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Rinnai infinity 20 installation manual

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To Suit Water Heater Models -INFINITY 32REU-VRM3237WGINFINITY 26 REU- VRM2626WGINFINITY 26i REU-VRM2632FFUGINFINITY 20 REU-VRM2024WGINFINITY 16 REU-VRM1620WGINFINITY ENVIRO 32 REU-KM3237WDINFINITY ENVIRO 26 REU-KM2635WDB16 REU-VR1620WBB20 REU-VR2024WBB26 REU-VR2626WBHD250e REU-VRM3237WCHD200e REU-VRM2632WCHD200i REU-VRM2632FFUCHDC211e REU-KM3237WDCHDC211i REU-KM3237FFUDC• Manufacturer's Installation Instructions• Current AS/NZS 3000, AS/NZS 3500 & AS/NZS 5601 • Local Regulations and Municipal Building Codes including local OH&S requirementsThis 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.This Appliance complieswith AS 3498:2009SAI GLOBAL LIC. W208 Page 2Page 3 Rinnai 9 Operation ManualHOW TO USE TWO OR MORE UNIVERSAL WATER CONTROLLERSTURNING ON THE WATER CONTROLLERSIf the controllers are switched off (No digits displayed in the digitalmonitor 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 wateronce a hot water tap is opened.TRANSFERRING PRIORITY An illuminated On/OFF indicator confirms that the desired controlleris in control of the water delivery temperature, if the On/OFFindicator is not illuminated press the TRANSFER button once.The On/OFFindicator on the controller will now illuminate indicatingthat hot water temperature control has now been transferred tothis controller and that the hot water unit will be ready to supply hotwater once a hot water tap is opened.ADJUSTING TEMPERATURESelect the desired temperature using the 'Hot water temp' or buttons until the required temperature is displayed on thedigital monitor.To operate the hot water unit, open any hot water tap. This willautomatically light the burner providing hot water.

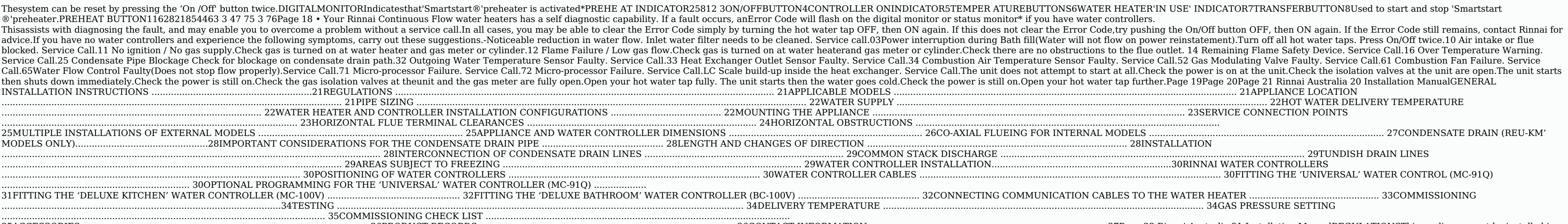
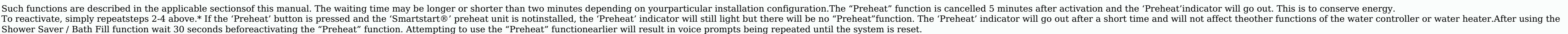
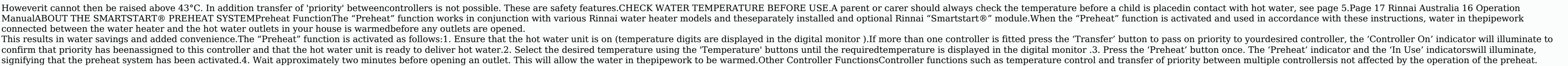


The waterheater 'In Use' indicator will illuminate on the water controller.Once the hot water is running, if the set temperature is either toohot or cold press the 'Hot water temp' or buttons until thedesired temperature is reached.CHECK WATER TEMPERATURE BEFORE USE.A parent or carer should always check the temperature before a child is placedin contact with hot water, see page 5.Whilest hot water outlets are open the set temperature may be lowered. Howeverthey cannot then be raised above 43°C.



In addition transfer of 'priority' betweencontrollers is not possible. These are safety features.Temperatures higher than 50°C should not be able to be selected on controllersinstalled in bathrooms, ensuites or toilets. This is to help reduce the risk of burnsfrom hot water. If this is not the case, the controllers have been incorreclyinstalled. CONTACT YOUR INSTALLER.The temperature of outgoing hot water is constantly monitored by a built-insensor. 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 whenwater 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 hotwater temperature falls to that shown on the digital monitor (or the pre-set limit of the appliance).Page 4 To Suit Water Heater Models -INFINITY 32REU-VRM3237WGINFINITY 26 REU-VRM2626WGINFINITY 26i REU-VRM2632FFUGINFINITY 20 REU-VRM2024WGINFINITY 16 REU-VRM1620WGINFINITY ENVIRO 32 REU-KM3237WDINFINITY ENVIRO 26 REU-KM2635WDB16 REU-VR1620WBB20 REU-VR2024WBB26 REU-VR2626WBHD250e REU-VRM3237WCHD200e REU-VRM2632WCHD200i REU-VRM2632FFUCHDC211e REU-KM3237WDCHDC211i REU-KM3237FFUDC• Manufacturer's Installation Instructions• Current AS/NZS 3000, AS/NZS 3500 & AS/NZS 5601 • Local Regulations and Municipal Building Codes including local OH&S requirementsThis 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.This Appliance complieswith AS 3498:2009SAI GLOBAL LIC. W208 Page 5 The ON indicator will illuminate, indicating that the hot water unitThe 'beep' sound can be muted by pressing the 'Hot water temp' Up and indicates that the Smartstart®preheater (when fitted)is activated.Used to start and stop theSmartstart® preheat unit (whenfitted). See Smartstart® Operationon page 16.Used to switch the water heateron and off.Used to transfer control prioritybetween the temperaturecontrollers. The controller withpriority has command of the hotwater delivery temperature.Indicates that a water heater is inoperation and delivering hotwater.Indicates the temperatureselecte	1
Error message flash invent of a fault.Used to select water temperature.Indicates if this temperaturecontroller is in control of waterdelivery temperature.WATER HEATER'In Use' INDICATORDIGITAL MONITORTEMPERATURECONTROL BUTTONSCONTROLLERON INDICATORTRANSFER BUTTONPREHEAT BUTTONPREHEAT INDICATORON/OFF BUTTONPlease read the 'Operation/Installation' Manual carefully to ensure safe and correct operation.Check the 'ON indicator' light is lit before turning on the tap. WARNING Page 6 Rinnai Australia 7 Operation ManualRemote water controllers allow precise temperature control by the user. When used correctly, the hotwater unit will deliver the selected temperature, even when the water flow is varied, or more than onetap is in use. Each water controller can be individually programmed, however the water heater canonly 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*, 65* and 75°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°CWhilest hot water outlets are open the set temperature may be lowered. However the set temperaturecannot then be raised above 43°C. In addition, transfer of 'priority' between water controllers is notpossible. These are safety features.Suggested temperatures are:Kitchen 50°C ~ 55°C• Shower 37°C ~ 43°C, Bath fill 39°C ~ 45°C• Temperature may not be available refer to 'Delivery Temperatures'. These temperatures are suggestions only. You may find higher or lower temperatures morecomfortable. Maintaining lower temperatures helps save energy. To obtain water temperatures lowerthan 37°C simply add cold water.Water controllers are an optional extra. 'Universal' and 'Deluxe' water controllers can be fitted.Universal water controllers allow temperature selection only. Deluxe water controllers allowtemperature 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 areinstalled.	2
The temperature selected will be available to all outlets.Universal (MC-91Q) and Deluxe (MC/BC-100V) Water Controllers - available configurations:AllModelsA maximum of 4 water controllers can be fitted. Any combination of both deluxe anduniversal 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. Page 7 Rinnai Australia 11 Operation ManualSETTING THE SOUND OPTIONSTo set the sound options press the 'Sound Volume' button and select the desired audible settingsas 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 modeSETTING THE CLOCKThe clock is a 12 hour AM/PM style display. To set the time press the 'Clock' button once, thisplaces the controller into clock setting mode, in the digital monitor the clock digits will flash, if this is the firsttime the clock has been set the starting time will be AM12:00. Use the 'Temperature' or buttons to select thedesired time, holding these buttons down continuouslycycles the digits. When you get close to the time youwish to set, press the button intermittently to avoid goingfurther than the desired time. To return to normal mode press the 'Clock' buttononce, if no buttons are pressed for a period of approximately 60 seconds the controller will return tonormal mode.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 isswitched off over a prolonged period.ADJUSTING TEMPERATURESimply press the 'Temperature' or buttons until the requiredtemperature is displayed on the digital monitor.To operate the water heater, open any hot water tap. This willautomatically light the burner, providing hot water. The 'In Use'indicator will illuminate on all water controllers.Once the hot water is running, if the set temperature is either too hot or cold press the 'Temperature' or buttons until the desiredtemperature is reached.Whilest hot water outlets are open the set temperature may be lowered. Howeverit cannot then be raised above 43°C. In addition, transfer of 'priority' betweencontrollers is not possible. These are safety features.CHECK WATER TEMPERATURE BEFORE USE.A parent or carer should always check the temperature before a child is placedin contact with hot water, see page 5. Page 8 Rinnai Australia 1 Operation ManualYour 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.This Appliance must be installed correctly by an authorised person. The installation of gas, water, andelectricity 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 ComplianceCertificate. For Further information contact the Plumbing Industry Commission on 1800 015 129.Heated water can be dangerous, especially for youngchildren and the infirm. Water temperatures above 50°C can cause severe burnsimstantly 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 inAustralia) can severely burn a child in less than half a second.At 50°C it takes five minutes.	3
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 smallhand 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 thewater temperature set at a safe level. Page 9 Rinnai Australia 1 Operation ManualREGULATORY INFORMATION.....1WARNING ABOUT HOT WATER2IMPORTANT INFORMATION3OPERATION WITHOUT CONTROLLERS.....5GENERAL WATER CONTROL INFORMATION6MAXIMUM DELIVERY TEMPERATURES.....8ADJUSTING TEMPERATURE.....9DELUXE BATHROOM WATER CONTROLLERS.....10ABOUT THE UNIVERSAL WATER CONTROLLER (MC-91Q).....8TURNING ON THE WATER CONTROLLER.....9ADJUSTING TEMPERATURE.....9DELUXE BATHROOM WATER CONTROLLERS.....10ABOUT THE DELUXE BATHROOM WATER CONTROLLER (BC-100V).....11ADJUSTING TEMPERATURE.....11OPERATING THE SHOWER SAVER / BATH FILL FUNCTION.....11SETTING THE CLOCK.....12TURNING ON THE WATER CONTROLLER.....14SETTING THE SOUND OPTIONS14SETTING THE CLOCK15ADJUSTING TEMPERATURE.....15SMARTSTART® PRE-HEAT OPERATION16ABOUT THE SMARTSTART® PREHEAT SYSTEM16TROUBLESHOOTING.....17INSTALLATION MANUAL.....17	4

ManualCongratulations on purchasing the latest technology temperature controlled Rinnai continuous flowwater heating system. The Rinnai Continuous Flow water heater products NEVER RUN OUT of hot water. Whilest electricity, water and gas supplies are connected, hot water is available whenever hot water taps areopen. • Built into the main micro-processor is the facility to LIMIT THE MAXIMUM TEMPERATURE of thehot water supplied. The water temperature may be limited to various values. This is particularlyuseful when the hot water unit is installed where young children or the infirm may be using the hotwater. • The Rinnai Continuous Flow water heaters products are power flued appliances. This makes themCOMPACT, saving both floor and wall space. • The temperature of hot water is CONSTANTLY MONITORED by a BUILT-IN SENSOR. If thetemperature of the hot water rises to more than 3°C above the selected temperature the burner isturned 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 isclosed. IGNITION IS ELECTRONIC, so there is no pilot light. When the hot water tap is off, no gas issued. • The "Smartstart®" system when fitted can pre-heat the water in the pipe-work between the waterheater and the hot water outlets. This results in water savings and reduces waiting time for heatedwater at the outlets. • 'Deluxe' or 'Universal' Water Controllers are available as an optional extra. Depending on themodels 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 7 for details. • Water controller cables are connected easily by the end user using a convenient quick connectsystem. • ERROR MESSAGES ARE DISPLAYED on the Water Controllers and Status Monitor®, assisting withservice. • All models in the range covered by this manual have a "Status Monitor", except B16, B20 & B26. Page 11 Rinnai Australia 3 Operation ManualThe range of Rinnai continuous flow water heaters referred to in this manual areincompatible with solar water heating systems. A dedicated range of solarcompatible continuous flow water heaters is available from Rinnai.Always check water temperature carefully beforeuse. Refer to the WARNING ABOUT HOT WATERon "page 1" of this manual for important safetyinformation.At low water flows, the hot water unit may extinguishwithout warning. Opening the tap further will restartthe 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 flueoutlet. This condition is normal for high efficiencyappliances and does not indicate a fault.Keep flammable materials, spray cans, fuelcontainers, pool chemicals, trees, shrubs, etc. wellclear of the flue outlet.Do Not spray water directly into the flue terminal.If freezing conditions are expected, turn off water andgas and drain all water from the appliance. If powerand the automatic frost protection are connected,freezing will be prevented. (Anti-frost protection isfitted as standard equipment on External units and isavailable as an optional extra on Internal Units).The delivered water temperature is controlledautomatically. The flow may vary depending on thedelivery temperature selected and the ambient watertemperature.GasTurn Water OffTurn Gas OffDrain WaterPage 12 Rinnai Australia 4 Operation ManualTo clean your water controller(s) use a softdamp cloth with a mild detergent.Do Not use solventsWhilest hot water outlets are open the settemperature may be lowered. However theycannot then be raised above 43°C. In addition,transfer of 'priority' between controllers is notpossible. These are safety features.Dependng on the weather conditions and thelength of the pipe between the hot water unitand the outlet in use, there may be a variationbetween the temperatures displayed at thewater controller(s) and the temperature of thewater at the outlet.There is no need to turn the water controller(s)off after use. However, if you prefer to turn thewater controller(s) off, selected temperatures to a maximum of 50°C will be stored in thesystem memory at all times whilest mains powerremains connected.As a safety precaution, if a Kitchen Controller'stemperature is set above 50°C, transferringand then returning 'priority' to the KitchenController will result in a default 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 thewater heater causing the water to go cold.Somene may be in the middle of having a shower or filling a bath.KitchenKitchenBathroomPage 13 Voice High, Med, Low or Off, sets the voice prompt volume but does not affect the audible tones.Used to switch the water heater on and off. This button is illuminated when thehot water heating system is on.ON/OFF BUTTONDIGITAL MONITORIndicates that the water heater is inoperation and delivering hot water.WATER HEATER'In Use' INDICATORSPEAKERIn 'Setup' mode these buttons areused to adjust the voice promptvolume and to set the clock.UP AND DOWN BUTTONSMODE BUTTONWATER TEMPERATUREINDICATORSHOWER SAVER / BATH FILL INDICATORThis button is illuminated when theSmartstart® preheater (when fitted)is activated.PREHEAT BUTTON12 Hour AM / PM clock display.CLOCKTRANSFER BUTTON Page 14 Rinnai Australia 13 Operation ManualUSING MULTIPLE WATER CONTROLLERSThe water heater can be turned on and off at any water controller. If more than one water controller isfitted press the 'Transfer' button to transfer priority to the desired controller.COMBINING UNIVERSAL AND DELUXE WATER CONTROLLERSUniversal and Deluxe water controllers can be combined and will function as described in othersections of the Water Heater Operation / Installation Manual. Refer to page 7 to confirm the maximumnumber and combination of controllers that can be fitted to your water heater model.The voice prompt will say "The hot water system isready. Open the hot water tap". Open the hot water tapfor the relevant shower or bath. The 'In Use' indicator will illuminate on all Deluxewater controllers and the shower will run or the bath willstart to fill.To Stop Shower Saver / Bath Fill OperationIf you wish to stop the water flow whilst the Showersaver / 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 hot water taps and push the 'Bath Fill' button". Followthe voice prompt instructions. When Shower Saver / Bath Fill Operations FinishesOnce the Shower Saver / Bath Fill operation finishes thefollowing 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' indicatorwill 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 fromany 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 placedin contact with hot water, see page 5.NEVER LEAVE YOUNG CHILDREN UNATTENDED IN THE BATH.When using the 'Shower saver / Bath fill' function, ALWAYS close the hot watertap for the bath or shower after the flow has stopped.Whilest hot water outlets are open the set temperature may be lowered. Howeverit cannot then be raised above 43°C. In addition transfer of 'priority' betweencontrollers is not possible. These are safety features.Page 15 Rinnai Australia 12 Operation ManualOPERATING THE SHOWER SAVER / BATH FILL FUNCTIONThe 'Shower Saver / Bath Fill' function allows a presetwater volume and temperature to be selected and runautomatically. No voice prompts will be available if the 'Voice OFF' or 'Sound OFF' options areselected. With 'Sound OFF' there willalso be no audible tones.Initial SettingsWhen a deluxe bathroom controller is first turned on, thedefault 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 litresor raised to a maximum of 400 litres and thetemperature adjusted as desired.Setting Shower / Bath Temperature and Volume With the system on, select a Deluxe Bathroom watercontroller and ensure that it currently has priority. If itdoes not have priority press the 'Transfer' buttononce and the 'Transfer' button will illuminate and the 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 anextended 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 thetemperature 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 orlower be used. During any subsequent bath fills the volume can then be adjusted to suit your knownbath 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® (page 16) is in operation, the Shower Saver / Bath Fill functionis unavailable while the water heater 'In Use' indicator is illuminated. Do notpress the Preheat button whilst Shower Saver / Bath Fill is in operation as theprogrammed bath fill volume will not be met.Using Shower Saver / Bath FillPress 'Shower Saver / Bath Fill' button once. The 'Shower Saver / Bath Fill' button will illuminateand 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).Page 16 Rinnai Australia 15 Operation ManualSETTING THE CLOCKThe clock is a 12 hour AM/PM style display. To set the time press the 'Mode' button twice. Thisplaces 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 timewill 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 goingfurther 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.The time is always displayed regardless of whether the water controller is turnedON 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 TEMPERATURESimply press the 'hot water temp' or buttons until the requiredtemperature is displayed on the digital monitor.To operate the water heater, open any hot water tap. This willautomatically 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 isreached.Whilest hot water outlets are open the set temperature may be lowered.

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