REU-V2632WC

GAS PRESSURE SETTING AND DIAGNOSTICS INFORMATION

NOTE: For additional installation and commissioning information refer to Operation / Installation Manual

WARNING

THIS APPLIANCE MUST BE INSTALLED, SERVICED AND REMOVED BY AN AUTHORISED PERSON

DURING PRESSURE TESTING OF THE CONSUMER PIPING ENSURE GAS COCK SITUATED BEFORE UNIT IS SHUT-OFF.

FAILURE TO DO SO MAY RESULT IN SERIOUS DAMAGE TO THE APPLIANCE AND POSSIBLE INJURY.

APPLIANCE OPERATING PRESSURES (kPa)

Table 1.

	Water Inlet Min.	Gas Inlet Min./ Max.		Forced Low		Forced High	
		Nat.G	Prop.G	Nat.G	Prop.G	Nat.G	Prop.G
REU-V2626W REU-V2632WC	200	1.13 3.0	2.75 3.0	0.14	0.22	0.79	1.15

COMMISSIONING

With all gas appliances in operation at maximum gas rate, the flowing inlet pressure at the incoming test point on the Infinity should read 1.13 - 3.0 kPa on Natural Gas and 2.75 - 3.0 kPa on Propane Gas. If the pressure is lower, the gas supply is inadequate and the appliance unit will not operate to specification. Check gas meter, regulator and pipework for correct operation/sizing and rectify as required.

GAS PRESSURE SETTING

(Ensure gas pressure check under Commissioning has been completed first !)

The regulator is electronically controlled and factory pre-set. **Under normal circumstances it does not require adjustment during installation. Make adjustments only if the unit is not operating correctly and all other possible causes for incorrect operation have been eliminated.**

1. Turn 'OFF' the gas supply.
2. Turn 'OFF' 240V power supply.
3. Remove the front cover from the appliance.
4. Check gas type switches (Fig.1) are in the correct position (dip switch 1 of SW2 'ON' = NG, 'OFF' = LPG)

Note: 'ON' towards front, 'OFF' towards rear.

5. Attach pressure gauge to burner test point, located on the gas control. (Fig. 2).
6. Turn 'ON' the gas supply.
7. Turn 'ON' 240V power supply.
8. If remote controllers are fitted, turn the unit 'ON' at the kitchen controller, select the maximum delivery temperature and open all available hot water taps full including the shower.
   (**CAUTION:** Ensure building occupants do not have access to hot water outlets during this procedure).
9. Set the Infinity to 'Forced Low' combustion by setting No. 7 dip switch of the (SW1) set of dip switches to 'ON'. (Fig.3).
10. Check the burner test point pressure.
11. Remove rubber access plug and adjust the regulator screw on the modulating valve (Fig. 4) as required in Table 1. Replace rubber access plug.
12. Set the Infinity to 'Forced High' combustion by setting both No. 7 and No. 8 dip switches of the bottom (SW1) set to 'ON'. (Fig. 5). **Ensure maximum water flow !**
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 in Table 1.

IMPORTANT: Set dip switches 7 and 8 on the bottom (SW1) to 'OFF' to return the appliance to 'Normal' combustion. (Fig. 6).

15. Close hot water tap.
16. Turn 'OFF' the gas supply and 240V power supply.
17. Remove pressure gauge, and replacing sealing screw.
18. Turn 'ON' the gas supply and 240V power supply.
19. Operate unit and check for gas leaks at test point.
20. Replace the front cover of the appliance.

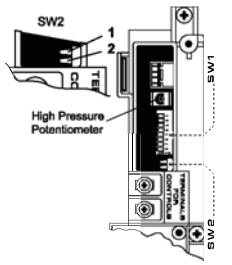


Fig. 1

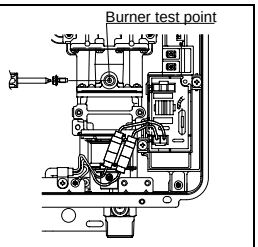


Fig. 2

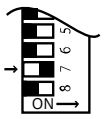


Fig. 3

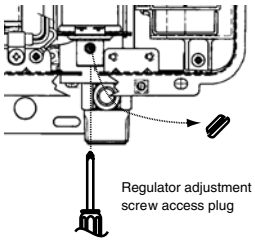


Fig. 4

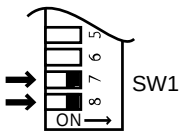


Fig. 5

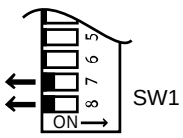
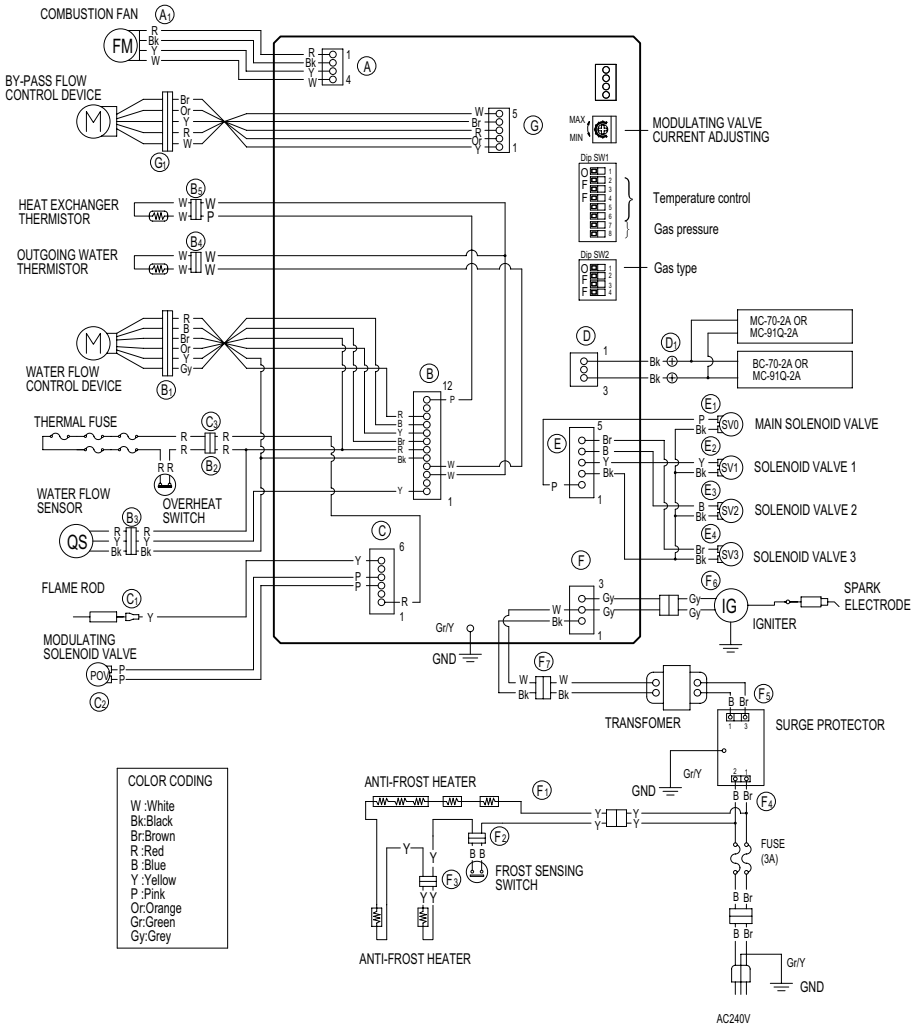


Fig. 6

CIRCUIT DIAGRAM AND DIAGNOSTICS POINTS



FLOW CHART No.	COMPONENT	MEASUREMENT POINT CN	MEASUREMENT POINT WIRE COLOR	NORMAL VALUE	NOTE
①	SURGE PROTECTOR	F_5	B-Br	AC207~264V	
② ⑯	WATER FLOW CONTROL DEVICE	B_1	R-B	DC11~13V	OPERATE ELECTRICITY
			Gy-Or	DC11~13V	CONTROL ELECTRICITY
			Gy-Y	BELOW DC1V(LIMITER ON) DC4~6V(LIMITER OFF)	FULL OPEN POSITION
			Gy-Br	BELOW DC1V(LIMITER ON) DC4~6V(LIMITER OFF)	FULL CLOSE POSITION
③	BY-PASS FLOW CONTROL DEVICE	G_1	Br-W Or-W Y-W	DC2~6V	OPERATE CONDITION
			R-W GND	15~35 Ω	
④	REMOTE CONTROL	D_1	Bk-Bk	DC11~13V	
⑤	WATER FLOW SENSOR	B_3	R-Bk	DC11~13V	ON2.7L/min (30Hz) OVER 1800PULSE/min
			Y-Bk GND	DC4~7V(PULSE 17~460Hz)	OFF2.0L/min (20Hz) BELOW 1200PULSE/min
⑥	COMBUSTION FAN	A_1	R-Bk	DC6~45V	
			Y-Bk	DC11~13V	
			W-Bk GND	DC5~10V(33~400Hz)	
⑦	FLAME ROD	C_1	Y-BODY EARTH	AC5~150V	AFTER IGNITION
			Y-FLAME ROD	OVER DC1μA	FLAME CONDITION
⑧	MODULATING SOLENOID VALVE	C_2	P-P	DC2~15V 67~81 Ω	

FLOW CHART No.	COMPONENT	MEASUREMENT POINT CN	MEASUREMENT POINT WIRE COLOR	NORMAL VALUE	NOTE
⑨	OUTGOING WATER THERMISTOR HEAT EXCHANGER OUTGOING THERMISTOR	B_4 B_5	W-W	15°C... 11.4~14.0 kΩ 30°C... 6.4~7.8 kΩ 45°C... 3.6~4.5 kΩ 60°C... 2.2~2.7 kΩ 105°C... 0.6~0.8 kΩ	
⑩	THERMAL FUSE	B_2 C_3	R-R	BELOW 1 Ω	
⑪	IGNITER	F_6	Gy-Gy	AC90~110V	
⑫	MAIN SOLENOID VALVE	E_1	P-Bk	DC80~100V 1.7~2.1k Ω	
⑬	SOLENOID VALVE 1	E_2	Y-Bk	DC80~100V 1.7~2.1k Ω	
⑭	SOLENOID VALVE 2	E_3	B-Bk	DC80~100V 1.7~2.1k Ω	
⑮	SOLENOID VALVE 3	E_4	Br-Bk	DC80~100V 1.7~2.0k Ω	ON MANIFOLD

TRANSFORMER VOLTAGES AND RESISTANCES

CN	WIRE COLOR	NORMAL VALUE
F_5	B-Br	16~18 Ω
F_7	W-Bk	AC90~110V