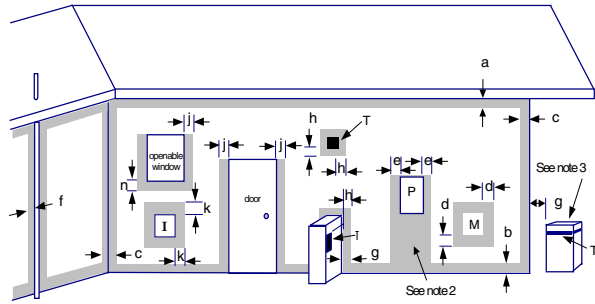


INSTALLATION – GENERAL (REU-3203W)

- The Infinity REU3203W is an externally mounted, power flued appliance. IT MUST ONLY BE FITTED OUTSIDE THE BUILDING.
- When determining a suitable position for the Infinity REU3203W, the length of hot water pipe runs should be taken into consideration. It is recommended that the Infinity be positioned as close as possible to the most often used taps or in a central; location between taps, showers etc. Alternatively, the REU3203W can also be fitted with a ‘flow and return loop’, which minimises the waiting time for hot water delivery. Contact Rinnai for further information.
- The location of the flue terminal must comply with the clearances shown in Figure 5.3 of AG601 / AS5601 – 2000 which is reproduced below. Note that AG601 / AS5601 – 2000 was current at the time of printing this document but may have been superseded. It is the installers responsibility that the current clearance requirements are met.
* FIGURE 5.3 MINIMUM CLEARANCES REQUIRED FOR TERMINALS, FAN-ASSISTED FLUE TERMINALS, ROOM –SEALED APPLIANCE TERMINALS OR THE TERMINALS OF OUTDOOR APPLIANCES



Ref.	Item	Min. clearances (mm)
		Fan assisted
a	Below eaves, balconies and other projections:	
	• Appliances up to 50 MJ/h input	200
	• Appliances over 50 MJ/h input	300
b	From the ground, above a balcony or other surface †	300
c	From a return wall or external corner †	300
d	From a gas meter (M) (see 4.7.11 for vent terminal location of regulator)	1000
e	From an electricity meter or fuse box (P)	500
f	From a drain pipe or soil pipe	75
g	Horizontally from any building structure † or obstruction facing a terminal	500
h	From any other flue terminal, cowl, or combustion air intake †	300
j	Horizontally from an openable window, door, non-mechanical air inlet, or any other opening into a building with the exception of sub-floor ventilation:	
	• Appliances up to 150 MJ/h input	300
	• Appliances over 150 MJ/h input up to 200 MJ/h input	500
	• Appliances over 200 MJ/h input	1500
	• All fan-assisted flue appliances, in the direction of discharge	1500
k	From a mechanical air inlet, including a spa blower	1000
n	Vertically below an openable window, non-mechanical air inlet, or any other opening into a building with the exception of sub-floor ventilation:	
	• Space heaters up to 50 MJ/h input	150
	• Other appliances up to 50 MJ/h input	500
	• Appliances over 50 MJ/h input and up to 150 MJ/h input	1000
	• Appliances over 150 MJ/h input	1500

† - unless appliance is approved for closer installation

NOTES:

1 All distances are measured to the nearest part of the terminal.

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

3 See Clause 5.13.6.6 for restrictions on a flue terminal under a covered area.

4 See Appendix J, Figures J2(a) and J3(a), for clearances required from a flue terminal to an LP Gas cylinder. A flue terminal is considered to be a source of ignition.

5 For appliances not addressed above, approval shall be obtained from the Authority.

Note: *Contact Rinnai for exemptions for the above clearances which may have been granted since printing of this document.

- A 240V weatherproof external earthed power point is required within 1500 mm of the Infinity.
- The Infinity REU3203W weighs 29 kg and the wall on which it is to be mounted must be capable of supporting it and the associated pipework. Ensure that suitable fixing screws or bolts are used to secure the Infinity to the wall. Bracket and fixing hole locations are shown overleaf.
- The top bracket has a keyhole slot so that the Infinity can be positioned by hanging it on one screw, then the other screws can be secured. After determining the most suitable position, fix the Infinity to the wall.

- Positions of the cold water inlet, hot water outlet and gas connections are shown overleaf. All connections are R ¾ (20mm). This is NOT an indication of the pipe sizes required. The Infinity 32 can use up to 250 MJ/h of gas. If the gas pipe sizing is insufficient the customer will not get the full performance benefit. The gas meter and regulator must also be correctly specified for this gas rate.
- Gas pipe sizing must be performed for each installation using an approved sizing chart (such as the one in AG601 / AS5601). Water pipe sizing should be performed in accordance with AS3500. Approved isolation valves MUST be fitted to both the cold water and gas inlets.

RECESS BOX

- The Infinity REU3203W can be ‘recessed’ into the wall for flush fitting reducing even further the space required. A custom made Rinnai Infinity Recess Box must be used for this purpose.

TEMPERATURE FLOW SWITCH (TFS02)

- The Infinity REU3203W can be fitted with the Rinnai Temperature Flow Switch (TFS02). This allows delivery of water at 50 °C to areas used primarily for personal hygiene, as detailed in AS3500.4.2 Clause 1.6.2. It must be fitted in accordance with the Installation Instructions provided with it.

REMOTE CONTROLS

- Remote Controls are an optional extra. ‘Standard’ and ‘Deluxe’ controls can be fitted. Standard controls allow temperature selection only. Deluxe controls have temperature selection, bathfill and intercom functions.
- Both ‘Standard’ and ‘Deluxe’ controller versions have ‘kitchen’ and ‘bathroom’ models. ‘Kitchen’ controls are intended for the kitchen or other convenient area where the majority of hot water is used. Bathroom controllers are intended to be fitted conveniently close to the shower recess, in the bathroom, en-suite or other area where the user requires priority over water temperature selection. All Bathroom controllers enable the user in the shower/bath area to lock in the selected water temperature, so that the temperature cannot be changed from another controller. Deluxe bathroom controllers also enable the user to have the bath filled to the required level and temperature automatically.

One kitchen controller and up to 2 bathroom controllers can be fitted as follows:

Standard Controllers’

Kitchen controller model MC33

Bathroom controller model BC45

Second Bathroom or (ensuite) controller model BSC45.

NOTE: The functionality and appearance of bathroom controller models BC45 and BSC45 are identical. However, the electrical configuration is different and when two ‘Standard’ bathroom controllers are fitted they must be a BC45 and BSC45.

Deluxe Controllers’

Kitchen controller model MC70

Bathroom and Second bathroom (or ensuite) controller model BC70

NOTE: When two ‘Deluxe’ bathroom controllers are fitted they are both BC70 models.

Positioning of Controllers

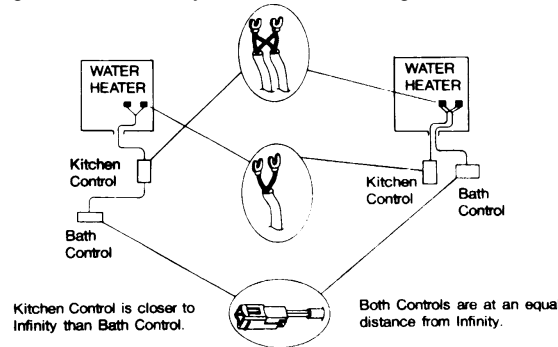
When deciding remote controls positioning, the following should be considered:

- The requirements of AS3000 – “SAA Wiring Rules”
- Fit the controls out of reach of children (suggested height from floor at least 1500mm)
- Avoid positions where the remote controls will become hot (eg. Over hot plates, near ovens or heaters)
- If possible, avoid direct sunlight (the Digital Monitor is difficult to read)
- Avoid fitting Remote Controls near cooking appliances where they may be subjected to oil splashing etc.
- Bathroom controllers are water resistant, however durability is improved when positioned outside a shower recess.
- When mounted against a metal wall, the wall must be earthed in accordance with AS3000.

Remote control cables

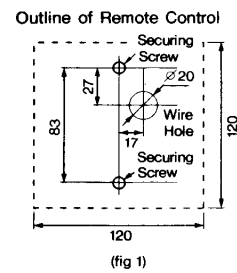
- Remote controls operate on 12V DC (extra low voltage), which is supplied from the Infinity unit. Controllers are supplied with 10 metres of electrical cable and connections. If more cable is needed, any multi-stranded cable with similar specification to the cable supplied can be used. Maximum cable length is 50m.
- Polarity (+ or -) does not need to be considered when connecting controllers. Either colour wire can be connected to either terminal at both the Infinity or kitchen controller.

- Cables can be individually run from each controller back to the Infinity, or can be connected in parallel (‘piggybacked’) to a common cable running back to the Infinity, as shown in the diagram below.

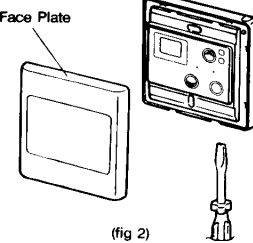


FITTING THE KITCHEN CONTROL MC-33

- Determine the most suitable position for the Remote Control. Consider access by children.
- Drill 3 holes in the wall, as shown, one for the cable and two for the securing screws. Ensure holes are level. (fig 1)
- Run the cable provided between the Remote Control and the Infinity water heater.

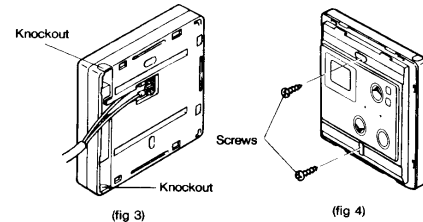


- Remove the faceplate from the Remote Control, using a screwdriver. (fig 2)



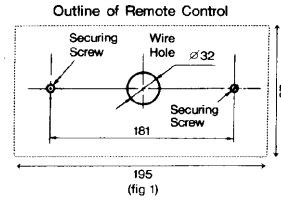
- Connect the cable to the Remote Control as shown. (fig 3) Either colour wire can be connected to either terminal.
- Note: If the cable cannot be run in wall cavity. In this case, the plastic “knockout” should be removed from the top or bottom of the Remote Control.

- Fix the Remote Control to the wall, and replace the faceplate. (fig 4)



FITTING THE BATH CONTROL BC-45/BSC-45

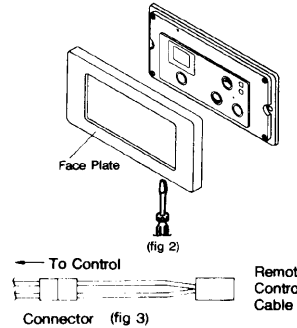
- Determine the most suitable position for the Remote Control. Consider access by children.



- Drill 3 holes in the wall, as shown, one for the cable and two for the securing screws. Ensure holes are level. Fit wall plugs if required (fig 1)

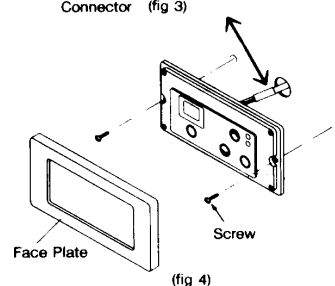
- Run the cable provided between the Remote Control and the Infinity.

- Remove the faceplate from the Remote Control using a screwdriver. (fig 2)



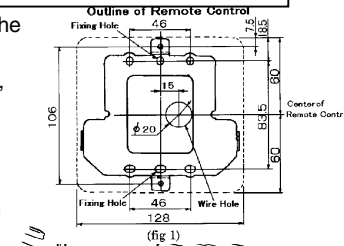
- Connect the BC-45 / BSC-45 Remote Control to the cable, using the end of the cable with the connector fitted. (fig 3)

- Fix the Remote Control to the wall, and replace the faceplate (fig 4)

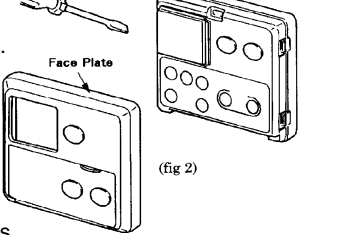


FITTING THE ‘DELUXE’ KITCHEN CONTROL MC-70

- Determine the most suitable position for the Remote Control.
- Drill 3 holes in the wall, as shown in Fig 1, one for the cable and two for the securing screws. Ensure holes are drilled. Fit wall plugs if required.
- Fix the mounting bracket to the wall using the screws provided

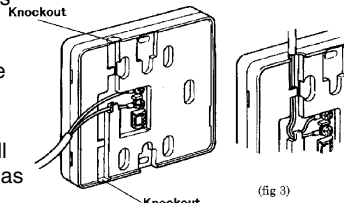


- Run the cable through the hole in the wall.

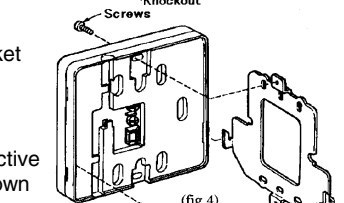


- Remove the face plate from the Remote Control, using a screw driver (fig 2)

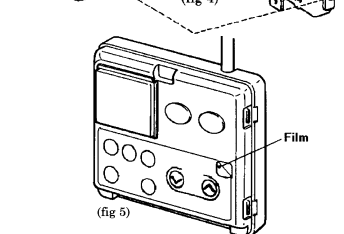
- Connect the cable to the kitchen remote control as shown in (fig 3). Connect cables from bathroom controllers (if fitted) to the kitchen remote control also (if required). Polarity is not important; either colour wire can be connected to either terminal.



- Note: If the cable cannot be run in the wall cavity, remove the plastic ‘knockout’ lugs as shown in Fig 3



- Fix the Kitchen controller to the wall bracket and fasten with phillips head screws supplied (M4 x 12) as shown in Fig 4

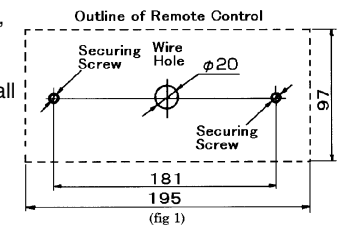


- Open the flip panel and remove the protective plastic film from the controller face as shown in Fig 5)

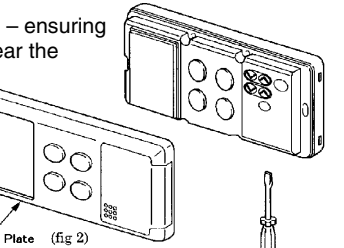
- Close the flip panel.

FITTING THE ‘DELUXE’ BATH CONTROL BC-70

- Drill 3 holes in the wall, as shown in Fig 1, one for the cable and two for the securing screws. Drill holes to ensure controller position will be level when installed. Fit wall plugs if required.



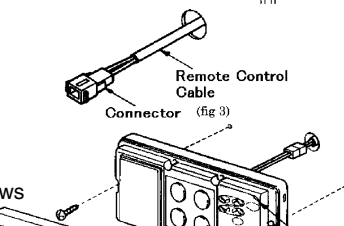
- Fix the mounting bracket to the wall using the screws provided



- Run the cable through the hole in the wall – ensuring that the end fitted with the connector is near the controller.

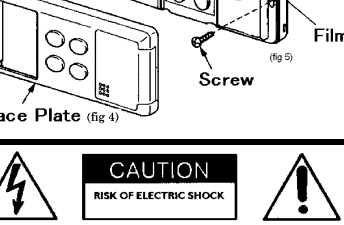
- Remove the face plate from the Remote Control, using a screw driver (fig 2)

- Connect the cable to the bathroom remote controller.



- Note: If the cable cannot be run in the wall cavity, remove the plastic ‘knockout’ lugs as shown in Fig 3

- Fix the bathroom controller to the wall bracket and fasten with phillips head screws supplied (M4 x 12) as shown in Fig 4



- Open the flip panel and remove the protective plastic film from the controller face as shown in Fig 5)

- Close the flip panel.



Bath Control
BC / BSC-45