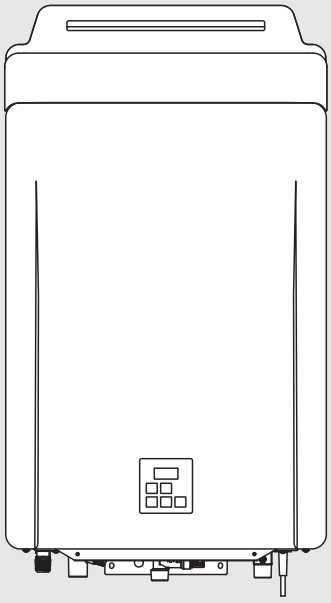
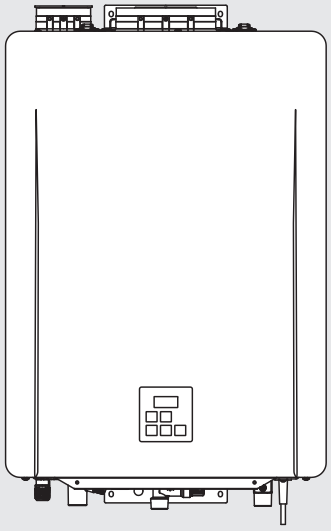
MODELS:

NB56kWe external	(REU-NB3237WC-ZK)
NB56kWi internal	(REU-NB3237FFC-ZK)





INFINITY NB-Series continuous flow water heaters

Installation guide

Rinnai

Important

This appliance must be installed in accordance with:
- Manufacturer's installation instructions
- Current AS/NZS 3000, AS/NZS 3500, AS/NZS 5601.1 and G12/AS1

For use with Natural Gas or Universal LPG as indicated on the appliance.

Not suitable as a spa or swimming pool heater.
Not suitable for hydronic applications.

Appliance must be installed, commissioned and serviced by an authorised person, being in New Zealand a licensed gasfitter.

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).

Rinnai New Zealand Limited
105 Pavilion Drive, Mangere, Auckland
PO Box 53177, Auckland Airport, Auckland 2150

Phone: (09) 257-3800
Email: info@rinnai.co.nz
Web: rinnai.co.nz
youtube.com/rinnainz
facebook.com/rinnainz

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Appliance location 5
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Water controller installation 17

Before installation:

- Unpack the appliance and check for damage. DO NOT install any damaged items.
- Check all components have been supplied.
- Get an overview of the steps required before starting the installation. Failure to follow these instructions could cause a malfunction of the appliance. This could result in serious injury and property damage.
- These instructions apply only to the Rinnai NB-Series continuous flow water heater models listed on the cover page of this guide.

Specification

Designed and made in Japan, the Rinnai INFINITY NB-Series are condensing continuous flow gas hot water heaters with inbuilt frost protection. They have electronic ignition and require electricity to operate. The internal unit is a room sealed appliance.

The INFINITY NB-Series units are factory preset to 50 °C. They can be preset to deliver higher temperatures, up to 85 °C, making them ideal for commercial applications.

Specification summary
- Colour Silver
- Input 16-209 MJ/h
- Output 55.8 kW
- Efficiency 97 %
- Gas type NG or ULPG[1]

[1] The NB-Series models are universal, allowing the gas type (and location type) to be configured during installation through the commissioning process.

Suitability
Primarily designed for commercial applications, but can be used for larger hot water capacity residential projects.

Capacity
Hot water capacity 1.0-42 litres per minute.

Nominal water capacity 32 litres per minute at a 25 °C rise (1920 L/h).

Connections

Hot water outlet	R¾ (20 mm)
Cold water inlet	R¾ (20 mm)
Gas supply	R¾ (20 mm)
Condensate	R½ (15 mm)

Exhaust system: Forced flue

Ignition system: Direct electronic ignition.

Line pressures
NG: 1.13-3.0 kPa LPG: 2.75-3.0 kPa

Standing and flowing pressure must be less than 3.0 kPa.

Ingress protection rating: IPX5

Power consumption
- Normal: 92 W (NG), 98 W (LPG)
- Automatic frost protection: 140 W
- Standby: 2.3 W

Noise level
NB56kWi 46 dB(A), NB56kWe 56 dB(A)

NOx af: Less than 50 ppm

Safety devices
- Flame failure
- Boil-dry protection
- Overheat protection (OHS)
- Pressure relief valve
- Combustion fan rpm check

Water supply
Nominal operating pressure: 300-1000 kPa
Minimum water flow: 1.0 litre per minute

Weights
- 25 kg - NB56kWi internal
- 27 kg - NB56kWe external

Internal model flueing
The internal NB-Series models MUST USE Rinnai flue components—use of non approved flue components will result in a dangerous installation.

The Rinnai NB-Series flue system must be installed in accordance with the Rinnai flue installation manual provided with the flue kit and/or components. Refer to the flue manual for more information and flue configuration options.

Frost protection
Frost protection operates automatically, as long as the appliance is connected to the electrical power supply, by activating when the temperature around the unit drops below 3.5 °C[1], and turns off once the temperature inside the unit reaches 7 °C[1].

[1] Approximate temperatures

Appliance location

This appliance MUST BE placed as close as possible to the most frequently used hot water outlet(s) to minimise the delay for hot water delivery[1]. For installations where the distance between the water heater and outlets is considerable, a flow and return system can be used to minimise the waiting time for hot water delivery. Alternatively multiple appliances can be strategically placed to serve outlets with minimal delay.

An AC 230 V, 10 A earthed power point must be provided adjacent[2] to the appliance. This power point must be weatherproof. 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 m.

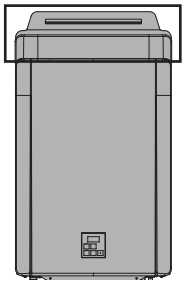
All appliances MUST BE installed to ensure access can be gained without hazard or undue difficulty for maintenance and servicing. Sufficient clearances shall allow access and removal of all serviceable components. Appliances should not be mounted more than 2.5 m above the ground or floor level unless the customer can arrange permanent and safe access, or can provide another means of safe access.

The appliance MUST BE mounted on a vertical structure with the water and gas connections on the underside pointing downwards.

Location of the flue terminal MUST BE in accordance with Section 6 and Figure 6.2 of AS/NZS 5601.

Outdoor (external) models

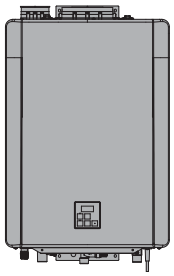
This appliance is designed for outdoor installations only. It MUST BE located above ground in open air with natural ventilation, without stagnant areas, where gas leakage and products of combustion can be rapidly dispersed by wind and natural convection.



The external unit MUST HAVE the outdoor vent cap installed (as pictured), as it is essential for the unit's operation as an outdoor model. Fitting instructions are detailed on the following pages.

Indoor (internal) models

This appliance is for indoor installations only. They may be installed in an enclosure if the requirements of AS/NZS 5601.1 are satisfied. An enclosure is defined as a compartment, enclosed area or partitioned off space primarily used for the installation of the appliance.



- DO NOT install in areas where contaminated air is present.
- Consider, before installation, where air has the ability to travel within a building.
- Where possible, install the heater in a sealed space so that it is free of contaminated indoor air.

It is important a suitable drained catch pan is fitted where damage could be caused by discharge from the water heater. Provision must be made for safe disposal of any leaking water to an external location.

This appliance MUST BE used with the appropriate Rinnai flue system.

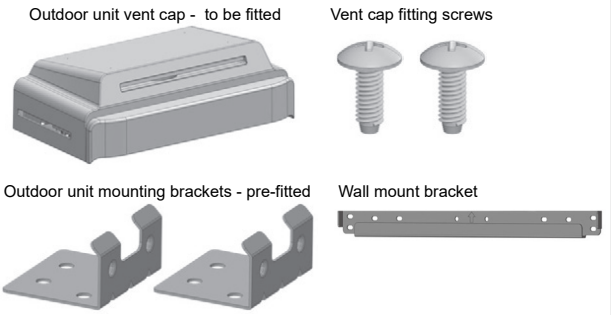
[1] Rinnai recommend a maximum pipe run of 10 m.
[2] Power point can be within the pipe cover if a pipe cover is installed—must comply with AS/NZS Wiring rules

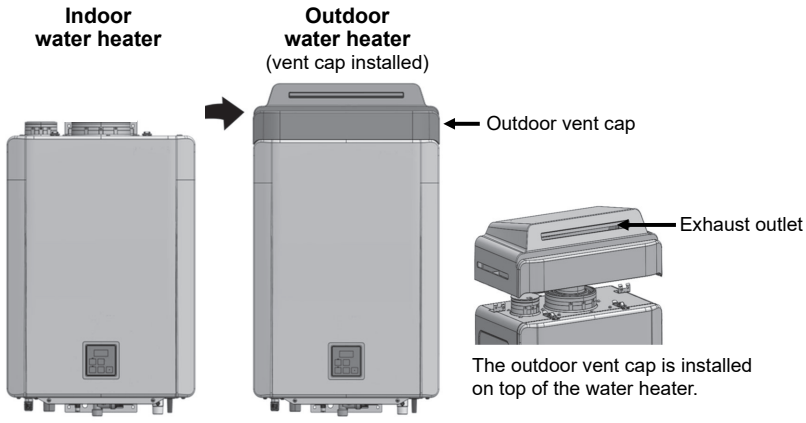
General installation information

Carton contents / item checklist

The table below lists the items included in the packaging. Before proceeding, ensure all necessary components for the model installation have been provided.

Description / quantity		Ext. unit	Int. unit
Outdoor unit vent cap	1	✓	x
Mounting brackets	2	✓	x
Vent cap fitting screws	2	✓	x
Wall mount bracket	1	✓	✓
Pre-wired mini plug	1	✓	✓
Gas type label	1	✓	✓
Location label	1	✓	✓
Manuals	2	✓	✓





Securing the Rinnai INFINITY

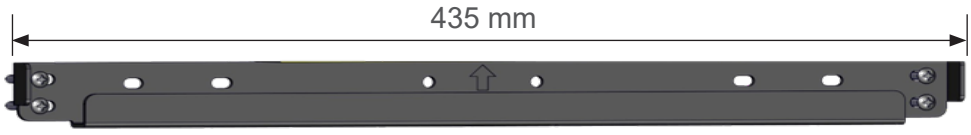
The wall structure on which the units are mounted MUST BE capable of supporting the weight of the appliance (25 / 27 kg) and associated pipe work.

Ensure that suitable fixing screws or bolts are used to secure the wall mount bracket, or if not using, the unit to the wall. In accordance with AS/NZS 5601.1 section 6, wooden plugs shall not be used.

If not using the wall mount bracket the top bracket of the water heater has a keyhole slot so that it can be positioned by hanging it on one screw. Once in position the appliance can be secured with appropriate fixings. For bracket dimensions refer pages 10-11.

Wall mount bracket

The wall mount bracket is common to both models. It allows the water heater to be lifted and hooked over the bracket, holding it in position, and then allowing the unit to be secured in place.



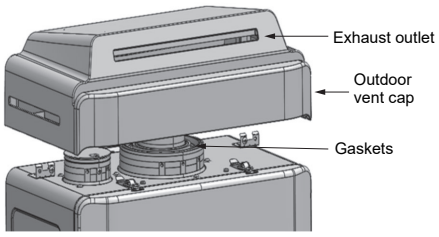
The appliance can be mounted directly against the wall or structure. There is no need to use non-combustible sheeting or leave an air gap between the appliance back panel and the wall or structure to meet the temperature hazard requirements of AS/NZS 5601.1.

External unit - vent cap installation

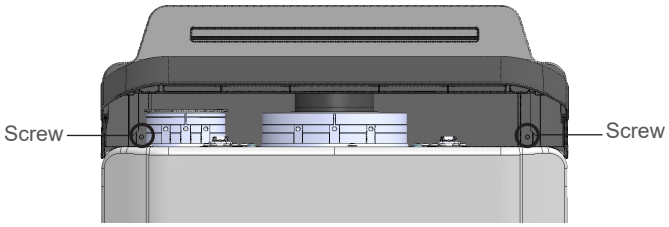
IMPORTANT

Mount the water heater to the wall, using the wall mount bracket **before** installing the outdoor unit vent cap. If the vent cap is installed first, it will prevent you from securing the water heater to the wall using the upper mounting bracket.

1. Inspect gaskets prior to installing the outdoor vent cap. Ensure the exhaust outlet faces the front of the water heater and the outdoor vent cap is fully inserted on top of the unit.

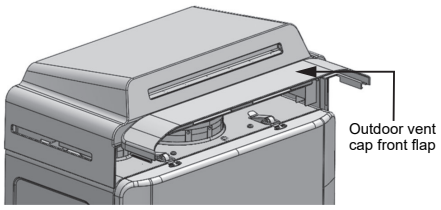


2. Open the front flap of the vent cap. Secure vent cap to the water heater with the two screws supplied.



3. Close the front flap.

In high winds, the front flap may blow open, which can negatively affect the unit's performance. Advise the homeowner to check the front flap in high winds and close if necessary.



Pipe sizing

If the gas pipe sizing is insufficient the appliance won't perform properly. Gas pipe sizing must consider the gas input into this appliance as well as 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 5601.1 should be used. Refer p. 4 for gas consumption details.

Water pipe sizing and layout should be performed in accordance with AS/NZS 3500. All hot water pipe work should be insulated to optimise performance and energy efficiency.

Water supply

The appliance is intended to be permanently connected to the water mains.

Refer p.4 for operational water pressure limitations. Approved pressure limiting valves may be required if the maximum rated water supply pressures are exceeded. To achieve the rated flow, the minimum water supply pressures must be met. The water heaters will operate at lower pressures but will not achieve the rated flow. Contact Rinnai for gravity fed or low pressure installations.

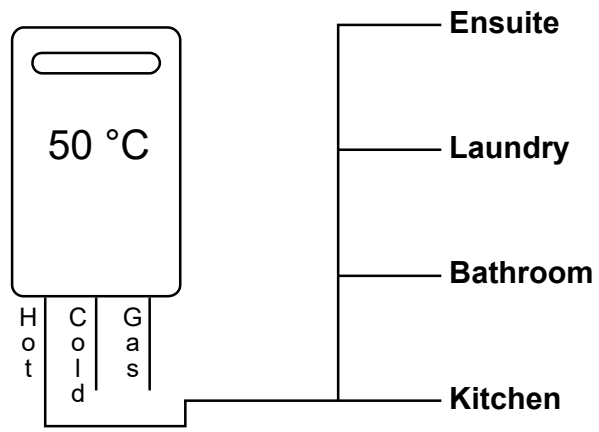
Water chemistry and impurity limits are detailed in the operation guide within the warranty section. Most metropolitan water supplies fall within these requirements.

If you are unsure about the water quality contact your water authority. If sludge or foreign matter is present in the water supply, a suitable filter or strainer is required in the water supply to the water heater to prevent unwarranted damage and loss of performance.

Water delivery temperature

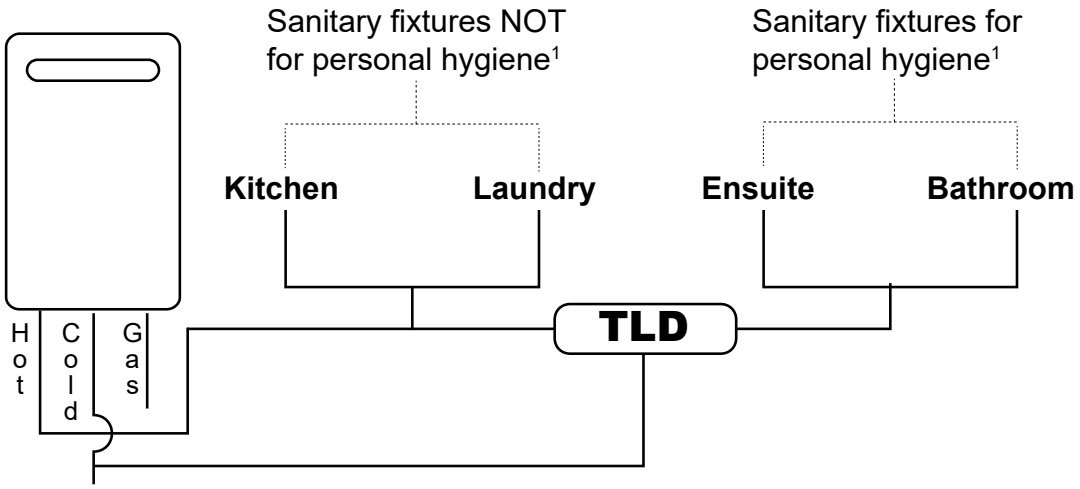
Rinnai INFINITY units installed without controllers

Diagram 1: Appliance set internally to 50 °C



NOTE Minimum length of pipe from hot outlet to nearest sanitary fixture **for personal hygiene** - two metres.

Diagram 2: Appliance set internally to greater than 50 °C

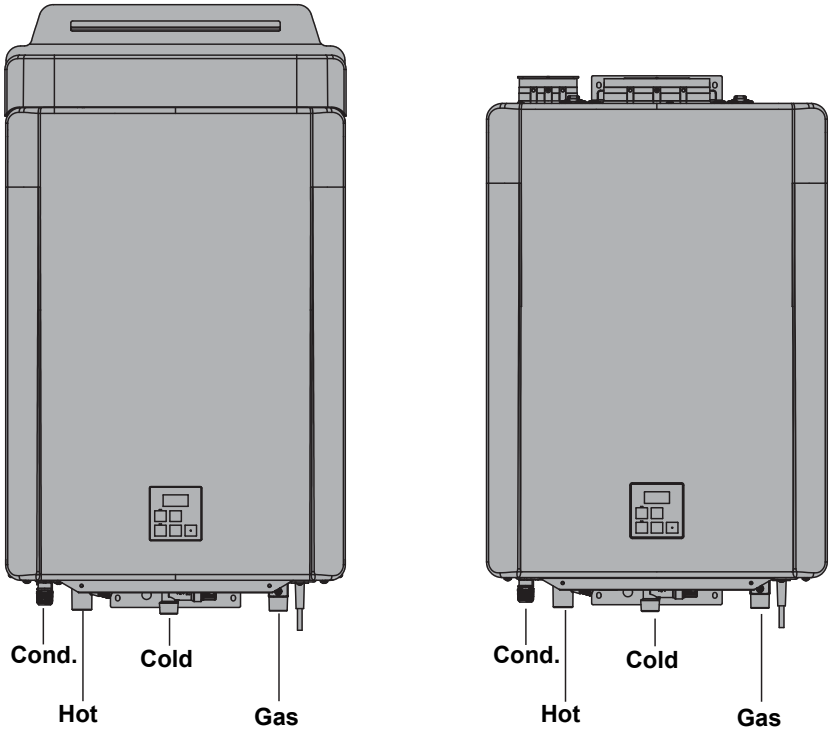


(TLD = Temperature Limiting Device[2])

[1] Refer G12/AS1 6.14.1

[2] Refer G12/AS1 tables 8A and 8B for suitable valves for the application. For tempering valves of 8B ensure the manufacturer specifies them as suitable for use with continuous flow water heaters.

Connections and fittings



Condensate connection		**Hot water connection**	
From centreline	181 mm	From centreline	130 mm
From wall	135 mm	From wall	158 mm
From bottom of unit	34.7 mm	From bottom of unit	41.2 mm
Cold water connection		**Gas connection**	
From centreline	9 mm	From centreline	142 mm
From wall	91 mm	From wall	72 mm
From bottom of unit	47.5 mm	From bottom of unit	43 mm

Model	Gas consumption MJ/h	Water Supply kPa Min.	Max.	Weight kg	Fittings Hot	Cold	Gas	Cond.
NB56kWe (external) REU-NB3237WC-ZK	16-209	300	1000	27 kg	R¾ (20 mm)	R¾ (20 mm)	R¾ (20 mm)	R½ (15 mm)
NB56kWi (internal) REU-NB3237FFC-ZK	16-209	300	1000	25 kg	R¾ (20 mm)	R¾ (20 mm)	R¾ (20 mm)	R½ (15 mm)

Service connection points

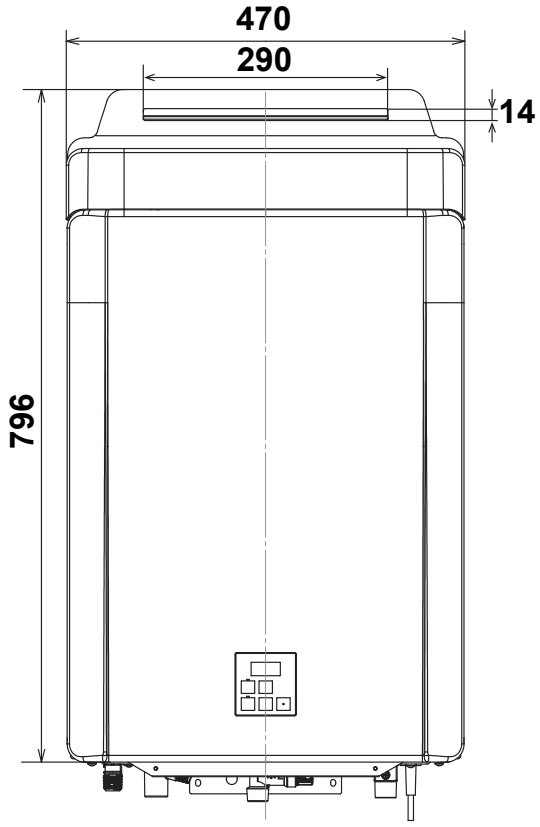
An approved full flow isolation valve and disconnection union MUST BE fitted to the cold water inlet. A non-return valve is not required unless required by local regulations.

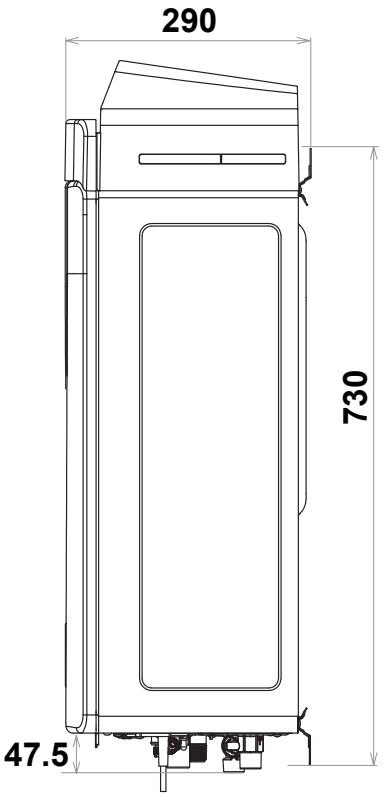
Isolation valves MUST NOT be fitted directly to the appliance.

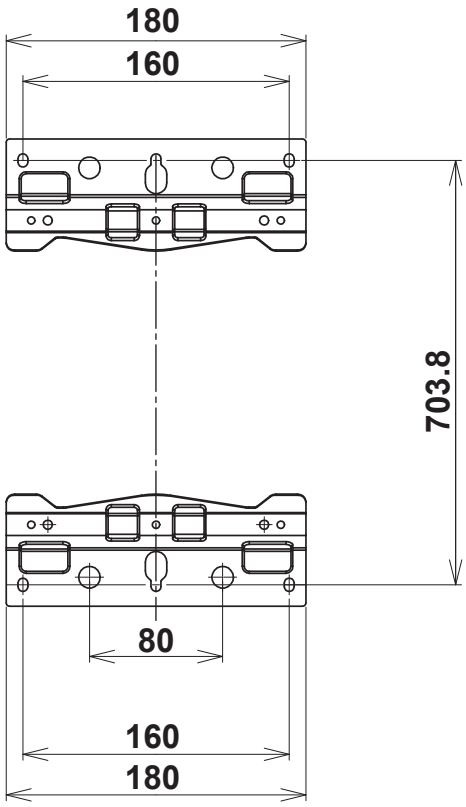
It may be necessary to fit a temperature limiting device for delivery to areas used primarily for the purposes of personal hygiene, refer previous page for ‘Water delivery temperature’ information.

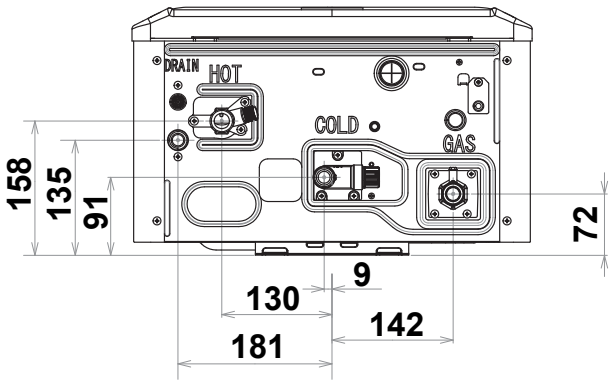
Purge gas and cold water supply lines to remove air and swarf before final connection. Swarf in the gas or water supplies may cause damage, a common problem, which is not covered by warranty.

Dimensions - NB56kWe (external)

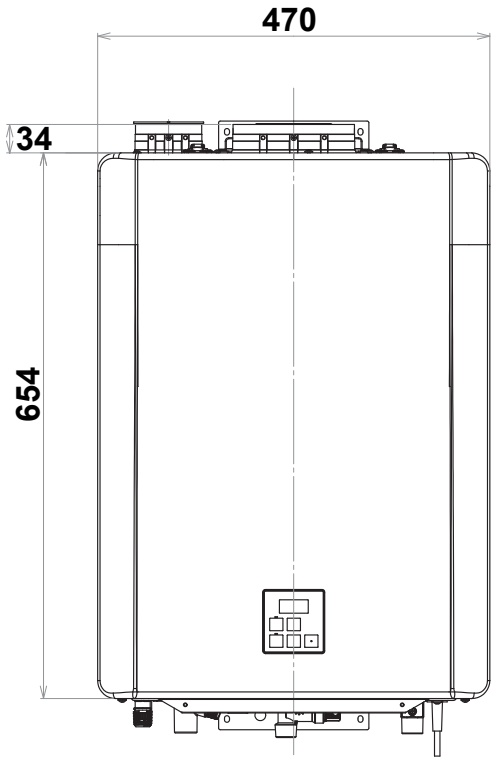


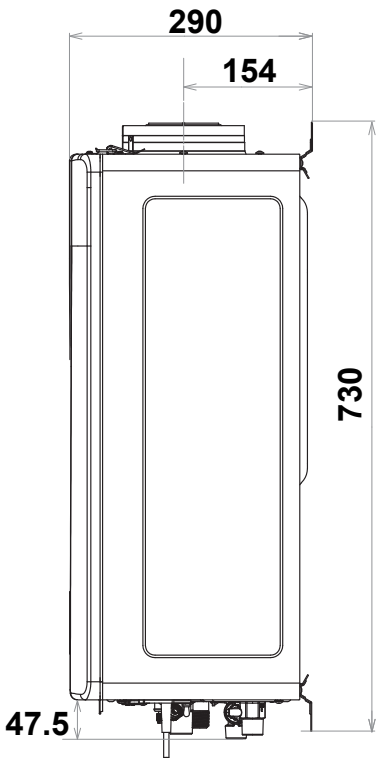


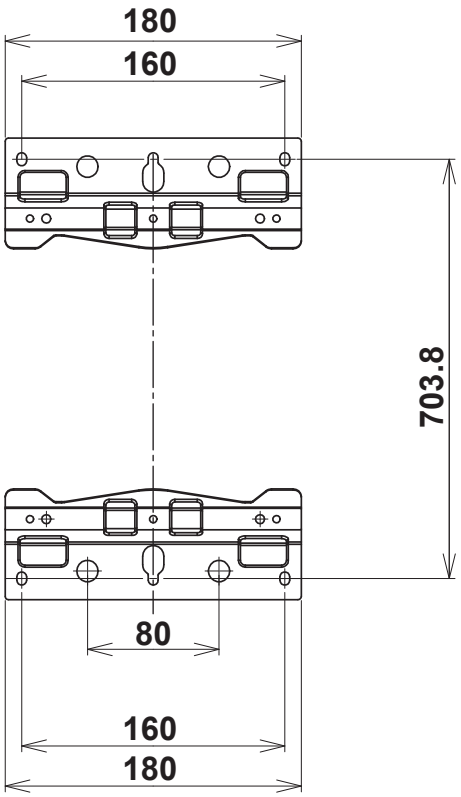


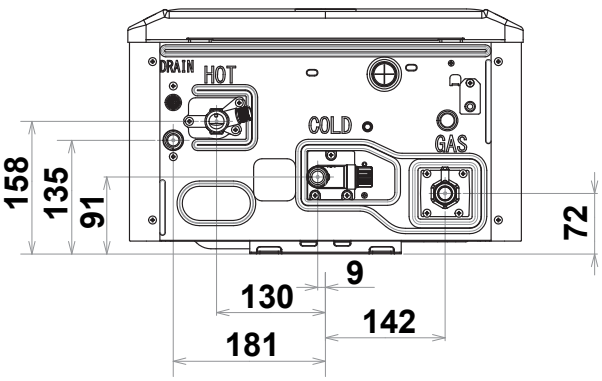


Dimensions - NB56kWi (internal)







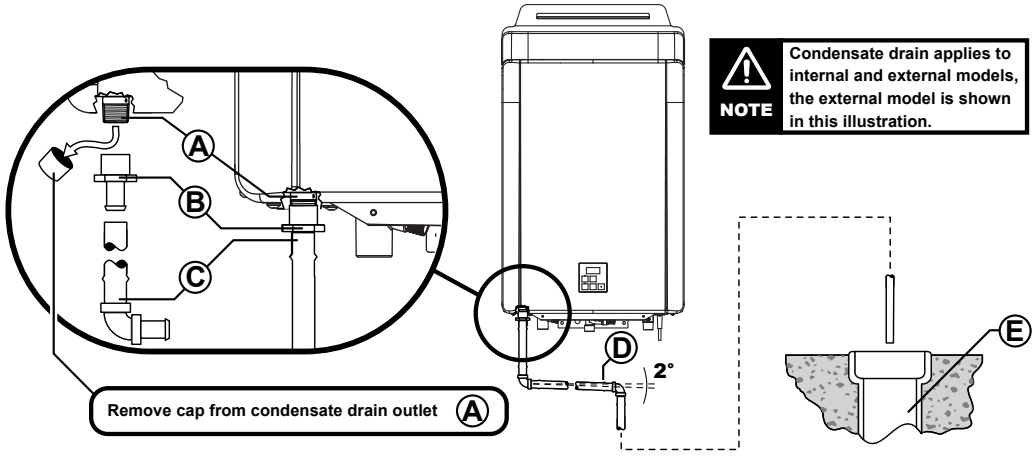


Condensate

The Rinnai INFINITY NB-Series water heaters generate condensate continuously at a rate of up to 7 litres per hour as a by-product of a highly efficient gas burner. This condensate must be drained via a pipe to a suitable point of discharge. As condensate is a by-product of gas combustion it is mildly acidic. For this reason copper tube MUST NOT be used as it will corrode. Instead Rinnai recommend plastic pipes and fittings.

Important considerations for the condensate drain pipe

The content of AS/NZS 3500 'Temperature / Pressure Relief and Expansion Control Valve Drain Lines' has been used as a guide in preparing the information below.



A. Water heater drain outlet connection, R½" (15 mm) BSP male. Condensate drain outlet connection, ½" (15 mm) BSP male nylon.

N.B: The black plastic shipping cap MUST BE removed from the condensate drain outlet prior to water heater operation.

B. PE R½" BSP (15 mm) female to barbed irrigation system connector (13-19 mm) or equivalent plastic fitting[1].

C. Drain pipe and fittings to match B.

D. Continuous fall of at least 2° from water heater to discharge point. Lengths and bends in accordance with the table below.

Lengths and changes of direction				
Max. length (m)	9	8	7	6
Max. changes of direction greater than 45°	3	4	5	6

E. Suitable points of discharge are deemed to be drains, sewers or pits. DO NOT discharge onto electrical connections, earth stakes, copper pipes, concrete paths or into a pond.

Installation

The drain line MUST NOT discharge onto electrical connections, earth stakes, copper pipes, concrete paths or into a pond.

The point of discharge from each drain line shall be located so that the release of condensate does not cause a nuisance, is readily discernible and incurs no risk of damage to the building.

There shall be no tap, valve or other restrictions in any line.

Each line shall fall continuously from the valve to the approved point of discharge.

Drain lines shall not discharge into a storage water heater safe tray.

The end of the condensate line shall be:

- Not lower than 200 mm or higher than 300 mm above an unpaved surface; or
- Not lower than 75 mm, or higher than 300 mm above a gravel pit not less than 100 mm in diameter in a paved surface.
- Where discharging over a tundish or gully trap, drain lines shall have an air gap of a size at least twice the diameter of the drain line.

[1] Non-PE plastics will fail over time due to contact with the acidic condensate. Damage caused by installation of non-PE plastics will not be covered by warranty.

Interconnection of condensate drain lines
Condensate drain lines from multiple water heaters may be joined together provided they conform with the requirements detailed on the previous page.

Common stack discharge
Where individual water heaters are installed in a multi-storey building, the condensate drain lines may discharge into a common stack, subject to the following:

- The discharge from the common stack is to a tundish, having a discharge line, that is not less than the size of the common stack, directly connected to a fixture trap, and installed in connection with any adjacent soil or waste stack.

- The discharge point of the common stack is such that any discharge is readily visible and will not cause any nuisance.

- The common stack is vented by extending the pipe upwards, above the roof level.

Tundish drain lines
The drain line from any tundish shall not be less than DN 20 or less than one size larger than that of the largest drain line discharging into a tundish. Tundish drain lines shall comply with the requirements detailed on the previous page.

Areas subject to freezing
In areas where water pipes are prone to freezing, the drain pipe from any valve shall be insulated and not exceed 300 mm in length. It shall discharge into a tundish through an air gap of not less than 75 mm and not more than 150 mm measured from the outlet of the drain pipe to the rim of the tundish.

Commissioning

AS/NZS 5601.1, clauses 2.6.8 and 6.11, states that every part of a gas installation shall be commissioned prior to initial use. It is the installer's responsibility to do this. If the appliance can not be adjusted to perform correctly call 0800 RINNAI (0800 746 624) for assistance.

WARNING The appliance operation must be tested after installation. Ensure the building occupants do not have access to the hot water outlets during this procedure.

The Rinnai INFINITY NB-Series are factory preset with an outlet temperature of 50°C. The regulator and solenoid are also pre-set and electronically controlled. Do not adjust the regulator or solenoid valve, as no further adjustments are necessary.

1. Flush water pipes and gas line: Before final connection of the water heater, flush the gas, hot and cold water supply lines. Swarf in the gas or water supplies may cause damage, a common problem, which is not covered by warranty.

2. Connect the gas line and purge the line of air.

3. Final connection test.

4. Check supply pressure: Step 1: Measure the static gas pressure with no appliances running. Step 2: With all gas appliances running, measure the inlet pressure at the water heater. The pressure drop between step 1 and step 2 must not exceed that selected when sizing the gas supply pipe and must read between 1.13-3.0 kPa on Natural gas and on LPG 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 installer's responsibility to check the gas meter, service regulator and pipe work for correct operation and sizing, and rectify as required.

5. Programming and activation requirements: NB models are universal and require configuration of gas type and location upon initial power-up. It is recommended to complete these settings within the first 20 minutes, as certain safety features will activate afterwards. Refer to the commissioning instructions on the back of the front panel inside the appliance for more details.

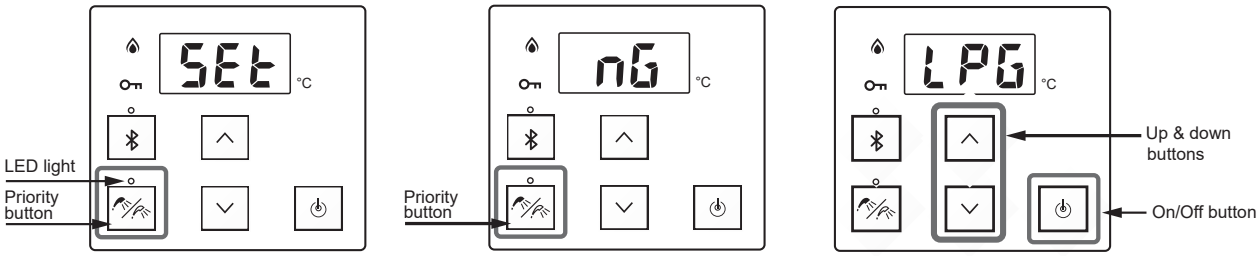
- The gas type MUST BE the same as the supplied gas.
- The location type must be configured to where the appliance is installed—indoors / outdoors.

WARNING If the correct settings are not programmed, it could create a hazardous situation, potentially leading to personal injury or property damage.

Supply power to the unit for the first time. The controller on the front of the water heater displays 'SEt' and the priority button LED on the controller is blinking.

Press the priority button to select the gas type. The controller displays 'nG' (Natural Gas). If the supplied gas is Natural Gas, press the On/Off button to confirm. Attach the Natural Gas label on the data plate of the water heater. If the gas type is not NG, press the up or down button to select the next gas type—LPG.

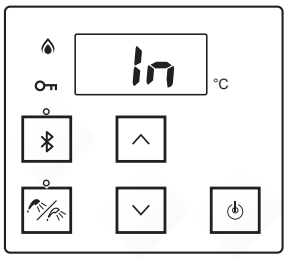
The controller displays 'LPG', press the On/Off button to confirm. Attach the LPG label on the data plate of the water heater. The controller will then move on to location settings.

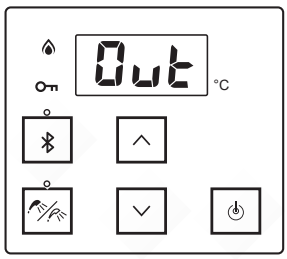


The controller displays ‘In’ (indoor). If installed indoors press the on/off button to confirm. If not use the up or down button to go to the next setting—Out.

The controller displays ‘Out’ (outdoor). If installed outdoors (with the vent cap) press the on/off button to confirm.

Important: Verify that the caution label on the unit, positioned near the data plate, matches the correct location. If not apply the correct location label (supplied with the unit).





Caution label



After this step the controller will alternate between displaying the gas type, and location type that has been set. If these need changing press the up button to go back through the settings, otherwise press the priority button to lock in the settings.

After pressing the priority button, the controller briefly displays ‘888’ and emits a beeping sound. Press the on/off button—programming and activation is completed.

If initial settings are not correct it can be adjusted by configuring the parameter settings, refer to the commissioning instructions for more information.

6. PCB setting checked: Refer p.16 for the PCB and interface layout and functions. PCB settings are checked against parameters listed in the commissioning sheet.

7. Operate and check for gas leaks: Replace the appliance front cover, operate and test for gas leaks using an electronic leak detector.

8. Operational test - water flow and temperature at the hot water outlets: Confirm the hot water delivery temperature using a thermometer.

If water controllers are fitted, it is necessary to test their operation through the complete range of functions, refer separate instructions provided with the water controllers.

9. Check cold water filter: Inspect and clean the water inlet filter. This may need to be repeated to ensure the filter remains clear, especially on new installations.

If you feel the customer is capable of doing this check it would be beneficial to show them how to inspect and clean the water filter as well.

10. Customer handover: After testing is completed, explain to the customer the function and operation of the water heater and water controllers (if fitted). Also talk to them about:

- The gas, power, and water connections
- How frost protection works
- Procedure for draining the water heater
- Where to find the data plate
- Maintenance and servicing

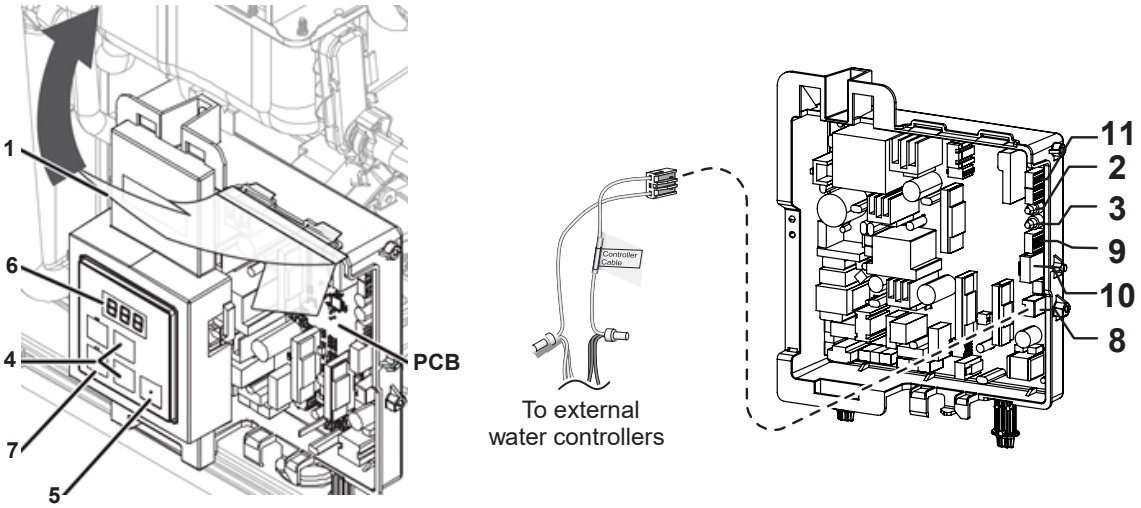
If the customer is not there try and contact them by phone to discuss these important points.

Ensure the installer details section is completed in the operation guide, the commissioning checklist has been completed and signed, and that the guide and checklist are left with the customer.

PCB interface and functions

Rinnai NB-Series water heaters are fitted with a mounted controller that is connected by a dedicated wiring harness to the PCB. The controller cannot be removed or relocated externally.

When the water heater is placed into programming mode the controller becomes the programming interface. When not in programming mode the controller has the same functions as the Compact controller.



1	Plastic PCB cover (interface layout guide)	Lift cover to gain access to PCB (DO NOT REMOVE)
2	Push button A (PB-A)	Mode button, places the PCB into programming mode
3	Push button B (PB-B)	DO NOT USE (PCB transfer or combustion setting mode)
4	Up/down buttons	Menu button, cycles through available menu options
5	On/Off button	Value button, cycles through available menu values
6	LED digital display	Displays menu and values
7	Priority button	During commissioning, it is used to initiate and complete the programming of gas and location type
8	Accessory port (controllers)	Used for connecting additional controllers
9	Accessory port (data transfer)	Data transfer
10	Accessory port (BMS)	BMS connection
11	Accessory ports (in / out)	Cascade cable connection (top - in, bottom - out)

Water controller installation

The maximum number of controllers that can be fitted to an NB-Series water heater is **three**, refer water controller configurations section below.

General information

Other manufacturers water controllers are NOT compatible with Rinnai water heaters. Water controllers MUST NOT be used with any solar boost water heater. Rinnai water controllers bought in from other countries are not compatible with Rinnai appliances sold in New Zealand.

Water controllers DO NOT contain serviceable parts and must only be serviced by an authorised person.

Master controller

Only one master controller can be designated as a ‘master’ water controller. This water controller is normally used in the kitchen. The remaining controllers are ‘sub-controllers’ and are for use in bathrooms, toilets, and laundries. The temperature limit for all sub-controllers is 50 °C, this is a safety feature, to reduce the risk of burns in these areas. A master controller MUST NOT be installed in a bathroom.

Water controller configurations

- A maximum of three Compact controllers (MC-601) can be fitted.
- Only one master controller can be installed. This can be a Kitchen Deluxe[1] (MC-145V), or any other Compact controller (MC-601).
- In addition to a master controller, up to two additional controllers can be fitted

[1] When a Kitchen Deluxe controller is fitted, it will always function as a master controller, this is the default setting and cannot be changed.

Controller location

- Do not install water 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 water controllers outdoors unless protection from water/dust ingress and sunlight are provided.
- Do not install water controllers in direct sunlight.
- Do not install water controllers against a metal wall unless the wall is earthed in accordance with AS/NZS 3000.
- Water controllers must not be installed where chemicals such as benzene, alcohol, turpentine, hydrogen sulphide, ammonia, chlorine or other similar chemicals are in use.

The water controller is water resistant, however excessive exposure to water may result in damage. Durability is improved when positioned OUTSIDE the shower recess.

- Avoid direct exposure to water or steam as these may cause the controller to malfunction.
- Water controllers must be installed in shaded and clean locations. They should be fitted out of reach of children (suggested height 1.5 m from the floor), and installed at least 400 mm above the highest part of a sink, basin or bath.

When cleaning your water controller use only a damp cloth and mild detergent.

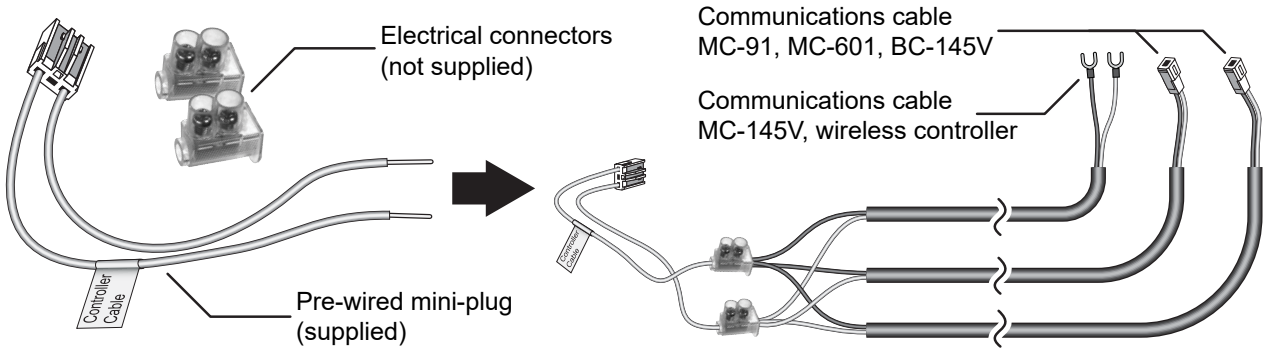
Communication cables
Wired water controllers operate at an extra low voltage (12 V DC), which is supplied from the water heater. A 10 m long communication cable is supplied for connection to the water heater. Only Rinnai supplied communication cables may be used.

Connecting communication cables to the mini-plug

CAUTION DO NOT attempt to connect water controller cables to the mini-plug when it is plugged into the PCB unless the power to the water heater is switched OFF, otherwise damage to electrical components may occur.

Water controllers are connected to the PCB by a dedicated pre-wired mini-plug.

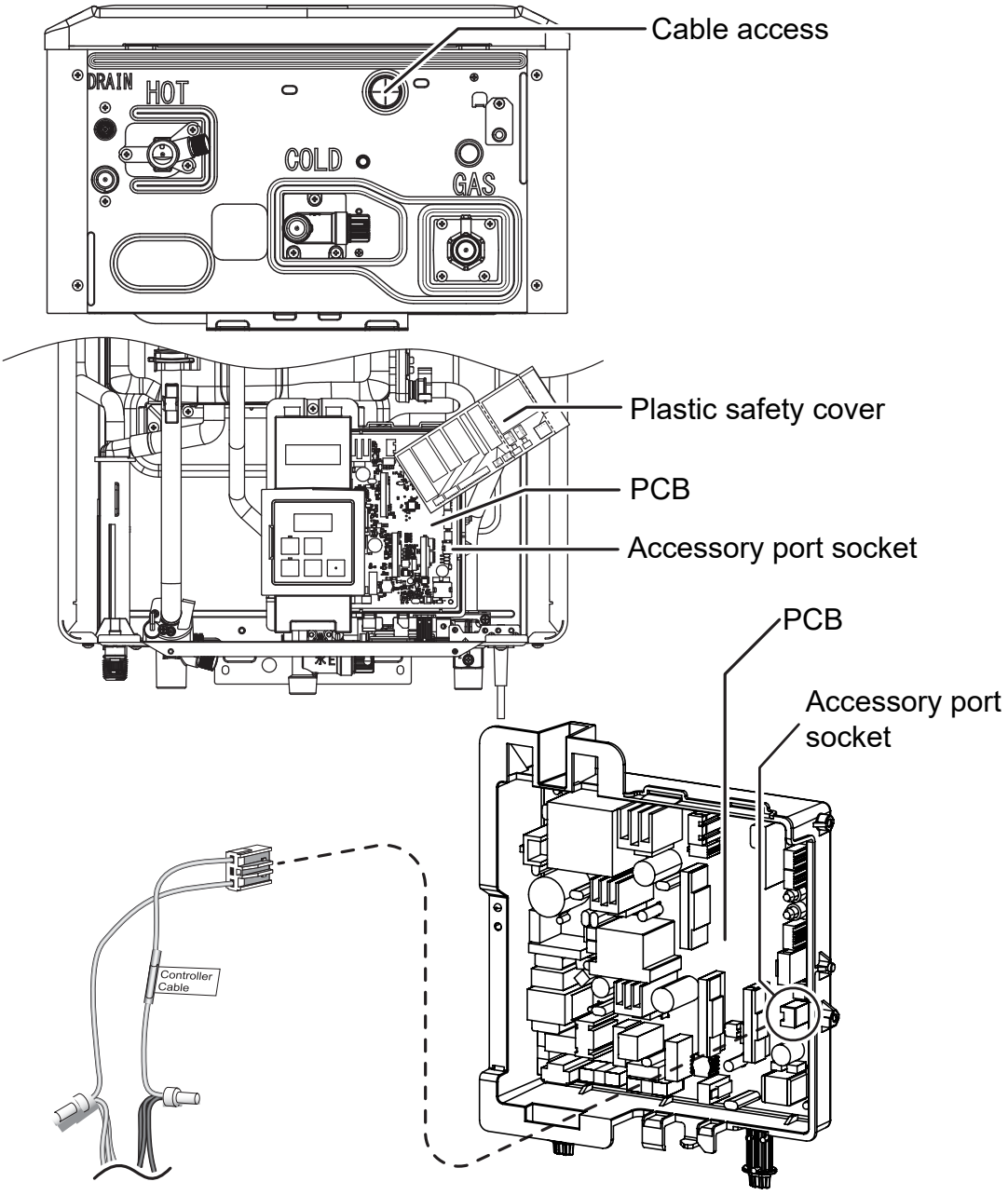
Standard electrical cable connectors can be used to terminate the water controller wires to those on the mini-plug. The existing spade connectors, of the communication cables, will need to be removed prior to termination. Controllers are not polarity sensitive, however to avoid confusion it is recommended that like coloured wires be terminated together.



Connecting communication cables to the PCB (refer image on next page)
DO NOT attempt to connect the mini-plug or water controller cables to the water heater unless the power to the water heater is switched OFF, otherwise damage to electrical components may occur.

1. Isolate the power supply by switching the power point off and removing the water heater plug from the power socket.
2. Remove the front cover of the appliance.
3. Insert the mini-plug and the connected water controller cables through the cable access at the base of the appliance. Ensure the cable connectors are located inside the appliance for protection.
4. Locate the PCB (bottom right of the appliance), and carefully lift the plastic safety cover out of the way.
5. Locate the accessory port socket (bottom front of PCB).
6. Plug the mini-plug into the accessory port socket, the plug and socket are keyed so that they can only be plugged into the one direction).
7. Proceed with the water controller installation and connect the communication cables to the controllers. Securely tighten the communication cables to the water heater by using the cable clamp and screw.

Connecting communication cables to the PCB



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