REU-V2632FFU / REU-V2632FFUC

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-V2632FFU / REU-V2632FFUC	140	1.13 3.0	2.75 3.0	0.16	0.21	0.80	1.06

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 above 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 & 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.

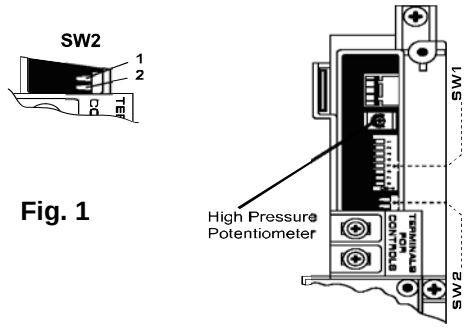


Fig. 1

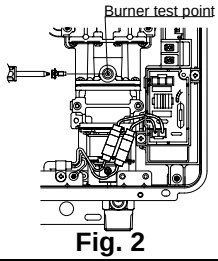


Fig. 2

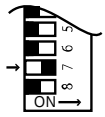


Fig. 3

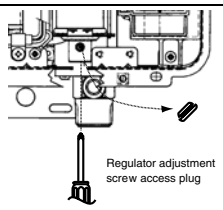


Fig. 4

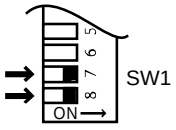


Fig. 5

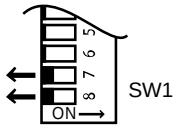
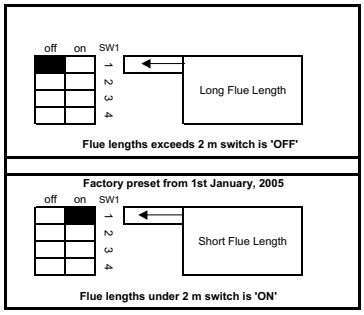


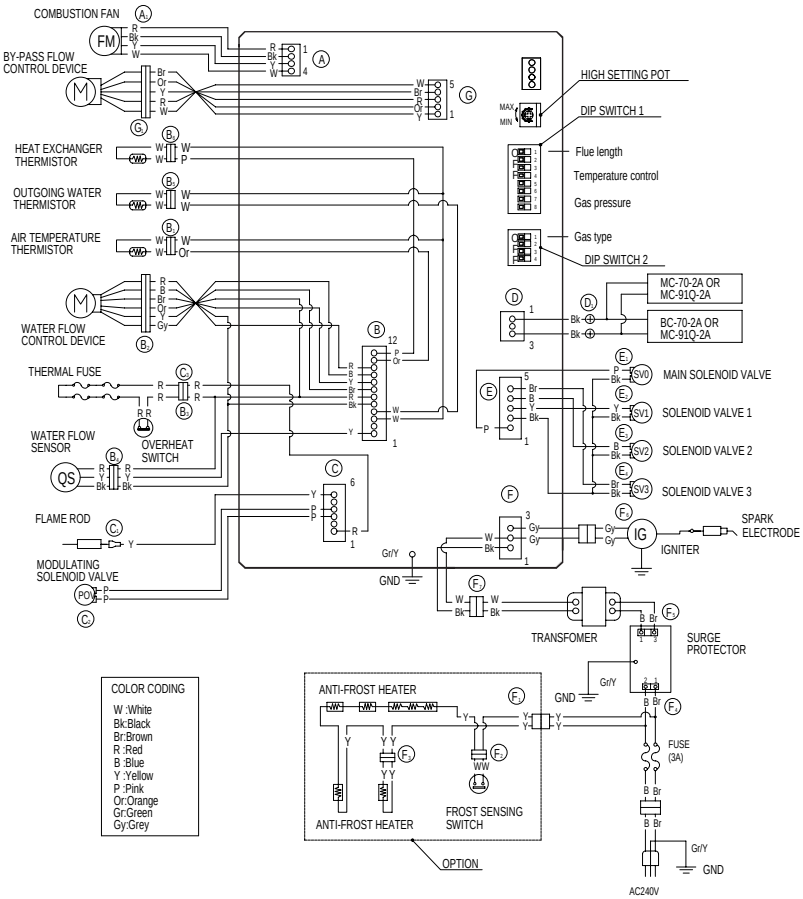
Fig. 6

DIP SWITCH FOR FLUE LENGTH

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



CIRCUIT DIAGRAM AND DIAGNOSTICS POINTS



REF. DWG No.	COMPONENT	MEASUREMENT POINT CN	MEASUREMENT POINT WIRE COLOR	NORMAL VALUE	NOTE
①	SURGE PROTECTOR	F_5	B-Br	AC207~264V	
②⑰	WATER FLOW CONTROL DEVICE	B_2	R-B	DC11~13V	OPERATE ELECTRICITY
			Gy-Or	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	G_1	Br-W Or-W Y-W R-W GND	DC2~6V	OPERATE CONDITION
				15~35Ω	
④	REMOTE CONTROL	D_1	Bk-Bk	DC11~13V	
⑤	WATER FLOW SENSOR	B_4	R-Bk	DC11~13V	ON 2.4L/min (33Hz) OVER 1980PULSE/min
			Y-Bk GND	DC4~7V(PULSE 17~460Hz)	OFF 1.7L/min (23Hz) BELOW 1380PULSE/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 VALVE	C_2	P-P	DC2~15V 67~81Ω	

REF. DWG No.	COMPONENT	MEASUREMENT POINT CN	MEASUREMENT POINT WIRE COLOR	NORMAL VALUE	NOTE
⑨	OUTGOING THERMISTOR HEAT EXCHANGER OUTGOING THERMISTOR	B_5 B_6	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	AIR THERMISTOR	B_1	W-W		
⑪	THERMAL FUSE	B_3 C_3	R-R	BELOW 1Ω	
⑫	IGNITER	F_6	Gy-Gy	AC90~110V	
⑬	MAIN SOLENOID VALVE	E_1	P-Bk	DC80~100V 1.7~2.1kΩ	
⑭	SOLENOID VALVE 1	E_2	Y-Bk	DC80~100V 1.7~2.1kΩ	
⑮	SOLENOID VALVE 2	E_3	B-Bk	DC80~100V 1.7~2.1kΩ	
⑯	SOLENOID VALVE 3	E_4	Br-Bk	DC80~100V 1.7~2.0kΩ	

TRANSFORMER VOLTAGES AND RESISTANCES

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