

13. Check the burner test point pressure.

14. Adjust the high pressure Potentiometer (POT) on the Printed Circuit Board (PCB) as required to the pressure shown Table 2. (fig. 1)

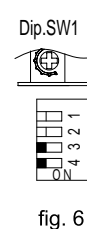


fig. 6

15. IMPORTANT: Set dip switches No's 3 and 4 of the SW1 set of dip switches to 'OFF' to return the appliance to 'Normal' combustion. (fig. 6)

16. Close hot water tap.

17. Turn OFF the gas supply and 240V power supply.

18. Remove pressure gauge, and replace sealing screw.

19. Turn 'ON' the gas supply and 240V power supply.

20. Operate unit and check for gas leaks at test point.

21. Replace cover of the appliance, ensuring that the screw with the star washer is placed at the bottom right hand corner for earthing purposes.

Appendix 1. MC 91-1A CONTROLLER PROGRAMMING

Is your water heater labelled "THIS APPLIANCE DELIVERS WATER NOT EXCEEDING 50°C IN ACCORDANCE WITH AS 3498" on the front cover?

IF YES: No further action required.

IF NO: You will need to program the kitchen controller to enable selection of temperatures higher than 50° C.

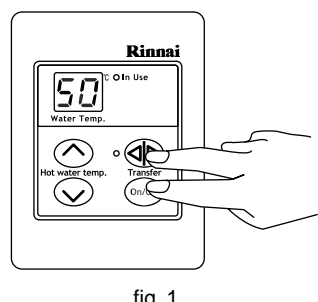


fig. 1

STEP 1: For the controller in the KITCHEN only, press and hold the 'Transfer' and 'On/Off' buttons simultaneously (see fig. 1) until a 'beep' is heard (approximately 5 seconds).

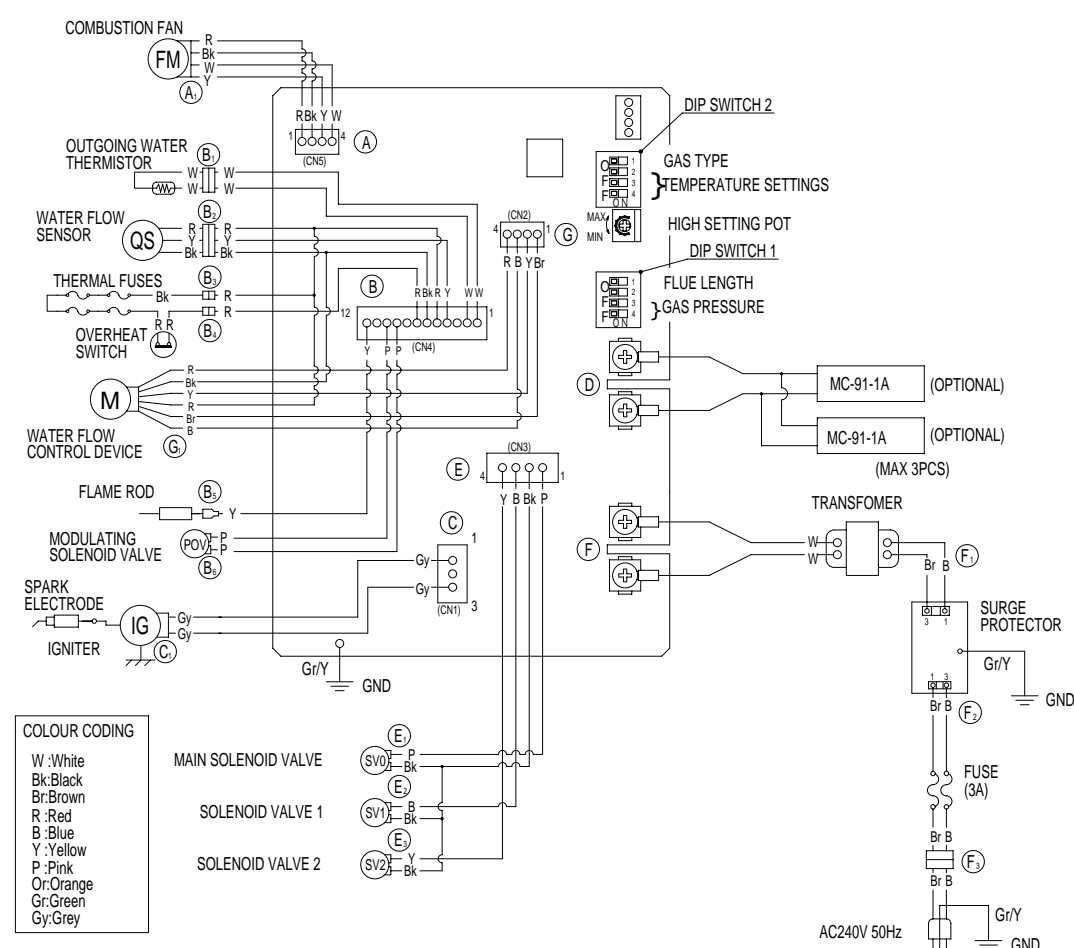
STEP 2: When the controller fitted in the KITCHEN is switched on, it should be possible to select temperatures higher than 50° C. If not, repeat Step 1.

Note:

• If the kitchen controller is replaced, repeat STEP 1 above for the replacement controller.

• If the kitchen controller is swapped with another controller (for example, the controller fitted in a bathroom), repeat STEP 1 for the controller moved from the kitchen to the bathroom. Then perform STEP 1 for the controller moved from the bathroom to the kitchen.

CIRCUIT DIAGRAM



COLOUR CODING

- W: White
- Bk: Black
- Br: Brown
- R: Red
- B: Blue
- Y: Yellow
- P: Pink
- Or: Orange
- Gr: Green
- Gy: Grey

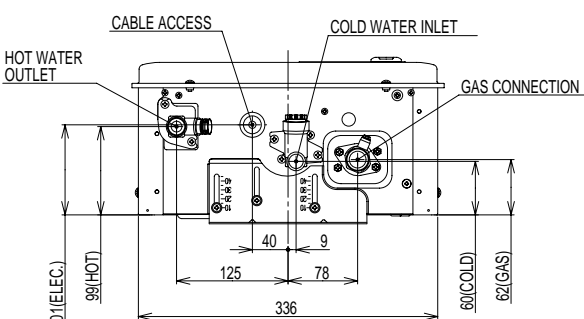
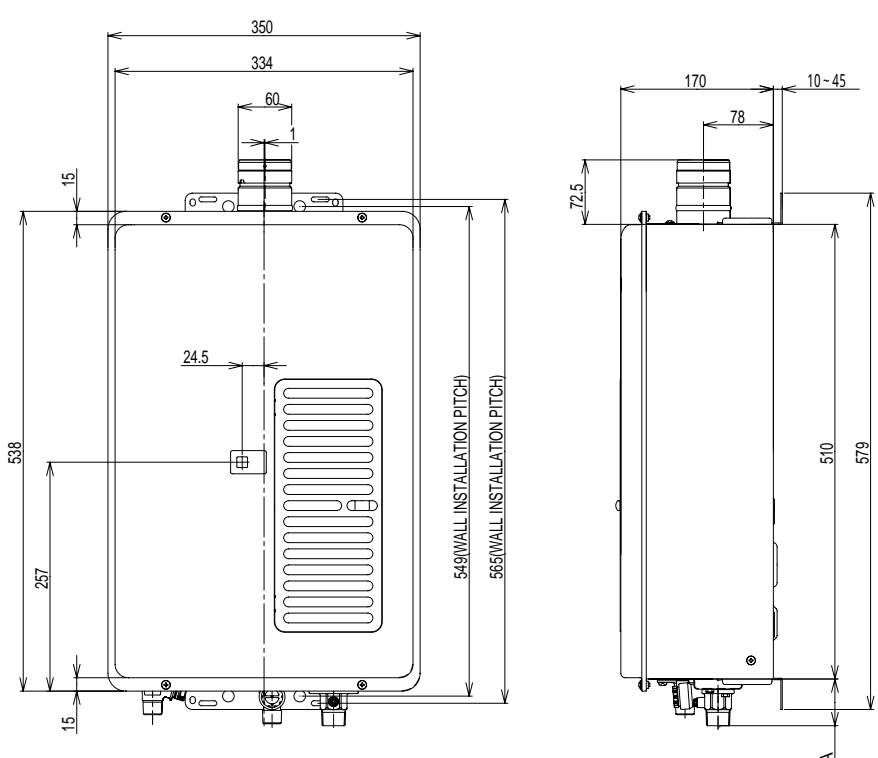
DIAGNOSTIC POINTS

FUSE GROUP No.	COMPONENT	MEASUREMENT POINT		NORMAL VALUE	A NOTE	
		CN	WIRE COLOUR			
1	SURGE PROTECTOR	F ₁	B-Br	AC207 - 264V		
2	WATER FLOW CONTROL DEVICE	G ₁	R/C-N2-NO.41-B	±DC11 - 13V (ONLY WHEN OPERATING)	OPERATE ELECTRICITY CONTROL ELECTRICITY	
			R/C-M-NO.51-Bk	DC11 - 13V	CONTROL ELECTRICITY	
			Bk-Y	BELOW DCTV(LIMITER ON) DC4 - 6V (LIMITER OFF)	FULL OPEN POSITION	
		Bk-Br	BELOW DCTV(LIMITER ON) DC4 - 6V (LIMITER OFF)	FULL CLOSE POSITION		
3	REMOTE CONTROL	D	(TERMINAL)	DC11 - 13V		
4	WATER FLOW SENSOR	B ₂	R-Bk	DC11 - 13V	ON2.4MIN (33Hz) OVER 138PULSE/MIN	
			Y-Bk	DC4 - 7V (PULSE 20 - 270Hz)	OFF 1.7L / MIN (128Hz) BELOW 138PULSE/MIN	
5	COMBUSTION FAN	A ₁	R-Bk	DC15 - 46V		
			Y-Bk	DC11 - 13V		
		W-Bk	GND	DC2 - 10V (20 - 420Hz)		
6	FLAME ROD	B ₅	Y-FLAME ROD	OVER DC1µA	FLAME CONDITION	
7	MODULATING SOLENOID VALVE	B ₆	P-P	DC2 - 15V 65 - 85		
8	OUTGOING WATER THERMISTOR	B ₁	W-W	15 °C ... 11.4 - 14.0k 30 °C ... 6.4 - 7.8k 45 °C ... 3.6 - 4.5k 60 °C ... 2.2 - 2.7k 105 °C ... 0.6 - 0.8k		
9	THERMAL FUSES	B ₃	R-R			
			R-Bk	BELOW 1		
10	IGNITER	C ₁	Gy-Gy	AC90 - 110V		
11	MAIN SOLENOID VALVE	E ₁	P-Bk	DC80 - 100V 1.3 - 1.6k		
12	SOLENOID VALVE 1	E ₂	B-Bk	DC80 - 100V 1.7 - 2.1k		
13	SOLENOID VALVE 2	E ₃	Y-Bk	DC80 - 100V 1.7 - 2.1k		

TRANSFORMER VOLTAGES AND RESISTANCES

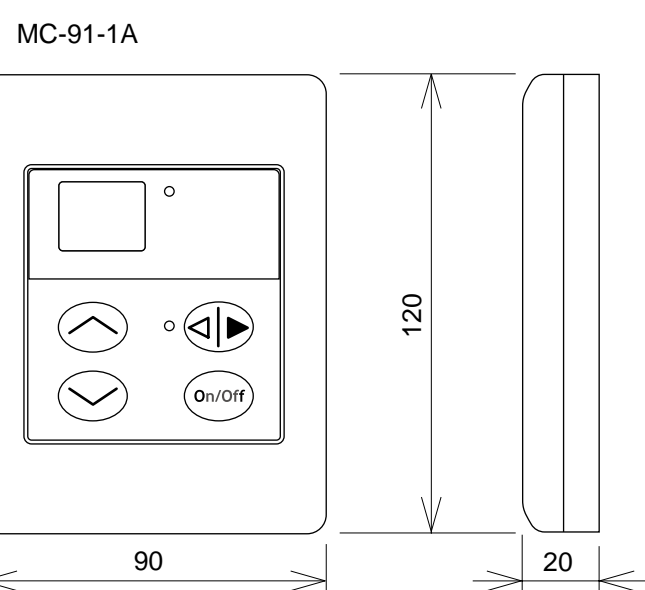
CN	WIRE COLOUR	NORMAL VALUE
F	W W	AC90 - 110V 11 - 13
F ₁	B Br	31 - 36

WATER HEATER DIMENSIONS



	A DIMENSION (mm)	CONNECTION
GAS	52	R 1/2 (20mm)
COLD	50	R 1/2 (15mm)
HOT	42	R 1/2 (15mm)
CABLE ACCESS	3	

REMOTE CONTROLLER DIMENSIONS



U243-1185(01)