in the kitchen is replaced, repeat STEP 1 above for the replacement controller.

If the water controller in the kitchen is swapped with another controller (for example, the controller fitted in a bathroom), repeat STEP 1 for the controller moved from the kitchen to the bathroom. Then perform STEP 1 for the controller moved from bathroom to the kitchen.

WATER CONTROLLER INSTALLATION

FITTING THE 'DELUXE KITCHEN' WATER CONTROLLER (MC-100V)

1. Determine the most suitable position for the water controller (see notes page 25).
2. Use the wall mounting bracket as a template to mark and drill 3 holes, locating the cable access as shown in Fig. 1.
3. Fix the mounting bracket to the wall using the appropriate fixings.
4. Run the cable through the hole in the wall.
5. Carefully remove face plate from the water controller, using a screw driver (Fig. 2).

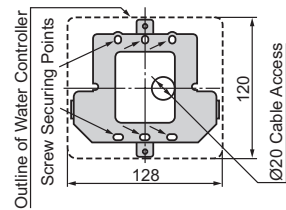


Fig.1

6. Connect the cable to the water controller as shown in Fig 3. At this point cables from other controllers (if fitted) may also be connected to the screw terminals of the Kitchen water controller (Fig. 4) eliminating the need for multiple cable runs directly to the water heater. Water controllers are not polarity sensitive. Feed any excess cable lengths into the wall cavity to avoid the pinching of cables between the wall and the controller.
7. Fasten the controller to the wall mounting bracket as shown in Fig. 5. Avoid the over-tightening of fixings as this may cause damage. Once secured replace the face plate.

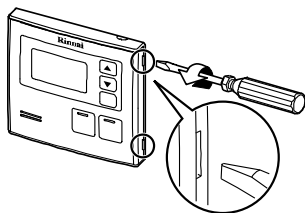


Fig. 2

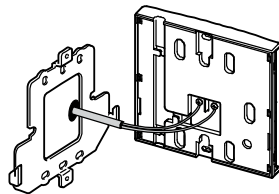


Fig. 3

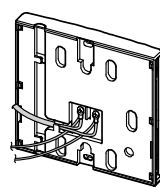


Fig. 4

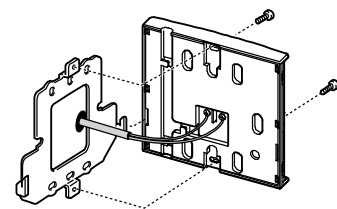


Fig. 5

FITTING THE 'DELUXE BATHROOM' WATER CONTROLLER (BC-100V)

1. Determine the most suitable position for the water controller (see notes page 25).
2. Mark and drill 3 holes, locating the cable access as shown in Fig. 1.
3. When running a cable through the access hole ensure the connector end of the cable is located nearest to the controller (Fig. 2).
4. Affix the double sided self-adhesive seal to the back of the water controller (Fig. 3).
5. Carefully remove the face plate from the water controller, do this by placing your thumbs on the front of the digital display and while hooking your fingers behind top of plate and gently push as shown in Fig. 4, DO NOT use a screwdriver as this may damage the controller.
6. Connect the cable to the water controller. Feed any excess cable lengths into the wall cavity to avoid the pinching of cables between the wall and the controller.
7. Fix the controller to the wall using the appropriate fixings as shown in Fig. 5, avoid over-tightening of fixings as this may cause damage. Once secured replace the face plate.

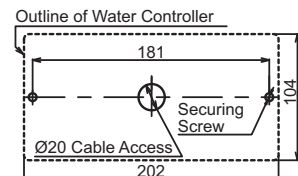


Fig. 1

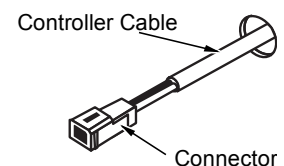


Fig. 2

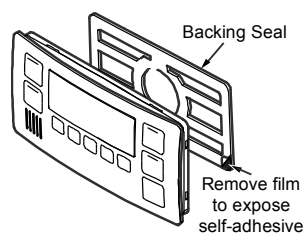


Fig. 3

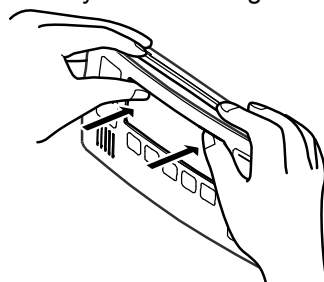


Fig. 4

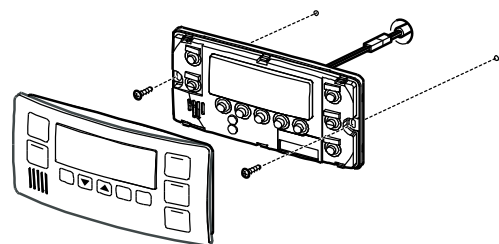


Fig. 5

WATER CONTROLLER INSTALLATION

CONNECTING COMMUNICATION CABLES TO THE WATER HEATER

Communication cables connect the water heater to water controllers and operate at an extra low voltage (12 Volts DC) which is supplied from the water heater. Communication cables are supplied with the water controllers (15m) and are fitted with spade terminals for connection to water heater. Up to two cables can be connected directly to the 'Ezi connect' cable connector at the water heater. Extension cables are available from Rinnai. Alternatively, two core sheathed (double insulated) flex with minimum cross sectional area of 0.5mm² may be used. Cable lengths must not exceed 20 metres.

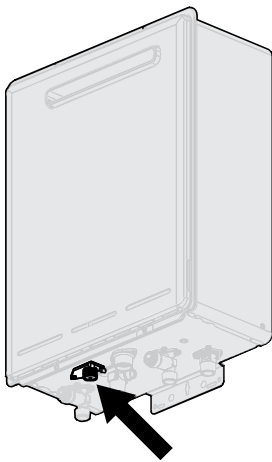


DO NOT attempt to connect cables to the 'Ezi connect' cable connector at the water heater unless the electric power to the water heater is switched 'off' otherwise damage to electrical components may occur.

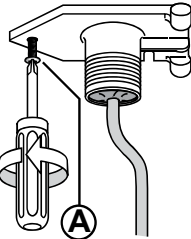
To connect up to two cables to the 'Ezi connect' cable connector

1. Isolate the electric power supply by switching the power point off and removing the power plug of the water heater from the electric power socket.
2. Remove the retaining screw (A) of the 'Ezi connect' cable connector at the base of the appliance.
3. Swing the 'Ezi connect' cable connector door open and thread the cable through the weather seal of the cable access hole (B) in the direction shown.
4. Secure the sheath of the cable with the supplied cable clamp (C). Loosen screw terminals (D) and (E) and connect the cable spade connectors to these terminals and re-tighten. Polarity is not important, either wire colour can be connected to either terminal.
5. Return the 'Ezi connect' cable connector to the original position taking care not to damage cable wires in the process and replace the retaining screw (A).

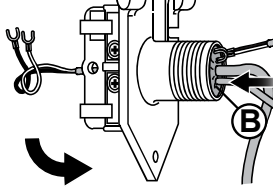
1.



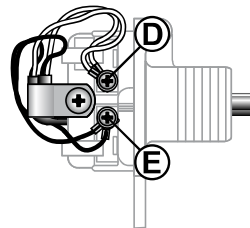
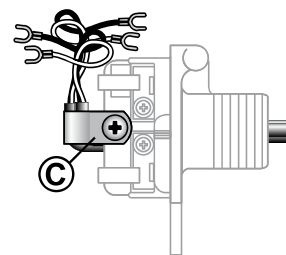
2.



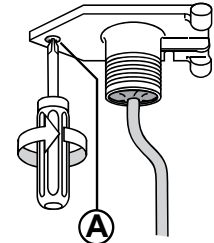
3.



4.



5.



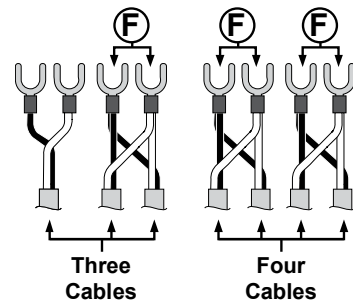
'Ezi connect' cable connector

Connecting Three or Four Controllers

Repeat steps 1, 2 and 3 above.

To connect three or four cables, separate all the cables to be fitted into pairs. Cut off the existing spade connectors from each pair and re-terminate each pair into a new spade connector (available from your local electrical component retailer) (F) so that there are only two sets of spade connectors (4 spade connectors in total) to be terminated.

Repeat steps 4 and 5 above.



COMMISSIONING

TESTING WATER HEATER OPERATION

1. Before final connection of the water heater purge gas, hot water, cold water and heating loop lines. Swarf in either the gas or water supplies may cause damage.
2. Turn on gas and cold water supplies.
3. Test for water leaks and gas escapes near the unit.
4. Isolate gas supply. Remove test point screw located on the gas inlet connection and attach pressure gauge.
5. Turn the power 'on' at the power point socket and turn on gas.
6. Ensure that the water controller(s) have been connected and are turned 'ON' and select the maximum available delivery temperature and open ALL available hot water outlets.



Ensure building occupants do not have access to hot water outlets during this procedure. DO NOT press the preheat button during this procedure.

7. Operate ALL other gas appliances at their maximum gas rate, in accordance with manufacturers instructions.
8. With all gas appliances in operation at maximum gas rate, the pressure should read between 1.13 - 3.0 kPa on Natural Gas. On LPG the pressure should be 2.75 - 3.0 kPa. If the pressure is lower, the gas supply is inadequate and the appliance will not operate to specification. It is the Installers responsibility to check the gas meter, service regulator and pipe work for correct operation/sizing and rectify as required. Note that the gas regulator on the appliance is electronically controlled and factory pre-set. Under normal circumstances it DOES NOT need adjustment during installation.
9. Close hot water outlets.
10. Inspect and clean the filter located on the cold water inlet connection. This procedure may need to be repeated to ensure the filter remains clear, especially on new installations.
11. Confirm correct water controller operation through the complete range of functions except for the preheat function (refer to the Operation sections of this manual).
12. Confirm hot water delivery temperature(s) using a thermometer. Ensure that temperatures exceeding 50° C cannot be selected on controllers that are fitted to the bathrooms or ensuites. Refer "Delivery Temperature" page 30 for more details.

TESTING SMARTSTART (PREHEAT) SYSTEM OPERATIONS

1. Turn the power 'off' at the power point socket.
2. Open all available hot water outlets again until water from all outlets is cold. Then close all hot water outlets.



Ensure building occupants do not have access to hot water outlets during this procedure.

3. Open the cold water inlet bleed valve and the pump bleed valve (See "GENERAL SYSTEM COMPONENTS" on page 19, items 5 and 6) until all air pockets are released and a steady stream of water is discharged.
4. Turn the power 'on' at the power point socket.
5. Turn a water controller 'ON' and select the maximum delivery temperature.



Ensure building occupants do not have access to hot water outlets during this procedure.

COMMISSIONING

6. Press the 'preheat' button on the water controller. The 'preheat' indicator next to the preheat button will glow indicating that the preheat system has been activated. A short time after the 'preheat' button is pressed, the water heater should turn on.
7. Wait two minutes. This will allow the water in the pipework to be warmed.
8. Open the warm water outlet furthest away from the water heater. The water should go warm in a matter of seconds.



The waiting time for heated water delivery will vary depending on the size and layout of the branch line.

9. Confirm that preheat operation has ceased the 'preheat' indicator next to the preheat button will glow will have extinguished (preheat function is cancelled 5 minutes after activation). Then inspect and clean the strainer located on the heating loop return connection. This procedure may need to be repeated to ensure the strainer remains clear, especially on new installations.
10. The preheat function is cancelled 5 minutes after activation and the 'preheat' indicator will go out. This is to conserve energy. To reactivate, simply repeat steps 6 - 8 above.



After testing is completed, explain to the householder the functions and operation of the water heater and temperature controllers (if fitted). Ensure the "PRODUCT RECORDS" on page 31 of this manual is filled in and that the booklet is handed to the customer. Reminding the customer to complete the Warranty Card and forward to Rinnai.

DELIVERY TEMPERATURE

For appliances with the label "Compliant to 50°C" on the front cover

"50°C Compliant" appliances are 'factory set' to deliver a maximum temperature not exceeding 50°C. However, they have an incremental adjustment mechanism that allows the installer to increase the appliance delivery temperature incrementally from the 'Factory Set' value to temperatures exceeding 50°C. This is intended to enable compensation for temperature losses in the pipework between the water heater and any outlets and achieve the required temperature at the outlet. Instructions for incremental temperature adjustment are located in the instruction pocket inside the appliance front cover.

For all other models

Rinnai continuous flow water heaters are factory pre-set to various maximum delivery temperatures depending on model and their intended application. For the majority of applications, the factory pre-set temperature is appropriate. In the unlikely event it is not this setting can be increased or decreased by the installer. Instructions for changing the maximum delivery temperature are located in the instruction pocket inside the appliance front cover.

GAS PRESSURE SETTING

The regulator is electronically controlled and factory pre-set. Under normal circumstances it does not require adjustment during installation.

Make adjustments only if the unit is not operating correctly and all other possible causes for incorrect operation have been eliminated.

Instructions for Gas Pressure Setting are to be found in the instruction pocket located inside the appliance front cover.

COMMISSIONING CHECK LIST

A commissioning check list is provided on the appliance front cover to enable the installer to step through the correct commissioning procedure when installing a Rinnai Continuous Flow water heater.

The check list can also assist the installer to identify potential installation errors that may prevent the appliance from operating correctly.

ACCESSORIES

Recess Box:

These allow the appliance to be recessed into the cavity of the wall saving precious space. Suitable for painting.

Pipe Cover:

These hide the plumbing pipework and valves underneath the appliance. Two pipe covers can be joined together for longer pipework.

Security Cage:

Protect the gas booster unit from theft and damage.

Security Bracket:

Prevent theft of the gas booster by securing it with the custom security bracket.

Sideways Flue Diverter

Designed to redirect flue products when the gas booster is installed on a balcony.

Contact Rinnai for further information about our accessory range and model suitability details.

PRODUCT RECORDS

Please take a moment to record the following information below for your own records.

Model No : REU-VR2626WGP-AK Serial No : _____
Your Retailer : _____
Address : _____
Contact Number: () _____
Purchase Date : / / _____
Your Installer : _____
Address : _____
Installers License No. : _____
Contact Number : () _____
Installation Date : / / _____
Certificate of Compliance No. : _____

Rinnai

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Rinnai has a Service and Spare Parts network with personnel who are fully trained and equipped to give the best service on your Rinnai appliance. If your appliance requires service, please call our Hot Water Service Line. Rinnai recommends that this appliance be serviced every 3 years.

Internet: www.rinnai.com.au E-mail: enquiry@rinnai.com.au

National Help Lines

Sales & Service

Tel: 1300 555 545* Fax: 1300 555 655*

Spare Parts & Technical Info

Tel: 1300 366 388* Fax: 1300 300 141*

**Cost of a local call Higher from mobile or public phones.*

Hot Water Service Line

Tel: 1800 000 340

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