Models CIN026RMB CIN035RMB CIN050RMB CINFASM (front panel)





Pro Series Multi Split Mini Cassette Operation guide

Rinnai

Important

This appliance must be installed in accordance with:

- Manufacturer's installation instructions
- Current AS/NZS 3000, AS/NZS 5141, AS/NZS 5419, AS/NZS 1677, AS/NZS 60335.2.40, and G12/AS1

Appliance must be installed, commissioned and serviced by an authorised person.

Warning

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).

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Contents

Safety and important information4	1
General information5	5
About Multi Room systems6	3
About your Pro Series unit6	3
Setting the angle of air flow7	7
Remote control and functions8	3
Care and maintenance1	12
Troubleshooting1	14
Limited Warranty1	16



Safety and important information

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.

If an abnormal situation arises (like a burning smell), immediately turn off the unit and disconnect the power.

If the Pro Series is used together with other heating devices, throughly ventilate the room to avoid oxygen depletion.

Do not let the unit run for extended periods when the humidity is very high, or when doors or windows are left open. This may result in excessive operational loading and lead to product failure.

Do not insert fingers, rods or other objects into the air inlet or outlet. The fan rotates at high speed and may cause injury.	Do not use flammable sprays such as hair spray or paint near the unit. This may cause a fire.
Do not operate the unit in places near or around combustible gases. Gas may collect around the unit and cause an explosion.	Do not operate the unit in a wet room such as a bathroom or laundry room. Exposure to water can cause electrical components to short circuit.
Do not operate the unit with wet hands, this may cause an electric shock.	Do not allow children to play with the unit. Children must be supervised around the unit at all times.
Do not use this unit for any other purpose than its intended use.	Do not climb onto or place objects on top of the outdoor unit.
Do not expose your body directly to cool air for a prolonged period of time.	



If any of the following conditions occur, turn off your unit immediately and contact your installer or Rinnai for advice:

- You smell a burning odour
- The unit emits loud or abnormal sounds
- A power fuse blows or the circuit breaker frequently trips
- Water or other objects fall onto or out of the unit

General information

Installation by a licensed tradesperson

Only a licensed tradespeson can install, adjust, maintain, or service this system. Any work carried out by a non-licensed tradesperson is illegal and will void any warranty.

Location and positioning

R32 refrigerant models MUST BE installed, operated and stored in a room with a **floor area larger** than 4 m^2 .

Installation must be in a position that can support the unit's weight. If the chosen location cannot support the weight of the unit, or the installation is not done properly, the unit may drop and cause serious injury or damage.

The installer must install drainage piping according to the installation instructions. Improper drainage may cause water damage to your home or property.

- Do not install the unit in location that may be exposed to combustible gas leaks. If combustible gas accumulates around the unit, it may cause a fire.
- Do not install the outdoor unit where noise may cause a nuisance, such as near bedrooms or neighbouring properties.
- Do not install the outdoor unit where it will be exposed to sea wind and salt spray, this will significantly reduce the durability of the unit.

Genuine Rinnai parts

Only use the included accessories, parts, and specified parts for installation. Using non-standard parts can cause water leaks, electrical shock, fire, and cause the unit to fail.

Disposal guidelines



This appliance contains refrigerant and other potentially hazardous materials. When disposing of the appliance, the law requires special collection and treatment. Do not dispose of this product as household waste.

Remote control - inserting and replacing batteries

The remote control comes with two AAA batteries. Put the batteries in place before use.

- 1. Slide the back cover from the remote control downward, exposing the battery compartment.
- 2. Insert the batteries, paying attention to match the (+) and (-) ends of the batteries with the symbols inside the battery compartment.
- 3. Slide the battery back cover back into place.

Tips for using the remote control

- Must be used within 8 m of the unit
- Unit will beep when the signal is received
- Curtains, other materials, and direct sunlight can interfere with the infrared signal
- If the remote is not going to be used for more than two months remove the batteries

Optimising the performance of your unit

- Keep doors and windows closed
- Limit energy usage by using the timers
- Do not block air inlets and outlets
- Regularly inspect and clean filters

About Multi Room systems

Your multi room system has one outdoor unit connected to multiple indoor units. The capacity of the heating and cooling of the indoor units will vary from the actual rated capacity, this is because the power of the outdoor unit is distributed across all the indoor units operating at the time.

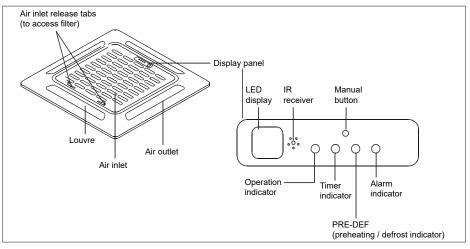
A multi room system allows individual temperature control of each indoor unit, and ensures the units are only running when needed.

Mode selection

The mode of operation for all the indoor units is dictated by the first unit turned on.



About your Pro Series unit



Manual button

This button selects the mode in the following order: Auto - Forced cool - Off

In forced cool mode, the operation light flashes. The system will then turn to AUTO after it has cooled on high for approximately 30 minutes. The remote control will be disabled during this operation.

Off, when the display panel is turned off, the unit turns off and the remote control will be re-enabled.

Operation range limits

The table below indicates the temperature range the unit can operated within.

Mode	Cooling mode	Heating mode	Dry mode
Room temperature	16-32 °C	0-30 °C	10-32 °C
Outdoor temperature	0~50 °C	-15~24 °C	0~50 °C

If the air conditioner operates in excess of 80% relative humidity (in the room), the surface of the unit may attract condensation. Setting the air flow louvre vertically to the floor, and operating on HIGH fan mode may help with this.



Additional functions

Auto restart after a power disruption

If the power fails, the system will stop. When the power returns, the operation light on the unit will flash. To restart, press the ON/OFF button on the remote control, the unit will restart using the same settings. Please note, there will be a delay of approximately three minutes before the unit starts. This is a safety feature to stop the unit from overloading.

Louvre angle memory function

When the unit restarts after a power failure, the angle of the louvres will automatically return to the previous set position.

To reset the louvre, press the manual button which will reset the horizontal louvre settings.

Sleep

This function gently regulates the set temperature to prevent excessive, draft free, heating or cooling during sleep. It allows the set temperature to increase or decrease 0.5-1 °C in an hour, up to a maximum of 2 °C above or below the set point (over an 8 hour period).

This function can only be activated via the remote control. Sleep is not available in FAN or DRY modes.

Follow me

Enables the remote control, when in AUTO, COOL, or HEAT to measure the temperature at its current location and send this signal to the unit every three minutes. Measuring ambient temperature from the remote control (instead of the unit itself) will enable the unit to optimise the temperature around you for maximum comfort.

Breeze away

Drops the fan speed and raises the angle of the louvre so air is not blown down on people that may be directly below the unit.

Defrost (dF)

In heating mode, when frost conditions are detected (thermistor in the outdoor unit), the unit automatically operates in reverse (lasting no more than ten minutes) to warm up the outdoor coil to stop it from freezing. This means the indoor unit will stop heating and only run on a low fan speed until defrost (dF) is completed.

Setting the angle of air flow

While the unit is on, use the SWING button on the remote control to set the direction of air flow, refer p.13.

Note on louvre angles

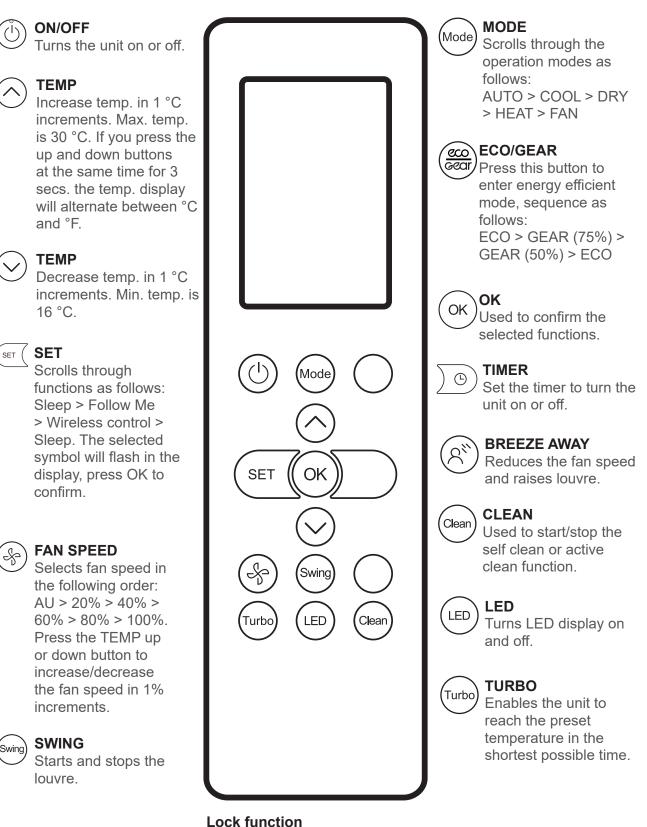
When using COOL or DRY mode, do not set the louvre at too much of vertical angle for long periods. This can cause water to condense on the louvre blade which will drop on your floor or furnishings.

The angle of the louvre should not be set too narrow as condensation may form and drip into the unit.

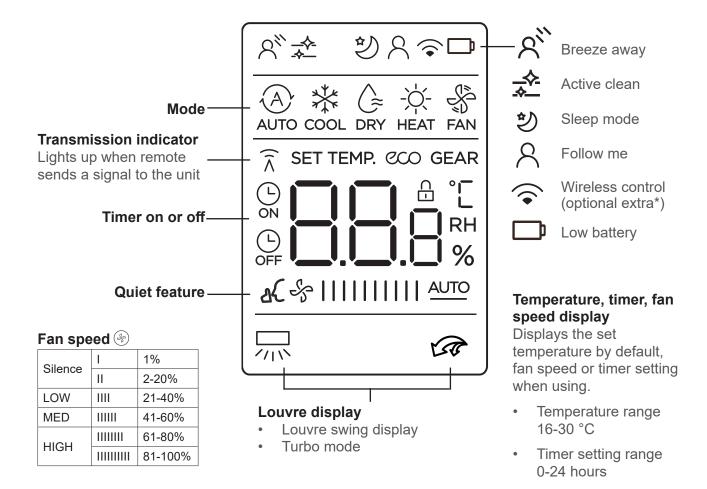


Do not move the louvre by hand. This will cause the louvre to become out of sync. If this occurs, turn off the unit and unplug it for a few seconds, then restart the unit. This will reset everything.

Remote control and functions



∩ Press Clean and Turbo together for more than 5 seconds to activate the lock function. A lock symbol will appear. All buttons will be disabled. To disable press both buttons again for 2 seconds.



Auto mode

In Auto mode the unit will automatically select COOL, FAN, HEAT based on the set temperature. In this mode the fan speed cannot be set.

- 1. Select AUTO mode
- 2. Set your desired temperature
- 3. Turn on the unit

Cool or heat mode

- 1. Select COOL/HEAT mode
- 2. Set the desired temperature
- 3. Set the fan speed
- 4. Turn on the unit

Dry mode

Dry mode is dehumidifying. In this mode the fan speed cannot be set as it is automatically controlled.

- 1. Select DRY mode
- 2. Set the desired temperature
- 3. Turn on the unit



* Wireless control available with the purchase of an optional accessory: Wireless Module - B064869 (Smart Port kit).

Fan mode

This mode uses the fan to circulate air without changing the room temperature. In this mode swing operations for air direction can still be adjusted. In FAN mode you can't set the temperature, so no temperature will display on the remote.

- 1. Select FAN mode
- 2. Select the fan speed
- 3. Turn on the unit



Setting the timer

The timer function works by adding a time after which the timer will come on and then be switched off. When setting, the time will increase by 30 minute increments with each press, up to 10 hours. After 10 hours and up to 24 hours it will increase in 1 hour increments. For example, press 5 times to get 2.5 hours, and press 10 times to get 5 hours. The timer will revert to 0.0 after 24 hours.

Cancel either function by setting the timer to 0.0 hours.

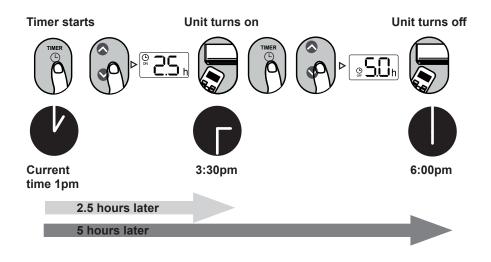
- 1. Press TIMER to initiate the ON time sequence.
- 2. Press the up or down button multiple times to set the desired time to turn on the unit.
- 3. Wait one second, the timer ON will be activated.
- 4. Press TIMER to initiate the OFF time sequence.
- 5. Press the up or down button multiple times to set the desired time to turn off the unit.
- 6. Wait one second, the timer off will be activated.

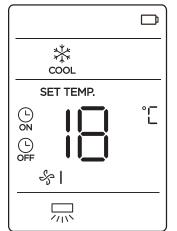


If the timers are set correctly the timer on / off icons will display on the remote, refer image above.

Timer on / off setting example

Remember that the time periods you set for both functions refers to the hours AFTER the current time. In the below example once the timer button is selected (at 1pm), the timer will come on 2.5 hours later, and turn off 5 hours later.





Swing function

If you press the Swing button the horizontal louvre will swing up and down automatically. To make it stop press the Swing button again.

If you continue to hold down the Swing button different airflow directions can be set. The louvre can be moved at a certain range each time you press the button.

When the unit is off, press and hold the Mode and Swing buttons together for one second, the louvre will open at a certain angle, which makes it convenient for cleaning. Press and hold the Mode and Swing buttons again to reset the louvres.

LED display

Press the LED button to turn on and turn off the display. If you press the LED button for more than five seconds the unit will display the room temperature, press for more than five seconds again to revert back to the set temperature.

Quiet function

Pressing the fan button for more than two seconds activates/deactivates the 'Quiet' function. This function slows the speed of the indoor unit, and lowers the frequency of the outdoor unit (compressor). This function is useful when you need to consider other occupants in the house (people sleeping at night), or neighbours. It may result in inadequate cooling or heating.

Pressing the ON/OFF, Mode, Turbo or Clean buttons while operating will automatically cancel the quiet function.

FP (frost protection)

Only used in cold climates where there is a risk of the indoor unit pipes freezing. This differs to the DEFROST (dF) function that automatically occurs in the outdoor unit (when connected to power) when frost conditions are detected, refer p.9.

In HEAT mode press the down arrow two times (within 1 second) to activate FP. The unit will operate at a high fan speed, but at a much cooler temperature (to keep running costs down), to maintain the indoor temperature at a certain temperature to prevent freezing.

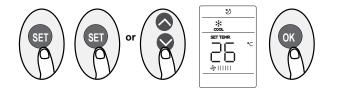


It is used for rooms or holiday homes that are not in use in winter, but could be susceptible to frost.

SET function

Press the SET button to enter the function setting, then press SET or the up and down buttons to select the desired functions. The selected symbol will flash in the display, press OK to confirm. To cancel the selected function, perform the same steps again.

The SET function will cycle through the following functions: Sleep > Follow Me > Wireless control



Care and maintenance

Before cleaning or maintenance turn off your unit and disconnect the power supply.

Pre-season inspection and maintenance, and cleaning of the outdoor unit should be only be done by a licensed service provider.

Only use a soft, dry cloth to wipe the unit clean. If the unit is especially dirty, you can use a cloth soaked in warm water to wipe it clean. Do not use water to clean the inside of the indoor unit. This can destroy the insulation and cause electrical shock.

- **Do not** use chemicals or chemically treated cloths to clean the unit.
- **Do not** use benzene, paint thinner, polishing powder or other solvents, they can cause the plastic surface to crack or deform.
- **Do not** use water hotter than 40 °C to clean the front panel, this can cause the panel to discolour or deform.

Air filter cleaning reminder

After 240 hours of use, the display window on the indoor unit will flash 'CL'. This is a reminder to clean your filter. After 15 seconds, the unit will revert to its previous display.

Air filter replacement reminder

After 2,880 hours of use, the display window on the indoor unit will flash 'nF'. This is a reminder to replace your filter. After 15 seconds the unit will revert to its previous display.

To reset the reminder, press the LED button on your remote control four times, or press the manual control button three times. If you don't reset the reminder, 'nF' will flash again when you restart the unit.

After long periods of non-use

If you plan not to use your system for an extended period of time, do the following:

- Clean all filters
- Turn on the fan function until the unit dries out completely
- Turn off the unit and disconnect the power
- Remove batteries from the remote control

Pre-season inspection

After long periods of non-use, or before periods of frequent use, do the following:

- · Check for damaged wires
- Clean all filters
- Check for leaks
- Replace batteries in remote control
- · Check nothing is blocking the air inlets and outlets

Filter cleaning

The filter is held in place by retainers in the back of the air inlet. To access the filter you need to push the catches inwards to open the air inlet panel. Carefully slide the filter out.

- Clean using a soft brush and warm water. Dry and return the filter back into the unit. •
- •



Troubleshooting

Check the following information before making a service call as some performance characteristics are a normal part of operation. If you are still unsure or concerned after reading this section, please contact Rinnai on 0800 746 624.

Issue	Possible causes
Unit does not turn on when pressing the On/Off button	The unit has a three minute protection feature that prevents the unit from overloading. The unit cannot be restarted within three minutes of being turned off. Another possible cause could be a faulty remote, or the remote batteries need changing.
Unit changes from cool/heat mode to fan mode	The unit may change its setting to prevent frost from forming on the unit. Once the temperature increases, the unit will start operating in the previously selected mode again.
	The set temperature has been reached, at which point the unit turns off the compressor. The unit will continue operating when the temperature fluctuates again.
Indoor unit emits a white mist	In humid regions, a large temperature differential between the room's air and the conditioned air can cause a white mist.
Indoor and outdoor units emit a white mist	When the unit restarts in 'heat' mode after defrosting, white mist may be emitted due to moisture generated from the defrosting process.
Noisy indoor unit	A rushing sound may occur when the louvre resets its position.
	A squeaking sound may occur after running the unit in 'heat' mode due to the expansion and contraction of the unit's plastic parts.
Noisy indoor and outdoor unit	Low hissing sound during operation. This is normal and is caused by the refrigerant gas flowing through the indoor and outdoor units.
	Low hissing sound when the system starts, has just stopped running, or is defrosting. This noise is normal and is caused by the refrigerant gas stopping or changing direction.
	Squeaking sound. This is normal expansion and contraction of the plastic and metal parts of the unit due to temperature changes during operation.
Noisy outdoor unit	The unit will make different sounds based on its current operating mode.
Dust is emitted from indoor or outdoor unit	The unit may accumulate dust during extended periods of non- use, which will be emitted when the unit is turned on. This can be mitigated by covering the unit during long periods of inactivity.
Unusual smell	The unit may absorb odours from the environment, such as paint, cooking, cigarettes, etc., which will be emitted during operation and cleaning.
Outdoor unit fan does not operate	During operation the fan speed is controlled to optimise operation.
Operation is erratic or unit is unresponsive	Interference from cell phone towers and remote boosters may cause the unit to malfunction. If this occurs try disconnecting the power and then reconnecting, and pressing the on/off button on the remote to restart operation.

Issue	Possible causes	Solution
Poor cooling performance	Temperature setting may be higher than the ambient room temperature	Lower the temperature setting
	Heat exchanger on the indoor / outdoor unit is dirty	Service person required to clean the heat exchanger
	Air filter is dirty	Remove the filter and clean
	Air inlet or outlet of either unit is blocked	Turn the unit off, remove the obstruction and turn it back on
	Doors and windows are open	Make sure doors and windows are closed while the unit is on
	Excessive heat generated by sunlight	Close windows and curtains during periods of high heat or bright sunshine
	Low refrigerant due to leak or long- term use	Service person required
	Too many sources of heat in the room (people, electronics, etc.)	Reduce amount of heat sources
The unit starts and stops	Too much or too little refrigerant in the system	Service person required
frequently	Malfunctioning compressor	Service person required
Poor heating performance	Cold air is entering through doors and windows	Make sure all doors and windows are closed during use
	The outdoor temperature is extremely low	Use a secondary heating source
	Low refrigerant due to leak or long- term use	Service person required

LED screen flashing or displaying an error code

Operational codes such as 'CL' (clean filter), 'nF' (replace filter), and dF (defrost) etc. are a normal part of operation. The screen may also display an error code. Error codes begin with letters and then numbers, for example:

- E(x), P(x), F(x)
- EH(xx), EL (xx), EC(xx)
- PH(xx), PL(xx), PC(xx)

Sometimes an error code will resolve itself. If not turn the unit off, turn off the mains power to the unit, wait a few minutes, then turn everything back on. If the error code remains contact your installer or Rinnai for advice.

Heat Pump / Air Conditioner Limited Warranty

Rinnai brings you peace of mind with a:



6-year parts and labour



This warranty applies to residential Rinnai Heat Pump / Air Conditioner product purchased from September 2019. All terms of the warranty, subject to the conditions below, are effective from the date of first purchase. The attending service person reserves the right to verify this by requesting a copy of the electrical certificate of compliance prior to commencement of any warranty work. Proof of purchase and installation date will be required at the time of any warranty claim. Installation must be completed by a Rinnai accredited installer.

This warranty is only valid within the country of purchase.

Equipment defects covered by this warranty will be repaired or replaced at the discretion of Rinnai NZ without cost to the owner for parts or direct labour repair. The repair or replacement shall be performed during normal business hours by an authorised Rinnai service centre.

HEAT PUMP / AIR CONDITIONER SYSTEM		ALL OTHER PARTS	
Parts	Labour	Parts	Labour
6 years ¹	6 years	6 years	6 years

¹ The Rinnai NZ heat pump / air conditioner equipment is warranted against defects in design, materials and workmanship for a period of 6 years from the date the equipment is purchased by the original owner.

General warranty terms

Rinnai reserves the right to make modifications and change specifications and its parts without notice.

For the purposes of the Consumer Guarantees Act 1993, Rinnai only guarantees the availability of repair facilities and spare parts for the express warranty period recorded in the table above.

This warranty does not limit any consumer rights or guarantees that may apply under the Consumer Guarantees Act 1993. If the product is being acquired for the purposes of a business, the provisions of the Consumer Guarantees Act 1993 do not apply and no other warranties (either express or implied by law) apart from those stated in the warranty will apply.

Owners responsibility

- 1. Operation and maintenance of the equipment in accordance with the operating instructions.
- 2. Regular cleaning of the air filter(s) and replacement where necessary.
- 3. Ensuring that the air inlet and outlet on the outdoor unit is kept clear of any obstructions and clear of dust buildup, dirt, debris and plant matter.
- 4. Ensuring that the condensate drain is kept clear of obstructions.
- 5. Application of additional corrosion protection if the product is installed in a corrosive environment (for example: sea air, high sulphur content, industrial pollution).
- 6. Replacing expired batteries or other consumables as required.

Warranty terms and conditions

- All terms of the warranty are effective from the date the equipment is purchased by the original owner. The attending service person reserves the right to verify this by requesting a copy of the electrical certificate of compliance prior to commencement of any warranty work. The installer must issue a certificate of compliance by law in New Zealand. Warranty claims may be invalid if not accompanied by details of the Rinnai NZ Accredited Installer.
- 2. All Rinnai products must be installed, commissioned, serviced, repaired and removed in accordance with the manufacturer's installation instructions, local regulations, and building codes by persons authorised by local regulations to do so.
- 3. All Rinnai products must be operated and maintained in accordance with the manufacturer's operating instructions.
- 4. Servicing of the product is to be carried out by a Rinnai authorised service centre.
- 5. The warranty applies only to the components supplied by Rinnai. It does not apply to components supplied by others, such as electrical switches, electrical cables, fuses, isolating valves, pipework, thermostats, but it is not limited to these.
- 6. Where the appliance has not been sited in accordance with the installation instructions or installed such that normal access is difficult, a service charge will apply. If at the discretion of the attending service person the installation is deemed illegal or access is dangerous, service will be refused. Any work required to gain reasonable access to the appliance will be chargeable by the attending service person (for example, the use of special equipment to move components).
- 7. Any Rinnai parts or equipment replaced under this warranty will be warranted in accordance with the provisions of this warranty for the remainder of the original warranty or for a period of twelve (12) months from the completion of the repair, whichever is greater.
- 8. Rinnai reserves the right to transfer functional components from defective product if they are suitable.
- 9. Rinnai reserves the right to have installed product returned to the factory for inspection.
- 10. Where a system is installed outside the metropolitan area or further than 40 km from a Rinnai NZ accredited installer or authorised service centre, travel and freight charges (inclusive of insurance) shall be the owner's responsibility.

Warranty exclusions

The following exclusions may cause the warranty to become void and will result in a service charge and costs of parts (if required).

- 1. Accidental damage, defects or failure caused by acts of nature, fire, wind, lightning, flood, storm, hail storm fallout, vandalism, earthquake, war, civil unrest, misuse, abuse, negligence, pests, animals, pets, insects, or entry of foreign objects or matter into the product such as dirt, debris, soot or moisture.
- 2. Failure due to abuse or misuse, improper maintenance or improper storage.
- 3. Failure due to incorrect or unauthorised installations.
- 4. Failure or damage caused by alterations, service or repair work carried out by persons other than Rinnai NZ accredited installers, service persons or service centres.

Warranty exclusions continued

- 5. Where it is found that there is no fault with the product and the issue is related to the installation or is due to faulty or incorrect external electrical wiring, incorrect power supply, voltage fluctuations, or electromagnetic interference not originating within the equipment.
- 6. Damage or deterioration of external surfaces or refrigeration coils caused by normal weathering or corrosive atmospheric conditions.
- 7. Equipment that has been re-installed at a location other than the original location.
- 8. Product which has been installed in a portable or mobile building, structure or application, but not limited to, a caravan, boat, or trailer.
- 9. Product which has been installed in a non-habitable area such as an IT or server room.
- 10. Any consumable items such as batteries, filters or belts supplied with the equipment unless the item is shown to have been defective at the time of purchase.
- Subject to any statutory provisions to the contrary, Rinnai does not accept

 a. liability for consequential damage or incidental expenses resulting from any breach of the warranty.
 - b. claims for damage to building or any other consequential loss either directly or indirectly due to leaks from the appliance or any other faults.

Limitations

Third parties are often involved in providing advice to consumers about climate control solutions best suited to the consumer's needs. Any advice or recommendations given by such parties, including advice about product fitness for purpose and overall system design, sizing and application are not the responsibility of Rinnai. This includes but is not limited to the heat load calculations, airflow and system balancing.

Geographical climate zones—Rinnai New Zealand Ltd does not exclude this product from installation in colder climatic zones but cannot guarantee appliance heating performance at temperatures below zero.

Purchase details

Record your purchase details below

	ATTACH YOUR PROOF OF PURCHASE HERE:	$\overline{}$
Retailer:	_	
Retailer address:		
Date of purchase:	_	
Product details:		
	_	
Please keep these details in a safe place for future reference.		

Register your unit online

Register your unit online at **www.rinnai.co.nz/register/**. You'll need to know the model, and also the serial number. The website will help guide you as to where this information can be found.

Warranty claim

Please contact Rinnai as soon as possible after the defect and/or fault has been detected.

To make a warranty claim, contact Rinnai on 0800 RINNAI (0800 746 624) or email info@rinnai.co.nz.



Tel: 0800 746 624 http://www.youtube.com/rinnainz http://facebook.com/rinnainz