REU-V3237WG / REU-VM3237WC

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 Pressure (Min)kPa	Gas Inlet Pressure (Min. / Max.)kPa		Forced Low kPa		Forced High kPa	
		Nat.G	Prop.G	Nat.G	Prop.G	Nat.G	Prop.G
REU-V3237WG / REU-VM3237WC	200	1.13 3.0	2.75 3.0	0.183	0.234	0.797	0.983

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 water 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 No.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.

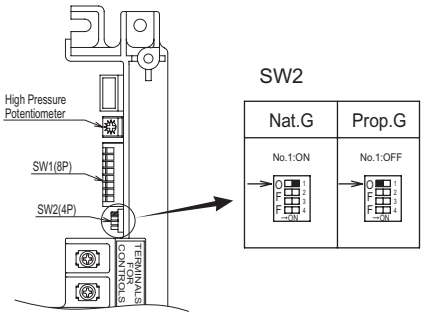


Fig. 1

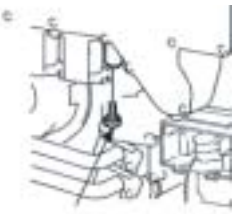


Fig. 2

Fig. 3

Fig. 4

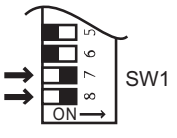


Fig. 5

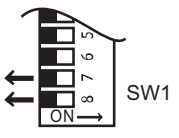
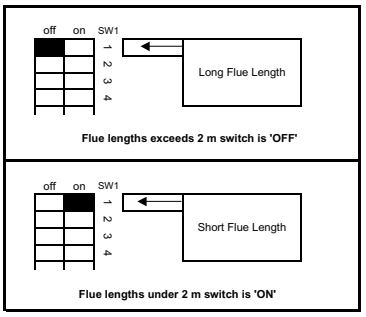


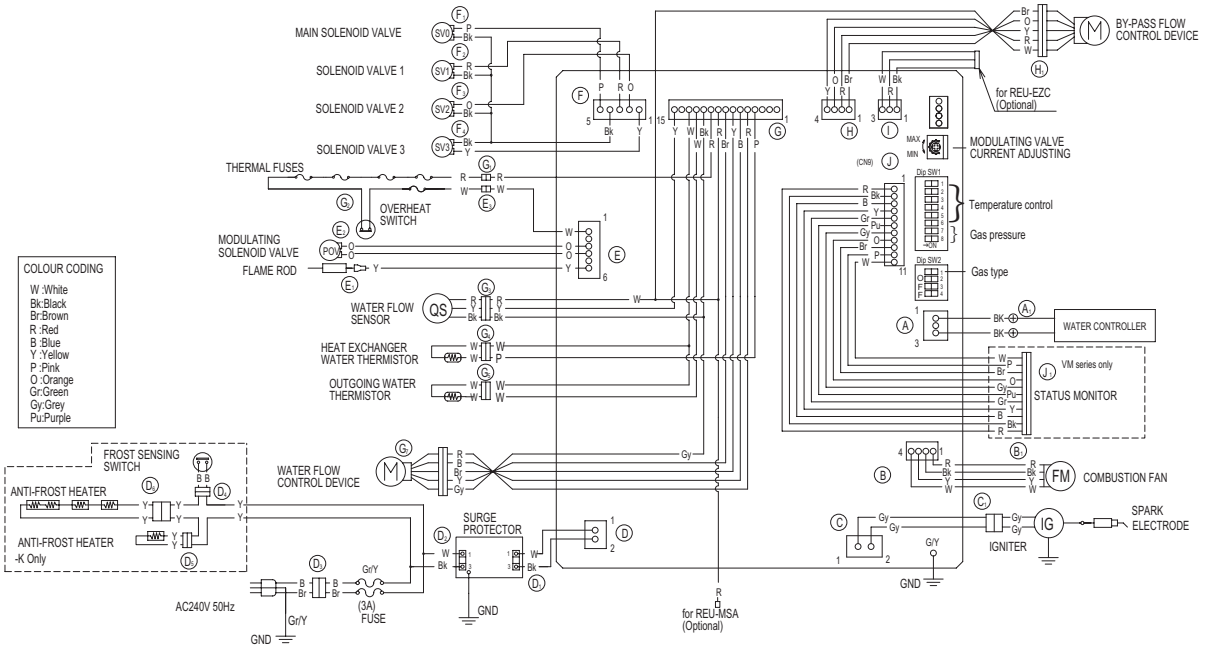
Fig. 6

DIP SWITCH FOR FLUE LENGTH (FF model only)

If flue length exceeds 2 metres, dip switch 1 of SW1 is to be switched to the **'OFF'** position.
If the flue length is less than 2 metres, dip switch 1 of SW 1 is to be switched to the **'ON'** position.



CIRCUIT DIAGRAM AND DIAGNOSTICS POINTS



FLOW CHART No.	COMPONENT	MEASUREMENT POINT CN	WIRE COLOUR	NORMAL VALUE	A NOTE
①	SURGE PROTECTOR	D_1	B-Br	AC207~264V	
②⑰	WATER FLOW CONTROL DEVICE	G_6	R-B	DC11~13V	OPERATE ELECTRICITY
			Gy-O	DC11~13V	CONTROL ELECTRICITY
			Gy-Y	BELOW DC1V(LIMITER ON)	FULL OPEN POSITION
				DC4~6V (LIMITER OFF)	
			Gy-Br	BELOW DC1V(LIMITER ON)	FULL CLOSE POSITION
				DC4~6V (LIMITER OFF)	
③	BY-PASS FLOW CONTROL DEVICE	H_1	Br-W O-W Y-W R-W GND	DC12V (OPERATING DC2~6V)	
				15~35Ω	
④	WATER CONTROLLER	A_1	Bk-Bk	DC11~13V	
⑤	WATER FLOW SENSOR	G_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	B_1	R-Bk	DC6~45V	
			Y-Bk	DC11~13V	
			W-Bk GND	DC6~45V (33~400Hz)	
⑦	FLAME ROD	E_1	Y-BODY EARTH	AC5~150V	AFTER IGNITION
			Y-FLAME ROD	OVER DC1μA	FLAME CONDITION
⑧	MODULATING VALVE	E_2	P-P	DC2~15V 67~81Ω	

FLOW CHART No.	COMPONENT	MEASUREMENT POINT CN	WIRE COLOUR	NORMAL VALUE	A NOTE
⑨	OUTGOING THERMISTOR	G_5	W-W	15°C··· 11.4~ 14.0kΩ 30°C··· 6.4~ 7.8kΩ 45°C··· 3.6~ 4.5kΩ 60°C··· 2.2~ 2.7kΩ 105°C··· 0.6~ 0.8kΩ	
⑩	HEAT EXCHANGER OUTGOING THERMISTOR	G_4	W-P		
⑫	THERMAL FUSE	G_1	R-R	BELOW 1Ω	
		E_3	W-W		
⑬	IGNITER	C_1	Gy-Gy	AC207~264V	
⑭	MAIN SOLENOID VALVE	F_1	P-Bk	DC11~13V 37~43Ω	
⑮	SOLENOID VALVE 1	F_2	R-Bk	DC11~13V 37~43Ω	
⑯	SOLENOID VALVE 2	F_3	O-Bk	DC11~13V 37~43Ω	
⑰	SOLENOID VALVE 3	F_4	Y-Bk	DC11~13V 35~41Ω	

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