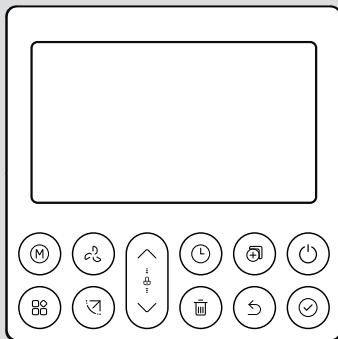


MODEL
CNTRLDRCINW2



Standard wired remote controller

Operation and installation guide

Rinnai

Important

Controller must be installed in accordance with:

- Manufacturer's installation instructions
- Current AS/NZS 3000, AS/NZS 5141, AS/NZS 5149, AS/NZS 1677, and AS/NZS 60335.2.40
- HB276 - A Guide to good practice for energy efficient installation

Must be installed, maintained and removed only by an authorised person.

Warning

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure they do not play with the appliance.

Improper installation, adjustment, alteration, service and maintenance can cause property damage, personal injury or loss of life.

For more information about buying, using, and servicing of Rinnai appliances call: 0800 RINNAI (0800 746 624).

Contents

Safety and important information..... 4

Installation 5

Controller operation

LCD display 12

Controller buttons 13

Operation..... 15

Timer functions 19

Fault codes 28

Wireless control 29

Wireless registration and connection..... 30

Safety and important information



DO NOT install the controller in a place exposed to leakage or flammable gases. Once flammable gases are leaked and left around the controller, fire may occur.

DO NOT operate with wet hands or let water enter the wired controller—electric shock may occur.

Controller must be wired according to the wiring diagram.

The wired controller operates in a low voltage loop circuit, DO NOT connect the cable to 220-240 V power.

The shielded wire of the wired controller **MUST BE** grounded.

After completing the wired controller connection, DO NOT use a megger tester to check the insulation. This may damage the product.

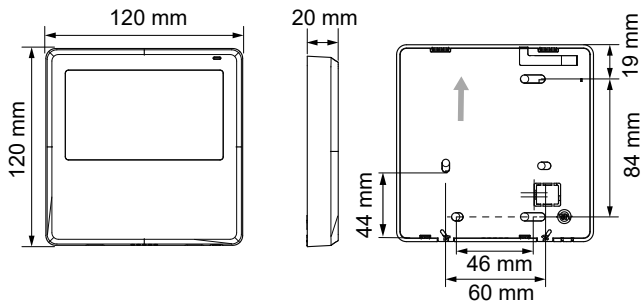
A maximum of TWO CONTROLLERS may be installed on a system.

Specification

Input voltage:	12 V
Ambient temperature.:	0~45 °C
Ambient humidity:	40-90% RH

Controller loom shall be 2-core (0.5 mm²) shielded cable, up to 40 m.

Installation

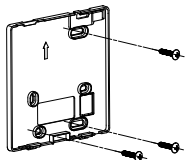
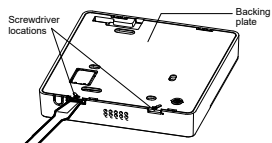


Backing plate

Remove the backing plate by inserting a flat screwdriver in the lower part of the controller, rotate (do not pry up and down) to remove the backing plate.

The PCB is mounted in the upper part of the controller be careful not to damage.

Fasten the backing plate on the wall with three screws (ST3.9*25) and plugs (provided).

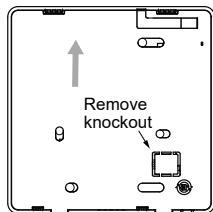


Loom access point

Remove plastic knockout from the backing plate.

Create a hole in the wall to access the wall cavity for routing the loom from the indoor unit to the controller.

Put on a flat surface. Be careful not to distort the back plate of the wired controller by over tightening the mounting screws.



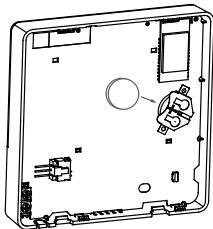
Battery installation (CR2032)



WARNING

Keep batteries out of reach of children.

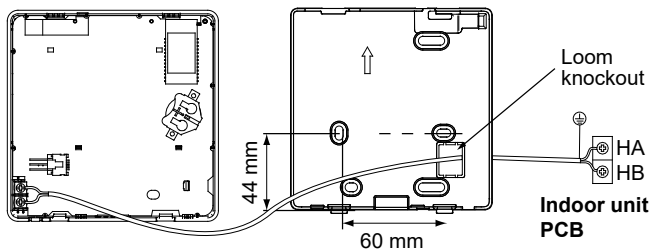
Swallowing may lead to serious injury in as little as two hours, or death due to chemical burns and potential perforation of the oesophagus.



Slide the battery into the holder with the positive side facing up.

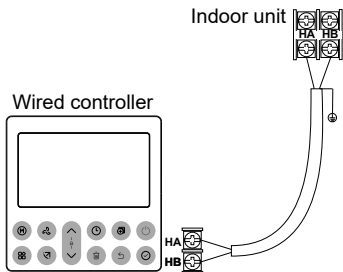
When first turning on set up the time of day. If the system is exposed to a power outage the battery will maintain the time of day. If the displayed time is not correct once power is restored try replacing the battery.

Thermostat connection to the indoor unit



Indoor unit

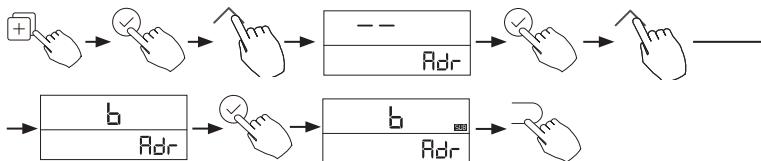
Connect the terminals on the wired controller (HA, HB), and the terminals on the indoor unit (HA, HB). There is no polarity between HA and HB, refer image below.



Setting up two controllers

To configure a secondary controller do the following:

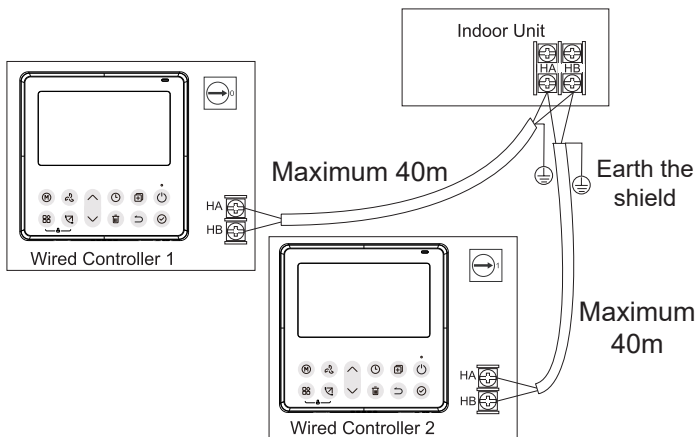
1. With both controllers connected, turn power to the system ON at the isolating switch.
2. Go to the proposed secondary controller and press the copy button.
3. Press the confirm button to access parameters.
4. Press the up button until '--' and 'Adr' appear on the screen.
5. Press the confirm button to access the controller address options.
6. Press the up button until 'b' appears on the screen.
7. Press the confirm button to accept the address changes.
8. SUB will appear on the right hand side of the screen confirming setup of the secondary controller is complete.
9. Press the back button twice to save and return to the home screen.



The system may now be operated by either controller. If two controllers are installed the secondary 'SUB' controller is not capable of the following functions:

- Setting time and date
- Weekly schedule
- Timer on/off

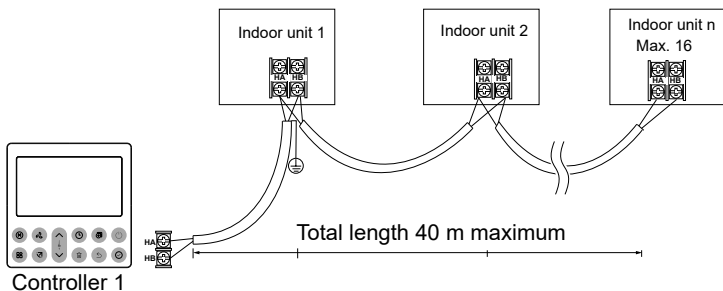
Wi-Fi control may be setup on one of the controllers only. There is no polarity between HA and HB.



One controller to multiple units

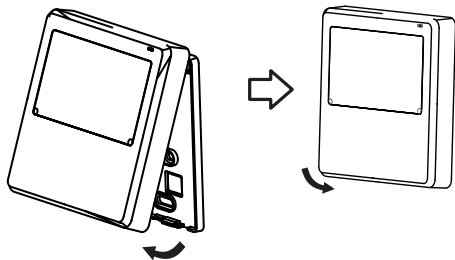
For some units, one wired controller can support multiple units (a maximum of 16).

For configuration of multiple indoor units loom connection is polarity sensitive and HA must connect to HA on all indoor units, the same applies to HB. In group control there will be no error displayed on the wired controller.

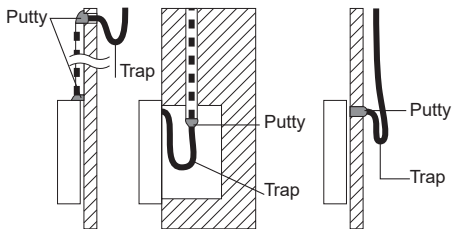


Reattach backing plate of the wired controller

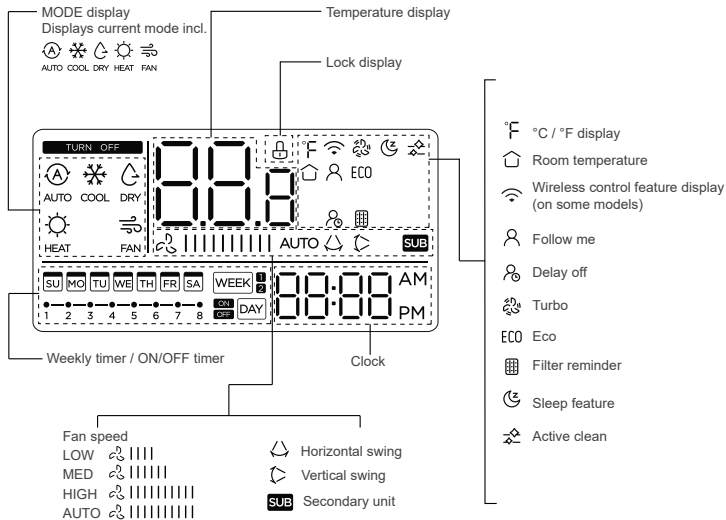
To reconnect the fascia to the back plate, anchor the top lugs first as shown below then swing the fascia down and press lightly to engage the bottom tabs. Be careful not to pinch the loom during the process.



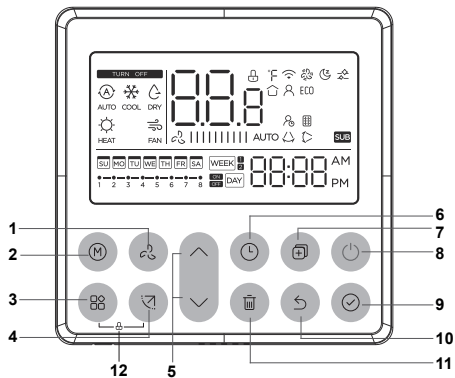
DO NOT allow water to enter the controller, use trap and putty to seal the connectors. Connecting wires must be securely fixed in place.



LCD display



Controller buttons



- | | |
|------------------------|----------------------|
| 1. Fan speed | 7. Copy |
| 2. Mode | 8. Power |
| 3. Function | 9. Confirm |
| 4. Swing (some models) | 10. Back |
| 5. Adjust | 11. Day off* / delay |
| 6. Timer | 12. Child lock |

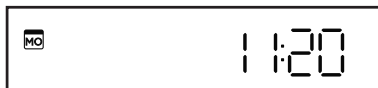
* This means single day schedule deactivation.

Setting the current day and time

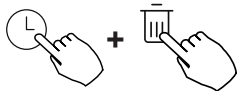
1. Press the timer button for two seconds or more. The timer display will flash.
2. Press the down or up button to set the day. The selected day will flash, press the confirm button.



3. Press the timer button then press the down or up button to set the current time. Press repeatedly to adjust the time in one minute increments.



4. Complete the setting by pressing the confirm button.
5. Time scale selection: Press the clock and delay on/off buttons for two seconds. This will alternate the clock display between the 12 and 24 hour scale.



Operation

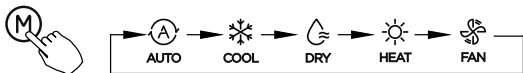
Turn on and off

Press the power button.



Selecting operation mode

Press the Mode button to cycle through the different modes of operation.



Adjusting room temperature setting

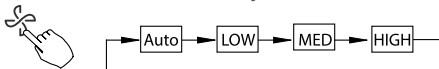
Press the up or down button to set the room temperature. Indoor setting temperature range 16-30 °C.

Pressing the up and down buttons together for three seconds will alternate the temperature display between the °C and °F scale.



Adjusting fan speed setting

Press the fan speed button to set the fan speed. This button does not work when in Auto or Dry mode.



Keypad tone setting



Press the mode and fan speed buttons together for three seconds to turn on or turn off the keypad tone.

Child lock function



Press the function and swing buttons for three seconds to activate and lock all the buttons on the controller. Press the same two buttons again to deactivate.



When the child lock function is activated the lock symbol appears.

Turbo

This mode allows you to cool indoor air quickly in summer or warm it quickly in winter. In Turbo mode the fan is set to operate at maximum output.

Turbo will only function when in cooling or heating mode. Press the function button until the turbo fan symbol appears, press again to deactivate.



Standard fan symbol



Turbo fan symbol

Eco mode

ECO

There may be times when you need to manage and reduce the noise level of the outdoor unit, possibly at night.

This feature gradually reduces the performance of your system over an eight hour period to around 50%. The rotational speed of the compressor and outdoor fan slow down incrementally every two hours. At the completion of the ECO cycle the system will return to normal operation.

To activate ECO, press the function button and then use the up /down arrows to highlight ECO, then press the confirm button to select. To cancel ECO early press the mode button and select the desired mode of operation and press confirm.

Sleep mode

This feature would be activated when heading off to sleep, it runs for eight hours. It works by either raising/reducing the temperature by 1°C in the first hour and another 1°C in the second hour. For the remaining six hours the setpoint temperature will remain unchanged and at the completion of the cycle the system will return to normal operation.



To activate SLEEP, press the function button and then use the up/down arrows to highlight SLEEP, then press the confirm button to select. To cancel SLEEP early press the mode button and select the desired mode of operation and press confirm.

Follow me

Press the function button until the Follow me icon appears. Press confirm to activate.



When Follow me is activated the room temperature is detected at the sensor in the wired controller. When Follow me is not active the room temperature is detected at the air inlet of the indoor unit.

Gear

This feature, like ECO, will change the outdoor unit's compressor and fan speeds. The settings are 100% to 75%, 50% or OFF.

To activate GEAR press the function button and then use the up / down arrows to highlight GEAR, then press confirm to select. After approximately five seconds the temperature setpoint will display, then press the up/down buttons to increase/decrease the setpoint temperature, then press the confirm button to save and action GEAR.

To cancel GEAR press the mode button and select the desired mode of operation.

Active clean

Press the function button until the Active clean icon appears. Press confirm to start Active clean. The unit will enter in an automated process where the indoor unit coil will be cleaned and sterilised. This function can take up to 90 minutes to complete.



Active clean should be done at least twice a year, at the end of summer, and at the end of winter. This does not replace the requirement for yearly servicing of your unit. Contact your installer or Rinnai to schedule annual servicing.

Timer functions

WEEK

WEEKLY timer

Use this timer function to set operating times for each day of the week.

ON

DAY

On timer

Use this timer to start operation. The timer operates and operation starts after the time has passed.

OFF

DAY

Off timer

Use this timer to stop operation. The timer operates and operation stops after the time has passed.

ON

OFF

DAY

On and Off timer

Use this timer to start and stop operation. The timer operates and operation starts and stops after the time has passed.

To set the ON or OFF timer

When day on or day off is selected the on or off icons will flash, and the temperature display will also flash.



Press the up/down buttons to select the timer duration, in 0.5 hour increments.



Press the confirm button to activate the timer and complete the setting.

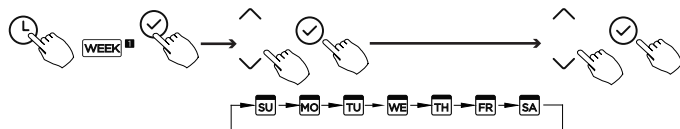
To set the day On or OFF

When day on or day off is selected, the on icon will flash and the off icon will light up. Use the up or down buttons to select the on timer duration in 0.5 hour increments. Press the confirm button to activate the on timer duration. At this point the on icon will light up and the off icon will flash. Use the up or down buttons to select the on timer duration in 0.5 hour increments. Press the confirm button to activate the off timer duration and complete the setting.

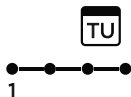
Please note: If you have a second wired controller, this controller cannot set the timer.

Weekly timer 1

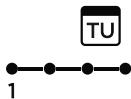
Up to four timer settings can be saved for each day of the week. Press the timer button to select the week 1. Press the confirm button. Press the up or down buttons to select the day of the week, then press confirm.



Press the up or down buttons to select the ON timer, press confirm to lock in the setting.

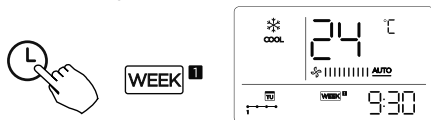


Press the up or down button to select the OFF timer, press confirm to lock in the setting.



Weekly timer operation

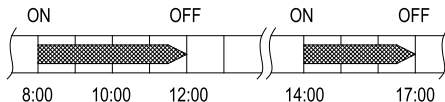
To activate weekly timer operation, press the timer button while 'Week 1' is displayed on the LCD.



To deactivate weekly timer operation, press the timer button when 'Week 1' has disappeared from the LCD.

Turning off the system during the weekly timer

Press the power button once (quickly), the system will turn off temporarily but will come back on when the next timer is scheduled.



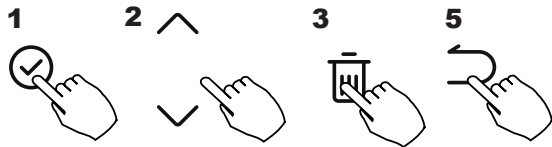
Example: By pressing the power button once (quickly) at 10am the system will stop, but will turn back on again at 2pm

By pressing the power button for two seconds the system will turn off completely.

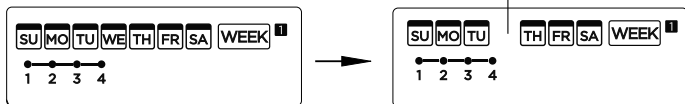
To set a day off (for a holiday)

1. During the weekly timer setting, press the confirm button.
2. Press the up or down button to select the day in the week.
3. Press the 'Day off' button to set the day off, in this example Wed.
4. The day off can be set for other days by repeating steps 2 and 3.
5. Press the back button to return to the weekly timer.

To cancel follow the same procedure as those for setting up. The day off setting is canceled automatically after the set day has passed.



The **WE** mark is hidden

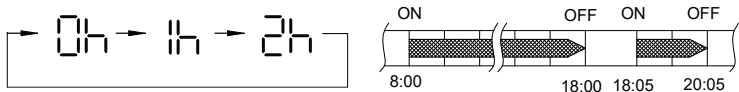


Delay function



During the weekly timer, press the function button. Select delay function and press the confirm button. The display will show “0h” “1h” “2h”, wait three seconds to confirm. When the delay function is activated, the delay off symbol will appear.

The delay function can only be enabled in Weekly Timer 1 and Weekly Timer 2.



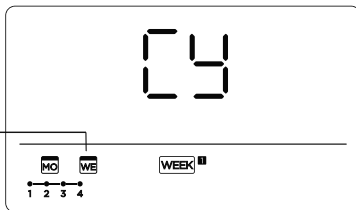
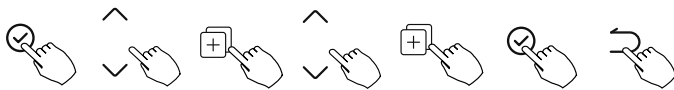
Example: By selecting “2h” at 18:05, the system will be delayed in turning off until 20:05.

Copying setting from one day into another

The entire schedule of one day of the week can be copied.

1. During the weekly timer, press the confirm button.
2. Press the up or down button to select which day to copy settings.
3. Press the copy button, the letters CY will appear on the LCD.
4. Press the up or down button to select the day to copy to.
5. Press the copy button to confirm.

Other days can be copied by repeating steps 4 and 5. Press the confirm button to save the settings and the back button to return to the weekly timer.

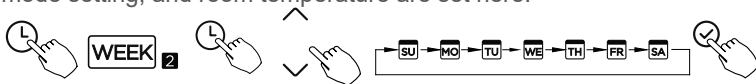


The **WE** mark flashes quickly

For example, copying the Monday setting to Wednesday.

Weekly timer 2

Press the timer button to select week 2, then press confirm. Various modes such as day of the week, on timers, time setting, operation mode setting, and room temperature are set here.



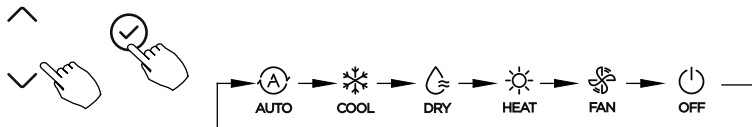
With week 2 up to eight scheduled events can be set on one day.

Time setting

Press the up or down button to select the time, then press the confirm button.

Operation mode setting

Press the up or down button to select operation mode, then press confirm.

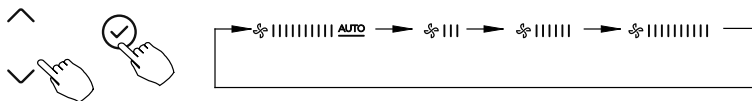


Room temperature setting

Press the up or down button to set the room temperature, then press confirm. This setting is not available when in FAN or OFF modes.

Fan speed setting

Press the up or down button to set the fan speed, then press confirm. This setting is not available when in AUTO, DRY or OFF modes

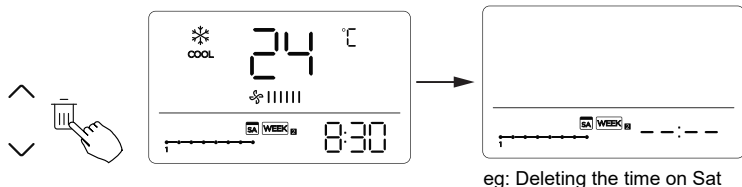


Different scheduled events can be set by repeating the steps on the previous pages. All the other operations, weekly timer operation, setting the day off, and copying settings are the same as those noted for WEEKLY TIMER 1.

Delete the time scale in one day

When in a weekly timer setting press confirm. Press the up or down button to select the day of the week and confirm.

Press the up or down button to select the setting time to be deleted. The setting time, mode and fan speed will appear on the LCD, and can be deleted by pressing the DELETE button.



Fault codes

There are a number fault / error codes that could show on the controller. For a full list of what these are refer to the installation guide, available online at www.rinnai.co.nz. There is one error code that relates to a communication error between the wired controller and that of the indoor unit, this is **EH63**, this will require a service call.

Wireless control

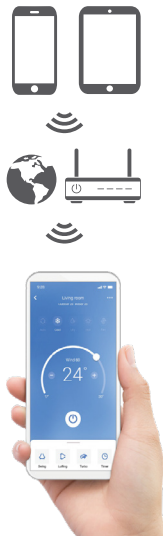
The system comes with wireless capability as standard, which features wireless control via an App.

Simple to activate and easy to use, the 'NetHome Plus' App can be downloaded via Google Play or the App store on a compatible mobile device.

Your home's Internet router relays requests from the App to control your air conditioner, just like your normal remote controller.

Set your favourite temperature before you come home. Available to download via:

- Google Play
- App Store



Please note

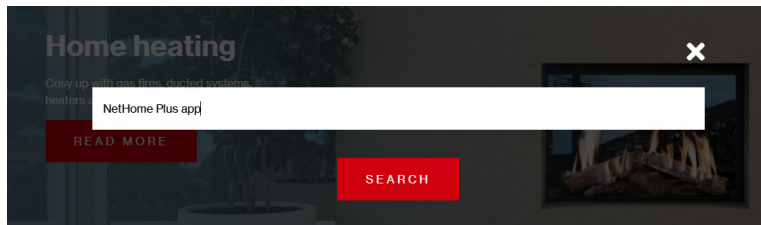


NetHome Plus is a third party App not run by Rinnai.

For this App to run the home's Internet router must be running on 2.4 GHz (not 5 GHz)—check the wireless settings on your device.

Wireless registration and connection

As technology and App updates are frequent it has not been placed in this guide. If you are registering and connecting using the App, please refer to the online user guide available on the Rinnai NZ website. Just enter 'NetHome Plus app' in the search field.



The steps to register and connect are:

1. Download and install the NetHome Plus App on a compatible mobile device
2. Complete an App registration by creating an account, this must be done in the home
3. Pair your mobile device to the unit via the home router

Please note:

When connecting the device you must finish all the steps in **eight minutes** after powering on the unit, otherwise you'll need to switch the unit off and go through the process again.

Rinnai.co.nz

Tel: 0800 746 624

<http://www.youtube.com/rinnainz>

<http://facebook.com/rinnainz>

R32 standard controller op & install guide
15129-D I 4-26